



# COLORADO

Water Quality  
Control Commission

Department of Public Health & Environment

## NOTICE OF PUBLIC RULEMAKING HEARING BEFORE THE COLORADO WATER QUALITY CONTROL COMMISSION

### SUBJECT:

For consideration of the adoption of new temporary modifications and revisions to current temporary modifications of water quality standards expiring on or before December 31, 2021, and new site specific standards that allow for the deletion of current temporary modifications expiring on or before December 31, 2021, for multiple segments in the Classifications and Numeric Standards for:

- Arkansas River Basin, Regulation #32 (5 CCR 1002-32);
- Upper Colorado River Basin and North Platte River, Regulation #33 (5 CCR 1002-33);
- San Juan River and Dolores River Basins, Regulation #34 (5 CCR 1002-34);
- Gunnison and Lower Dolores River Basins, Regulation #35 (5CCR 1002-35);
- Rio Grande Basin, Regulation #36 (5 CCR 1002-36);
- Lower Colorado River Basin, Regulation #37 (5 CCR 1002-37); and
- South Platte River Basin, Laramie River Basin, Republican River Basin, Smoky Hill River Basin, Regulation #38 (5 CCR 1002-38).

Proposed revisions and proposed Statements of Basis, Specific Statutory Authority and Purpose have been submitted by the following:

- Exhibit 1 - Regulation #32, Water Quality Control Division (division);
- Exhibit 2 - Regulation #33, division;
- Exhibit 3 - Regulation #34, division;
- Exhibit 4 - Regulation #35, division;
- Exhibit 5 - Regulation #36, division;
- Exhibit 6 - Regulation #37, division;
- Exhibit 7 - Regulation #38, division;
- Exhibit 8 - Regulation #32, Resurrection Mining Company; and
- Exhibit 9 - Regulation #33, Climax Molybdenum Company.

In these attachments, proposed new language is shown with double-underlining and proposed deletions are shown with ~~strikeouts~~. Any alternative proposals related to proposed new temporary modifications or current temporary modifications identified in Exhibits 1 through 9, with expiration dates on or before December 31, 2021, will also be considered.

### SCHEDULE OF IMPORTANT DATES

Proponent's prehearing statement due	9/18/2019 5:00 pm	Additional information below.
Party status requests due	10/2/2019 5:00 pm	Additional information below.

Responsive prehearing statements due	10/16/2019 5:00 pm	Additional information below.
Rebuttal statements due	11/20/2019 5:00 pm	Additional information below.
Last date for submittal of motions	11/22/2019 by noon	Additional information below.
Notify commission office if participating in prehearing conference by phone	11/22/2019 by noon	Send email to <a href="mailto:cdphe.wgcc@state.co.us">cdphe.wgcc@state.co.us</a> with participant(s) name(s)
<b>Prehearing Conference</b> (mandatory for parties)	11/25/2019 3:30 pm	Carson Conference Room Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246 Google Hangout: +1 475-441-4506 PIN: 479 724#
Cutoff of negotiations	11/27/2019	N/A
Division's consolidated proposals	12/4/2019	N/A
<b>Rulemaking Hearing</b>	12/9/2019 9:00 am	Sabin Cleere Conference Room Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246

#### HEARING SUBMITTALS:

For this hearing, the commission will receive all submittals electronically. Submittals must be provided as PDF documents, except for raw data exhibits which may be provided as Excel workbooks. Submittals may be emailed to [cdphe.wgcc@state.co.us](mailto:cdphe.wgcc@state.co.us), provided via an FTP site, CD or flash drive, or otherwise conveyed to the commission office so as to be received no later than the specified date.

#### PARTY STATUS:

Party status requests must be in writing and must provide:

- the organization's name,
- one contact person,
- a mailing address,
- a phone number, and
- email addresses of all individuals associated with the party who wish to be notified when new submittals are available on the commission's website for review.

In accordance with section 25-8-104(2)(d), C.R.S., any person who believes that the actions proposed in this notice have the potential to cause material injury to his or her water rights is requested to so indicate, along with an explanation of the alleged harm, in their party status request.

#### PREHEARING AND REBUTTAL STATEMENTS:

Each party must submit a prehearing statement: parties that have proposed revisions attached as exhibits to the notice must submit a proponent's prehearing statement. All other parties must submit a responsive prehearing statement. Proponents may also submit responsive prehearing statements when there are multiple proposals attached to the notice.

Each prehearing and rebuttal statement must be provided as a separate PDF document from any accompanying written testimony or exhibits.

Following the rebuttal statement due date, no other written materials will be accepted from parties except for good cause shown.

Oral testimony at the hearing should primarily summarize written material previously submitted. The hearing will emphasize commission questioning of parties and other interested persons about their written prehearing submittals. Introduction of written material at the hearing by those with party status will not be permitted unless authorized by the commission.

#### PREHEARING CONFERENCE:

**Attendance at the prehearing conference is mandatory for all persons requesting party status.** Parties needing to participate by telephone are encouraged to notify the commission office prior to the prehearing conference. Remote participants can call +1 475-441-4506 and enter the PIN: 479 724#.

Following the cut-off date for motions, no motions will be accepted, except for good cause shown.

#### PUBLIC PARTICIPATION ENCOURAGED:

The commission encourages input from non-parties, either orally at the hearing or in writing prior to the hearing. Written submissions should be emailed to [cdphe.wqcc@state.co.us](mailto:cdphe.wqcc@state.co.us) by November 26, 2019.

#### SPECIFIC STATUTORY AUTHORITY:

The provisions of sections 25-8-202(1)(a), (b), and (2); 25-8-203; 25-8-204; and 25-8-402, C.R.S., provide the specific statutory authority for consideration of the regulatory amendments proposed by this notice. Should the commission adopt the regulatory language as proposed in this notice or alternative amendments, it will also adopt, in compliance with section 24-4-103(4) C.R.S., an appropriate Statement of Basis, Specific Statutory Authority, and Purpose.

Dated this 12th day of August, 2019 in Denver, Colorado.

WATER QUALITY CONTROL COMMISSION

A handwritten signature in black ink, appearing to read 'Trisha Oeth', written in a cursive style.

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Trisha Oeth, Administrator

**EXHIBIT 1**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 32 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR ARKANSAS RIVER BASIN

5 CCR 1002-32

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**32.6 TABLES**

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(2) Abbreviations:

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(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water + Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
  - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
  - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
  - (c) 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.

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**32.63 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION January 13, 2020; EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modification should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**A. Temporary Modifications for Standards Other than Arsenic**

The commission took no action on the following temporary modification:

Middle Arkansas Segment 2: temporary modifications of the acute and chronic temperature standards (expire 7/1/2021). Colorado Parks and Wildlife continues to make progress to resolve the uncertainty. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

The commission took no action on temporary modifications that were set to expire on or before the effective date of this hearing. The commission deleted the following temporary modifications, which were allowed to expire:

Upper Arkansas Segment 8b (cadmium and zinc)

**B. Temporary Modifications for Arsenic**

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 32.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division's Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and

characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the “current condition” temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division’s Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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

**5 CCR 1002-32**

**REGULATION NO. 32  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
ARKANSAS RIVER BASIN**

**APPENDIX 32-1  
Stream Classifications and Water Quality Standards Tables**

Effective 06/30/2019

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

1b. Mainstem of the East Fork of the Arkansas River from its source to a point immediately above the confluence with Birdseye Gulch.							
COARUA01B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Aq Life Cold 1	DM	MWAT	acute	chronic		
Reviewable	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	---	TVS	
Expiration Date of 12/31/ <del>2024</del> 2024	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---	
*Uranium(acute) = See 32.5(3) for details.	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
*Uranium(chronic) = See 32.5(3) for details.		Inorganic (mg/L)		Copper	TVS	TVS	
		acute	chronic	Iron	---	WS	
	Ammonia	TVS	TVS	Iron(T)	---	1000	
	Boron	---	---	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	

2a. Mainstem of the East Fork of the Arkansas River and the Arkansas River from a point immediately above the confluence with Birdseye Gulch to a point immediately above the confluence with the California Gulch.

2a. Mainstem of the East Fork of the Arkansas River and the Arkansas River from a point immediately above the confluence with Birdseye Gulch to a point immediately above the confluence with the California Gulch.							
COARUA02A	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	---	TVS	
Expiration Date of 12/31/ <del>2024</del> 2024	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Inorganic (mg/L)		Copper	TVS	TVS	
*Uranium(acute) = See 32.5(3) for details.		acute	chronic	Iron	---	WS	
*Uranium(chronic) = See 32.5(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	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

2c. Mainstem of the Arkansas River from a point immediately above the confluence with the Lake Fork to a point immediately above the confluence with Lake Creek.							
COARUA02C	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	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		D.O. (spawning)	---	7.0	Cadmium	SSE*	
*Designation: 9/30/00 Base-line does not apply *Cadmium(acute) = $e^{(0.9789 \cdot \ln(\text{hardness}) - 3.866)} \cdot (1.136672 - (\ln(\text{hardness}) \cdot 0.041838))$ *Cadmium(chronic) = $(1.101672 - [\ln(\text{hardness}) \cdot 0.041838]) \cdot e^{(0.7998[\ln \text{hardness}] - 3.1725)}$ *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details. *Zinc(acute) = $0.978 \cdot e^{(0.8537[\ln(\text{hardness})] + 2.2178)}$ *Zinc(chronic) = $0.986 \cdot e^{(0.8537[\ln(\text{hardness})] + 2.0469)}$		pH	6.5 - 9.0	---	Cadmium(T)	5.0	
		chlorophyll a (mg/m <sup>2</sup> )	---	---	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	
		Chlorine	0.019	0.011	Lead(T)	50	
		Cyanide	0.005	---	Manganese	TVS	
		Nitrate	10	---	Mercury(T)	---	
		Nitrite	0.05	---	Molybdenum(T)	---	
		Phosphorus	---	---	Nickel	TVS	
		Sulfate	---	WS	Nickel(T)	---	
		Sulfide	---	0.002	Selenium	TVS	
					Silver	TVS	
					Uranium	varies*	
					Zinc	---	
					Zinc	SSE*	
					Zinc	SSE*	

  

3. Mainstem of the Arkansas River from a point immediately above the confluence with the Lake Creek to the Chaffee/Fremont County line.							
COARUA03	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:		acute	chronic	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	6.0	Cadmium	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		D.O. (spawning)	---	7.0	Cadmium	SSE*	
*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 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		pH	6.5 - 9.0	---	Cadmium(T)	5.0	
		chlorophyll a (mg/m <sup>2</sup> )	---	---	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	
		Chlorine	0.019	0.011	Lead(T)	50	
		Cyanide	0.005	---	Manganese	TVS	
		Nitrate	10	---	Mercury(T)	---	
		Nitrite	0.05	---	Molybdenum(T)	---	
		Phosphorus	---	---	Nickel	TVS	
		Sulfate	---	WS	Nickel(T)	---	
		Sulfide	---	0.002	Selenium	TVS	
					Silver	TVS	
					Uranium	varies*	
					Zinc	TVS	
					Zinc	TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

4a. Mainstem of the Arkansas River from the Chaffee/Fremont County Line to a point immediately above Highway 115 bridge (38.390243, -105.068648), due east of Florence.							
COARUA04A	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	---	SSE*
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic		Iron	---	WS
*Cadmium(acute) = e <sup>0.9789</sup> ln(hardness)-3.866*(1.136672-(ln(hardness)*0.041838))		Ammonia	TVS	TVS	Iron(T)	---	1000
*Cadmium(chronic) = e <sup>0.7977</sup> ln(hardness)-3.909*(1.101672-(ln(hardness)*0.041838))		Boron	---	0.75	Lead	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Lead(T)	50	---
*Uranium(chronic) = See 32.5(3) for details.		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Temperature =		Cyanide	0.005	---	Mercury(T)	---	0.01
DM=CSII and MWAT=CSII from 11/1-3/31		Nitrate	10	---	Molybdenum(T)	---	150
DM= 24.8 and MWAT=22.1 from 4/1-10/31		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

  

4b. Mainstem of the Arkansas River from a point immediately above Highway 115 bridge (38.390243, -105.068648), due east of Florence, to the inlet of Pueblo Reservoir.								
COARUA04B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid			Inorganic (mg/L)			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		acute	chronic		Copper	TVS	TVS	
		Ammonia	TVS	TVS	Iron	---	WS	
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000	
*Uranium(chronic) = See 32.5(3) for details.		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	0.5	---	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

5a. All tributaries to the Arkansas River, including wetlands, from the source to immediately below the confluence with Brown's Creek, except for specific listings in segments 5b through 12b.							
COARUA05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	Temperature °C	340	---	
Qualifiers:		---	6.0	D.O. (mg/L)	---	SSE*	
Other:	D.O. (spawning)	---	7.0	pH	5.0	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		6.5 - 9.0	---	chlorophyll a (mg/m <sup>2</sup> )	---	150*	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Cadmium(acute) = e <sup>-(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e <sup>-(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838)) *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		---	126	E. Coli (per 100 mL)	50	---	
		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		TVS	TVS	Chromium VI	TVS	TVS	
		---	0.75	Copper	TVS	TVS	
		---	250	Iron	---	WS	
		0.019	0.011	Iron(T)	---	1000	
		0.005	---	Lead	TVS	TVS	
		10	---	Lead(T)	50	---	
		0.05	---	Manganese	TVS	TVS/WS	
		---	0.11*	Mercury(T)	---	0.01	
		---	WS	Molybdenum(T)	---	150	
		---	0.002	Nickel	TVS	TVS	
		---	---	Nickel(T)	---	100	
		---	---	Selenium	TVS	TVS	
		---	---	Silver	TVS	TVS(tr)	
		---	---	Uranium	varies*	varies*	
		---	---	Zinc	TVS	TVS	
5b. Mainstem of Trout Creek from its source to Trout Creek Reservoir, including all tributaries and wetlands.							
COARUA05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	Temperature °C	340	---	
Qualifiers:		---	6.0	D.O. (mg/L)	---	SSE*	
Other:	D.O. (spawning)	---	7.0	pH	5.0	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		6.5 - 9.0	---	chlorophyll a (mg/m <sup>2</sup> )	---	150	
*Cadmium(acute) = e <sup>-(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e <sup>-(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838)) *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.		---	126	E. Coli (per 100 mL)	50	---	
		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		TVS	TVS	Chromium VI	TVS	TVS	
		---	0.75	Copper	TVS	TVS	
		---	250	Iron	---	WS	
		0.019	0.011	Iron(T)	---	1000	
		0.005	---	Lead	TVS	TVS	
		10	---	Lead(T)	50	---	
		0.05	---	Manganese	TVS	TVS/WS	
		---	0.11	Mercury(T)	---	0.01	
		---	WS	Molybdenum(T)	---	150	
		---	0.002	Nickel	TVS	TVS	
		---	---	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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

12a. Mainstem of Chalk Creek from the source to the confluence with the Arkansas River.							
COARUA12A	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	---	SSE*
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Boron	---	0.75	Lead	TVS	TVS
*Cadmium(acute) = e <sup>-(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838))		Chloride	---	250	Lead(T)	50	---
*Cadmium(chronic) = e <sup>-(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838))		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Uranium(acute) = See 32.5(3) for details.		Cyanide	0.005	---	Mercury(T)	---	0.01
*Uranium(chronic) = See 32.5(3) for details.		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

12b. Mainstem of Cottonwood Creek (Chaffee County), from the source to the confluence with the Arkansas River; South Fork of the Arkansas, including all tributaries and wetlands, from the National Forest boundary to the confluence with the Arkansas River.							
COARUA12B	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Boron	---	0.75	Lead(T)	50	---
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 32.5(3) for details.		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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

13. All tributaries to the Arkansas River, including wetlands, which are on National Forest lands, from the confluence with Brown's Creek to the inlet to Pueblo Reservoir, except for specific listings in segments 12b, 14a, 14c and 15-27.

COARUA13	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 32.5(4). *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(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

14b. All tributaries to the Arkansas River, including wetlands, which are not on National Forest lands, from the confluence with Brown's Creek to the Chaffee/Fremont County line, except for the specific listing in segment 12b.

COARUA14B	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
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

15a. Mainstem of Badger Creek from the source to the confluence with the Arkansas, including all tributaries and wetlands. Mainstem of Texas Creek from the forest service boundary to the confluence with the Arkansas River, including all tributaries and wetlands which are not on forest service land.

COARUA15A	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 <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/20242024		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(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

15b. Mainstem of Grape Creek, including all tributaries and wetlands, from the source to the outlet of De Weese Reservoir, except for specific listings in segment 25. Mainstems of Hayden, Hamilton, Stout, and Big Cottonwood Creeks, including all tributaries and wetlands, from their sources to their confluences with the Arkansas River. Tributaries and wetlands to Texas Creek which are on Forest Service Land. Mainstem of Newlin Creek from the National Forest boundary to County Road 92 (38.300765, -105.140927).

COARUA15B	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 <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/20242024		Inorganic (mg/L)			Copper	TVS	TVS
			acute	chronic	Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

16c. Mainstem of Tallahassee Creek from a point immediately below the confluence with South Tallahassee Creek to the confluence with the Arkansas River.						
COARUA16C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT			
Reviewable		acute	chronic	acute	chronic	
	Temperature °C	CS-II	CS-II	Arsenic	340	---
	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS
	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
				Chromium VI	TVS	TVS
				Copper	TVS	TVS
				Inorganic (mg/L)		
				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

\*Uranium(acute) = See 32.5(3) for details.  
 \*Uranium(chronic) = See 32.5(3) for details.  
 Expiration Date of 12/31/~~2024~~2024

  

17a. Mainstem of Cottonwood Creek (Fremont County), including all tributaries and wetlands, from the source to a point immediately below the confluence with North Waugh Creek.						
COARUA17A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT			
Reviewable		acute	chronic	acute	chronic	
	Temperature °C	CS-I	CS-I	Arsenic	340	---
	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS
	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
				Chromium VI	TVS	TVS
				Copper	TVS	TVS
				Inorganic (mg/L)		
				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

\*Uranium(acute) = See 32.5(3) for details.  
 \*Uranium(chronic) = See 32.5(3) for details.  
 Expiration Date of 12/31/~~2024~~2024

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

18. Mainstem of Currant Creek (Park County), including all tributaries and wetlands, from the source to the confluence with Tallahassee Creek, except for the specific listings in 17a, 17b, and 17c.

COARUA18	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable		acute	chronic	Ar	As	Cd	
		Temperature °C	CS-II	CS-II	340	---	---
	D.O. (mg/L)	---	6.0	Ar	---	0.02	
<b>Qualifiers:</b>	D.O. (spawning)	---	7.0	Cd	TVS(tr)	TVS	
<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/20242024  *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.	pH	6.5 - 9.0	---	Cd	5.0	---	
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cr	---	TVS	
	E. Coli (per 100 mL)	---	126	Cr	50	---	
	<b>Inorganic (mg/L)</b>			Cr	TVS	TVS	
					Cu	TVS	TVS
					Fe	---	WS
					Fe	---	1000
		Ammonia	TVS	TVS	Pb	TVS	TVS
		Boron	---	0.75	Pb	50	---
		Chloride	---	250	Mn	TVS	TVS/WS
		Chlorine	0.019	0.011	Hg	---	0.01
		Cyanide	0.005	---	Mo	---	150
		Nitrate	10	---	Ni	TVS	TVS
		Nitrite	0.05	---	Ni	---	100
		Phosphorus	---	0.11	Se	TVS	TVS
	Sulfate	---	WS	Ag	TVS	TVS(tr)	
	Sulfide	---	0.002	U	varies*	varies*	
				Zn	TVS	TVS	

19. Mainstem of Fourmile Creek, including all tributaries and wetlands, from the source to immediately below the confluence with High Creek.

COARUA19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute		chronic	
Reviewable		acute	chronic	Ar	As	Cd	
		Temperature °C	CS-I	CS-I	340	---	---
	D.O. (mg/L)	---	6.0	Ar	---	0.02	
<b>Qualifiers:</b>	D.O. (spawning)	---	7.0	Cd	TVS(tr)	TVS	
<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/20242024  *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.	pH	6.5 - 9.0	---	Cr	---	TVS	
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cr	50	---	
	E. Coli (per 100 mL)	---	126	Cr	TVS	TVS	
	<b>Inorganic (mg/L)</b>			Cu	TVS	TVS	
					Fe	---	WS
					Fe	---	1000
		Ammonia	TVS	TVS	Pb	TVS	TVS
		Boron	---	0.75	Pb	50	---
		Chloride	---	250	Mn	TVS	TVS/WS
		Chlorine	0.019	0.011	Hg	---	0.01
		Cyanide	0.005	---	Mo	---	150
		Nitrate	10	---	Ni	TVS	TVS
		Nitrite	0.05	---	Ni	---	100
		Phosphorus	---	0.11	Se	TVS	TVS
		Sulfate	---	WS	Ag	TVS	TVS(tr)
	Sulfide	---	0.002	U	varies*	varies*	
				Zn	TVS	TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Arkansas River Basin

24. Mainstem of East and West Beaver Creeks, including all tributaries and wetlands, from the source to the confluence with Beaver Creek; mainstem of Beaver Creek from the source to the point of diversion to Brush Hollow Reservoir.									
COARUA24	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-II	CS-II	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS		
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---		
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS		
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---		
Expiration Date of 12/31/20242024		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS		
*Uranium(acute) = See 32.5(3) for details.					Copper	TVS	TVS		
*Uranium(chronic) = See 32.5(3) for details.					Iron	---	WS		
					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		

  

37. All lakes and reservoirs tributary to the mainstem of Fourmile Creek from the source to the confluence with the Arkansas River. This segment includes Wrights Reservoir.									
COARUA37	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS*	DM	MWAT	acute      chronic					
Reviewable		acute	chronic	Temperature °C	CL,CLL	CL,CLL	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS		
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---		
Temporary Modification(s):		chlorophyll a (ug/L)	---	8*	Chromium III	---	TVS		
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---		
Expiration Date of 12/31/20242024		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS		
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.					Copper	TVS	TVS		
*Classification: DUWS applies to Ott Reservoir					Iron	---	WS		
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.					Iron(T)	---	1000		
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS		
*Uranium(chronic) = See 32.5(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	---	0.025*	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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle Arkansas River Basin

2. Mainstem of the Arkansas River from the outlet of Pueblo Reservoir to a point immediately above the confluence with Wildhorse/Dry Creek Arroyo.									
COARMA02	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:			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/ <del>2021</del> <u>2024</u> temperature(ac/ch) = current conditions Expiration Date of 7/1/2021  *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
pH		6.5 - 9.0	---	---	Chromium III	---	TVS		
chlorophyll a (mg/m <sup>2</sup> )		---	---	---	Chromium III(T)	50	---		
E. Coli (per 100 mL)		---	126	---	Chromium VI	TVS	TVS		
Inorganic (mg/L)				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		---	---	---	---	Nickel	TVS	TVS	
Sulfate		---	WS	---	---	Nickel(T)	---	100	
Sulfide		---	0.002	---	---	Selenium	TVS	TVS	
					Silver	TVS	TVS(tr)		
					Uranium	varies*	varies*		
					Zinc	TVS	TVS		
3. Mainstem of the Arkansas River from a point immediately above the confluence with Wildhorse/Dry Creek Arroyo to a point immediately above the confluence with Fountain Creek.									
COARMA03	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture		DM	MWAT		acute	chronic		
Reviewable	Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Arsenic	340	---		
Qualifiers:			acute	chronic	Arsenic(T)	---	0.02		
		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS		
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2021</del> <u>2024</u>  *Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---		
chlorophyll a (mg/m <sup>2</sup> )		---	---	---	Chromium III	---	TVS		
E. Coli (per 100 mL)		---	126	---	Chromium III(T)	50	---		
Inorganic (mg/L)				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		---	---	---	---	Molybdenum(T)	---	150	
Sulfate		---	WS	---	---	Nickel	TVS	TVS	
Sulfide		---	0.002	---	---	Nickel(T)	---	100	
						Selenium	26.3	17.1	
					Silver	TVS	TVS		
					Uranium	varies*	varies*		
					Zinc	TVS	TVS		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 32.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle Arkansas River Basin

7a. Mainstem of Greenhorn Creek, including all tributaries and wetlands, from the source to the San Isabel National Forest boundary, except for specific listings in segment 1. Mainstem of Graneros Creek, from the source to the San Isabel National Forest boundary, except for specific listings in segment 1. All tributaries to Muddy Creek, including wetlands, from the source to the San Isabel National Forest boundary.

COARMA07A 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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 32.5(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

7b. Mainstem of Greenhorn Creek, including all tributaries and wetlands, from the San Isabel National Forest boundary to a point immediately below the Greenhorn Highline (Hayden Supply Ditch) diversion dam. Mainstem of Graneros Creek below the San Isabel National Forest boundary. Muddy Creek, including all tributaries and wetlands, from the San Isabel National Forest boundary to 232/Bondurant Road.

COARMA07B 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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 32.5(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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle Arkansas River Basin

9. Mainstem of Greenhorn Creek, from a point immediately below the Greenhorn Highline (Hayden Supply Ditch) diversion dam, to the confluence with the Saint Charles River.							
COARMA09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340      ---	
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02	
Water Supply	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS	
		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---	
<b>Qualifiers:</b>		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
<b>Water + Fish Standards Apply</b>		<b>acute</b>	<b>chronic</b>	Chromium III(T)	50	---	
<b>Other:</b>		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Temporary Modification(s):		<b>acute</b>	<b>chronic</b>	Copper	TVS	TVS	
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Iron	---	WS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		Boron	---	0.75	Iron(T)	---	1000
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).		Chloride	---	250	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(acute) = See 32.5(3) for details.		Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 32.5(3) for details.		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	0.5	---	Molybdenum(T)	---	150
		Phosphorus	---	0.17*	Nickel	TVS	TVS
		Sulfate	---	700	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	varies*	varies*
					Zinc	TVS	TVS
11a. Mainstem of the Huerfano River including all tributaries and wetlands, from the source to 570 Road near Malachite, except for the specific listings in segment 1. Pass Creek, including all tributaries and wetlands, from the source to 565 Road. Muddy Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Bruff Creek, except for the specific listings in segment 1. Mainstem of Turkey Creek (in Huerfano County) from the source to 620 Road, except for the specific listings in segment 1.							
COARMA11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340      ---	
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02	
Water Supply	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)      TVS	
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0      ---	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		<b>acute</b>	<b>chronic</b>	Iron	---	WS	
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle Arkansas River Basin

11b. Mainstem of the Huerfano River, including all tributaries and wetlands, from 570 Road near Malachite to Highway 69 at Badito, except for the specific listings in segment 1, 11a and 17.

COARMA11B Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable	Aq Life Cold 1	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	
<b>Qualifiers:</b>		D.O. (spawning)	7.0	Cadmium(T)	5.0	---	
<b>Other:</b>		pH	6.5 - 9.0	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	150	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/20242024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		acute	chronic	Iron	---	WS	
*Uranium(chronic) = See 32.5(3) for details.		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

13a. All tributaries, including wetlands, to the Cucharas River within the San Isabel National Forest boundaries, except for the specific listings in segment 1. Mainstem of the Cucharas River, from the source to a point immediately above the confluence with Middle Creek, except for the specific listings in segment 1. Wahatoya Creek, including all tributaries and wetlands, from the source to the confluence with the Cucharas River, except for the specific listings in segment 1. All tributaries to Middle Creek, including wetlands, from the source to a point immediately below the confluence of North and South Middle Creeks.

COARMA13A 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	
<b>Qualifiers:</b>		D.O. (spawning)	7.0	Cadmium(T)	5.0	---	
<b>Other:</b>		pH	6.5 - 9.0	Chromium III	---	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	150	Chromium III(T)	50	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	126	Chromium VI	TVS	TVS	
Expiration Date of 12/31/20242024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		acute	chronic	Iron	---	WS	
*Uranium(chronic) = See 32.5(3) for details.		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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle Arkansas River Basin

13b. Mainstem of the Cucharas River from a point immediately above the confluence with Middle Creek to the confluence with North Abeyta Creek (37.567852, -104.907046). All tributaries, including wetlands, to the Cucharas River from the San Isabel National Forest boundary to a point immediately below North Abeyta Creek (37.567852, -104.907046), except for specific listings in Segment 13a. Mainstem of Middle Creek, including all tributaries and wetlands, from a point immediately below the confluence of North and South Middle Creeks to the confluence with the Cucharas River, except for specific listings in 13a.

COARMA13B		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			
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---			
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS			
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---			
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS			
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS			
					<b>Inorganic (mg/L)</b>					
						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			

17. All tributaries to Apache Creek, including wetlands, from the source to a point immediately below the confluence of North and South Apache Creeks, except for the specific listings in segment 1. All tributaries, including wetlands, to the Huerfano River above the confluence with the Cucharas River that are within the San Isabel National Forest boundaries, except for the specific listings in segment 1 and 11a.

COARMA17		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			
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---			
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS			
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---			
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS			
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS			
					<b>Inorganic (mg/L)</b>					
						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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle Arkansas River Basin

18a. Mainstem of Boggs Creek from the source to Pueblo Reservoir.							
COARMA18A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	0.5	---	Molybdenum(T)	---	150
		Phosphorus	---	0.17	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
		Sulfide	---	0.002	Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

18b. Turkey Creek (Pueblo County) from U.S. Highway 50 to Pueblo Reservoir. Unnamed tributary to Arkansas River, that flows from the south and whose confluence with the Arkansas River is located at 38.267623, -104.668298. Mainstem of Rush Creek (Pueblo County) from the source to the confluence with the Arkansas River.

18b. Turkey Creek (Pueblo County) from U.S. Highway 50 to Pueblo Reservoir. Unnamed tributary to Arkansas River, that flows from the south and whose confluence with the Arkansas River is located at 38.267623, -104.668298. Mainstem of Rush Creek (Pueblo County) from the source to the confluence with the Arkansas River.							
COARMA18B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	0.5	---	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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Middle Arkansas River Basin

20. Pueblo Reservoir.							
COARMA20	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture						
	Aq Life Cold 1	varies*	varies*	Arsenic	340	---	
	Recreation E	acute	chronic	Arsenic(T)	---	0.02	
	Water Supply	---	6.0	Cadmium	TVS(tr)	TVS	
	DUWS	---	7.0	Cadmium(T)	5.0	---	
<b>Qualifiers:</b>		pH	6.5 - 9.0	Chromium III	---	TVS	
<b>Other:</b>		chlorophyll a (ug/L)	---	Chromium III(T)	50	---	
Temporary Modification(s):		E. Coli (per 100 mL)	---	Chromium VI	TVS	TVS	
Arsenic(chronic) = hybrid			126	Copper	TVS	TVS	
Expiration Date of 12/31/ <del>2021</del> <u>2024</u>		<b>Inorganic (mg/L)</b>			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*chlorophyll a (ug/L)(chronic) = See assessment location at 32.6(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Lead(T)	50	---
*Uranium(chronic) = See 32.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Temperature =		Chlorine	0.019	0.011	Mercury(T)	---	0.01
DM=CLL and MWAT=CLL from 1/1-3/31		Cyanide	0.005	---	Molybdenum(T)	---	150
DM= CLL and MWAT=23.6 from 4/1-12/31		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	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Fountain Creek Basin

1a. Mainstem of Fountain Creek, including all tributaries and wetlands, from the source to a point immediately above the confluence with Monument Creek, except for specific listings in segment 1b.

COARFO01A	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <u>2024</u>					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(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

1b. Severy Creek and all tributaries from the source to a point just upstream of where US Forest Service Road 330 crosses the stream.

COARFO01B	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <u>2024</u>					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Fountain Creek Basin

3a. All tributaries to Fountain Creek which are within the boundaries of National Forest or Air Force Academy lands, including all wetlands, from a point immediately above the confluence with Monument Creek to the confluence with the Arkansas River, except for the mainstem of Monument Creek in the Air Force Academy lands and specific listings in segment 3b. Cheyenne Creek, including tributaries and wetlands from the source to the confluence with Fountain Creek. Bear Creek below Gold Camp Road to the confluence with Fountain Creek. Little Fountain Creek from the source to Highway 115. Rock Creek from the source to Highway 115. North Monument Creek from the source to the confluence with Monument Creek. Beaver Creek from the source to the confluence with Monument Creek.

COARFO03A	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
		<b>Inorganic (mg/L)</b>			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(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

3b. Bear Creek, and all tributaries, from the source to a point immediately upstream of Gold Camp Road.

COARFO03B	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
		<b>Inorganic (mg/L)</b>			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Fountain Creek Basin

5a. Jimmy Camp Creek, including all tributaries and wetlands from the source to Old Pueblo Road (38.673200, -104.696739). Williams Creek, including all tributaries and wetlands, from the source to the confluence with Fountain Creek.

COARFO05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>			acute	chronic	Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).		Ammonia	TVS	TVS	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Boron	---	0.75	Iron(T)	---	1000
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Lead	TVS	TVS
*Uranium(chronic) = See 32.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50	---
		Cyanide	0.005	---	Manganese	TVS	TVS/WS
		Nitrate	10	---	Mercury(T)	---	0.01
		Nitrite	0.5	---	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

8. All lakes and reservoirs tributary to the mainstem of Fountain Creek from the source to a point immediately above the confluence with Monument Creek, except for specific listings in segment 9.

COARFO08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CL	CL	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	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		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		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>			acute	chronic	Iron	---	WS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Classification: DUWS applies to Big Tooth Reservoir, Lake Moraine, Woodmoor Lake		Boron	---	0.75	Lead	TVS	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Chloride	---	250	Lead(T)	50	---
*Uranium(acute) = See 32.5(3) for details.		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 32.5(3) for details.		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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Arkansas River Basin

1b. Mainstem of the Arkansas River from the Colorado Canal headgate to the inlet to John Martin Reservoir.						
COARLA01B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Water + Fish Standards Apply		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Iron	---
Discharger Specific Variance(s):		Boron	---	0.75	Iron(T)	---
Selenium(chronic) = See Section 32.6(6)(d)(ii) for details on variance for the City of Las Animas.		Chloride	---	250	Lead	TVS
Expiration Date of 12/31/2025		Chlorine	0.019	0.011	Lead(T)	50
*Uranium(acute) = See 32.5(3) for details.		Cyanide	0.005	---	Manganese	TVS
*Uranium(chronic) = See 32.5(3) for details.		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.5	---	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	902	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

  

1c. Mainstem of the Arkansas River from the outlet of John Martin Reservoir to the Colorado/Kansas border.						
COARLA01C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
UP	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Water + Fish Standards Apply		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Iron	---
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---
*Uranium(chronic) = See 32.5(3) for details.		Chloride	---	250	Lead	TVS
		Chlorine	0.019	0.011	Lead(T)	50
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.5	---	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	1900	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Arkansas River Basin

5b. Mainstem of the North Fork of the Purgatoire River, including all tributaries and wetlands, from a point immediately below the confluence with Guajatoyah Creek to the confluence with the Purgatoire River. Mainstem of the Middle Fork of the Purgatoire River from the Bar Ni Ranch Road at Stonewall Gap to the confluence with the North Fork of the Purgatoire River. Mainstem of the South Fork of the Purgatoire River from Tercio to the confluence with the Purgatoire River. Mainstem of the Purgatoire River to Trinidad Lake. Mainstem of Long Canyon Creek from the source to Trinidad Reservoir.

COARLA05B	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Boron	---	4.0	Lead(T)	50	---
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 32.5(3) for details.		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

5c. Purgatoire mainstem from Trinidad Lake outlet works to I-25. Mainstem of Raton Creek from the source to the confluence of Purgatoire River.

COARLA05C	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 32.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 32.5(4).		Boron	---	2.0	Lead(T)	50	---
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 32.5(3) for details.		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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Arkansas River Basin

9a. Mainstems of Adobe, Buffalo, Cheyenne, Clay, Gageby, Horse, Two Butte, Wildhorse and Wolf Creeks from their sources to their confluences with the Arkansas River. Mainstems of Chacuacho Creek, San Francisco Creek, Trinchera Creek and Van Bremer Arroyo from their sources to their confluences with the Purgatoire River. Mainstem of Willow Creek from Highway 287 to the confluence with the Arkansas River. Mainstem of Big Sandy Creek from the source to the El Paso/Elbert county line. Mainstem of South Rush Creek from the source to the confluence with Rush Creek. Mainstem of Middle Rush Creek from the source to the confluence with North Rush Creek. North Rush Creek from the source to the confluence with South Rush Creek. Mainstem of Rush Creek to the Lincoln County Line. Mainstem of Antelope Creek from the source to the confluence with Rush Creek; the West May Valley drain from the Fort Lyon Canal to the confluence with the Arkansas River.

COARLA09A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 32.5(3) for details.		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	0.5	---	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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Arkansas River Basin

9b. Mainstem of Apache Creek from the source to the confluence with the North Rush Creek. Mainstem of Breckenridge Creek from the source to the confluence with Horse Creek. Mainstem of Little Horse Creek from the source to the confluence with Horse Creek. Mainstem of Bob Creek from the source to Meredith Reservoir. Mainstem of Big Sandy Creek within Prowers County. Mainstem of Rule Creek from the Bent/Las Animas county line to John Martin Reservoir. Mainstem of Muddy Creek from the south boundary of the Setchfield State Wildlife Area to the confluence with Rule Creek. Mainstem of Caddoa Creek from CC Road to the confluence with the Arkansas River. Mainstem of Cat Creek from the source to the confluence with Clay Creek. Mainstem of Mustang Creek from the source to the confluence with Apishapa River. Mainstem of Chicosa Creek from the source to the Arkansas River. Mainstem of Smith Canyon from the Otero/Las Animas county line to the confluence with the Purgatoire River. Mainstem of Mud Creek from V Road to the confluence with the Arkansas River. Mainstems of Frijole Creek and Luning Arroyo from their sources to their confluences with the Purgatoire River. Mainstem of Blackwell Arroyo from its source to the confluence with Luning Arroyo. Mainstem of San Isidro Creek from the source to the confluence with San Francisco Creek.

COARLA09B	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture						
	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>							
<b>Water + Fish Standards Apply</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 32.5(3) for details.		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	0.5	---	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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Arkansas River Basin

11. John Martin Reservoir.						
COARLA11	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)	---	5.0	Cadmium	TVS      TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS      TVS
Expiration Date of 12/31/ <del>2024</del> 2024		acute	chronic		Copper	TVS      TVS
*Uranium(acute) = See 32.5(3) for details.		Ammonia	TVS	TVS	Iron	---
*Uranium(chronic) = See 32.5(3) for details.		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	TVS      TVS
		Chlorine	0.019	0.011	Lead(T)	50      ---
		Cyanide	0.005	---	Manganese	TVS      TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.5	---	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS      TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS      TVS
					Silver	TVS      TVS
					Uranium	varies*      varies*
					Zinc	TVS      TVS

19. All lakes and reservoirs tributary to the Arkansas River, except for specific listings in segments 10-18 and Middle Arkansas Basin segments 19-28.						
COARLA19	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)	---	5.0	Cadmium	TVS      TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
Other:		chlorophyll a (ug/L)	---	20*	Chromium III	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS      TVS
Expiration Date of 12/31/ <del>2024</del> 2024		acute	chronic		Copper	TVS      TVS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Iron	---
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Boron	---	0.75	Iron(T)	---
*Uranium(acute) = See 32.5(3) for details.		Chloride	---	250	Lead	TVS      TVS
*Uranium(chronic) = See 32.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50      ---
		Cyanide	0.005	---	Manganese	TVS      TVS/WS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.5	---	Molybdenum(T)	---
		Phosphorus	---	0.083*	Nickel	TVS      TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

**EXHIBIT 2**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

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

5 CCR 1002-33

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**33.6 TABLES**

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(2) Abbreviations:

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(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water+Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
  - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
  - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
  - (c) 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.

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**33.63 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2019 EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modification should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**A. Temporary Modifications for Standards Other than Arsenic**

The commission extended the following temporary modification:

Blue River Segment 14: temporary modification of the chronic molybdenum standard (expires 6/30/2023). The commission extended this temporary modification from 6/30/2020 to 6/30/2023 to provide time for information to become available to support development of an updated molybdenum standard to protect the Water Supply use. In addition, Climax Molybdenum Company continues to make progress to investigate molybdenum sources/source control, influent control measures, water management alternatives, available blending, potential treatment and treatment optimization options, and the expected effluent quantity and quality that could be achieved with each alternative.

An extension of the temporary modification is needed due to the delay in the release of the updated version of the Agency of Toxic Substances and Disease Registry's (ATSDR) draft toxicological profile for molybdenum, which will inform development of an updated molybdenum table value standard. It is unknown when the ATSDR toxicological profile will be available, which has resulted in the indefinite continuation of the commission's consideration of a revised molybdenum standard. As a result of this delay, the commission extended the "current condition" temporary modification to June 30, 2023. When the ATSDR toxicological profile becomes available, a hearing to consider a revised molybdenum standard will be scheduled expeditiously.

During the 2018 temporary modifications rulemaking hearing (see 33.61), the commission directed the division to develop a numeric operative value(s) to replace the existing narrative operative value of "current condition" if this temporary modification was extended. The intended purpose of this change was to establish a baseline condition which must be preserved in Blue River Segment 14 and facilitate future evaluations of status quo preservation in the waterbody and effluent. However, due to differences in statistical methods and the form of molybdenum used in standards assessment versus permitting, the commission determined that adoption of a numeric operative value may inadvertently cause permit compliance issues, and therefore retained the narrative "current condition" operative value for this temporary modification. Maintenance of status quo will instead be addressed through discharge permit limits and evaluation of instream data, with the baseline instream condition characterized in this and previous (33.61) statement of basis.

To address the requirement to maintain status quo in effluent, the division has developed implementation guidance to translate narrative “current condition” temporary modifications into numeric limits in discharge permits using past performance data as a baseline. Climax restarted operations and began producing molybdenum concentrate in May 2012. The “current condition” temporary modification was adopted in June 2014, after operations resumed at Climax. For the purposes of molybdenum in Segment 14, the relevant baseline is the water quality condition represented by data collected from May 2012 to June 2014, when the temporary modification was originally adopted.

To address the requirement to maintain status quo instream, the 50<sup>th</sup> percentile molybdenum concentration of 170 µg/L in Tenmile Creek from the May 2012 to June 2014 period of record will be used as a baseline to compare to data collected after the temporary modification was adopted in June 2014. Comparisons are to be conducted using the ambient standards assessment technique in Appendix B of the 303(d) listing methodology and using water quality data from the two sites on Tenmile Creek near Frisco (Climax site “Frisco 3<sup>rd</sup> Ave” and Denver Water site “Ten Mile Creek above Dillon”). Use of the ambient standards assessment methodology to compare the baseline period water quality (May 2012 to June 2014) to current water quality (July 2014 to April 2019) indicates that the lower confidence limit of the 50<sup>th</sup> percentile molybdenum concentration is currently not higher than the baseline. Based on this information, at this time, the commission finds “status quo” is currently being preserved.

The commission expects that Climax will continue to provide written reports detailing its ongoing molybdenum investigations to all stakeholders each year by July 1. Further, the commission encourages Climax to continue sharing information and data with the public and interested parties on a routine and ongoing basis.

## **B. Temporary Modifications for Arsenic**

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 33.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division’s Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division’s Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources

of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the “current condition” temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division’s Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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**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~~06/30/2020

## 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 <sup>2</sup>	=	milligrams per square meter
mL	=	milliliter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WL	=	warm lake temperature tier

# REGULATION #33 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## 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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	150	Chromium III(T)	50	---
		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)	

  

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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	150	Chromium III(T)	50	---
		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

## 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	Temperature °C	varies*	varies*	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(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.	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 <sup>2</sup> )	---	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	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	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	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(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.	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 <sup>2</sup> )	---	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.							
COUCUC06A	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
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(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.	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 <sup>2</sup> )	---	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

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		Physical and Biological			Metals (ug/L)		
Designation	Classifications	DM	MWAT	acute	chronic		
Reviewable	Agriculture						
	Aq Life Cold 1	varies*	varies*	340	---		
	Recreation E	acute	chronic	---	0.02		
	Water Supply	---	6.0	TVS(tr)	TVS		
<b>Qualifiers:</b>							
<b>Other:</b>							
Temporary Modification(s):							
Arsenic(chronic) = hybrid							
Expiration Date of 12/31/ <del>2024</del> 2024							
*Uranium(acute) = See 33.5(3) for details.							
*Uranium(chronic) = See 33.5(3) for details.							
*Temperature =							
See 33.6(4) for temperature standards.							
		<b>Inorganic (mg/L)</b>					
		acute	chronic				
		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	
		---	0.11	Selenium	TVS	TVS	
		---	WS	Silver	TVS	TVS(tr)	
		---	0.002	Uranium	varies*	varies*	
				Zinc	TVS	TVS	

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		Physical and Biological			Metals (ug/L)		
Designation	Classifications	DM	MWAT	acute	chronic		
Reviewable	Agriculture						
	Aq Life Cold 1	CS-I	CS-I	340	---		
	Recreation E	acute	chronic	---	0.02		
	Water Supply	---	6.0	TVS(tr)	TVS		
<b>Qualifiers:</b>							
<b>Other:</b>							
Temporary Modification(s):							
Arsenic(chronic) = hybrid							
Expiration Date of 12/31/ <del>2024</del> 2024							
*chlorophyll a (mg/m <sup>2</sup> )(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.							
		<b>Inorganic (mg/L)</b>					
		acute	chronic				
		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	
		---	0.11*	Selenium	TVS	TVS	
		---	WS	Silver	TVS	TVS(tr)	
		---	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

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	---	
	pH	6.5 - 9.0	---	Chromium III	---	TVS	
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---	
	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
	Inorganic (mg/L)				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)	---	190	
	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)	

\*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.

  

10a. Mainstem of the Fraser River from the source to a point immediately below the Rendezvous Bridge (39.933728, -105.789785). All tributaries to the Fraser River, including wetlands, from the source to the confluence with the Colorado River, except for those tributaries included in Segments 2 and 9.							
COUCUC10A	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	---	
	pH	6.5 - 9.0	---	Chromium III	---	TVS	
	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---	
	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
	Inorganic (mg/L)				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/TVS(sc)	

\*chlorophyll a (mg/m<sup>2</sup>)(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

## Upper Colorado River Basin

10b. Mainstem of the Fraser River from a point immediately below the Rendezvous Bridge (39.933728, -105.789785) to a point immediately below the Hammond No 1 Ditch (39.952113, -105.814481).

COUCUC10B	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/20242024					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/TVS(sc)

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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/20242024					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/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

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		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024+2024					Copper	TVS
*Uranium(acute) = See 33.5(3) for details.		Inorganic (mg/L)			Iron	---
*Uranium(chronic) = See 33.5(3) for details.			acute	chronic	Iron(T)	---
		Ammonia	TVS	TVS	Lead	TVS
		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	0.05	---	Nickel(T)	---
		Phosphorus	---	0.11	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	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		
UP	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	4
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/2024+2024					Copper	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).		Inorganic (mg/L)			Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).			acute	chronic	Iron(T)	---
*Uranium(acute) = See 33.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS
*Uranium(chronic) = See 33.5(3) for details.		Boron	---	0.75	Lead(T)	50
*Zinc(acute) = e <sup>√(1.25 (ln(hard)+0.799))</sup>		Chloride	---	250	Manganese	TVS
*Zinc(chronic) = e <sup>√(1.25 (ln(hard)+0.799))</sup>		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	0.05	---	Nickel(T)	---
		Phosphorus	---	0.11*	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	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 Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	Arsenic	340	---	
Qualifiers:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	SSE*	SSE*
Other:  *Cadmium(acute) = $1/2e^{(1.0166(\ln(\text{hard})-3.132))}$ *Cadmium(chronic) = $1/2e^{(1.0166(\ln(\text{hard})-3.132))}$ *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details. *Zinc(acute) = $e^{(0.9805(\ln(\text{hard})+1.402))}$ *Zinc(chronic) = $e^{(0.9805(\ln(\text{hard})+1.402))}$	D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	
	pH	6.5 - 9.0	---	Chromium III	---	TVS	
	chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---	
	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS	
	Inorganic (mg/L)			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	---	---	Nickel	TVS	TVS	
	Sulfate	---	WS	Nickel(T)	---	100	
	Sulfide	---	0.002	Selenium	TVS	TVS	
			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 Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	Arsenic	340	---	
Qualifiers:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	Temperature °C	CS-I	CS-I	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
Other:  *Cadmium(acute) = $e^{(0.9789 \ln(\text{hardness}) - 3.866) * (1.136672 - \ln(\text{hardness}) * 0.041838))}$ *Cadmium(chronic) = $e^{(0.7977 \ln(\text{hardness}) - 3.909) * (1.101672 - \ln(\text{hardness}) * 0.041838))}$ *Uranium(acute) = See 33.5(3) for details. *Uranium(chronic) = See 33.5(3) for details.	D.O. (spawning)	---	7.0	Cadmium	SSE*	---	
	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
	chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS	
	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---	
	Inorganic (mg/L)			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	---	---	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)		

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

4a. All direct tributaries, including wetlands, to Dillon Reservoir and all tributaries, including wetlands, to the Blue River above Dillon Reservoir, except for specific listings in Segments 1, 2a, 2b, 2c, 4b, 6a, 10-14 and 16.

COUCBL04A	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	---	SSE*
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	TVS
*Cadmium(acute) = $e^{(0.9789 \ln(\text{hardness}) - 3.866)} * (1.136672 - (\ln(\text{hardness}) * 0.041838))$		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Cadmium(chronic) = $e^{(0.7977 \ln(\text{hardness}) - 3.909)} * (1.101672 - (\ln(\text{hardness}) * 0.041838))$			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	---	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. 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*
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).			acute	chronic	Iron	---	WS
*Cadmium(acute) = $e^{(0.9789 \ln(\text{hardness}) - 3.866)} * (1.136672 - (\ln(\text{hardness}) * 0.041838))$		Ammonia	TVS	TVS	Iron(T)	---	1000
*Cadmium(chronic) = $e^{(0.7977 \ln(\text{hardness}) - 3.909)} * (1.101672 - (\ln(\text{hardness}) * 0.041838))$		Boron	---	0.75	Lead	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		Chloride	---	250	Lead(T)	50	---
*Uranium(chronic) = See 33.5(3) for details.		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

## Blue River Basin

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).		<b>Inorganic (mg/L)</b>			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)

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
Molybdenum(chronic) = current conditions		<b>Inorganic (mg/L)</b>			Iron	---	WS
Expiration Date of 6/30/ <del>2020</del> 2023			acute	chronic	Iron(T)	---	1000
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		Boron	---	0.75	Lead(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 33.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
		Cyanide	0.005	---	Molybdenum(T)	---	210
		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 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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	---	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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	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

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			
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					Copper	TVS	TVS
Expiration Date of 12/31/2024		Inorganic (mg/L)			Iron	---	WS
			acute	chronic	Iron(T)	---	1000
*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	Lead	TVS	TVS
*Classification: DUWS Applies only to Goose Pasture Tarn		Boron	---	0.75	Lead(T)	50	---
*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	Manganese	TVS	TVS/WS
*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	Mercury(T)	---	0.01
*Uranium(acute) = See 33.5(3) for details.		Cyanide	0.005	---	Molybdenum(T)	---	150
*Uranium(chronic) = See 33.5(3) for details.		Nitrate	10	---	Nickel	TVS	TVS
		Nitrite	0.05	---	Nickel(T)	---	100
		Phosphorus	---	0.0074*	Selenium	TVS	TVS
		Phosphorus	---	0.025*	Silver	TVS	TVS(tr)
		Sulfate	---	WS	Uranium	varies*	varies*
		Sulfide	---	0.002	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

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	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(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 <sup>^(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e <sup>^(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838)) *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	---	SSE*
	D.O. (spawning)	---	7.0	Cadmium	SSE*	---	
	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---	
	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS	
	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/TVS(sc)		

  

3. All tributaries to the Eagle River, including wetlands, from the source to above the compressor house bridge at Belden (39.526879, -106.394950), except for the specific listings in Segments 1 and 4.							
COUCEA03	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
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	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 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 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)	SSE*
		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
		pH	6.5 - 9.0	---	Chromium III	---	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	---	SSE*
		acute	chronic	Copper	SSE*	---	
		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	---	SSE*
					Zinc	SSE*	---

**Qualifiers:**

**Other:**

Temporary Modification(s):  
 Arsenic(chronic) = hybrid  
 Expiration Date of 12/31/~~2024~~2024

\*Designation: 9/30/00 Baseline does not apply  
 \*Cadmium(chronic) = (1.101672-[ln(hardness)\*(0.041838)])\* e^(0.7998 [ln(hardness)]-3.1725)  
 \*Copper(acute) = 0.96\*e^0.9801[ln(hardness)]-1.5865  
 \*Copper(chronic) = 0.96\*e^0.5897[ln(hardness)]-0.4845  
 \*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)]+2.1302 from 1/1 - 4/30  
 0.978\*e^0.8537[ln(hardness)]+1.4189 from 5/1 - 12/31  
 \*Zinc(chronic) = 0.986\*e^0.8537[ln(hardness)]+1.9593 from 1/1 - 4/30  
 0.986\*e^0.8537[ln(hardness)]+1.2481 from 5/1 - 12/31

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	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	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2021</del> 2024			Inorganic (mg/L)		Chromium VI	TVS	TVS
					Copper	---	SSE*
					Copper	SSE*	---
					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	---	SSE*
					Zinc	SSE*	---
*Designation: 9/30/00 Baseline does not apply							
*Cadmium(acute) = e <sup>-(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838))							
*Cadmium(chronic) = (1.101672-[ln(hardness)*(0.041838)])* e <sup>-(0.7998 [ln(hardness)]-3.1725)</sup>							
*Copper(acute) = 0.96*e <sup>-0.9801[ln(hardness)]-1.5865</sup>							
*Copper(chronic) = 0.96*e <sup>-0.5897[ln(hardness)]-0.4845</sup>							
*Uranium(acute) = See 33.5(3) for details.							
*Uranium(chronic) = See 33.5(3) for details.							
*Zinc(acute) = 0.978*e <sup>-0.8537[ln(hardness)]+1.4189</sup>							
*Zinc(chronic) = 0.986*e <sup>-0.8537[ln(hardness)]+1.2481</sup>							

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

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 Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic						
Reviewable		acute	chronic	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	SSE*	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Cadmium(acute) = $e^{(0.9789 \ln(\text{hardness}) - 3.866)} * (1.136672 - (\ln(\text{hardness}) * 0.041838))$ *Cadmium(chronic) = $e^{(0.7977 \ln(\text{hardness}) - 3.909)} * (1.101672 - (\ln(\text{hardness}) * 0.041838))$ *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 <sup>2</sup> )	---	150			Chromium III	---	TVS	
		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/TVS(sc)		
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 Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic						
Reviewable		acute	chronic	Temperature °C	CS-I*	varies*	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/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(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		pH	6.5 - 9.0	---			Cadmium(T)	5.0	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*			Chromium III	---	TVS	
		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/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

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	Temperature °C	CS-I*	varies*	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	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 <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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
MWAT=16 from 6/1 - 6/30		Boron	---	0.75	Lead(T)	50	---
MWAT=CS-I from 7/1 - 9/30		Chloride	---	250	Manganese	TVS	TVS/WS
MWAT=12 from 10/1 - 10/15		Chlorine	0.019	0.011	Mercury(T)	---	0.01
MWAT=11 from 10/16 - 10/31		Cyanide	0.005	---	Molybdenum(T)	---	150
MWAT=CS-I from 11/1 - 5/31		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

  

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		<b>acute</b>	<b>chronic</b>	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 <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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

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

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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					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

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.

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					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	---	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

## Eagle River Basin

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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	---	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

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 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		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		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 <sup>2</sup> )	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)		

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 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		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/2024		D.O. (spawning)	7.0	Cadmium(T)	5.0	---		
*chlorophyll a (mg/m <sup>2</sup> )(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	Chromium III	---	TVS		
		chlorophyll a (mg/m <sup>2</sup> )	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		

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	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	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).					Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).					Iron(T)	---
*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 ---
*Temperature = See 33.6(4) for temperature standards.		Chloride	---	250	Manganese	TVS TVS/WS
		Chlorine	0.019	0.011	Mercury(T)	---
		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

  

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	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).					Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).					Iron(T)	---
*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)	---
		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

## 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	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *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 <sup>2</sup> )	---	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)	

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	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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(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.	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 <sup>2</sup> )	---	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	

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

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	Arsenic	340	---
		Temperature °C	CS-I	CS-I	Arsenic(T)	---
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS TVS
*Uranium(acute) = See 33.5(3) for details.					<b>Inorganic (mg/L)</b>	
*Uranium(chronic) = See 33.5(3) for details.					acute	chronic
		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

  

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 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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS TVS
*Uranium(acute) = See 33.5(3) for details.					<b>Inorganic (mg/L)</b>	
*Uranium(chronic) = See 33.5(3) for details.					acute	chronic
		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

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		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 33.5(3) for details.			<b>acute</b>	<b>chronic</b>	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)

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		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies* <sup>B</sup>	Arsenic	340	---
	Recreation E		<b>acute</b>	<b>chronic</b>	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	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
<b>Other:</b>		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					Copper	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Iron	---	WS
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.			<b>acute</b>	<b>chronic</b>	Iron(T)	---	1000
*Classification: DUWS Applies only to Leonard Thomas Res and Wildcat Res		Ammonia	TVS	TVS	Lead	TVS	TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Boron	---	0.75	Lead(T)	50	---
*Uranium(acute) = See 33.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 33.5(3) for details.		Chlorine	0.019	0.011	Mercury(T)	---	0.01
*Temperature =		Cyanide	0.005	---	Molybdenum(T)	---	150
DM and MWAT=CL,CLL from 1/1-3/31		Nitrate	10	---	Nickel	TVS	TVS
Ruedi Reservoir		Nitrite	0.05	---	Nickel(T)	---	100
DM=22.4 and MWAT=20.3 from 4/1-12/31		Phosphorus	---	0.025*	Selenium	TVS	TVS
All others		Sulfate	---	WS	Silver	TVS	TVS(tr)
DM and MWAT=CL,CLL from 4/1-12/31		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

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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

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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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

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

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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					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	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

5b. Mainstem of the Michigan River from a point immediately below the confluence with the North Fork Michigan River to the confluence with the North Platte River.							
COUCNP05B	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 N		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	630	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					Copper	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).					Inorganic (mg/L)		
*Uranium(acute) = See 33.5(3) for details.					acute	chronic	
*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	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

## Yampa River Basin

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 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)	---	0.02	
Qualifiers:	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS	
	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 <sup>2</sup> )	---	150*	Chromium III(T)	50	---
	Arsenic(chronic) = hybrid	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
	Expiration Date of 12/31/ <del>2024</del> 2024	Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
	*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 33.5(4).	Ammonia	TVS	TVS	Iron(T)	---	1000
	*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).	Boron	---	0.75	Lead	TVS	TVS
	*Uranium(acute) = See 33.5(3) for details.	Chloride	---	250	Lead(T)	50	---
	*Uranium(chronic) = See 33.5(3) for details.	Chlorine	0.019	0.011	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)	
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 Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		acute	chronic	Arsenic	340	---	
Temperature °C		varies*	varies*	Arsenic(T)	---	0.02	
Qualifiers:	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS	
	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 <sup>2</sup> )	---	---	Chromium III(T)	50	---
	Arsenic(chronic) = hybrid	E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
	Expiration Date of 12/31/ <del>2024</del> 2024	Inorganic (mg/L)			Copper	TVS	TVS
	temperature(MWAT) = current conditions 7/1 - 9/30	acute	chronic	Iron	---	WS	
	temperature(MWAT) = current conditions 11/1 - 11/30	Ammonia	TVS	TVS	Iron(T)	---	1000
	Expiration Date of 12/31/2024	Boron	---	0.75	Lead	TVS	TVS
	*Uranium(acute) = See 33.5(3) for details.	Chloride	---	250	Lead(T)	50	---
	*Uranium(chronic) = See 33.5(3) for details.	Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
	*Temperature = See 33.6(4) for temperature standards.	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/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

6. Mainstem of Oak Creek, including all tributaries and wetlands, from the source to a point 0.25 mile below County Road 27 (40.279241, -106.965405).							
COUCYA06	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					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	---	0.11	Nickel(T)	---	100
		Sulfate	---	WS	Selenium	TVS	TVS
		Sulfide	---	0.002	Silver	TVS	TVS(tr)
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

7. Mainstem of Oak Creek, including all tributaries and wetlands, from a point 0.25 mile below County Road 27 (40.279241, -106.965405) to the confluence with the Yampa River.							
COUCYA07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(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

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

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		<b>Inorganic (mg/L)</b>			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)

13c. Mainstem of Trout Creek, including all tributaries and wetlands, from the headgate of Spruce Hill Ditch (40.317190, -107.005110) to the confluence with Fish Creek, except for specific listings in Segment 13b.

COUCYA13C	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 33.5(3) for details.		<b>Inorganic (mg/L)</b>			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

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		
Reviewable	Aq Life Cold 1	Temperature °C	varies*	varies*	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
Other:		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS
*Uranium(acute) = See 33.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---
*Uranium(chronic) = See 33.5(3) for details.			acute	chronic	Iron(T)	---
*Temperature =		Ammonia	TVS	TVS	Lead	TVS
See 33.6(4) for temperature standards.		Boron	---	0.75	Lead(T)	50
		Chloride	---	250	Manganese	TVS
		Chlorine	0.019	0.011	Mercury(T)	---
		Cyanide	0.005	---	Molybdenum(T)	---
		Nitrate	10	---	Nickel	TVS
		Nitrite	0.05	---	Nickel(T)	---
		Phosphorus	---	0.11	Selenium	TVS
		Sulfate	---	WS	Silver	TVS
		Sulfide	---	0.002	Uranium	varies*
					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.

## **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.

**EXHIBIT 3**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 34 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR SAN JUAN RIVER  
AND DOLORES RIVER BASINS

5 CCR 1002-34

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**34.6 TABLES**

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(2) Abbreviations:

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(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water + Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
  - (A) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
  - (B) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
  - (C) 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.

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**34.50 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020; EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modification should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**A. Temporary Modifications for Standards Other than Arsenic**

The commission extended the following temporary modifications:

La Plata Segment 7a (COSPSJ07a): The commission extended the temporary modifications for Ammonia (ac/ch) = current condition on La Plata Segment 7a until 06/30/2021. Vista Verde continues to make progress on resolving the uncertainty regarding the degree to which the ammonia loading from Vista Verde's effluent discharge is irreversible, and is working with the division to complete an alternatives analysis to resolve this uncertainty and determine how much water quality improvement is feasible. Vista Verde will participate in the small ammonia lagoons discharger specific variance (DSV) rulemaking hearing, which is anticipated to take place by December of 2020.

La Plata Segment 9 (COSPSJ09): The commission extended the temporary modifications for Ammonia (ac/ch) = current condition on La Plata Segment 9 until 06/30/2021. Lee Mobile Home Park continues to make progress on resolving the uncertainty regarding the degree to which the ammonia loading from Lee Mobile Home Park's effluent discharge is irreversible, and is working with the division to complete an alternatives analysis to resolve this uncertainty and determine how much water quality improvement is feasible. Vista Verde will participate in the small ammonia lagoons discharger specific variance (DSV) rulemaking hearing, which is anticipated to take place by December of 2020.

**B. Temporary Modifications for Arsenic**

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 34.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division's Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the "current condition" temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division's Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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

**5 CCR 1002-34**

**REGULATION NO. 34  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
SAN JUAN RIVER AND DOLORES RIVER BASINS**

**APPENDIX 34-1  
Stream Classifications and Water Quality Standards Tables**

Effective ~~06/30/2019~~06/30/2020

## REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS San Juan River Basin

2. Mainstem of the Navajo River from the Colorado/New Mexico border to the confluence with the San Juan River.							
COSJSJ02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Aluminum	---	---
		acute	chronic				
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic	340	---
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del>  *Southern Ute Indian Reservation		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	---	0.01(t)
		Phosphorus	---	0.17	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
4. All tributaries to the San Juan River, Rio Blanco, and Navajo River including all wetlands which are within the Weminuche Wilderness area and South San Juan Wilderness Area.							
COSJSJ04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Aluminum	---	---
		acute	chronic				
Qualifiers:		D.O. (mg/L)	---	6.0	Arsenic	340	---
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del>		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
				Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Juan River Basin

5. The East and West Forks of the San Juan River, including all tributaries, from the boundary of the Weminuche Wilderness Area (West Fork) and the source (East Fork) to the confluence of the mainstem of the San Juan River. All tributaries to the San Juan River from a point below the confluence with the West Fork to a point below the confluence with Fourmile Creek.

COSJSJ05	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5).					Inorganic (mg/L)		
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).					acute	chronic	
		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS(sc)

6a. Mainstem of the San Juan River from a point immediately below the confluence with the West Fork to Highway 160 in Pagosa Springs.

COSJSJ06A	Classifications	Physical and Biological		Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5).					Inorganic (mg/L)		
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).					acute	chronic	
		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	---	0.01(t)
		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	---	---
					Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.



# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS San Juan River Basin

11c. McCabe Creek from the source to the confluence with the San Juan River.								
COSJSJ11C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Aluminum	---	---
	Recreation E	Temperature °C	4/1 - 10/31	25.1*	21.6* <sup>C</sup>	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:			acute	chronic				
Other:		D.O. (mg/L)	---	5.0		Beryllium	---	---
Temporary Modification(s):		pH	6.5 - 9.0	---		Cadmium	TVS	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	150		Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024		E. Coli (per 100 mL)	---	126		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	---	0.01(t)
		Phosphorus	---	0.11		Molybdenum(T)	---	150
		Sulfate	---	WS		Nickel	TVS	TVS
		Sulfide	---	0.002		Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS
						Uranium	---	---
						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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Piedra River Basin

1. All tributaries to the Piedra River, including all wetlands, which are within the Weminuche Wilderness Area.							
COSJPI01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---	
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <span style="color: red;">2024</span> <span style="color: red;">2024</span>		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
		<b>acute</b>	<b>chronic</b>	Chromium VI	TVS	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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

  

2a. East Fork Piedra River and Middle Fork Piedra River, including all tributaries and wetlands, from the boundary of the Weminuche Wilderness Area to the confluence with the mainstem of the Piedra River, except for the specific listing in Segment 3.							
COSJPI02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---	
	Recreation E      4/1 - 10/31	<b>acute</b>	<b>chronic</b>	Arsenic	340	---	
	Recreation N      11/1 - 3/31	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)      4/1 - 10/31	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <span style="color: red;">2024</span> <span style="color: red;">2024</span>		E. Coli (per 100 mL)      11/1 - 3/31	---	630	Chromium III(T)	50	---
		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
		<b>acute</b>	<b>chronic</b>	Copper	TVS	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	---	0.01(t)
		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	---	---
					Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Piedra River Basin

4b. Mainstem of the Piedra River from the Southern Ute Indian Reservation boundary to a point above the confluence with Stollsteimer Creek.								
COSJPI04B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Aluminum	---	---
	Recreation E	Temperature °C	4/1 - 10/31	28.8*	22.8* <sup>C</sup>	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:			acute	chronic				
Other:		D.O. (mg/L)	---	6.0		Beryllium	---	---
Temporary Modification(s):		D.O. (spawning)	---	7.0		Cadmium	TVS(tr)	TVS
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	---		Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024		chlorophyll a (mg/m <sup>2</sup> )	---	---		Chromium III	---	TVS
*Southern Ute Indian Reservation		E. Coli (per 100 mL)	---	126		Chromium III(T)	50	---
*Temperature(4/1 - 10/31) = See Section 34.6(6) for assessment locations.						Chromium VI	TVS	TVS
		Inorganic (mg/L)						
			acute	chronic				
		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	---	0.01(t)
		Phosphorus	---	---		Molybdenum(T)	---	150
		Sulfate	---	WS		Nickel	TVS	TVS
		Sulfide	---	0.002		Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						Zinc	TVS	TVS

4c. Mainstem of the Piedra River from a point above the confluence with Stollsteimer Creek to Navajo Reservoir.								
COSJPI04C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Aluminum	---	---
	Recreation E	Temperature °C	4/1 - 10/31	28.8*	22.8* <sup>C</sup>	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:			acute	chronic				
Other:		D.O. (mg/L)	---	6.0		Beryllium	---	---
Temporary Modification(s):		D.O. (spawning)	---	7.0		Cadmium	TVS(tr)	TVS
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	---		Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024		chlorophyll a (mg/m <sup>2</sup> )	---	---		Chromium III	---	TVS
*Southern Ute Indian Reservation		E. Coli (per 100 mL)	---	126		Chromium III(T)	50	---
*Temperature(4/1 - 10/31) = See Section 34.6(6) for assessment locations.						Chromium VI	TVS	TVS
		Inorganic (mg/L)						
			acute	chronic				
		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	---	0.01(t)
		Phosphorus	---	---		Molybdenum(T)	---	150
		Sulfate	---	WS		Nickel	TVS	TVS
		Sulfide	---	0.002		Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Piedra River Basin

5a. All tributaries to the Piedra River, including all wetlands, from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with the First Fork of the Piedra River. Devil Creek, including all tributaries, from the source to a point below the confluence with Dunagan Canyon.

COSJPI05A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---	
	Recreation E	5/1 - 10/31	acute	chronic	Arsenic	340	---	
	Recreation N	11/1 - 4/30	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	Water Supply		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---	
Temporary Modification(s):		E. Coli (per 100 mL)	5/1 - 10/31	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	11/1 - 4/30	---	630	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		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	---	0.01(t)	
		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	---	---	
					Zinc	TVS	TVS(sc)	

5b. All tributaries to the Piedra River, from a point immediately below the confluence with the First Fork of the Piedra River to a point immediately below the confluence with Devil Creek, except for the specific listings in Segment 5a.

COSJPI05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply		D.O. (mg/L)	---	6.0	Arsenic(T)	---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		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	---	0.01(t)
		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	---	---
					Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Piedra River Basin

7. Hatcher Reservoir, Stevens Reservoir, Sullenbuger Reservoir, Village Lake and Forest Lake.									
COSJPI07	Classifications	Physical and Biological			Metals (ug/L)				
Designation			DM	MWAT	acute	chronic			
Reviewable	Agriculture								
	Aq Life Warm 1		WL	WL	Aluminum	---			
	Recreation E	2/2 - 11/30	acute	chronic	Arsenic	340			
	Recreation N	12/1 - 3/1			Arsenic(T)	---			
	Water Supply				Beryllium	---			
	DUWS*				Cadmium	TVS			
<b>Qualifiers:</b>		E. Coli (per 100 mL)	3/2 - 11/30	---	126	Cadmium(T)	5.0		
<b>Other:</b>		E. Coli (per 100 mL)	12/1 - 3/1	---	630	Chromium III	---		
Temporary Modification(s):					Chromium III(T)	50	---		
Arsenic(chronic) = hybrid					<b>Inorganic (mg/L)</b>		Chromium VI	TVS	
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>						acute	chronic	Copper	TVS
*Classification: DUWS applies to Hatcher and Stevens Reservoirs only.		Ammonia	TVS	TVS	Iron	---	WS	Iron(T)	---
		Boron	---	0.25	Lead	TVS	TVS	Lead(T)	50
		Chloride	---	250	Manganese	TVS	TVS/WS	Mercury	---
		Chlorine	0.019	0.011	Nickel	TVS	TVS	Molybdenum(T)	---
		Cyanide	0.005	---	Nickel(T)	---	100	Selenium	TVS
		Nitrate	10	---	Silver	TVS	TVS	Uranium	---
		Nitrite	---	0.5	Zinc	TVS	TVS		
		Phosphorus	---	---					
		Sulfate	---	WS					
		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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Los Pinos River Basin

1. All tributaries to the Los Pinos River, including all wetlands, which are within the Weminuche Wilderness Area.						
COSJPN01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---
	Recreation E Water Supply	acute	chronic	Arsenic	340	---
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> 2024	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Beryllium	---	---
	pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
	E. Coli (per 100 mL)	---	126	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	---	0.01(t)
	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	---	---	
			Zinc	TVS	TVS	

  

2a. Mainstem of the Los Pinos River from the boundary of the Weminuche Wilderness Area to the boundary of the Southern Ute Indian Reservation except for the specific listing in Segment 3.						
COSJPN02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---      ---
	Recreation E Water Supply	acute	chronic	Arsenic	340	---
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> 2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Beryllium	---	---
	pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
	E. Coli (per 100 mL)	---	126	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	---	0.01(t)
	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	---	---	
			Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Los Pinos River Basin

2b. Mainstem of the Los Pinos River from the boundary of the Southern Ute Indian Reservation to the Pine Ditch Diversion (37.1906, -107.58778).							
COSJPN02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium III(T)	50	---
*Southern Ute Indian Reservation		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

  

4. All tributaries to the Los Pinos River and Vallecito Reservoir, including all wetlands, from the boundary of the Weminuche Wilderness Area to a point immediately below the confluence with Bear Creek , except for the specific listing in Segment 5; mainstems of Beaver Creek, Ute Creek, and Spring Creek from their sources to the boundary of the Southern Ute Indian Reservation.							
COSJPN04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium III(T)	50	---
		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			<b>acute</b>	<b>chronic</b>	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	---	0.01(t)
		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	---	---
					Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Los Pinos River Basin

5. Mainstem of Vallecito Creek from the boundary of the Weminuche Wilderness Area to Vallecito Reservoir.							
COSJPN05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
					Chromium VI	TVS	TVS
					Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5).					Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Los Pinos River Basin

6. All tributaries to the Los Pinos River, including all wetlands, from a point immediately below the confluence with Bear Creek to the boundary of the Southern Ute Indian Reservation except for specific listings in Segment 4.

COSJPN06	Classifications	Physical and Biological			Metals (ug/L)		
			DM	MWAT		acute	chronic
Designation Reviewable	Agriculture						
	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Fish Ingestion</b>		pH	6.5 - 9.0	---	Beryllium(T)	---	100
<b>Other:</b>	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		<b>Inorganic (mg/L)</b>			Chromium III	TVS	TVS
			acute	chronic	Chromium III(T)	---	100
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	---	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

4b. Mainstem of the Animas River, including wetlands, from a point immediately above the confluence with Deer Park Creek to Bakers Bridge (37.458620, -107.799194).							
COSJAF04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	Metals (ug/L)			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	acute	chronic		
		Temperature °C	CS-I	CS-I	Aluminum(T)	TVS	TVS
		D.O. (mg/L)	---	6.0	Arsenic	340	---
		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	---	SSE*
		E. Coli (per 100 mL)	---	126	Cadmium	SSE*	---
		<b>Inorganic (mg/L)</b>			Cadmium(T)	5.0	---
			acute	chronic	Chromium III	---	TVS
		Ammonia	TVS	TVS	Chromium III(T)	50	---
		Boron	---	0.75	Chromium VI	TVS	TVS
		Chloride	---	250	Copper	TVS	TVS
		Chlorine	0.019	0.011	Iron	---	WS
		Cyanide	0.005	---	Iron(T)	---	1000
		Nitrate	10	---	Lead	TVS	TVS
		Nitrite	0.05	---	Lead(T)	50	---
		Phosphorus	---	---	Manganese	TVS	TVS/WS
		Sulfate	---	WS	Mercury	---	0.01(t)
		Sulfide	---	0.002	Molybdenum(T)	---	150
			acute	chronic	Nickel	TVS	TVS
		Ammonia	TVS	TVS	Nickel(T)	---	100
		Boron	---	0.75	Selenium	TVS	TVS
		Chloride	---	250	Silver	TVS	TVS(tr)
		Chlorine	0.019	0.011	Uranium	---	---
		Cyanide	0.005	---	Zinc	TVS	TVS
		Nitrate	10	---			
		Nitrite	0.05	---			
		Phosphorus	---	---			
		Sulfate	---	WS			
		Sulfide	---	0.002			

  

5a. Mainstem of the Animas River, including wetlands, from Bakers Bridge (37.458620, -107.799194) to the Southern Ute Indian Reservation boundary.							
COSJAF05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	Metals (ug/L)			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	acute	chronic		
		Temperature °C	CS-II	CS-II	Aluminum	TVS	TVS
		D.O. (mg/L)	---	6.0	Arsenic	340	---
		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS(tr)	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
			acute	chronic	Nickel(T)	---	100
		Ammonia	TVS	TVS	Selenium	TVS	TVS
		Boron	---	0.75	Silver	TVS	TVS(tr)
		Chloride	---	250	Uranium	---	---
		Chlorine	0.019	0.011	Zinc	TVS	TVS
		Cyanide	0.005	---			
		Nitrate	10	---			
		Nitrite	0.05	---			
		Phosphorus	---	---			
		Sulfate	---	WS			
		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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

5b. Mainstem of the Animas River, including wetlands, from the Southern Ute Indian Reservation boundary (37.214880 -107.855102) to Basin Creek.							
COSJAF05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	TVS	TVS
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
*Southern Ute Indian Reservation		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

5c. Mainstem of the Animas River, including wetlands, from Basin Creek to above the confluence with the Florida River.							
COSJAF05C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	TVS	TVS
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
*Southern Ute Indian Reservation		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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

5d. Mainstem of the Animas River, including wetlands from above the confluence with the Florida River to New Mexico state line.							
COSJAF05D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	TVS	
	Recreation E		acute	chronic	Arsenic	340	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	
*Southern Ute Indian Reservation					Chromium VI	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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.



# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

10a. Mainstem of the Florida River from the boundary of the Weminuche Wilderness Area to the inlet of Lemon Reservoir.							
COSJAF10A	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	---	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> <u>2024</u>	D.O. (spawning)	---	7.0	Beryllium	---	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS/TVS(sc)

  

10b. Mainstem of the Florida River from the outlet of Lemon Reservoir to the Florida Farmers Canal Headgate (37.295157, -107.791794).							
COSJAF10B	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	---	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).	D.O. (spawning)	---	7.0	Beryllium	---	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

11a. Mainstem of the Florida River from the Florida Farmers Canal Headgate (37.295157, -107.791794) to the Southern Ute Indian Reservation boundary (37.214724, -107.746734).							
COSJAF11A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

  

11b. Mainstem of the Florida River from the Southern Ute Indian Reservation boundary (37.214724, -107.746734) to the confluence with the Animas River.							
COSJAF11B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

11c. All tributaries to the Florida River from the Southern Ute Indian Reservation boundary to the confluence with the Animas River.						
COSJAF11C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Cold 2 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Aluminum	---      ---
		acute	chronic		Arsenic	340      ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---      ---
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0      ---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---      TVS
Arsenic(chronic) = hybrid					Chromium III(T)	50      ---
Expiration Date of 12/31/ <del>2021</del> 2024		Inorganic (mg/L)			Chromium VI	TVS      TVS
		acute	chronic		Copper	TVS      TVS
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Iron	---      WS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5).		Boron	---	0.75	Iron(T)	---      1000
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).		Chloride	---	250	Lead	TVS      TVS
		Chlorine	0.019	0.011	Lead(T)	50      ---
		Cyanide	0.005	---	Manganese	TVS      TVS/WS
		Nitrate	10	---	Mercury	---      0.01(t)
		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	---      ---
					Zinc	TVS      TVS

  

12a. All tributaries to the Animas River from a point immediately above the confluence with Elk Creek to a point immediately below the confluence with Hermosa Creek except for specific listings in Segments 12b, 12c and 15. All tributaries to the Florida River from the source to below the confluence with Mud Spring Creek, except the specific listing in Segment 1.						
COSJAF12A	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	Aluminum	---      ---
		acute	chronic		Arsenic	340      ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---      ---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0      ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---      TVS
Expiration Date of 12/31/ <del>2021</del> 2024					Chromium III(T)	50      ---
		Inorganic (mg/L)			Chromium VI	TVS      TVS
		acute	chronic		Copper	TVS      TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5).		Ammonia	TVS	TVS	Iron	---      WS
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).		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	---      0.01(t)
		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	---      ---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.



# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

13e. All tributaries to the Animas River from the Southern Ute Indian Reservation boundary to below the confluence with Basin Creek.							
COSJAF13E	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum	---	
	Recreation E		acute	chronic	Arsenic	340	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	
Arsenic(chronic) = hybrid					Chromium III(T)	50	
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	
*Southern Ute Indian Reservation		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

13f. All tributaries to the Animas River from below the confluence with Basin Creek to the Colorado/New Mexico border, except for Segments 11b and 11c.							
COSJAF13F	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum	---	
	Recreation E		acute	chronic	Arsenic	340	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	
Arsenic(chronic) = hybrid					Chromium III(T)	50	
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	
*Southern Ute Indian Reservation		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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

14a. Mainstem of Lightner Creek, including all tributaries, from the source to below the confluence with Deep Creek.							
COSJAF14A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

  

14b. Mainstem of Lightner Creek from below the confluence with Deep Creek to the confluence with the Animas River.							
COSJAF14B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Animas and Florida River Basins

22. Electra Lake. Lake Nighthorse.							
COSJAF22	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
Reviewable	Aq Life Cold 1	Temperature °C	CLL	CLL	Aluminum	acute	chronic
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2021</del> <u>2024</u>  *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.		chlorophyll a (ug/L)	---	8*	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
		Inorganic (mg/L)			Chromium III(T)	50	---
		Ammonia	acute	chronic	Chromium VI	TVS	TVS
		Boron	TVS	TVS	Copper	TVS	TVS
		Chloride	---	0.75	Iron	---	WS
		Chlorine	---	250	Iron(T)	---	1000
		Cyanide	0.019	0.011	Lead	TVS	TVS
		Nitrate	0.005	---	Lead(T)	50	---
		Nitrite	10	---	Manganese	TVS	TVS/WS
		Phosphorus	0.05	---	Mercury	---	0.01(t)
		Sulfate	---	0.025*	Molybdenum(T)	---	150
		Sulfide	---	WS	Nickel	TVS	TVS
			---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

1. Mainstem of the La Plata River, including all wetlands and tributaries from the source to the Hay Gulch diversion south of Hesperus.								
COSJLP01	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---	
	Recreation E	acute	chronic	Arsenic	340	---		
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium III	---	TVS	
Expiration Date of 12/31/ <del>2024</del> 2024		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	---	0.01(t)	
		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	---	---	
					Zinc	TVS	TVS(sc)	
2b. Mainstem of the La Plata River from the boundary of the Southern Ute Indian Reservation to above the confluence with Cherry Creek.								
COSJLP02B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute		chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---	
	Recreation E	acute	chronic	Arsenic	340	---		
	Recreation P	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02	
	Water Supply	pH	6.5 - 9.0	---	Beryllium	---	---	
Qualifiers:		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS	TVS	
Other:		E. Coli (per 100 mL)	5/1 - 10/31	---	126	Cadmium(T)	5.0	---
Temporary Modification(s):		E. Coli (per 100 mL)	11/1 - 4/30	---	205	Chromium III	---	TVS
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium III(T)	50	---	
Expiration Date of 12/31/ <del>2024</del> 2024		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	---	0.01(t)	
		Phosphorus	---	0.17	Molybdenum(T)	---	150	
		Sulfate	---	WS	Nickel	TVS	TVS	
		Sulfide	---	0.002	Nickel(T)	---	100	
					Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	---	---	
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

2c. Mainstem of the La Plata River from the confluence with Cherry Creek to above the confluence with Long Hollow.						
COSJLP02C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Chromium VI	TVS
		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	0.05	---	Manganese	TVS
		Phosphorus	---	0.17	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

2d. Mainstem of the La Plata River from Long Hollow to the Colorado/New Mexico border.						
COSJLP02D	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50
*Southern Ute Indian Reservation		Ammonia	TVS	TVS	Chromium VI	TVS
		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	0.05	---	Manganese	TVS
		Phosphorus	---	0.17	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

3d. East Cherry Creek from the source to the confluence with Cherry Creek.						
COSJLP03D	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute      chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---
	Recreation E		acute	chronic	Arsenic	340      ---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0      ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---
Expiration Date of 12/31/ <del>2024</del> 2024					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	---
		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	---
					Zinc	TVS      TVS(sc)
4a. Mainstem of the Mancos River, including all wetlands and tributaries, from the source of the East, West and Middle Forks to the San Juan National Forest Boundary.						
COSJLP04A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute      chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---
	Recreation E      5/1 - 10/31		acute	chronic	Arsenic	340      ---
	Recreation N      11/1 - 4/30	D.O. (mg/L)	---	6.0	Arsenic(T)	---
	Water Supply	D.O. (spawning)	---	7.0	Beryllium	---
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0      ---
Temporary Modification(s):		E. Coli (per 100 mL)      5/1 - 10/31	---	126	Chromium III	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)      11/1 - 4/30	---	630	Chromium III(T)	50      ---
Expiration Date of 12/31/ <del>2024</del> 2024					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	---
		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	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

5. Mainstem of the Mancos River from Hwy 160 to the boundary of the Ute Mountain Indian Reservation and mainstem of Weber Canyon from source to boundary of the Ute Mountain Ute Indian Reservation.								
COSJLP05	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT			
Reviewable	Aq Life Warm 1	Temperature °C		WS-II	WS-II	acute	chronic	
	Recreation E 5/1 - 10/31			acute	chronic			
	Recreation N 11/1 - 4/30	D.O. (mg/L)		---	5.0	Arsenic	340	
	Water Supply	pH		6.5 - 9.0	---	Arsenic(T)	---	
Qualifiers:		chlorophyll a (mg/m <sup>2</sup> )		---	150*	Beryllium	---	
Other:		E. Coli (per 100 mL) 5/1 - 10/31		---	126	Cadmium	TVS	
Temporary Modification(s):		E. Coli (per 100 mL) 11/1 - 4/30		---	630	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid							Chromium III	---
Expiration Date of 12/31/2024							Chromium III(T)	50
		Inorganic (mg/L)						
				acute	chronic	Chromium VI	TVS	
		Ammonia	TVS	TVS		Copper	TVS	
		Boron	---	0.75		Iron	---	
		Chloride	---	250		Iron(T)	---	
		Chlorine	0.019	0.011		Lead	TVS	
		Cyanide	0.005	---		Lead(T)	50	
		Nitrate	10	---		Manganese	TVS	
		Nitrite	0.05	---		Mercury	---	
		Phosphorus	---	0.17*		Molybdenum(T)	---	
		Sulfate	---	WS		Nickel	TVS	
		Sulfide	---	0.002		Nickel(T)	---	
							Selenium	TVS
							Silver	TVS
							Uranium	---
							Zinc	TVS

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 34.5(5).  
\*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).

7a. Mainstem of McElmo Creek from the source to the confluence with Alkali Canyon. Mainstem of Yellow Jacket Creek, including all tributaries and wetlands, from the source to the confluence with McElmo Creek.

COSJLP07A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture			DM	MWAT			
Reviewable	Aq Life Warm 1	Temperature °C		WS-II	WS-II	acute	chronic	
	Recreation E			acute	chronic			
Qualifiers:		D.O. (mg/L)		---	5.0	Arsenic	340	
Other:		pH		6.5 - 9.0	---	Arsenic(T)	---	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )		---	150*	Beryllium	---	
Ammonia(ac/ch) = current conditions		E. Coli (per 100 mL)		---	126	Cadmium	TVS	
Expiration Date of 6/30/2020							Chromium III	TVS
		Inorganic (mg/L)						
				acute	chronic	Chromium III(T)	---	
		Ammonia	TVS	TVS		Chromium VI	TVS	
		Boron	---	0.75		Copper	TVS	
		Chloride	---	---		Iron(T)	---	
		Chlorine	0.019	0.011		Lead	TVS	
		Cyanide	0.005	---		Lead	TVS	
		Nitrate	100	---		Manganese	TVS	
		Nitrite	0.05	---		Mercury	---	
		Phosphorus	---	0.17*		Molybdenum(T)	---	
		Sulfate	---	---		Nickel	TVS	
		Sulfide	---	0.002		Nickel	TVS	
							Selenium	TVS
							Silver	TVS
							Uranium	---
							Zinc	TVS

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 34.5(5).  
\*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).  
\*TempMod: Ammonia = Adopted 08/14/2006

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr=trout  
sc=sculpin

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## La Plata River, Mancos River, McElmo Creek and San Juan River in Montezuma County and Dolores County

9. Unnamed tributary to Ritter Draw (confluence at 37.4059, -108.5325).						
COSJLP09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-III WS-III	---	---	
		acute	chronic	Arsenic	340 ---	
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Other:</b>		pH	6.5 - 9.0	---	Beryllium	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS TVS
Ammonia(ac/ch) = current conditions		E. Coli (per 100 mL)	---	126	Chromium III	TVS TVS
Expiration Date of 6/30/20202021		<b>Inorganic (mg/L)</b>			Chromium III(T)	---
		acute	chronic	Chromium VI	TVS TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5).		Ammonia	TVS	TVS	Copper	TVS TVS
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).		Boron	---	0.75	Iron(T)	---
*TempMod: Ammonia = Adopted 08/14/2006		Chloride	---	250	Lead	TVS TVS
		Chlorine	0.019	0.011	Manganese	TVS TVS
		Cyanide	0.005	---	Mercury	---
		Nitrate	100	---	Molybdenum(T)	---
		Nitrite	0.05	---	Nickel	TVS TVS
		Phosphorus	---	0.17*	Selenium	TVS TVS
		Sulfate	---	250	Silver	TVS TVS
		Sulfide	---	0.002	Uranium	---
					Zinc	TVS TVS

  

12. All lakes and reservoirs tributary to the La Plata River from the source to the Hay Gulch diversion south of Hesperus.						
COSJLP12	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CL CL	---	---	
		acute	chronic	Arsenic	340 ---	
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Arsenic(T)	---
<b>Other:</b>		D.O. (spawning)	---	7.0	Beryllium	---
Temporary Modification(s):		pH	6.5 - 9.0	---	Cadmium	TVS(tr) TVS
Arsenic(chronic) = hybrid		chlorophyll a (ug/L)	---	8*	Cadmium(T)	5.0 ---
Expiration Date of 12/31/20242024		E. Coli (per 100 mL)	---	126	Chromium III	---
		<b>Inorganic (mg/L)</b>			Chromium III(T)	50 ---
		acute	chronic	Chromium VI	TVS TVS	
*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS	Copper	TVS TVS
*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS TVS
		Cyanide	0.005	---	Lead(T)	50 ---
		Nitrate	10	---	Manganese	TVS TVS/WS
		Nitrite	0.05	---	Mercury	---
		Phosphorus	---	0.025*	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS TVS
					Silver	TVS TVS(tr)
					Uranium	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Dolores River Basin

1. All tributaries to the Dolores River and West Dolores River, including all wetlands, tributaries, which are within the Lizard Head Wilderness area.						
COSJDO01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
OW	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Aluminum	---      ---
		acute	chronic			
		D.O. (mg/L)	---	6.0	Arsenic	340      ---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Arsenic(T)	---      0.02
<b>Other:</b>		pH	6.5 - 9.0	---	Beryllium	---      ---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)      TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---
		Inorganic (mg/L)			Chromium III	---      TVS
		acute	chronic			
		Ammonia	TVS	TVS	Chromium III(T)	50      ---
		Boron	---	0.75	Chromium VI	TVS      TVS
		Chloride	---	250	Copper	TVS      TVS
		Chlorine	0.019	0.011	Iron	---      WS
		Cyanide	0.005	---	Iron(T)	---      1000
		Nitrate	10	---	Lead	TVS      TVS
		Nitrite	0.05	---	Lead(T)	50      ---
		Phosphorus	---	0.11	Manganese	TVS      TVS/WS
		Sulfate	---	WS	Mercury	---      0.01(t)
		Sulfide	---	0.002	Molybdenum(T)	---      150
					Nickel	TVS      TVS
					Nickel(T)	---      100
					Selenium	TVS      TVS
					Silver	TVS      TVS(tr)
					Uranium	---      ---
					Zinc	TVS      TVS(sc)
2. Mainstem of the Dolores River from the source to a point immediately above the confluence with Horse Creek.						
COSJDO02	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	Aluminum	---      ---
		acute	chronic			
		D.O. (mg/L)	---	6.0	Arsenic	340      ---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Arsenic(T)	---      0.02
<b>Other:</b>		pH	6.5 - 9.0	---	Beryllium	---      ---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)      TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---
		Inorganic (mg/L)			Chromium III	---      TVS
		acute	chronic			
		Ammonia	TVS	TVS	Chromium III(T)	50      ---
		Boron	---	0.75	Chromium VI	TVS      TVS
		Chloride	---	250	Copper	TVS      TVS
		Chlorine	0.019	0.011	Iron	---      WS
		Cyanide	0.005	---	Iron(T)	---      1000
		Nitrate	10	---	Lead	TVS      TVS
		Nitrite	0.05	---	Lead(T)	50      ---
		Phosphorus	---	0.11	Manganese	TVS      TVS/WS
		Sulfate	---	WS	Mercury	---      0.01(t)
		Sulfide	---	0.002	Molybdenum(T)	---      150
					Nickel	TVS      TVS
					Nickel(T)	---      100
					Selenium	TVS      TVS
					Silver	TVS      TVS(tr)
					Uranium	---      ---
					Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Dolores River Basin

3. Mainstem of the Dolores River from a point immediately above the confluence with Horse Creek to a point immediately above the confluence with Bear Creek.							
COSJDO03	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	Aluminum	---      ---	
		acute	chronic				
		D.O. (mg/L)	---	6.0	Arsenic	340      ---	
		D.O. (spawning)	---	7.0	Arsenic(T)	---      0.02	
Qualifiers:		pH	6.5 - 9.0	---	Beryllium	---      ---	
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS      TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> 2024		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---	
		Inorganic (mg/L)					
		acute	chronic				
		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/255
		Nitrite	0.05	---	Mercury	---	0.01(t)
		Phosphorus	---	0.11	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

  

4a. Mainstem of the Dolores River from a point immediately above the confluence with Bear Creek to the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line).							
COSJDO04A	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	Aluminum	---      ---	
		acute	chronic				
		D.O. (mg/L)	---	6.0	Arsenic	340      ---	
Qualifiers:		D.O. (spawning)	---	7.0	Arsenic(T)	---      0.02	
Other:		pH	6.5 - 9.0	---	Beryllium	---      ---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> 2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 34.5(5). *Phosphorus(chronic) = applies only above the facilities listed at 34.5(5).		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS(tr)      TVS	
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---	
		Inorganic (mg/L)					
		acute	chronic				
		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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Dolores River Basin

4b. McPhee Reservoir and Summit Reservoir.								
COSJDO04B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	1/1 - 4/30	CLL	CLL	Aluminum	---	---
	Recreation E	Temperature °C	4/1 - 12/31	CLL*	varies* <sup>B</sup>	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
	DUWS*					Beryllium	---	---
Qualifiers:			acute	chronic				
		D.O. (mg/L)	---	6.0		Cadmium	TVS(tr)	TVS
Other:								
		D.O. (spawning)	---	7.0		Cadmium(T)	5.0	---
Temporary Modification(s):		pH	6.5 - 9.0	---		Chromium III	---	TVS
Arsenic(chronic) = hybrid		chlorophyll a (ug/L)	---	8*		Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2021</del> 2024		E. Coli (per 100 mL)	---	126		Chromium VI	TVS	TVS
						Copper	TVS	TVS
		Inorganic (mg/L)						
			acute	chronic				
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 34.5(5), applies only to lakes and reservoirs larger than 25 acres surface area.		Ammonia	TVS	TVS		Iron	---	WS
*Classification: DUWS applies to McPhee Reservoir only.		Boron	---	0.75		Iron(T)	---	1000
*Phosphorus(chronic) = applies only above the facilities listed at 34.5(5), applies only to lakes and reservoirs larger than 25 acres surface area.		Chloride	---	250		Lead	TVS	TVS
*Temperature(4/1 - 12/31) = Summit Reservoir MWAT = 21.0		Chlorine	0.019	0.011		Lead(T)	50	---
McPhee Reservoir MWAT = 21.1		Cyanide	0.005	---		Manganese	TVS	TVS/WS
		Nitrate	10	---		Mercury	---	0.01(t)
		Nitrite	0.05	---		Molybdenum(T)	---	150
		Phosphorus	---	0.025*		Nickel	TVS	TVS
		Sulfate	---	WS		Nickel(T)	---	100
		Sulfide	---	0.002		Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						Zinc	TVS	TVS

  

5a. All tributaries to the Dolores River and West Dolores River, including all wetlands, from the source to a point immediately below the confluence with the West Dolores River except for specific listings in Segments 1 and 5b through 10.								
COSJDO05A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I		Aluminum	---	---
	Recreation E		acute	chronic		Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0		Arsenic(T)	---	0.02
Qualifiers:								
		D.O. (spawning)	---	7.0		Beryllium	---	---
Other:								
Temporary Modification(s):		pH	6.5 - 9.0	---		Cadmium	TVS(tr)	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	150		Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2021</del> 2024		E. Coli (per 100 mL)	---	126		Chromium III	---	TVS
						Chromium III(T)	50	---
		Inorganic (mg/L)						
			acute	chronic				
*Zinc(chronic) = Chronic zinc sculpin standard applies to Silver Creek and Fish Creek.		Ammonia	TVS	TVS		Chromium VI	TVS	TVS
		Boron	---	0.75		Copper	TVS	TVS
		Chloride	---	250		Iron	---	WS
		Chlorine	0.019	0.011		Iron(T)	---	1000
		Cyanide	0.005	---		Lead	TVS	TVS
		Nitrate	10	---		Lead(T)	50	---
		Nitrite	0.05	---		Manganese	TVS	TVS/WS
		Phosphorus	---	0.11		Mercury	---	0.01(t)
		Sulfate	---	WS		Molybdenum(T)	---	150
		Sulfide	---	0.002		Nickel	TVS	TVS
						Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						Zinc	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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #34 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Dolores River Basin

5b. Mainstem of Rio Lado from the source to the confluence with the Dolores River. Mainstem of Spring Creek from the source to the confluence with Stoner Creek. Mainstem of Little Taylor Creek from the source to the confluence with Taylor Creek.

COSJDO05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS(sc)

8. Mainstem of Horse Creek from the source to the confluence with the Dolores River.

COSJDO08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	---	---
					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 34.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.



## **STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS – FOOTNOTES**

- (A) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. Control requirements, such as discharge permit effluent limitations, shall be established using the first number in the range as the ambient water quality target, provided that no effluent limitation shall require an "end-of-pipe" discharge level more restrictive than the second number in the range. Water bodies will be considered in attainment of this standard, and not included on the Section 303(d) List, so long as the existing ambient quality does not exceed the second number in the range.
- (B) Assessment of adequate refuge shall rely on the Cold Large Lake table value temperature criterion and applicable dissolved oxygen standard rather than the site-specific temperature standard.
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.

TABLE 1

ANIMAS RIVER BASIN  
 AQUATIC LIFE INDICATOR GOAL: BROOK TROUT

Segment 3a  
 Acute Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

Chronic Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Mn	TVS	TVS	2571	2179	TVS	TVS	TVS	TVS	TVS	TVS	TVS	TVS
Zn	720	780	1060	1200	760	410	280	340	380	440	510	590

Segment 4a

Acute Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Al(Trec)	3100	3550	2800	2020	1010	740	700	1360	1490	1610	2280	2570
Zn	460	520	620	570	430	250	170	240	290	340	380	420

Chronic Standards

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
pH	5.9-9.0	5.7-9.0	6.2-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0	5.9-9.0
Al(Trec)	3100	3550	2800	2020	1010	740	700	1360	1490	1610	2280	2570
Fe	3473	2961	3776	3404	2015	1220	1286	1830	1623	2258	2631	3511
Zn	460	520	620	570	430	250	170	240	290	340	380	420



**EXHIBIT 4**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 35 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR GUNNISON AND LOWER DOLORES RIVER BASINS

5 CCR 1002-35

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**35.6 TABLES**

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(2) Abbreviations:

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- (c) Temporary Modification for Water + Fish Chronic Arsenic Standard
  - (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water + Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
  - (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
  - (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
    - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
    - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
    - (c) 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.

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**35.47 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020; EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modifications should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**A. Temporary Modifications for Standards Other than Arsenic**

The commission took no action on the following temporary modification:

Upper Gunnison Segment 21: temporary modification of the chronic uranium standard (expires 12/31/2022). As requested by the commission at 35.45(N), Homestake Mining Company provided an update on its work to resolve the uncertainty in the chronic uranium standard. Homestake continues to make progress on resolving the uncertainty underlying the temporary modification and determining the lowest practical level of uranium that can be achieved. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

**B. Temporary Modifications for Arsenic**

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 35.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division's Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado

waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the “current condition” temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division’s Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**

**WATER QUALITY CONTROL COMMISSION**

**5 CCR 1002-35**

**REGULATION NO. 35**

**CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
GUNNISON AND LOWER DOLORES RIVER BASINS**

**APPENDIX 35-1**

**Stream Classifications and Water Quality Standards Tables**

Effective ~~06/30/2020~~06/30/2019

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

1. All tributaries to the Gunnison River, including and wetlands, within the La Garita, Powderhorn, West Elk, Collegiate Peaks, Maroon Bells, Raggeds, Fossil Ridge, or Uncompahgre Wilderness Areas.

COGUUG01	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
OW	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
Water Supply		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid					Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		Nitrite	0.02	---	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	---	---
					Zinc	TVS	TVS

2. All tributaries and wetlands from Beaver Creek to Meyers Gulch, from the West Elk Wilderness boundary to their confluences with Blue Mesa Reservoir, Morrow Point Reservoir, or the Gunnison River, excluding Steuben Creek, Willow Creek, and Soap Creek and their tributaries.

COGUUG02	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
OW	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
Water Supply		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid					Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		Nitrite	0.02	---	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	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

4. Mainstem of the Taylor River, including all tributaries and wetlands, from the source to the confluence with the Gunnison River, except for specific listings in Segment 1.							
COGUUG04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1	CS-I	CS-I	Aluminum	---	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	
		Boron	---	0.75	Iron	---	
		Chloride	---	250	Iron(T)	---	
		Chlorine	0.019	0.011	Lead	TVS	
		Cyanide	0.005	---	Lead(T)	50	
		Nitrate	10	---	Manganese	TVS	
		Nitrite	0.05	---	Mercury	---	
		Phosphorus	---	0.11	Molybdenum(T)	---	
		Sulfate	---	WS	Nickel	TVS	
		Sulfide	---	0.002	Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	
5a. Mainstem of the East River, including all tributaries and wetlands, from its source to a point immediately above the confluence with the Slate River, except for specific listings in Segment 1.							
COGUUG05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1	CS-I	CS-I	Aluminum	---	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	
		Boron	---	0.75	Iron	---	
		Chloride	---	250	Iron(T)	---	
		Chlorine	0.019	0.011	Lead	TVS	
		Cyanide	0.005	---	Lead(T)	50	
		Nitrate	10	---	Manganese	TVS	
		Nitrite	0.05	---	Mercury	---	
		Phosphorus	---	0.11*	Molybdenum(T)	---	
		Sulfate	---	WS	Nickel	TVS	
		Sulfide	---	0.002	Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

5b. Mainstem of the East River from a point immediately above the Slate River to the confluence with the Gunnison River.						
COGUUG05B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---
Expiration Date of 12/31/2024		Inorganic (mg/L)			Chromium III(T)	50
			acute	chronic	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	0.05	---	Mercury	---
		Phosphorus	---	---	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

  

6b. Cement Creek and all its tributaries and wetlands from the source to a point immediately above the confluence with Horse Basin Creek.						
COGUUG06B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---
Expiration Date of 12/31/2024		Inorganic (mg/L)			Chromium III(T)	50
			acute	chronic	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	0.05	---	Mercury	---
		Phosphorus	---	0.11	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

8. Mainstem of the Slate River from a point immediately above the confluence with Coal Creek to the confluence with the East River.							
COGUUG08	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* <sup>C</sup>	Aluminum	---	---
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> 2024  *Temperature = summer criteria apply from 6/1-10/15	D.O. (spawning)	---	7.0	Beryllium	---	---
pH		6.5 - 9.0	---		Cadmium	TVS(tr)	TVS
chlorophyll a (mg/m <sup>2</sup> )		---	---		Cadmium(T)	5.0	---
E. Coli (per 100 mL)		---	126		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	---	0.01(t)
Phosphorus		---	---		Molybdenum(T)	---	150
Sulfate		---	WS		Nickel	TVS	TVS
Sulfide	---	0.002		Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				Zinc	TVS	TVS	

9. All tributaries and wetlands to the Slate River except for specific listings in Segments 1, 10a, 10b, 11, 12 and 13.							
COGUUG09	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	Aluminum	---	---
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> 2024	D.O. (spawning)	---	7.0	Beryllium	---	---
pH		6.5 - 9.0	---		Cadmium	TVS(tr)	TVS
chlorophyll a (mg/m <sup>2</sup> )		---	150		Cadmium(T)	5.0	---
E. Coli (per 100 mL)		---	126		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	---	0.01(t)
Phosphorus		---	0.11		Molybdenum(T)	---	210
Sulfate		---	WS		Nickel	TVS	TVS
Sulfide	---	0.002		Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

12. Mainstem of Coal Creek, including all tributaries and wetlands from a point immediately above the Keystone Mine discharge (38.867117, -107.023627) to the confluence with the Slate River, with the exception of Wildcat Creek.							
COGUUG12	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	Aluminum	---	---
Qualifiers:		D.O. (mg/L)	acute	chronic	Arsenic	340	---
Other:		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024 Cadmium(ac/ch) = 3.5/2.79*      4/1 - 6/30 Copper(ac/ch) = current condition*      4/1 - 6/30 Zinc(chronic) = 576*      4/1 - 6/30 Expiration Date of 12/31/2022  *Cadmium(acute) = $e^{(0.9789 \cdot \ln(\text{hardness}) - 3.866)} \cdot (1.136672 - (\ln(\text{hardness}) \cdot 0.041838))$ *Cadmium(chronic) = $e^{(0.7977 \cdot \ln(\text{hardness}) - 3.909)} \cdot (1.101672 - (\ln(\text{hardness}) \cdot 0.041838))$ *TempMod: Cadmium(4/1 - 6/30) = Coal Creek *TempMod: Copper(4/1 - 6/30) = Coal Creek *TempMod: Zinc(4/1 - 6/30) = Coal Creek		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	SSE*	---
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/191
		Phosphorus	---	0.11	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

13. Mainstem of Woods Creek from the source to the confluence with Washington Gulch.						
COGUUG13	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT		
Reviewable					acute	chronic
	Agriculture					
	Aq Life Cold 2	Temperature °C	CS-I	CS-I	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---
Arsenic(chronic) = hybrid					Chromium III(T)	50
Expiration Date of 12/31/ <del>2021</del> 2024					Chromium VI	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4).					Chromium(T)	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

14. Mainstem of the Gunnison River from its inception at the confluence of the East and Taylor rivers to the inlet of Blue Mesa Reservoir.						
COGUUG14	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	Aluminum	acute	chronic
	Temperature °C	CS-II	CS-II	---	---	---
	D.O. (mg/L)	---	6.0	Arsenic	340	---
	D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>	pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):	E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid				Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>				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	---	0.01(t)
	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	---	---
				Zinc	TVS	TVS

  

15b. South Beaver Creek, including all tributaries and wetlands, from the source to the Saguache/Gunnison County line.						
COGUUG15B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 1 Recreation U Water Supply	acute	chronic	Aluminum	acute	chronic
	Temperature °C	CS-I	CS-I	---	---	---
	D.O. (mg/L)	---	6.0	Arsenic	340	---
	D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>	pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS	TVS
Temporary Modification(s):	E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid				Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>				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	---	0.01(t)
	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
				Uranium	---	---
				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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

18a. Mainstem of Tomichi Creek and its wetlands from the source to the confluence with Porphyry Creek.								
COGUUG18A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---	
	Recreation U		acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Expiration Date of 12/31/ <u>2024</u>					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	---	0.01(t)	
		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	---	---	
					Zinc	TVS	TVS	
18b. Mainstem of Tomichi Creek and its wetlands from the confluence with Porphyry Creek to the confluence with the Gunnison River.								
COGUUG18B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/31	CS-II	CS-II	Aluminum	---	---
	Recreation U	Temperature °C	4/1 - 10/31	CS-II*	18.9* <sup>C</sup>	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:			acute	chronic	Beryllium	---	---	
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/ <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	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	---	0.01(t)	
		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	---	---	
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

19. All tributaries to Tomichi Creek, including wetlands, which are within the boundaries of the Gunnison National Forest, except for specific listings in Segments 20 through 24. Mainstems of Barret, Razor, and Quartz Creeks from their sources to their confluences with Tomichi Creek. Hot Springs Creek from its source to the inlet of Hot Springs Reservoir.

COGUUG19	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation U		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

21. Mainstem of Marshall Creek, including all tributaries and wetlands, from the source to the confluence with Tomichi Creek, except for specific listings in Segment 20.							
COGUUG21	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>	Agriculture		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation U		<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
Uranium(chronic) = current condition*					Chromium VI	TVS	TVS
Expiration Date of 12/31/2022					Copper	TVS	TVS
*TempMod: Uranium = Mainstem of Marshall Creek from the confluence with Indian Creek to the confluence with Tomichi Creek			<b>acute</b>	<b>chronic</b>	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	---	0.01(t)
		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	---	---
					Uranium(T)	---	16.8-30 <sup>A</sup>
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

22. Mainstem of Gold Creek from Browns Gulch to the confluence with Quartz Creek.						
COGUUG22	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	Aluminum	--- ---
		acute	chronic	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---
		D.O. (spawning)	---	7.0	Beryllium	---
Qualifiers:						
Other:						
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>	pH	6.5 - 9.0	---	---	Cadmium	TVS(tr) TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0 ---
		E. Coli (per 100 mL)	---	126	Chromium III	---
		Inorganic (mg/L)			Chromium III(T)	50 ---
		acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS TVS
		Cyanide	0.005	---	Lead(T)	50 ---
		Nitrate	10	---	Manganese	TVS TVS/WS
		Nitrite	0.05	---	Mercury	---
		Phosphorus	---	0.11	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS TVS
					Silver	TVS TVS(tr)
					Uranium	---
					Zinc	TVS TVS
26. All tributaries, including wetlands, which are tributary to the Gunnison River from County Road 32 to the inlet of Blue Mesa Reservoir, Blue Mesa Reservoir, Morrow Point Reservoir, Crystal Reservoir, or the segments of the Gunnison River that interconnect those reservoirs, except for specific listings in Segments 1, 2, 29a, 29b, 30, 31, and 32.						
COGUUG26	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Cold 1 Recreation U Water Supply	Temperature °C	CS-I	CS-I	Aluminum	--- ---
		acute	chronic	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---
		D.O. (spawning)	---	7.0	Beryllium	---
Qualifiers:						
Other:						
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).	pH	6.5 - 9.0	---	---	Cadmium	TVS(tr) TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0 ---
		E. Coli (per 100 mL)	---	126	Chromium III	---
		Inorganic (mg/L)			Chromium III(T)	50 ---
		acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS TVS
		Cyanide	0.005	---	Lead(T)	50 ---
		Nitrate	10	---	Manganese	TVS TVS/WS
		Nitrite	0.05	---	Mercury	---
		Phosphorus	---	0.11*	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS TVS
					Silver	TVS TVS(tr)
					Uranium	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

29a. Mainstem of the Lake Fork of the Gunnison including all tributaries and wetlands, from the source to a point immediately above the confluence with Eaton Creek. Cebolla Creek, including all tributaries and wetlands, from the source to the Hinsdale/Gunnison County line. Powderhorn Creek, including all tributaries and wetlands, from the source to the confluence with Cebolla Creek. This segment excludes the specific listings in Segments 1, 29b, 30, 31, and 32.

COGUUG29A Classifications		Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	---	SSE*
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	SSE*	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Cadmium(acute) = e <sup>^(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e <sup>^(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838))			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11*	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
			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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper Gunnison River Basin

30. Mainstem of Henson Creek, including all tributaries and wetlands, from the source to the confluence with the Lake Fork of the Gunnison, except for the specific listings in Segments 31 and 32.							
COGUUG30	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute      chronic			
Reviewable		acute	chronic	Aluminum	---	---	
		Temperature °C	CS-I	CS-I	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---
Other:		pH	6.5 - 9.0	---	Cadmium	---	SSE*
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	SSE*	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Expiration Date of 12/31/20242024					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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

\*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))

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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper Gunnison River Basin

38. Lake San Cristobal, Taylor Park Reservoir, Blue Mesa Reservoir, Morrow Point Reservoir, Crystal Reservoir, and Silver Jack Reservoir.								
COGUUG38	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT				
Reviewable	Aq Life Cold 1	Temperature °C	1/1 - 3/31	CLL	CLL	Aluminum	---	---
	Recreation E	Temperature °C	4/1 - 12/31	varies*	varies*	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:			acute	chronic		Beryllium	---	---
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/ <del>2024</del> 2024		chlorophyll a (ug/L)	---	8*		Chromium III(T)	50	---
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 35.5(4), 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 above the facilities listed at 35.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		<b>Inorganic (mg/L)</b>				Copper	TVS	TVS
*Temperature(4/1 - 12/31) = Lake San Cristobal, Taylor Park Reservoir, and Blue Mesa Reservoir MWAT=16.6			acute	chronic		Iron	---	WS
All others MWAT=CLL		Ammonia	TVS	TVS		Iron(T)	---	1000
Lake San Cristobal, Taylor Park Reservoir, and Blue Mesa Reservoir DM=24.2		Boron	---	0.75		Lead	TVS	TVS
All others DM=CLL		Chloride	---	250		Lead(T)	50	---
		Chlorine	0.019	0.011		Manganese	TVS	TVS/WS
		Cyanide	0.005	---		Mercury	---	0.01(t)
		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	---	---
						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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.



# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## North Fork of the Gunnison River Basin

3. Mainstem of North Fork of the Gunnison River from the Black Bridge (41.75 Drive) above Paonia to the confluence with the Gunnison River.									
COGUNF03	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic				
Reviewable	Aq Life Cold 1	Temperature °C	11/16 - 3/15	CS-II	CS-II	Aluminum	---	---	
	Recreation E	4/1 - 9/30	Temperature °C	3/16 - 11/15	26.5*	21.9* <sup>C</sup>	Arsenic	340	---
	Recreation P	10/1 - 3/31					Arsenic(T)	---	0.02
	Water Supply						Beryllium	---	---
Qualifiers:		acute	chronic	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---	---	
Temporary Modification(s):		pH	6.5 - 9.0	---	Chromium III	---	TVS	---	
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	50	---	---	
Expiration Date of 12/31/ <del>2024</del> 2024		E. Coli (per 100 mL)	4/1 - 9/30	---	126	Chromium VI	TVS	TVS	
*Temperature(3/16 - 11/15) = See temperature assessment location at 35.6(6)		E. Coli (per 100 mL)	10/1 - 3/31	---	205	Copper	TVS	TVS	
		Inorganic (mg/L)				Iron	---	WS	
		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	---	0.01(t)
				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	---	---
							Zinc	TVS	TVS

  

4a. Tributaries and wetlands to Muddy Creek within national forest boundaries. Anthracite Creek, including all tributaries and wetlands, from the source to the confluence with Muddy Creek. All tributaries to the North Fork of the Gunnison from its inception at the confluence of Muddy Creek and Anthracite Creek to the confluence with the Gunnison River within national forest boundaries. This segment excludes the specific listings in Segments 1 and 4c.									
COGUNF04A	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute	chronic				
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---		
	Recreation E				Arsenic	340	---		
	Water Supply				Arsenic(T)	---	0.02		
Qualifiers:		D.O. (mg/L)	---	6.0	Beryllium	---	---		
Other:		D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS		
Temporary Modification(s):		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---		
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---	TVS		
Expiration Date of 12/31/ <del>2024</del> 2024		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---		
		Inorganic (mg/L)				Chromium VI	TVS	TVS	
		acute	chronic	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	---	0.01(t)
				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	---	---
							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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## North Fork of the Gunnison River Basin

5a. Mainstems of Hubbard Creek, Terror Creek, and Minnesota Creek, from the national forest boundary to their confluences with the North Fork of the Gunnison River; mainstem of Jay Creek from its source to its confluence with the North Fork of the Gunnison River.

COGUNF05A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation P Water Supply	CS-I	CS-I				
Qualifiers:		acute	chronic				
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>						
		Temperature °C		Aluminum	---	---	
		D.O. (mg/L)	---	6.0	Arsenic	340	---
		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)	TVS
		E. Coli (per 100 mL)	---	205	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	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					Zinc	TVS	TVS/TVS(sc)

5b. Mainstem of Roatcap Creek, including all tributaries and wetlands, from the source to the confluence with the North Fork of the Gunnison. Leroux Creek from the national forest boundary to its confluence with the North Fork of the Gunnison River.

COGUNF05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation P Water Supply	CS-II	CS-II				
Qualifiers:		acute	chronic				
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>						
		Temperature °C		Aluminum	---	---	
		D.O. (mg/L)	---	6.0	Arsenic	340	---
		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)	TVS
		E. Coli (per 100 mL)	---	205	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	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## North Fork of the Gunnison River Basin

6b. Mainstem and all tributaries to Bear Creek and Stevens Gulch. All tributaries, including wetlands, to the North Fork of the Gunnison River that are north of the North Fork of the Gunnison River, from a point immediately above the confluence with Roatcap Creek to the confluence with the Gunnison River, and are not within national forest boundaries; all tributaries, including wetlands, to the North Fork of the Gunnison River that are south of the North Fork of the Gunnison River, from a point immediately above the confluence with Minnesota Creek to the confluence with the Gunnison River, and are not within national forest boundaries, excluding the specific listings in Segments 5a and 5b.							
COGUNF06B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Aluminum	---	---
	Recreation P		<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	205	Cadmium(T)	5.0	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
			<b>acute</b>	<b>chronic</b>	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/WS
		Phosphorus	---	0.17*	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
			Uranium	---	---		
			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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

1. All tributaries to the Uncompahgre River, including all wetlands, which are within the Mt. Sneffels or Uncompahgre Wilderness Areas.							
COGUUN01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---	
	Recreation E	acute	chronic	Arsenic	340      ---		
Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
	D.O. (spawning)	---	7.0	Beryllium	---	---	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0      ---	
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid					Chromium III(T)	50	---
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

  

3a. Mainstem of the Uncompahgre River from a point immediately above the confluence with Red Mountain Creek to a point immediately above the confluence with Cascade Creek.							
COGUUN03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---	
	Recreation E	acute	chronic	Arsenic	340      ---		
Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
	D.O. (spawning)	---	7.0	Beryllium	---	---	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	---	SSE*
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	SSE*	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid					Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		<b>Inorganic (mg/L)</b>			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)	---	7438
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Lead(T)	50	---
		Nitrate	10	---	Manganese	TVS	TVS/WS
		Nitrite	0.05	---	Mercury	---	0.01(t)
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

3b. Mainstem of the Uncompahgre River from a point immediately above the confluence with Cascade Creek to a point immediately above the confluence with Dexter Creek.							
COGUUN03B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Cold 1	CS-I*	CS-I*	acute	chronic		
	Recreation E	acute	chronic				
	Water Supply						
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	---	0.02	
		D.O. (spawning)	---	7.0	---	---	
<b>Other:</b>		pH	6.5 - 9.0	---	---	SSE*	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	SSE*	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	5.0	---	
Expiration Date of 12/31/ <del>2024</del> 2024					---	TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Cadmium(acute) = e <sup>^(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e <sup>^(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838)) *Temperature = Temperature = summer criteria apply from 6/1-10/15		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	2971
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11*	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
			Uranium	---	---		
			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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

3c. Mainstem of the Uncompahgre River from a point immediately above the confluence with Dexter Creek to a point immediately below the confluence with Dallas Creek.																																																																																																																		
COGUUN03C	Classifications	Physical and Biological			Metals (ug/L)																																																																																																													
Designation	Agriculture		DM	MWAT																																																																																																														
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Aluminum	acute      chronic																																																																																																												
			acute	chronic	Arsenic	340      ---																																																																																																												
		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02																																																																																																												
		D.O. (spawning)	---	7.0	Beryllium	---      ---																																																																																																												
		pH	6.5 - 9.0	---	Cadmium	---      SSE*																																																																																																												
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	SSE*      ---																																																																																																												
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---																																																																																																												
					Chromium III	---      TVS																																																																																																												
					Chromium III(T)	50      ---																																																																																																												
					Chromium VI	TVS      TVS																																																																																																												
					Copper	TVS      TVS																																																																																																												
					Iron	---      WS																																																																																																												
					Iron(T)	---      1793																																																																																																												
					Lead	TVS      TVS																																																																																																												
					Lead(T)	50      ---																																																																																																												
					Manganese	TVS      TVS/WS																																																																																																												
					Mercury	---      0.01(t)																																																																																																												
					Molybdenum(T)	---      150																																																																																																												
					Nickel	TVS      TVS																																																																																																												
					Nickel(T)	---      100																																																																																																												
					Selenium	TVS      TVS																																																																																																												
					Silver	TVS      TVS(tr)																																																																																																												
					Uranium	---      ---																																																																																																												
					Zinc	TVS      TVS																																																																																																												
<b>Qualifiers:</b>  <b>Other:</b>  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4). *Cadmium(acute) = $e^{(0.9789 \cdot \ln(\text{hardness}) - 3.866)} \cdot (1.136672 - (\ln(\text{hardness}) \cdot 0.041838))$ *Cadmium(chronic) = $e^{(0.7977 \cdot \ln(\text{hardness}) - 3.909)} \cdot (1.101672 - (\ln(\text{hardness}) \cdot 0.041838))$		<b>Inorganic (mg/L)</b>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">acute</th> <th style="text-align: center;">chronic</th> </tr> </thead> <tbody> <tr><td style="text-align: left;">Ammonia</td><td style="text-align: center;">TVS</td><td style="text-align: center;">TVS</td></tr> <tr><td style="text-align: left;">Boron</td><td style="text-align: center;">---</td><td style="text-align: center;">0.75</td></tr> <tr><td style="text-align: left;">Chloride</td><td style="text-align: center;">---</td><td style="text-align: center;">250</td></tr> <tr><td style="text-align: left;">Chlorine</td><td style="text-align: center;">0.019</td><td style="text-align: center;">0.011</td></tr> <tr><td style="text-align: left;">Cyanide</td><td style="text-align: center;">0.005</td><td style="text-align: center;">---</td></tr> <tr><td style="text-align: left;">Nitrate</td><td style="text-align: center;">10</td><td style="text-align: center;">---</td></tr> <tr><td style="text-align: left;">Nitrite</td><td style="text-align: center;">0.05</td><td style="text-align: center;">---</td></tr> <tr><td style="text-align: left;">Phosphorus</td><td style="text-align: center;">---</td><td style="text-align: center;">0.11*</td></tr> <tr><td style="text-align: left;">Sulfate</td><td style="text-align: center;">---</td><td style="text-align: center;">WS</td></tr> <tr><td style="text-align: left;">Sulfide</td><td style="text-align: center;">---</td><td style="text-align: center;">0.002</td></tr> </tbody> </table>				acute	chronic	Ammonia	TVS	TVS	Boron	---	0.75	Chloride	---	250	Chlorine	0.019	0.011	Cyanide	0.005	---	Nitrate	10	---	Nitrite	0.05	---	Phosphorus	---	0.11*	Sulfate	---	WS	Sulfide	---	0.002	<table style="width: 100%; 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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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

3f. Mainstem of the Uncompahgre River from a point immediately above the outlet of the South Canal to a point immediately above the Highway 90 bridge in Montrose.						
COGUUN03F	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 1	CS-II	CS-II	acute	chronic	
	Recreation E	acute	chronic	Aluminum	---	---
	Water Supply	---	6.0	Arsenic	340	---
Qualifiers:	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	D.O. (spawning)	---	7.0	Beryllium	---	---
Temporary Modification(s):	pH	6.5 - 9.0	---	Cadmium	---	SSE*
Arsenic(chronic) = hybrid	chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	SSE*	---
Expiration Date of 12/31/ <del>2024</del> 2024	E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
	Inorganic (mg/L)			Chromium III	---	TVS
	acute	chronic		Chromium III(T)	50	---
	Ammonia	TVS	TVS	Chromium VI	TVS	TVS
	Boron	---	0.75	Copper	TVS	TVS
	Chloride	---	250	Iron	---	WS
	Chlorine	0.019	0.011	Iron(T)	---	1000
	Cyanide	0.005	---	Lead	TVS	TVS
	Nitrate	10	---	Lead(T)	50	---
	Nitrite	0.05	---	Manganese	TVS	TVS/WS
	Phosphorus	---	---	Mercury	---	0.01(t)
	Sulfate	---	WS	Molybdenum(T)	---	150
	Sulfide	---	0.002	Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS(tr)
				Uranium	---	---
				Zinc	TVS	TVS

4a. Mainstem of the Uncompahgre River from the Highway 90 bridge at Montrose to Gunnison Road.						
COGUUN04A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Warm 1	WS-II	WS-II	acute	chronic	
	Recreation E	acute	chronic	Aluminum	---	---
	Water Supply	---	5.0	Arsenic	340	---
Qualifiers:	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
Other:	pH	6.5 - 9.0	---	Beryllium	---	---
Temporary Modification(s):	chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
Arsenic(chronic) = hybrid	E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024	Inorganic (mg/L)			Chromium III	---	TVS
	acute	chronic		Chromium III(T)	50	---
	Ammonia	TVS	TVS	Chromium VI	TVS	TVS
	Boron	---	0.75	Copper	TVS	TVS
	Chloride	---	250	Iron	---	WS
	Chlorine	0.019	0.011	Iron(T)	---	1000
	Cyanide	0.005	---	Lead	TVS	TVS
	Nitrate	10	---	Lead(T)	50	---
	Nitrite	0.5	---	Manganese	TVS	TVS/WS
	Phosphorus	---	---	Mercury	---	0.01(t)
	Sulfate	---	WS	Molybdenum(T)	---	150
	Sulfide	---	0.002	Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS
				Uranium	---	---
				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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

4b. Mainstem of the Uncompahgre River from Gunnison Road to the upstream boundary of Confluence Park.							
COGUUN04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture Aq Life Warm 2 Recreation P Water Supply	Temperature °C	WS-II	WS-II	Aluminum	---	---
			<b>acute</b>	<b>chronic</b>	Arsenic	340	---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		E. Coli (per 100 mL)	---	205	Cadmium(T)	5.0	---
		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
			<b>acute</b>	<b>chronic</b>	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.5	---	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

  

10a. All tributaries to the Uncompahgre River, including all wetlands, from a point immediately below the confluence with Dexter Creek to the South Canal near Uncompahgre, except for specific listings in Segments 1, 10b, and 11.							
COGUUN10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture Aq Life Cold 1 Recreation P Water Supply	Temperature °C	CS-II	CS-II	Aluminum	---	---
			<b>acute</b>	<b>chronic</b>	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		E. Coli (per 100 mL)	---	205	Chromium III	---	TVS
		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
			<b>acute</b>	<b>chronic</b>	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	---	0.01(t)
		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	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

11. Mainstem of Coal Creek from the source to the Park Ditch, mainstem of Dallas Creek from the source of the East and West Forks to the confluence with the Uncompahgre River; mainstem of Cow Creek from the Uncompahgre Wilderness Area boundary to a point immediately below the confluence with Nate Creek, tributaries to Cow Creek from the Uncompahgre Wilderness Area boundary to the confluence with the Uncompahgre River; mainstems of Billy Creek, Onion Creek and Beaton Creek from their sources to their confluences with Uncompahgre River; mainstem of Beaver Creek from the source to the confluence with the East Fork of Dallas Creek; and mainstem of Pleasant Valley Creek from the source to the confluence with Dallas Creek.

COGUUN11	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	CS-I	CS-I	---	---	Aluminum	---	
	Recreation P	acute	chronic	340	---	Arsenic	---	
	Water Supply	---	6.0	---	0.02	Arsenic(T)	---	
<b>Qualifiers:</b>		---	7.0	---	---	Beryllium	---	
<b>Other:</b>		6.5 - 9.0	---	TVS(tr)	TVS	Cadmium	---	
Temporary Modification(s):		---	150	5.0	---	Cadmium(T)	---	
Arsenic(chronic) = hybrid		---	205	---	TVS	Chromium III	---	
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			50	---	Chromium III(T)	---
		acute	chronic	TVS	TVS	Chromium VI	---	
		TVS	TVS	---	WS	Copper	---	
		---	0.75	---	1000	Iron	---	
		---	250	---	---	Iron(T)	---	
		0.019	0.011	TVS	TVS	Lead	---	
		0.005	---	50	---	Lead(T)	---	
		10	---	TVS	TVS/WS	Manganese	---	
		0.05	---	---	0.01(t)	Mercury	---	
		---	0.11	---	150	Molybdenum(T)	---	
		---	WS	TVS	TVS	Nickel	---	
		---	0.002	---	100	Nickel(T)	---	
				TVS	TVS	Selenium	---	
				TVS	TVS(tr)	Silver	---	
				---	---	Uranium	---	
				TVS	TVS	Zinc	---	

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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Uncompahgre River Basin

12. All tributaries to the Uncompahgre River, including all wetlands, from the South Canal near Uncompahgre to the confluence with the Gunnison River, except for specific listings in Segments 13, 14, 15a and 15b.

COGUUN12	Classifications	Physical and Biological		Metals (ug/L)		
Designation		DM	MWAT	acute	chronic	
UP	Agriculture					
	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation P		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	205	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	TVS
Expiration Date of 12/31/ <del>2021</del> 2024			acute	chronic	Chromium III(T)	---
		Ammonia	TVS	TVS	Chromium VI	TVS
		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	0.05	---	Manganese	TVS
		Phosphorus	---	0.17	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Gunnison Basin

1. Mainstem of the Gunnison River from the outlet of Crystal Reservoir to Highway 65 (38.772574, -108.002634).						
COGULG01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	acute	chronic	
	Temperature °C	CS-II	CS-II	Aluminum	---	---
	D.O. (mg/L)	---	6.0	Arsenic	340	---
	D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>	pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):	E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid	<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024				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	---	0.01(t)
	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	---	---
				Zinc	TVS	TVS/TVS(sc)

  

2. Mainstem of the Gunnison River from Highway 65 (38.772574, -108.002634) to the confluence with the Colorado River.						
COGULG02	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Warm 1 Recreation E Water Supply	acute	chronic	acute	chronic	
	Temperature °C	WS-II	WS-II	Aluminum	---	---
	D.O. (mg/L)	---	5.0	Arsenic	340	---
	pH	6.5 - 9.0	---	Arsenic(T)	---	0.02
<b>Qualifiers:</b>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Beryllium	---	---
<b>Other:</b>	E. Coli (per 100 mL)	---	126	Cadmium	TVS	TVS
Temporary Modification(s):	<b>Inorganic (mg/L)</b>			Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid				Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024				Chromium III(T)	50	---
Selenium(chronic) = current conditions	Ammonia	TVS	TVS	Chromium VI	TVS	TVS
Expiration Date of 12/31/2022	Boron	---	0.75	Copper	TVS	TVS
	Chloride	---	250	Iron	---	WS
	Chlorine	0.019	0.011	Iron(T)	---	1000
	Cyanide	0.005	---	Lead	TVS	TVS
	Nitrate	10	---	Lead(T)	50	---
	Nitrite	0.05	---	Manganese	TVS	TVS/WS
	Phosphorus	---	---	Mercury	---	0.01(t)
	Sulfate	---	480	Molybdenum(T)	---	150
	Sulfide	---	0.002	Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS
				Uranium	---	---
				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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Gunnison Basin

3. All tributaries to the Gunnison River, including all wetlands, which are within national forest boundaries, from the outlet of Crystal Reservoir to the confluence with the Colorado River, except for specific listings in the North Fork Gunnison River sub-basin, Uncompahgre River sub-basins, and Segments 10, 11a, 11b, and 12.

COGULG03	Classifications	Physical and Biological			Metals (ug/L)				
Designation			DM	MWAT		acute	chronic		
Reviewable	Agriculture								
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---		
	Recreation E		acute	chronic	Arsenic	340	---		
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---		
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---		
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS		
		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---		
						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	---	0.01(t)	
		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	---	---	
						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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Gunnison Basin

7b. Mainstem of Surface Creek from the point of diversion of water supply (38.965216, -107.876031) to the confluence with Tongue Creek; mainstem of Tongue Creek from its inception at the confluence of Ward Creek and Dirty George Creek to the confluence with the Gunnison River; mainstem of Youngs Creek from the national forest boundary to the confluence with Kiser Creek; mainstem of Kiser Creek from the national forest boundary to the confluence with Ward Creek.

COGULG07B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation P		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4).					<b>Inorganic (mg/L)</b>		
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).						acute	chronic
		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	---	0.01(t)
		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	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Gunnison Basin

8a. Mainstem of Surface Creek, including all tributaries, from the national forest boundary to the point of diversion for public water supply (38.965216, -107.876031).							
COGULG08A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	acute	chronic
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---
Other:		pH	6.5 - 9.0		Cadmium	TVS(tr)	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Manganese(chronic) = WS, TVS and 1000 ug/L		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	varies*
		Nitrite	0.05	---	Mercury	---	0.01(t)
		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	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

2. All tributaries and wetlands, to the San Miguel River from its source to a point immediately below the confluence of Leopard Creek, except for specific listings in Segments 1, 6a, 6b, 7 and 8.

COGUSM02	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	Aluminum	---	---
		D.O. (mg/L)	---	6.0	Arsenic	340	---
		D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	---	SSE*
		E. Coli (per 100 mL)	---	126	Cadmium	SSE*	---
					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	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					Zinc	TVS	TVS/TVS(sc)

**Qualifiers:**

**Other:**

Temporary Modification(s):  
 Arsenic(chronic) = hybrid  
 Expiration Date of 12/31/2024

\*Cadmium(acute) =  $e^{(0.9789 \cdot \ln(\text{hardness}) - 3.866)} \cdot (1.136672 - (\ln(\text{hardness}) \cdot 0.041838))$   
 \*Cadmium(chronic) =  $e^{(0.7977 \cdot \ln(\text{hardness}) - 3.909)} \cdot (1.101672 - (\ln(\text{hardness}) \cdot 0.041838))$

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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

COGUSM03B Classifications		Physical and Biological		Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic
Reviewable	Aq Life Cold 1	varies*	varies*	---	---
	Recreation E	<b>acute</b>	<b>chronic</b>	340	---
	Water Supply	---	6.0	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	SSE*
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	SSE*
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	---
Expiration Date of 12/31/2024		<b>Inorganic (mg/L)</b>		---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4).		<b>acute</b>	<b>chronic</b>	50	---
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		Ammonia	TVS	TVS	TVS
*Cadmium(acute) = e <sup>-(0.9789*ln(hardness)-3.866)</sup> *(1.136672-(ln(hardness)*0.041838))		Boron	---	0.75	---
*Cadmium(chronic) = e <sup>-(0.7977*ln(hardness)-3.909)</sup> *(1.101672-(ln(hardness)*0.041838))		Chloride	---	250	---
*Temperature = DM=13.9 and MWAT=9 from 10/1-10/31		Chlorine	0.019	0.011	WS
DM=13 and MWAT=9 from 11/1-3/31		Cyanide	0.005	---	1000
DM=14 and MWAT=9 from 4/1-5/31		Nitrate	10	---	TVS
DM=21.7 and MWAT=17 from 6/1-9/30		Nitrite	0.5	---	TVS/WS
		Phosphorus	---	0.11*	0.01(t)
		Sulfate	---	WS	150
		Sulfide	---	0.002	---
				Nickel	TVS
				Nickel(T)	100
				Selenium	TVS
				Silver	TVS
				Uranium	TVS(tr)
				Zinc	---
					190

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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

4b. Mainstem of the San Miguel River from a point immediately below the CC ditch to a point immediately below the confluence of Naturita Creek.									
COGUSM04B	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture		DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	11/1 - 2/29	13	9	Aluminum	---	---	
	Recreation E	Temperature °C	3/1 - 10/31	30.9	23.3	Arsenic	340	---	
	Water Supply					Arsenic(T)	---	0.02	
Qualifiers:			acute	chronic		Beryllium	---	---	
Other:		D.O. (mg/L)	---	5.0		Cadmium	TVS	TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		pH	6.5 - 9.0	---		Cadmium(T)	5.0	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	---		Chromium III	---	TVS	
		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	---	0.01(t)
		Nitrite	0.5	---			Molybdenum(T)	---	150
		Phosphorus	---	---			Nickel	TVS	TVS
		Sulfate	---	WS			Nickel(T)	---	100
		Sulfide	---	0.002			Selenium	TVS	TVS
							Silver	TVS	TVS
							Uranium	---	---
					Zinc	TVS	TVS		

  

7. Mainstem of Howard Fork and including tributaries and wetlands, from a point immediately below the confluence of Swamp Gulch to its confluence with the South Fork of the San Miguel River.									
COGUSM07	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture		DM	MWAT	acute	chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---		
	Recreation E		acute	chronic	Arsenic	340	---		
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02		
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---		
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS		
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---		
		E. Coli (per 100 mL)	---	126	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	---	0.01(t)
		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	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

8. Mainstem of the South Fork of the San Miguel River from its inception at the confluence of the Howard and Lake Forks to its confluence with the San Miguel River.								
COGUSM08	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---	
	Recreation E		acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---	
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium III(T)	50	---	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		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/80	
		Nitrate	10	---	Mercury	---	0.01(t)	
		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	---	---	
					Zinc	TVS	TVS	
		9. All tributaries to the San Miguel River, including all wetlands, from a point immediately below the confluence of Leopard Creek to the Dolores River that are within the boundaries of the Uncompahgre National Forest, except for the listings in Segment 10a.						
		COGUSM09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---	
	Recreation E		acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---	
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium III(T)	50	---	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		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	---	0.01(t)	
		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	---	---	
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

10b. Mainstem of Naturita Creek and Tabeguache Creek from the point it exits the Uncompahgre National Forest at the most downstream boundary to the confluence with the San Miguel River.

COGUSM10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.05	---	Manganese	TVS	TVS/75
		Phosphorus	---	0.17	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

12a. All tributaries and wetlands to Naturita Creek. All tributaries and wetlands to the San Miguel River from a point immediately below the confluence with Leopard Creek to a point immediately above Horsefly Creek. This segment excludes the listings in Segments 9, 11a, 11b, 12b, and 12c.

COGUSM12A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid					Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	TVS
		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	TVS	---
					Uranium(T)	---	16.8-30 <sup>A</sup>
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## San Miguel River Basin

12b. All tributaries and wetlands to the San Miguel River from a point immediately above Horsefly Creek to the confluence with the Dolores River, excluding the listings in Segments 9, 11a, 12a, and 12c. Maverick Draw, including all tributaries and wetlands, from its source to the confluence with Naturita Creek.						
COGUSM12B	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT	acute	chronic
UP	Agriculture		WS-II	WS-II	Aluminum	---
	Aq Life Warm 2	Temperature °C	---	---	Arsenic	340
	Recreation E		acute	chronic	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III(T)	50
Arsenic(chronic) = hybrid			acute	chronic	Chromium VI	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Copper	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 35.5(4).		Boron	---	0.75	Iron	---
*Phosphorus(chronic) = applies only above the facilities listed at 35.5(4).		Chloride	---	250	Iron(T)	1000
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	0.05	---	Mercury	---
		Phosphorus	---	0.17*	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Uranium(T)	---
					Zinc	TVS
						16.8-30 <sup>A</sup>

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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Dolores River Basin

1a. Mainstem of the Dolores River from the bridge at Bradfield Ranch (Forest Route 505, near Montezuma/Dolores County Line) to a point immediately above the confluence with Big Canyon Creek near Dove Creek.

COGULD01A	Classifications	Physical and Biological				Metals (ug/L)		
Designation	Agriculture			<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/22	CS-II	CS-II	Aluminum	---	---
	Recreation E	Temperature °C	3/23 - 10/31	26.6	23.8	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:				<b>acute</b>	<b>chronic</b>	Beryllium	---	---
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/ <del>2021</del> 2024		chlorophyll a (mg/m <sup>2</sup> )		---	---	Chromium III(T)	50	---
		E. Coli (per 100 mL)		---	126	Chromium VI	TVS	TVS
						Copper	TVS	TVS
		Inorganic (mg/L)				Iron	---	WS
				<b>acute</b>	<b>chronic</b>	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	---	0.01(t)
		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	TVS	---
						Uranium(T)	---	16.8-30 <sup>A</sup>
						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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Dolores River Basin

1b. Mainstem of the Dolores River from a point immediately above the confluence with Big Canyon Creek near Dove Creek to a point immediately above the Highway 141 road crossing near Slick Rock.

COGULD01B	Classifications	Physical and Biological				Metals (ug/L)		
Designation	Agriculture			<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Cold 1	Temperature °C	11/1 - 3/22	CS-II	9.1	Aluminum	---	---
	Recreation E	Temperature °C	3/23 - 10/31	27.6	24.7	Arsenic	340	---
	Water Supply					Arsenic(T)	---	0.02
Qualifiers:							<b>acute</b>	<b>chronic</b>
Other:		D.O. (mg/L)		---	6.0	Beryllium	---	---
Temporary Modification(s):		D.O. (spawning)		---	7.0	Cadmium	TVS(tr)	TVS
Arsenic(chronic) = hybrid		pH		6.5 - 9.0	---	Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024		chlorophyll a (mg/m <sup>2</sup> )		---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)		---	126	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	---	0.01(t)
						Molybdenum(T)	---	150
						Nickel	TVS	TVS
						Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	TVS	---
						Uranium(T)	---	16.8-30 <sup>A</sup>
						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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

## REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Lower Dolores River Basin

2. Mainstem of the Dolores River from the Highway 141 road crossing near Slick Rock to the Colorado/Utah border.							
COGULD02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	0.5	---	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	TVS	---
					Uranium(T)	---	16.8-30 <sup>A</sup>
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature standards.

# REGULATION #35 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Dolores River Basin

5. Mainstem of West Creek from the source to the confluence with the Dolores River. Roc Creek including all tributaries and wetlands from the Manti-La Sal National Forest boundary to the confluence with the Dolores River. La Sal Creek, including all tributaries and wetlands, from the Utah/Colorado border to the confluence with the Dolores River. Mesa Creek, including all tributaries and wetlands, from the Uncompahgre National Forest boundary to the confluence with the Dolores River.

COGULD05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					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	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	TVS	---
					Uranium(T)	---	16.8-30 <sup>A</sup>
					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 35.6 for details on TVS, TVS(tr), TVS(sc), WS, temperature 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) Reserved.
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.

**EXHIBIT 5**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 36 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR RIO GRANDE BASIN

5 CCR 1002-36

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**36.6 TABLES**

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(2) Abbreviations

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(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water + Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
  - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
  - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
  - (c) 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.

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**36.44 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020; EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modifications should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**Temporary Modifications for Arsenic**

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 36.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division's Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the "current condition" temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of

evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division's Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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

**5 CCR 1002-36**

**REGULATION NO. 36  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
RIO GRANDE BASIN**

**APPENDIX 36-1  
Stream Classifications and Water Quality Standards Tables**

Effective ~~06/30/2020~~06/30/2019

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Rio Grande Basin

1. All tributaries to the Rio Grande, including all wetlands, within the Weminuche Wilderness Area.							
CORGRG01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
OW	Aq Life Cold 1	CS-I	CS-I	340	---	Arsenic	
	Recreation E	acute	chronic	---	0.02	Arsenic(T)	
	Water Supply	---	6.0	TVS(tr)	TVS	Cadmium	
<b>Qualifiers:</b>		---	7.0	5.0	---	Cadmium(T)	
<b>Other:</b>		6.5 - 9.0	---	---	TVS	Chromium III	
Temporary Modification(s):		---	150*	50	---	Chromium III(T)	
Arsenic(chronic) = hybrid		---	126	TVS	TVS	Chromium VI	
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			TVS	TVS	Copper
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		acute	chronic	---	WS	Iron	
		TVS	TVS	---	1000	Iron(T)	
		---	0.75	50	---	Lead	
		---	250	TVS	TVS/WS	Lead(T)	
		0.019	0.011	TVS	0.01	Manganese	
		0.005	---	---	150	Mercury(T)	
		10	---	TVS	TVS	Molybdenum(T)	
		0.05	---	---	100	Nickel	
		---	0.11*	TVS	TVS	Nickel(T)	
		---	WS	TVS	TVS(tr)	Selenium	
		---	0.002	TVS	varies*	Silver	
					varies*	Uranium	
					TVS	Zinc	
					TVS		

  

2. Mainstem of the Rio Grande, including all tributaries and wetlands, from the source to a point immediately above the confluence with Willow Creek, excluding the listings in segments 1 and 3.							
CORGRG02	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	CS-I	CS-I	340	---	Arsenic	
	Recreation E	acute	chronic	---	0.02	Arsenic(T)	
	Water Supply	---	6.0	TVS(tr)	TVS	Cadmium	
<b>Qualifiers:</b>		---	7.0	5.0	---	Cadmium(T)	
<b>Other:</b>		6.5 - 9.0	---	---	TVS	Chromium III	
Temporary Modification(s):		---	150*	50	---	Chromium III(T)	
Arsenic(chronic) = hybrid		---	126	TVS	TVS	Chromium VI	
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			TVS	TVS	Copper
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		acute	chronic	---	WS	Iron	
		TVS	TVS	---	1000	Iron(T)	
		---	0.75	50	---	Lead	
		---	250	TVS	TVS/WS	Lead(T)	
		0.019	0.011	TVS	0.01	Manganese	
		0.005	---	---	150	Mercury(T)	
		10	---	TVS	TVS	Molybdenum(T)	
		0.05	---	---	100	Nickel	
		---	0.11*	TVS	TVS	Nickel(T)	
		---	WS	TVS	TVS(tr)	Selenium	
		---	0.002	TVS	varies*	Silver	
					varies*	Uranium	
					TVS	Zinc	
					TVS		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Rio Grande Basin

4a. Mainstem of the Rio Grande from a point immediately above the confluence with Willow Creek to a point immediately above the confluence with the South Fork Rio Grande.							
CORGRG04A	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				
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Qualifiers:		D.O. (spawning)	---	7.0	Cadmium	TVS	varies*
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
					Copper	TVS	TVS
					Iron	---	WS
		acute	chronic				
*Cadmium(chronic) = See 36.6(4) for site-specific standards and assessment locations. *Manganese(chronic) = See 36.6(4) for site-specific standards and assessment locations. *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Zinc(acute) = See 36.6(4) for site-specific standards and assessment locations. *Zinc(chronic) = See 36.6(4) for site-specific standards and assessment locations.		Ammonia	TVS	TVS	Iron(T)	---	1000
		Boron	---	0.75	Lead	TVS	TVS
		Chloride	---	250	Lead(T)	50	---
		Chlorine	0.019	0.011	Manganese	TVS	varies*
		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	varies*	varies*

  

4b. Mainstem of the Rio Grande from a point immediately above the confluence with South Fork Rio Grande to the Hwy 285 crossing.							
CORGRG04B	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				
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
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/ <del>2024</del> <u>2024</u>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
		Inorganic (mg/L)			Chromium VI	TVS	TVS
					Copper	TVS	TVS
		acute	chronic				
*Cadmium(acute) = e <sup>0.9789</sup> ln(hardness)-3.866*(1.136672-(ln(hardness)*0.041838)) *Cadmium(chronic) = e <sup>0.7977</sup> ln(hardness)-3.909*(1.101672-(ln(hardness)*0.041838)) *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Rio Grande Basin

4c. Mainstem of the Rio Grande from the Hwy 285 crossing to the Rio Grande/Alamosa County line.							
CORGRG04C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

5a. All tributaries to the Rio Grande, including all wetlands, from immediately above the confluence with Willow Creek to the Hwy 112 bridge near Del Norte, excluding the listings in segments 5b through 10.							
CORGRG05A	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	---	SSE*
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
*Cadmium(acute) = e <sup>0.9789</sup> ln(hardness)-3.866)*(1.136672-(ln(hardness)*0.041838))			acute	chronic	Copper	TVS	TVS
*Cadmium(chronic) = e <sup>0.7977</sup> ln(hardness)-3.909)*(1.101672-(ln(hardness)*0.041838))		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 36.5(3) for details.		Boron	---	0.75	Iron(T)	---	1000
*Uranium(chronic) = See 36.5(3) for details.		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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Rio Grande Basin

11. Mainstem of San Francisco Creek (Rio Grande County), including all tributaries and wetlands, from the source to the confluence with the Rio Grande.							
CORGRG11	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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(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 <sup>2</sup> )	---	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	

  

12. Mainstem of the Rio Grande from the Rio Grande/Alamosa County line to Conejos County Road G (37.07831, -105.75665).							
CORGRG12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Water Supply		acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
		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	0.5	---	Molybdenum(T)	---	150
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	WS	Nickel(T)	---	100
	Sulfide	---	0.002	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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Rio Grande Basin

14. Mainstems of Dry Pole Creek, Limekiln Creek, Nicomodes Gulch, Raton Creek, and Dry Creek, including all tributaries and wetlands, within the boundaries of the Rio Grande National Forest.							
CORGRG14	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-II	CS-II	Arsenic(T)	---	
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)      TVS	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0      ---	
<b>Other:</b>	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	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	

  

19. Mainstem of Rock Creek, including all tributaries and wetlands, from the source to the Monte Vista Canal (37.52773, -106.16826).							
CORGRG19	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	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0      ---	
<b>Other:</b>	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.	pH	6.5 - 9.0	---	Chromium III	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	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	

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Rio Grande Basin

21a. Mainstem of Ute Creek, including all tributaries and wetlands, from the source to the crossing at 37.5000, -105.39643.						
CORGRG21A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	acute	chronic	
	Temperature °C	CS-I	CS-I	Arsenic	340	---
	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS
	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
				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	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

  

21b. Mainstem of Ute Creek, including all tributaries and wetlands, from the crossing at 37.5000, -105.39643 to Hwy 160.						
CORGRG21B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	acute	chronic	
	Temperature °C	varies*	CS-I*	Arsenic	340	---
	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	TVS
	pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
	E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
				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	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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Rio Grande Basin

28. Mainstem of Rito Seco, including all tributaries and wetlands, from the source to the road crossing at 37.218809, -105.411762.						
CORGRG28	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT		
Reviewable		acute	chronic	acute	chronic	
		Temperature °C	CS-II	CS-II	Arsenic	340 ---
					Arsenic(T)	--- 0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS TVS
*Uranium(acute) = See 36.5(3) for details.					<b>Inorganic (mg/L)</b>	
*Uranium(chronic) = See 36.5(3) for details.					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

30. Mainstem of Culebra Creek, including all tributaries and wetlands, from the source to the Culebra Sanchez Canal diversion, excluding the specific listings in segment 31. East Fork and West Fork of Costilla Creek, including all tributaries and wetlands, within Colorado.

30. Mainstem of Culebra Creek, including all tributaries and wetlands, from the source to the Culebra Sanchez Canal diversion, excluding the specific listings in segment 31. East Fork and West Fork of Costilla Creek, including all tributaries and wetlands, within Colorado.						
CORGRG30	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply		DM	MWAT		
Reviewable		acute	chronic	acute	chronic	
		Temperature °C	CS-I	CS-I	Arsenic	340 ---
					Arsenic(T)	--- 0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr) TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS TVS
*Uranium(acute) = See 36.5(3) for details.					<b>Inorganic (mg/L)</b>	
*Uranium(chronic) = See 36.5(3) for details.					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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Rio Grande Basin

31. Mainstem of Culebra Creek from the Sanchez Canal diversion to Hwy 159. Mainstem of Ventero Creek from the Colorado/New Mexico border to the confluence with Culebra Creek. Mainstem of Costilla Creek, including all tributaries and wetlands within Colorado, excluding the listings for the East and West Forks in segment 30.						
CORGRG31	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		<b>DM</b>	<b>MWAT</b>		
	Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-II	CS-II	<b>acute</b>	<b>chronic</b>
		Temperature °C	---	6.0	Arsenic	340 ---
		D.O. (mg/L)	---	7.0	Arsenic(T)	---
		D.O. (spawning)	6.5 - 9.0	---	Cadmium	TVS(tr) TVS
<b>Qualifiers:</b>		pH	---	150*	Cadmium(T)	5.0 ---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	126	Chromium III	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	---	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid					Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 36.5(4).  
 \*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).  
 \*Uranium(acute) = See 36.5(3) for details.  
 \*Uranium(chronic) = See 36.5(3) for details.

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Alamosa River/La Jara Creek/Conejos River Basins

13. Mainstem of Hot Creek from the source to the confluence with La Jara Creek.							
CORGAL13	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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024  *chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 36.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 36.5(4). *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(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 <sup>2</sup> )	---	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		

14a. Mainstem of the Conejos River, including all tributaries and wetlands, from the source to immediately below the confluence with Elk Creek, excluding the specific listings in segment 1.

CORGAL14A	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
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(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 <sup>2</sup> )	---	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		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Alamosa River/La Jara Creek/Conejos River Basins

14b. Mainstem of the Conejos River, including all tributaries and wetlands, from a point immediately below the confluence with Elk Creek to a point immediately above the confluence with Fox Creek.						
CORGAL14B	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-II	CS-II	Arsenic	340 ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS(tr) TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	--- TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
Expiration Date of 12/31/20242024					Chromium VI	TVS TVS
*Uranium(acute) = See 36.5(3) for details.					Copper	TVS TVS
*Uranium(chronic) = See 36.5(3) for details.					Iron	--- WS
		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)	--- 150
		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

  

15. Mainstem of the Conejos River from a point immediately above the confluence with Fox Creek to the confluence with the Rio San Antonio.						
CORGAL15	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-II	CS-II	Arsenic	340 ---
		D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	TVS(tr) TVS
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	--- TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50 ---
Expiration Date of 12/31/20242024					Chromium VI	TVS TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 36.5(4).					Copper	TVS TVS
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).					Iron	--- WS
*Uranium(acute) = See 36.5(3) for details.					Iron(T)	--- 1000
*Uranium(chronic) = See 36.5(3) for details.					Lead	TVS TVS
		Inorganic (mg/L)			Lead(T)	50 ---
		acute	chronic		Manganese	TVS TVS/WS
		Ammonia	TVS	TVS	Mercury(T)	--- 0.01
		Boron	---	0.75	Molybdenum(T)	--- 150
		Chloride	---	250	Nickel	TVS TVS
		Chlorine	0.019	0.011	Nickel(T)	--- 100
		Cyanide	0.005	---	Selenium	TVS TVS
		Nitrate	10	---	Silver	TVS TVS(tr)
		Nitrite	0.05	---	Uranium	varies* varies*
		Phosphorus	---	0.11*	Zinc	TVS TVS
		Sulfate	---	WS		
		Sulfide	---	0.002		

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Alamosa River/La Jara Creek/Conejos River Basins

17a. Mainstem of Rio de Los Pinos, including all tributaries and wetlands within Colorado, excluding the specific listings in segment 1.							
CORGAL17A	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:		---	6.0	Cadmium	TVS(tr)	TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		---	7.0	Cadmium(T)	5.0	---	
		6.5 - 9.0	---	Chromium III	---	TVS	
		---	150	Chromium III(T)	50	---	
		---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		TVS	TVS	Iron(T)	---	1000	
		---	0.75	Lead	TVS	TVS	
		---	250	Lead(T)	50	---	
		0.019	0.011	Manganese	TVS	TVS/WS	
		0.005	---	Mercury(T)	---	0.01	
		10	---	Molybdenum(T)	---	150	
		0.05	---	Nickel	TVS	TVS	
		---	0.11	Nickel(T)	---	100	
		---	WS	Selenium	TVS	TVS	
---	0.002	Silver	TVS	TVS(tr)			
---	0.002	Uranium	varies*	varies*			
---	0.002	Zinc	TVS	TVS			
17b. Mainstem of the Rio San Antonio from the Colorado/New Mexico border to Hwy 285.							
CORGAL17B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CS-II	CS-II	arsenic	340	---	
Qualifiers:		acute	chronic	Arsenic(T)	---	0.02	
Other:		---	6.0	Cadmium	TVS(tr)	TVS	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		---	7.0	Cadmium(T)	5.0	---	
		6.5 - 9.0	---	Chromium III	---	TVS	
		---	150	Chromium III(T)	50	---	
		---	126	Chromium VI	TVS	TVS	
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
		TVS	TVS	Iron(T)	---	1000	
		---	0.75	Lead	TVS	TVS	
		---	250	Lead(T)	50	---	
		0.019	0.011	Manganese	TVS	TVS/WS	
		0.005	---	Mercury(T)	---	0.01	
		10	---	Molybdenum(T)	---	150	
		0.05	---	Nickel	TVS	TVS	
		---	0.11	Nickel(T)	---	100	
		---	WS	Selenium	TVS	TVS	
---	0.002	Silver	TVS	TVS(tr)			
---	0.002	Uranium	varies*	varies*			
---	0.002	Zinc	TVS	TVS			

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Alamosa River/La Jara Creek/Conejos River Basins

18. Mainstem of the Rio San Antonio from Hwy 285 to the confluence with the Conejos River.						
CORGAL18	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Arsenic	340
	Water Supply		acute	chronic	Arsenic(T)	---
	Recreation E	D.O. (mg/L)	---	5.0	Cadmium	TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0
Water + Fish Standards Apply		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---
Other:		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Temporary Modification(s):		Inorganic (mg/L)			Chromium VI	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS
Expiration Date of 12/31/ <del>2021</del> 2024		Ammonia	TVS	TVS	Iron	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 36.5(4).		Boron	---	0.75	Iron(T)	---
*Phosphorus(chronic) = applies only above the facilities listed at 36.5(4).		Chloride	---	250	Lead	TVS
*Uranium(acute) = See 36.5(3) for details.		Chlorine	0.019	0.011	Lead(T)	50
*Uranium(chronic) = See 36.5(3) for details.		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	0.17*	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Closed Basin-San Luis Valley River Basin

3. All tributaries to the Closed Basin excluding the listings in segments 1, 2a, 2b, 2c, and 4 through 13.							
CORGC03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		WS-II	WS-II	Arsenic	340	---	
		acute	chronic	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
Other:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 36.5(3) for details.		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
4. Mainstem of San Luis Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Piney Creek, excluding the specific listings in segments 8, 9a, and 9b. Garner Creek, including all tributaries and wetlands, from the Rio Grande Forest Boundary to the mouth.							
CORGC04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply	DM	MWAT	acute	chronic		
Reviewable		CS-I	CS-I	Arsenic	340	---	
		acute	chronic	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
Other:		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
Temporary Modification(s):		pH	6.5 - 9.0	---	Chromium III	---	TVS
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
		Inorganic (mg/L)			Copper	TVS	TVS
		acute	chronic	Iron	---	WS	
*Uranium(acute) = See 36.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(chronic) = See 36.5(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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Closed Basin-San Luis Valley River Basin

9b. Mainstem of Kerber Creek from a point immediately above the confluence with Brewery Creek to the confluence with San Luis Creek.

CORGCB09B		Classifications			Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			acute	chronic		
UP	Agriculture									
	Aq Life Cold 1		CS-I	CS-I	Temperature °C		Arsenic	340	---	
	Recreation E		acute	chronic			Arsenic(T)	---	0.02	
	Water Supply				D.O. (mg/L)	---	6.0	Cadmium	---	SSE*
<b>Qualifiers:</b>					D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Goal Qualifier for Agriculture and Water Supply</b>					pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>					chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):					E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid								Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					<b>Inorganic (mg/L)</b>			Copper	---	SSE*
								Copper	SSE*	TVS
								Copper	TVS	---
*Cadmium(acute) = e^(0.7852ln[hard]-1.545)					Ammonia	TVS	TVS	Iron	---	300
*Cadmium(chronic) = e^(0.7852ln[hard]-2.906)					Boron	---	0.75	Iron(T)	---	1000
*Copper(acute) = e^(0.8889ln[hard]+0.53)					Chloride	---	250	Lead	TVS	TVS
*Copper(chronic) = e^(0.8889ln[hard]-1.519)					Chlorine	0.019	0.011	Lead(T)	50	---
*Uranium(acute) = See 36.5(3) for details.					Cyanide	0.005	---	Manganese	TVS	TVS/WS
*Uranium(chronic) = See 36.5(3) for details.					Nitrate	10	---	Mercury(T)	---	0.01
*Zinc(acute) = e^(0.8179ln[hard]+3.757)					Nitrite	0.05	---	Molybdenum(T)	---	150
*Zinc(chronic) = e^(0.8179ln[hard]+2.907)					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	---	SSE*
								Zinc	SSE*	TVS
								Zinc	TVS	---

11. All tributaries to the Closed Basin within the Rio Grande National Forest boundaries excluding the listings in segments 1, 2a, 2b, 2c, 4, 9a, 9b, 10, 12a, 12b, and 12c.

CORGCB11		Classifications			Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT			acute	chronic		
Reviewable	Agriculture									
	Aq Life Cold 1		CS-I	CS-I	Temperature °C		Arsenic	340	---	
	Recreation E		acute	chronic			Arsenic(T)	---	0.02	
	Water Supply				D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>					D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>					pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):					chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid					E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024								Copper	TVS	TVS
					<b>Inorganic (mg/L)</b>			Iron	---	WS
								Iron(T)	---	1000
								Lead	TVS	TVS
*Uranium(acute) = See 36.5(3) for details.					Ammonia	TVS	TVS	Lead(T)	50	---
*Uranium(chronic) = See 36.5(3) for details.					Boron	---	0.75	Manganese	TVS	TVS/WS
					Chloride	---	250	Mercury(T)	---	0.01
					Chlorine	0.019	0.011	Molybdenum(T)	---	150
					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

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Closed Basin-San Luis Valley River Basin

12a. Mainstem of Saguache Creek, including all tributaries and wetlands, from the boundary of the La Garita Wilderness Area to a point just below the confluence with Ford Creek, excluding the specific listings in segments 1 and 12b.

CORGCB12A	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	---	SSE*
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium	SSE*	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium VI	TVS	TVS
*Cadmium(acute) = $e^{(0.9789 \ln(\text{hardness}) - 3.866)} * (1.136672 - (\ln(\text{hardness}) * 0.041838))$ *Cadmium(chronic) = $e^{(0.7977 \ln(\text{hardness}) - 3.909)} * (1.101672 - (\ln(\text{hardness}) * 0.041838))$ *Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details.		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

12b. Mainstem of Saguache Creek from a point just below the confluence of Fourmile Creek to a point just below the confluence with Ford Creek.

CORGCB12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II*	varies* <sup>C</sup>	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 36.5(3) for details. *Uranium(chronic) = See 36.5(3) for details. *Temperature = MWAT=CS-II from 11/1-3/31 MWAT=18.6 from 4/1-10/31 See temperature assessment locations at 36.6(4).		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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 36.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #36 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Closed Basin-San Luis Valley River Basin

12c. Mainstem of Saguache Creek, including all tributaries and wetlands, from a point just below the confluence with Ford Creek to Hwy 285.						
CORGCB12C	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT		
Reviewable					acute	chronic
	Agriculture					
	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					Copper	TVS
*Uranium(acute) = See 36.5(3) for details.					Iron	---
*Uranium(chronic) = See 36.5(3) for details.					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury(T)	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 36.6 for details on TVS, TVS(tr), WS, temperature 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) *Reserved.*
- (C) For certain site-specific temperature standards, the temperature excursions listed in Table I - Footnote 5(c) of 31.16 do not apply. Assessment of ambient-based temperature standards should be conducted in a way that represents similar conditions to those under which the criteria were developed (i.e., air, low flow, and warming event excursions should not apply). Similarly, where site-specific adjustments to the winter shoulder season have been adopted, the winter shoulder season excursion does not apply.

**EXHIBIT 6**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 37 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR LOWER COLORADO RIVER BASIN

5 CCR 1002-37

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**37.6 TABLES**

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(2) Abbreviations:

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(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water+Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
  - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
  - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
  - (c) 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.

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**37.41 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020; EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modifications should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**A. Temporary Modifications for Standards Other than Arsenic**

The commission took no action on the following temporary modification:

Lower Colorado Segment 4e: temporary modification of the acute and chronic copper standards (expires 6/3/2021). Tri-State Generation and Transmission Association, Inc. continues to make progress to resolve the uncertainty and is working to develop a proposal for site-specific copper standards in the December 2020 temporary modifications rulemaking hearing. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

**B. Temporary Modification Updates – Arsenic**

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 37.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division's Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado

waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the “current condition” temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division’s Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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

**5 CCR 1002-37**

**REGULATION NO. 37  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
LOWER COLORADO RIVER BASIN**

**APPENDIX 37-1  
Stream Classifications and Water Quality Standards Tables**

Effective ~~06/30/2020~~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>
mg/L	=	milligrams per liter
mg/m <sup>2</sup>	=	milligrams per square meter
mL	=	milliliter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WL	=	warm lake temperature tier

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Yampa/Green River

2. Mainstem of the Yampa River from a point immediately below the confluence with Elkhead Creek to the confluence with the Green River.								
COLCLY02	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---	
	Recreation E		acute	chronic	Arsenic(T)	---	0.02	
<b>Qualifiers:</b> pH chlorophyll a (mg/m <sup>2</sup> ) E. Coli (per 100 mL) <b>Inorganic (mg/L)</b> Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate Sulfide	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS	
	<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u> *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	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		
				Uranium	varies*	varies*		
				Zinc	TVS	TVS		
3a. All tributaries to the Yampa River, including all wetlands, from a point immediately below the confluence with Elkhead Creek to a point immediately below the confluence with the Little Snake River, except for listings in Segments 3b through 15, 17a, 17b and 18.								
COLCLY03A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute	chronic			
UP	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---	
	Water Supply		acute	chronic	Arsenic(T)	---	0.02	
<b>Qualifiers:</b> pH chlorophyll a (mg/m <sup>2</sup> ) E. Coli (per 100 mL) <b>Inorganic (mg/L)</b> Ammonia Boron Chloride Chlorine Cyanide Nitrate Nitrite Phosphorus Sulfate Sulfide	Recreation P	D.O. (mg/L)	---	5.0	Beryllium(T)	---	100	
	<b>Water + Fish Standards Apply</b> <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u> *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Cadmium	TVS	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
						Manganese(T)	---	200
						Mercury(T)	---	0.01
						Molybdenum(T)	---	150
				Nickel	TVS	TVS		
				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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Yampa/Green River

3c. Mainstem of Milk Creek, including all tributaries and wetlands, from Thornburgh (County Rd 15) to the confluence with the Yampa River, except for listings in Segment 3b and 3e.						
COLCLY03C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1 Recreation P Water Supply	Temperature °C	WS-II WS-II	Arsenic	340	---
		acute	chronic	Arsenic(T)	---	0.02
		D.O. (mg/L)	---	5.0	Cadmium	TVS TVS
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0 ---
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	205	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024		acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---
*Uranium(chronic) = See 37.5(3) for details.		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	---	0.17	Nickel	TVS TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS TVS
					Silver	TVS TVS
					Uranium	varies* varies*
					Zinc	TVS TVS
4. North and South Fork of Fortification Creek, including all wetlands and tributaries, from their sources to their confluence. Little Cottonwood Creek, including all tributaries and wetlands from the source to the confluence with Fortification Creek.						
COLCLY04	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	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):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024		Inorganic (mg/L)			Copper	TVS TVS
*Uranium(acute) = See 37.5(3) for details.		acute	chronic	Iron	---	WS
*Uranium(chronic) = See 37.5(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	---	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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Yampa/Green River

5. Mainstem of Fortification Creek from the confluence of the North Fork and South Fork to the confluence with the Yampa River.						
COLCLY05	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Warm 1 Recreation E Water Supply	DM	MWAT	acute	chronic	
Reviewable		acute	chronic	Arsenic	340	---
		Temperature °C	WS-II	WS-II	Arsenic(T)	---
		D.O. (mg/L)	---	5.0	Cadmium	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Copper	TVS
					Iron	---
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(chronic) = See 37.5(3) for details.		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Manganese(T)	---
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	0.17	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					Zinc	TVS

  

9. Mainstems of the East and South Forks of the Williams Fork River, including all wetlands and tributaries, which are within the boundary of Rout National Forest, except for listings in Segment 8 and 12c.						
COLCLY09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture Aq Life Cold 1 Recreation P 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)
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS
					Iron	---
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron(T)	---
*Uranium(chronic) = See 37.5(3) for details.		Boron	---	0.75	Lead	TVS
		Chloride	---	250	Lead(T)	50
		Chlorine	0.019	0.011	Manganese	TVS
		Cyanide	0.005	---	Manganese(T)	---
		Nitrate	10	---	Mercury(T)	---
		Nitrite	0.05	---	Molybdenum(T)	---
		Phosphorus	---	0.11	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	varies*
					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 37.6 for further details on applied standards.



# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Yampa/Green River

12c. Mainstem of Beaver Creek, including all wetlands and tributaries, which are within the Routt National Forest.							
COLCLY12C	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 P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 37.5(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

15. Those portions of the Little Snake River which are in Colorado, from its first crossing of the Colorado/Wyoming border to a point immediately above the confluence with Powder Wash (Moffatt County).

COLCLY15	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> 2024					Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 37.5(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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Yampa/Green River

16. Mainstem of the Little Snake River from a point immediately above the confluence with Powder Wash to the confluence with the Yampa River.							
COLCLY16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-III	WS-III	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Water + Fish Standards Apply</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Arsenic(chronic) = hybrid			acute	chronic	Copper	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> 2024		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(acute) = See 37.5(3) for details.		Boron	---	0.75	Iron(T)	---	4400
*Uranium(chronic) = See 37.5(3) for details.		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

18. Mainstem of Slater Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Second Creek. The mainstems of Fourmile and Willow Creeks, including all tributaries and wetlands, from their sources to the boundary of the Routt National Forest.

18. Mainstem of Slater Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Second Creek. The mainstems of Fourmile and Willow Creeks, including all tributaries and wetlands, from their sources to the boundary of the Routt National Forest.							
COLCLY18	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 37.5(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)

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## White River

4a. All tributaries to the North Fork White River, including all wetlands, from the Flat Tops Wilderness Area boundary to the confluence with the South Fork White River, except for listings in Segment 1 and 4b.

COLCWH04A Classifications		Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture			Temperature °C	340	---	
	Aq Life Cold 1	CS-I	CS-I				
	Recreation E	acute	chronic				
	Water Supply			D.O. (mg/L)	TVS(tr)	TVS	
<b>Qualifiers:</b>				D.O. (spawning)	5.0	---	
<b>Other:</b>				pH	---	TVS	
Temporary Modification(s):		6.5 - 9.0	---	chlorophyll a (mg/m <sup>2</sup> )	50	---	
Arsenic(chronic) = hybrid		---	150	E. Coli (per 100 mL)	TVS	TVS	
Expiration Date of 12/31/ <del>2021</del> 2024		---	126		TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic		Iron(T)	---	1000
		TVS	TVS	Ammonia	TVS	TVS	
		---	0.75	Boron	---	---	
		---	250	Chloride	TVS	TVS/WS	
		0.019	0.011	Chlorine	---	0.01	
		0.005	---	Cyanide	---	150	
		10	---	Nitrate	TVS	TVS	
		0.05	---	Nitrite	---	100	
		---	0.11	Phosphorus	TVS	TVS	
		---	WS	Sulfate	TVS	TVS(tr)	
		---	0.002	Sulfide	Uranium	varies*	varies*
					Zinc	TVS	TVS

4b. Lost Creek, including tributaries and wetlands, from the source to the confluence with the North Fork White River. Snell Creek, including all wetlands and tributaries, from the source to the confluence with the North Fork White River.

COLCWH04B Classifications		Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
OW	Agriculture			Temperature °C	340	---	
	Aq Life Cold 1	CS-I	CS-I				
	Recreation E	acute	chronic				
	Water Supply			D.O. (mg/L)	TVS(tr)	TVS	
<b>Qualifiers:</b>				D.O. (spawning)	5.0	---	
<b>Other:</b>				pH	---	TVS	
Temporary Modification(s):		6.5 - 9.0	---	chlorophyll a (mg/m <sup>2</sup> )	50	---	
Arsenic(chronic) = hybrid		---	150	E. Coli (per 100 mL)	TVS	TVS	
Expiration Date of 12/31/ <del>2021</del> 2024		---	126		TVS	TVS	
*Uranium(acute) = See 37.5(3) for details.		<b>Inorganic (mg/L)</b>			Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		acute	chronic		Iron(T)	---	1000
		TVS	TVS	Ammonia	TVS	TVS	
		---	0.75	Boron	---	---	
		---	250	Chloride	TVS	TVS/WS	
		0.019	0.011	Chlorine	---	0.01	
		0.005	---	Cyanide	---	150	
		10	---	Nitrate	TVS	TVS	
		0.05	---	Nitrite	---	100	
		---	0.11	Phosphorus	TVS	TVS	
		---	WS	Sulfate	TVS	TVS(tr)	
		---	0.002	Sulfide	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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## White River

7. Mainstem of the White River from a point immediately above the confluence with Miller Creek to a point immediately above the confluence with Piceance Creek.							
COLCWH07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E      3/2 - 11/30 Recreation P      12/1 - 3/1 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      ---	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50      ---	
Temporary Modification(s):		E. Coli (per 100 mL)	3/2 - 11/30	---	126	Chromium VI	TVS      TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	12/1 - 3/1	---	205	Copper	TVS      TVS
Expiration Date of 12/31/ <del>2024</del> 2024		Inorganic (mg/L)			Iron	---	WS
		acute	chronic	Iron(T)	---	1000	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 37.5(4).		Ammonia	TVS	TVS	Lead	TVS      TVS	
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		Boron	---	0.75	Lead(T)	50      ---	
*Uranium(acute) = See 37.5(3) for details.		Chloride	---	250	Manganese	TVS      TVS/WS	
*Uranium(chronic) = See 37.5(3) for details.		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	
9d. Sulphur Creek, including all tributaries and wetlands, from the source to the confluence with the White River. Flag Creek, including all tributaries and wetlands, from a point just below the confluence with the East Fork of Flag Creek to the confluence with the White River.							
COLCWH09D	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 2 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      ---	
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Chromium III	---	
<b>Water + Fish Standards Apply</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50      ---	
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium VI	TVS      TVS	
Temporary Modification(s):					Copper	TVS      TVS	
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Iron	---	WS
Expiration Date of 12/31/ <del>2024</del> 2024		acute	chronic	Iron(T)	---	1000	
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Lead	TVS      TVS	
*Uranium(chronic) = See 37.5(3) for details.		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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## White River

10b. Mainstem of Big Beaver Creek, Miller Creek, and North Elk Creek, including their tributaries and wetlands, from their boundary with National Forest lands to their confluences with the White River. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to the confluence with the White River.							
COLCWH10B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1 Recreation P Water Supply	acute	chronic	acute	chronic	chronic	
<b>Qualifiers:</b>		Temperature °C	CS-I	CS-I	Arsenic	340	---
<b>Other:</b>		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/20242024		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	205	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

  

12. Mainstem of the White River from a point immediately above the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek.							
COLCWH12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1 Recreation E Water Supply	acute	chronic	acute	chronic	chronic	
<b>Qualifiers:</b>		Temperature °C	WS-II	WS-II	Arsenic	340	---
<b>Other:</b>		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/20242024		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	---	---	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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## White River

14a. Mainstem of Piceance Creek from the source to a point just below the confluence with Hunter Creek.						
COLCWH14A	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	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/ <del>2024</del> 2024		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	--- TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	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

  

20. Mainstem of Black Sulphur Creek, including all tributaries and wetlands, from the source to the confluence with Piceance Creek, except for the listing in Segment 19.						
COLCWH20	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	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/ <del>2024</del> 2024		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	--- TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	---	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

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## White River

21. Mainstem of the White River from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border.							
COLCWH21	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	100
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> <u>2024</u>			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

23. Mainstems of East Douglas Creek and West Douglas Creek, including all tributaries and wetlands, from their sources to their confluence.							
COLCWH23	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> <u>2024</u>		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 37.5(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

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

1. Mainstem of the Colorado River from the confluence with the Roaring Fork River to immediately below the confluence with Riffe Creek.						
COLCLC01	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	varies*	varies*	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details. *Temperature = See 37.6(4) for temperature standards.	Water Supply	---	6.0	Cadmium	TVS(tr)	TVS
	D.O. (mg/L)	---	7.0	Cadmium(T)	5.0	---
	D.O. (spawning)	6.5 - 9.0	---	Chromium III	---	TVS
	pH	---	---	Chromium III(T)	50	---
	chlorophyll a (mg/m <sup>2</sup> )	---	126	Chromium VI	TVS	TVS
	E. Coli (per 100 mL)	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	

  

2a. Mainstem of the Colorado River from immediately below the confluence with Riffe Creek to immediately above the confluence of Rapid Creek.						
COLCLC02A	Classifications	Physical and Biological		Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	WS-II	WS-II	Arsenic	340	---
	Recreation E	acute	chronic	Arsenic(T)	---	0.02
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.	Water Supply	---	5.0	Cadmium	TVS	TVS
	D.O. (mg/L)	6.5 - 9.0	---	Cadmium(T)	5.0	---
	pH	---	---	Chromium III	---	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	126	Chromium III(T)	50	---
	E. Coli (per 100 mL)	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	---	---	Nickel	TVS	TVS
	Sulfate	---	WS	Nickel(T)	---	100
Sulfide	---	0.002	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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

2b. Mainstem of the Colorado River from a point immediately above the confluence with Rapid Creek to immediately above the confluence of the Gunnison River.						
COLCLC02B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340      ---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---      0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III	---      TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS      TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>			<b>acute</b>	<b>chronic</b>	Copper	TVS      TVS
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---      WS
*Uranium(chronic) = See 37.5(3) for details.		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
					Uranium	varies*      varies*
					Zinc	TVS      TVS

  

4c. The mainstem of South Canyon Creek from the South Canyon Hot Springs to the confluence with the Colorado River.						
COLCLC04C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-III	WS-III	Arsenic	340      ---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic(T)	---      0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS      TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0      ---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	---      TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50      ---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS      TVS
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>			<b>acute</b>	<b>chronic</b>	Copper	TVS      TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 37.5(4).		Ammonia	TVS	TVS	Iron	---      WS
*Uranium(acute) = See 37.5(3) for details.		Boron	---	0.75	Iron(T)	---      1000
*Uranium(chronic) = See 37.5(3) for details.		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

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

4e. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to immediately above the Last Chance Ditch.						
COLCLC04E	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
UP	Aq Life Cold 2 Recreation N	Temperature °C	CS-II	CS-II	Arsenic	340      ---
		acute	chronic	Arsenic(T)	---	100
Qualifiers:		D.O. (mg/L)	---	5.0	Cadmium	TVS      SSE*
Other:		pH	6.5 - 9.0	---	Chromium III	TVS      TVS
Temporary Modification(s): Copper(ac/ch) = current conditions Expiration Date of 6/30/2021		chlorophyll a (mg/m <sup>2</sup> )	---	---	Chromium III(T)	---
		E. Coli (per 100 mL)	---	630	Chromium VI	TVS      TVS
		Inorganic (mg/L)			Copper	TVS      TVS
		acute	chronic	Iron(T)	---	varies*
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Cadmium(chronic) = $e^{(0.7977 \cdot \ln(\text{hardness}) - 3.909)} \cdot (1.101672 - (\ln(\text{hardness}) \cdot 0.041838))$ *Iron(T)(chronic) = 3500(T) ug/L on unnamed tributary and 5900(T) ug/L on Dry Creek, see section 37.6(4)(c) for iron assessment locations. *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		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	---	0.11*	Uranium	varies*      varies*
		Sulfate	---	---	Zinc	TVS      TVS
		Sulfide	---	0.002		
5. All tributaries to the Colorado River, including wetlands, which are within the boundaries of White River National Forest, except for listings in Segments 9a, 9c, and 12c.						
COLCLC05	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	Arsenic	340      ---
		acute	chronic	Arsenic(T)	---	0.02
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/ <del>2024</del> 2024		pH	6.5 - 9.0	---	Chromium III	---
		chlorophyll a (mg/m <sup>2</sup> )	---	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
*Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(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	---	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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

7a. Mainstem of Mitchell, Canyon, Elk, Garfield, Beaver, and Cache Creeks, including all tributaries and wetlands, from the boundary of the White River National Forest to their confluences with the Colorado River.							
COLCLC07A	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/ <del>2024</del> 2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 37.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 37.5(4). *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	--- TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	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		
7b. Mainstem of Divide Creek, including all tributaries and wetlands, from the boundary of the White River National Forest to the confluence with the Colorado River.							
COLCLC07B	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/ <del>2024</del> 2024  *Uranium(acute) = See 37.5(3) for details. *Uranium(chronic) = See 37.5(3) for details.		pH	6.5 - 9.0	---	Chromium III	--- TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	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		

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

10. West Rifle Creek, including all tributaries and wetlands, from the source to Rifle Gap Reservoir. East Rifle Creek, including all tributaries and wetlands, from the White River National Forest boundary to Rifle Gap Reservoir. Rifle Creek, including all tributaries and wetlands, from Rifle Gap Reservoir to the confluence with the Colorado River.

COLCLC10	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 37.5(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

11c. Mainstem of Parachute Creek from the confluence of the West and East Forks to the confluence with the Colorado River. All tributaries and wetlands to Parachute Creek on the west side of Parachute Creek from the confluence of the East and West Forks to the confluence with the Colorado River.

COLCLC11C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---
	Recreation P		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 37.5(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

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

14b. Clear Creek, including all tributaries and wetlands, from a point immediately below the confluence with Tom Creek to the confluence with Roan Creek. Roan Creek, including all tributaries and wetlands, from a point immediately above the confluence with Clear Creek to a point immediately below the confluence with Kimball Creek.

COLCLC14B	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/20242024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.			acute	chronic	Iron	---	WS
*Uranium(chronic) = See 37.5(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

14c. Mainstem of Roan Creek, including all tributaries and wetlands, from a point immediately below the confluence with Kimball Creek to the confluence with the Colorado River.

COLCLC14C	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium(T)	5.0	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
Expiration Date of 12/31/20242024			acute	chronic	Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		Ammonia	TVS	TVS	Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.		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

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

15a. Mainstem of Plateau Creek from its source to the inlet of Vega Reservoir. All tributaries and wetlands to Plateau Creek from its source to a point immediately above the confluence with Buzzard Creek. Kimball Creek, Grove Creek, Big Creek, Cottonwood Creek, Bull Creek, Spring Creek, Coon Creek, and Mesa Creek, including all wetlands and tributaries, from their sources to their confluences with Plateau Creek. The mainstem of Buzzard Creek, including all tributaries and wetlands, within the Grand Mesa National Forest.

COLCLC15A	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		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---		
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
Expiration Date of 12/31/ <u>2024</u>					Copper	TVS	TVS		
					Inorganic (mg/L)		Iron	---	WS
					acute	chronic	Iron(T)	---	1000
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 37.5(4).		Ammonia	TVS	TVS	Lead	TVS	TVS		
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		Boron	---	0.75	Lead(T)	50	---		
*Uranium(acute) = See 37.5(3) for details.		Chloride	---	250	Manganese	TVS	TVS/WS		
*Uranium(chronic) = See 37.5(3) for details.		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		

15b. All tributaries and wetlands to Buzzard Creek from the Grand Mesa National Forest boundary to the confluence with Plateau Creek.

COLCLC15B	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		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---		
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS		
Expiration Date of 12/31/ <u>2024</u>					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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

15c. Mainstem of Plateau Creek from the outlet of Vega Reservoir to a point immediately below the confluence with Buzzard Creek.						
COLCLC15C	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 37.5(4).  
 \*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).  
 \*Uranium(acute) = See 37.5(3) for details.  
 \*Uranium(chronic) = See 37.5(3) for details.  
 \*Temperature =  
 DM=15.7 and MWAT=11.2 from 10/1-10/31  
 DM=14.1 and MWAT=CS-II from 11/1-3/31  
 DM=27.3 and MWAT=21.6 from 4/1-9/30

15d. Mainstem of Buzzard Creek from the Grand Mesa National Forest boundary to its confluence with Plateau Creek.						
COLCLC15D	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0 ---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	--- TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50 ---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS TVS
Expiration Date of 12/31/ <del>2024</del> 2024					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

\*Uranium(acute) = See 37.5(3) for details.  
 \*Uranium(chronic) = See 37.5(3) for details.  
 \*Temperature =  
 DM=CS-II and MWAT=CS-II from 11/1-3/31  
 DM=25.1 and MWAT=18.9 from 4/1-10/31

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

16. Plateau Creek including all tributaries and wetlands, from a point immediately below the confluence with Buzzard Creek, to the confluence with the Colorado River, excluding listings in segments 5, 15a and 21.							
COLCLC16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1 Recreation E Water Supply	Temperature °C	varies*	varies*	Arsenic	340	---
		acute	chronic		Arsenic(T)	---	0.02
		D.O. (mg/L)	---	6.0	Cadmium	TVS	TVS
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 37.5(4).		acute	chronic		Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 37.5(4).		Ammonia	TVS	TVS	Iron(T)	---	1000
*Uranium(acute) = See 37.5(3) for details.		Boron	---	0.75	Lead	TVS	TVS
*Uranium(chronic) = See 37.5(3) for details.		Chloride	---	250	Lead(T)	50	---
*Temperature =		Chlorine	0.019	0.011	Manganese	TVS	TVS/WS
DM=WS-II and MWAT=WS-II from 12/1-2/29		Cyanide	0.005	---	Mercury(T)	---	0.01
DM=31 and MWAT=WS-II from 3/1-11/30		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
					Uranium	varies*	varies*
					Zinc	TVS	TVS

  

17a. Rapid Creek, including all tributaries and wetlands, from its source to below the confluence with Cottonwood Creek (39.130512, -108.301028), including Krutzen Springs.							
COLCLC17A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
OW	Aq Life Cold 1 Recreation P 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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Copper	TVS	TVS
*Uranium(acute) = See 37.5(3) for details.		acute	chronic		Iron	---	WS
*Uranium(chronic) = See 37.5(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

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 37.6 for further details on applied standards.

# REGULATION #37 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower Colorado River

17b. Rapid Creek, including all tributaries and wetlands, from below the confluence with Cottonwood Creek (39.130512, -108.301028) to the confluence with the Colorado River.									
COLCLC17B	Classifications	Physical and Biological			Metals (ug/L)				
Designation	Agriculture	DM	MWAT	acute		chronic			
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Arsenic	340	---		
	Recreation P		acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---		
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS		
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					Copper	TVS	TVS		
*Uranium(acute) = See 37.5(3) for details.					Inorganic (mg/L)		Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.					acute	chronic	Iron(T)	---	1000
		Ammonia	TVS	TVS	Lead	TVS	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	---	

  

18. Mainstem of Little Dolores River, including all tributaries and wetlands, from its source to immediately below the confluence with Hay Press Creek.									
COLCLC18	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 P		acute	chronic	Arsenic(T)	---	0.02		
	Water Supply	D.O. (mg/L)	---	6.0	Cadmium	TVS(tr)	TVS		
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---		
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS		
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III(T)	50	---		
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	205	Chromium VI	TVS	TVS		
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>					Copper	TVS	TVS		
*Uranium(acute) = See 37.5(3) for details.					Inorganic (mg/L)		Iron	---	WS
*Uranium(chronic) = See 37.5(3) for details.					acute	chronic	Iron(T)	---	1000
*Temperature =		Ammonia	TVS	TVS	Lead	TVS	TVS	---	
DM=13.9 and MWAT=CS-I from 10/1-4/30		Boron	---	0.75	Lead(T)	50	---	---	
DM=24.4 and MWAT=CS-I from 5/1-9/30		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 37.6 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.

**EXHIBIT 7**  
**WATER QUALITY CONTROL DIVISION**

DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Water Quality Control Commission

REGULATION NO. 38 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR SOUTH PLATTE RIVER BASIN, LARAMIE RIVER BASIN, REPUBLICAN RIVER BASIN, SMOKY HILL RIVER BASIN

5 CCR 1002-38

*[Editor's Notes follow the text of the rules at the end of this CCR Document.]*

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**38.6 TABLES**

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(2) Abbreviations:

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(c) Temporary Modification for Water + Fish Chronic Arsenic Standard

- (i) The temporary modification for chronic arsenic standards applied to segments with an arsenic standard of 0.02 µg/l that has been set to protect the Water+Fish qualifier is listed in the temporary modification and qualifiers column as As(ch)=hybrid.
- (ii) For discharges existing on or before 6/1/2013, the temporary modification is: As(ch)=current condition, expiring on 12/31/~~2021~~2024. Where a permit for an existing discharge is reissued or modified while the temporary modification is in effect, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent.
- (iii) For new or increased discharges commencing on or after 6/1/2013, the temporary modification is: As(ch)=0.02-3.0 µg/l (Trec), expiring on 12/31/~~2021~~2024.
  - (a) The first number in the range is the health-based water quality standard previously adopted by the Commission for the segment.
  - (b) The second number in the range is a technology based value established by the Commission for the purpose of this temporary modification.
  - (c) 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.

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**38.99 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020; EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Pursuant to the requirements in the Basic Standards (at 31.7(3)), the commission reviewed the status of temporary modifications scheduled to expire before December 31, 2021 to determine whether the temporary modifications should be modified, eliminated, or extended.

For the temporary modifications set to expire after the effective date of this hearing, the commission reviewed progress toward resolving the uncertainty in the underlying standard and/or the extent to which conditions are a result of natural or anthropogenic conditions, and evaluated whether the temporary modifications were still necessary.

**A. Temporary Modifications for Standards Other than Arsenic**

The commission took no action on the following temporary modifications:

Upper South Platte Segment 15 (COSPUS15): temporary modifications of the chronic chloride, chronic sulfate, and acute and chronic temperature standards (expire 12/31/2020). Public Service Company of Colorado continues to make progress to resolve the uncertainty in the chloride and sulfate standards. Metro Wastewater Reclamation District continues to make progress to resolve the uncertainty in the temperature standard and is working to develop a proposal for a discharger specific variance in the June 2020 rulemaking hearing. The commission made no change to the expiration dates, as the original time allotment was deemed adequate to resolve the uncertainty.

Upper South Platte Segment 16g (COSPUS16g): temporary modification of the acute and chronic temperature standards, 12/1 to 2/29 (expires 12/31/2020). Centennial continues to make progress to resolve the uncertainty in the temperature standard. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

Clear Creek Segment 13b (COSPCL13b): temporary modification of the acute and chronic temperature standards (expires 12/30/2020). City of Black Hawk / Black Hawk Central City Sanitation District continues to make progress to resolve the uncertainty and to investigate what level of temperature reduction is technologically feasible to achieve. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

St. Vrain segments 6 and 7 (COSPSV06 and COSPSV07): temporary modifications of the chronic iron and acute and chronic manganese standards (expire 12/31/2020). Raytheon Boulder continues to make progress to resolve the uncertainty and is working to develop a proposal for site-specific standards in the June 2020 rulemaking hearing. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

Big Thompson River Segment 9 (COSPBT09): temporary modification of the chronic selenium standard (expires 12/31/2020). The Town of Milliken continues to make progress to resolve the

uncertainty. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

The commission modified the temporary modifications on the following segment:

Upper South Platte Segment 10a (COSPUS10a): temporary modification of the acute and chronic temperature standards, 12/1 to 2/29 (expires 12/31/2020). Plum Creek Water Reclamation Authority continues to make progress to resolve the uncertainty. The commission retained the Maximum Weekly Average Temperature temporary modification, but deleted the Daily Maximum (DM) temporary modification because instream temperature data show that the underlying Warm Stream Tier I (WS-I) DM temperature standard is being attained. The commission made no change to the expiration date, as the original time allotment was deemed adequate to resolve the uncertainty.

The commission deleted the temporary modifications on the following segments:

Upper South Platte Segment 14 (COSPUS14): temporary modification of the chronic chloride standard (expires 12/31/2020). The commission deleted this temporary modification because instream chloride data show that the underlying chloride standard is being attained.

Upper South Platte Segment 14 (COSPUS14): temporary modification of the acute and chronic temperature standards, 12/1 to 2/13 (expire 12/31/2020). The commission deleted this temporary modification because instream temperature data show that the underlying WS-I temperature standards are being attained.

Bear Creek Segment 1c (COSPBE01c): temporary modifications of the chronic chlorophyll a and phosphorus standards (12/31/2020). The commission deleted these temporary modifications because progress was not being made on the plan to resolve uncertainty and there are no existing permitted dischargers with demonstrated or predicted compliance problems for these parameters.

Boulder Creek Segment 9 (COSPBO09): temporary modification of the acute and chronic temperature standards, 12/1 to 2/29 (expires 12/31/2020). The commission deleted this temporary modification because instream temperature data show that the underlying Warm Stream Tier II (WS-II) temperature standards are being attained.

Cache la Poudre River Segment 11 (COSPCP11): temporary modification of the acute and chronic temperature standards, 12/1 to 2/29 (expires 12/31/2020). The commission deleted this temporary modification because instream temperature data show that the underlying WS-I temperature standards are being attained.

Cache la Poudre River Segment 12 (COSPCP12): temporary modification of the acute and chronic temperature standards (expires 12/31/2020). The commission deleted this temporary modification because instream temperature data show that the underlying WS-I temperature standards are being attained.

The commission took no action on temporary modifications that were set to expire on or before the effective date of this hearing. The commission deleted the following temporary modifications, which were allowed to expire:

Clear Creek segment 2a (acute and chronic zinc)  
Clear Creek segment 2c (chronic copper and chronic cadmium)

## B. Temporary Modifications for Arsenic

The temporary modification of the chronic arsenic standard, which applies to numerous segments with a standard of 0.02 µg/l to protect the Water + Fish use, was extended from 12/31/2021 to 12/31/2024. No changes were made to the temporary modification operative values at 38.6(2)(c). For discharges existing on or before 6/1/2013, the temporary modification remains at As(ch)=current condition. For new or increased discharges that commence on or after 6/1/2013, the temporary modification remains at 0.02–3.0 µg/L (total recoverable). The extension provides time to resolve the uncertainty in the underlying standard for arsenic to protect human health. Significant uncertainty remains regarding the appropriate standard to protect the use and the extent to which ambient levels of arsenic are the result of natural or irreversible conditions. In addition, there is widespread instream non-attainment of the underlying standard and predicted or demonstrated compliance problems with permit limits based on the underlying standard, as demonstrated in the division's Prehearing Statement (*to be determined*).

It is anticipated that the uncertainty regarding the appropriate underlying standard for arsenic to protect human health will be resolved by June 2024, with the adoption of new statewide arsenic use-based standards. The division presented [division's Prehearing Statement (*to be determined*)] a detailed plan to resolve the multifaceted uncertainty for arsenic. The plan includes conducting a field study to investigate the proportion of inorganic (versus total) arsenic in the tissue of fish collected from Colorado waters, deriving a bioaccumulation or bioconcentration factor for arsenic, appropriate for use in Colorado, and characterizing ambient levels of arsenic in surface waters and groundwater statewide. As discussed below, the division will also be gathering, through permit requirements, targeted data from facilities benefiting from the arsenic temporary modification. These data will help the division to better understand the contribution of arsenic in effluent from permitted facilities to ambient levels of arsenic in Colorado waters and will inform the extent to which ambient levels of arsenic are the result of natural or irreversible conditions.

Effluent arsenic concentration data from facilities throughout the state demonstrate that many facilities will likely have issues meeting effluent limits based on the anticipated revised arsenic water quality standard to protect human health. As a result, there is a widespread need to make progress to understand sources of arsenic and options for source control and treatment. To ensure such progress is made, when implementing the "current condition" temporary modification in permits, the division will include additional permit Terms and Conditions, which may include requirements for additional monitoring, source identification, and characterization of source control and treatment options for reducing arsenic concentrations in effluent. Under the duration of the temporary modification, facilities would not be required to implement facility improvements to meet a specified effluent limit; however, facilities may be required to evaluate arsenic source control and treatment options for their facility. For purposes of evaluating options to reduce arsenic concentrations in effluent, the arsenic treatment removal recognized in the 2013 Arsenic Rulemaking (3 µg/L) can be used as a point of reference until the uncertainty in the underlying standard is resolved. Implementation guidance for these requirements was included in the division's Prehearing Statement Exhibit (*to be determined*). These requirements are reasonable and would not cause undue economic burden for facilities, but will ensure that progress is being made toward future attainment of the underlying standards and protection of the classified uses. Implementation of these requirements would function to increase the amount of time facilities would have for long-term planning and encourage data collection that would facilitate implementation of the most appropriate source reduction and treatment options and selection of the most appropriate regulatory pathways once the new underlying standard is adopted for arsenic.

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

**5 CCR 1002-38**

**REGULATION NO. 38  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
SOUTH PLATTE RIVER BASIN, LARAMIE RIVER BASIN  
REPUBLICAN RIVER BASIN, SMOKY HILL RIVER BASIN**

**APPENDIX 38-1  
Stream Classifications and Water Quality Standards Tables**

Effective ~~06/30/2020~~06/30/2019

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

1a. Mainstem of the South Platte River from the source of the South and Middle Forks to the inlet of Cheesman Reservoir.							
COSPUS01A	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*	Aluminum	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
Other:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4). *Temperature = summer criteria apply from 4/1-10/31		D.O. (spawning)	---	7.0	Beryllium	---	
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	---	0.01(t)
		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	---	---		
			Zinc	TVS	TVS		

  

2a. All tributaries to the South Platte River system, including all wetlands from the headwaters of the South and Middle Forks to a point immediately below the confluence with Tarryall Creek except for specific listings in Segment 1b, 2b and 2c.							
COSPUS02A	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	Aluminum	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
Other:		D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		D.O. (spawning)	---	7.0	Beryllium	---	
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	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	---	0.01(t)
		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	---	---		
			Zinc	TVS	TVS		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

3. All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with Tarryall Creek to a point immediately above the confluence with the North Fork of the South Platte River, except for specific listings in Segment 1b.

COSPUS03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/20242024					Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

4. Mainstem of the North Fork of the South Platte River, including all tributaries and wetlands from the source to the confluence with the South Platte River, except for specific listings in Segments 1b, 5a, 5b, and 5c.

COSPUS04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Water Supply	DM	MWAT	acute		chronic	
Reviewable	Agriculture	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Aq Life Cold 1		acute	chronic	Arsenic	340	---
	Recreation E	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/20242024					Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

5b. Mainstem of Geneva Creek from the confluence with Scott Gomer Creek to the confluence with the North Fork of the South Platte River; all tributaries of Geneva Creek including wetlands from source to confluence with the North Fork of the South Platte River.

COSPUS05B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

6a. Mainstem of the South Platte River from the outlet of Cheesman Reservoir to the inlet of Chatfield Reservoir.

COSPUS06A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

8. Mainstems of East and West Plum Creek from the source to the boundary of National Forest lands, including all tributaries and wetlands within the Plum Creek drainage which are on National Forest Lands, except for the specific listing in Segment 9.

COSPUS08	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	Aluminum	---	---	
		Temperature °C	CS-I	CS-I	Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
					Chromium VI	TVS	TVS
					Copper	TVS	TVS
					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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

10a. Mainstems of East Plum Creek, West Plum Creek, and Plum Creek from the boundary of National Forest lands to Chatfield Reservoir, mainstems of Stark Creek and Gove Creek from the boundary of National Forest lands to their confluence.

COSPUS10A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Warm 1 Recreation E Water Supply	acute	chronic	Aluminum	---	---	
		Temperature °C	WS-I	WS-I	Arsenic	340	---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
temperature(DM/MWAT) = current condition*	12/1 - 2/29	Ammonia	TVS	TVS	Chromium VI	TVS	TVS
Expiration Date of 12/31/2020		Boron	---	0.75	Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Chloride	---	250	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Chlorine	0.019	0.011	Iron(T)	---	1000
*TempMod: temperature(12/1 - 2/29) = East Plum Creek and Plum Creek below the PCWRA discharge.		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	0.17*	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

12. Mainstem of Garber Creek and Jackson Creek from the boundary of National Forest lands to the confluence with West Plum Creek; mainstem of Bear Creek from the outlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir, to the confluence with West Plum Creek.

COSPUS12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I	WS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		Inorganic (mg/L)			Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u>			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	0.17	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

13. Mainstem of Deer Creek, including the North and South Forks, from the source to Chatfield Reservoir.

COSPUS13	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u>		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

14. Mainstem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado.							
COSPUS14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 1	Temperature °C	WS-I*	WS-I*	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
Qualifiers:		pH	6.5 - 9.0	---	Beryllium	---	---
Other:  Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2021</del> <u>2024</u> <del>Chloride(chronic) = current condition</del> <del>temperature(DM/MWAT) = current condition</del> 12/1 - 2/13 <del>Expiration Date of 12/31/2020</del>  *Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=31.5 ug/l downstream of Marcy Gulch. *Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=20.8 ug/l downstream of Marcy Gulch. *Temperature = summer criteria apply from 2/14 - 11/30		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	---	TVS*
		Chloride	---	250	Copper	TVS*	---
		Chlorine	0.019	0.011	Iron	---	WS
		Cyanide	0.005	---	Iron(T)	---	1000
		Nitrate	10	---	Lead	TVS	TVS
		Nitrite	---	0.5	Lead(T)	50	---
		Phosphorus	---	---	Manganese	TVS	TVS/190
		Sulfate	---	WS	Mercury	---	0.01(t)
		Sulfide	---	0.002	Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16b. Aurora Reservoir.							
COSPUS16B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Warm 1 Recreation E Water Supply DUWS	Temperature °C	WL	WL	Aluminum	acute	chronic
Qualifiers:			acute	chronic	Arsenic	---	---
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2021</del> 2024	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (ug/L)	---	---	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

16g. Marcy Gulch, including all wetlands from the source to the confluence with the South Platte.							
COSPUS16G	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
UP	Aq Life Warm 2 Recreation E	Temperature °C	WS-II	WS-II	Aluminum	acute	chronic
Qualifiers:			acute	chronic	Arsenic	---	---
Other:	Temporary Modification(s): temperature(DM/MWAT) = current condition* Expiration Date of 12/31/2020 12/1 - 2/29 *Copper(acute) = Copper BLM-based FMB Cu FMB(ac)=67.1 ug/l below the Centennial WWTF. *Copper(chronic) = Copper BLM-based FMB Cu FMB(ch)=43.3 ug/l below the Centennial WWTF. *Selenium(acute) = See section 38.6(4)(b) for assessment locations. *Selenium(chronic) = See section 38.6(4)(b) for assessment locations. *TempMod: temperature(12/1 - 2/29) = downstream of Centennial WWTF	D.O. (mg/L)	---	5.0	Arsenic(T)	---	100
		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III	TVS	TVS
		Inorganic (mg/L)			Chromium III(T)	---	100
			acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	---	TVS*
		Boron	---	0.75	Copper	TVS*	---
		Chloride	---	---	Iron(T)	---	1000
		Chlorine	0.019	0.011	Lead	TVS	TVS
		Cyanide	0.005	---	Manganese	TVS	TVS
		Nitrate	100	---	Mercury	---	0.01(t)
		Nitrite	---	0.5	Molybdenum(T)	---	---
		Phosphorus	---	---	Nickel	TVS	TVS
		Sulfate	---	---	Selenium	21*	13*
		Sulfide	---	0.002	Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

22a. Lakes and reservoirs in watersheds tributary to the South Platte River from the outlet of Chatfield Reservoir to a point immediately below the confluence with Big Dry Creek, except for specific listings in the subbasins of the South Platte River, and in Segments 16b, 17a, 17b, 17c, 22b, and 23.							
COSPUS22A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Warm 2 Recreation E Water Supply DUWS*	DM	MWAT	acute		chronic	
Reviewable		WL	WL	Aluminum	---	---	
		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
Qualifiers:		pH	6.5 - 9.0	---	Beryllium	---	
Water + Fish Standards		chlorophyll a (ug/L)	---	---	Cadmium	TVS TVS	
Other:		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0 ---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <a href="#">2024</a> *Classification: DUWS applies to McLellan and Quincy only. *Molybdenum(T)(chronic) = 210 ug/L for McLellan Reservoir		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Molybdenum(T)	---	210*
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

## UPPER SOUTH PLATTE RIVER SEGMENT 15

### Site-Specific Minimum Dissolved Oxygen and Ammonia Standards

#### UNDERLYING STANDARDS

##### Dissolved Oxygen

###### Early Life Stage Protection Period (April 1 through July 31)

1-Day<sup>1,5,6</sup> 3.0 mg/L (acute)

7-Day Average<sup>1,2,4</sup> 5.0 mg/L

###### Older Life Stage Protection Period (August 1 through March 31)

1-Day<sup>1,5</sup> 2.0 mg/L (acute)

7-Day Mean of Minimums<sup>1,3</sup> 2.5 mg/L

30-Day Average<sup>1,2</sup> 4.5 mg/L

#### TEMPORARY MODIFICATION

During the period until October 31, 2001, the Segment 15 dissolved oxygen standards from 88<sup>th</sup> Avenue north to the end of the Segment shall be the currently existing ambient conditions as monitored in 1992, 1993, and 1994 by the Division and by the Metro District. Beginning November 1, 2001, the standards shall apply to all sections of Segment 15 south of the Brighton Ditch diversion. The standards north of the Brighton Ditch diversion shall continue to be the ambient conditions existing in 1992, 1993, and 1994. Beginning November 1, 2004, the standards shall apply to all sections of Segment 15.

Refer to Section 38(6)(4)(c) for Dissolved Oxygen assessment locations.

#### Footnotes

1. For the purposes of determining compliance with the standards, dissolved oxygen measurements shall only be taken in the flowing portion of the stream at mid-depth, and at least six inches above the bottom of the channel. All sampling protocols and test procedures shall be in accordance with procedures and protocols approved by the Division.
2. A minimum of four independent daily means must be used to calculate the average for the 7-Day Average standard. A minimum of eight independent daily means must be used to calculate the

average for the 30-Day Average standard. The four days and the eight days must be representative of the 7-Day and the 30-Day periods respectively. The daily means shall be the mean of the daily high and low values. In calculating the mean values, the dissolved oxygen saturation value shall be used in place of any dissolved oxygen measurements which exceed saturation.

3. The 7-Day Mean minimum is the average of the daily minimums measured at the location on each day during any 7-Day period.
4. North of the Lupton Bottoms Ditch diversion, the ELS 7-Day average standards for the period July 1 – June 31 shall be 4.6 mg/L.
5. During a 24 hour day dissolved oxygen levels are likely to be lower during the nighttime when there is no photosynthesis. The dissolved oxygen levels should not drop below the acute standard (ELS acute standard of 3.0 mg/L or the OLS standards of 2.0 mg/L). However, if during the ELS period multiple measurements are below 3.0 mg/L during the same nighttime period, the multiple measurements shall be considered a single exceedance of the acute standard. For measurements below 2.0 mg/L during either the ELS or the OLS periods, each hourly measurement below 2.0 mg/L shall be considered an exceedance of the acute standards.
6. In July, the dissolved oxygen level in Segment 15 may be lower than the 3.0 mg/L acute standard for up to 14 exceedances in any one year and up to a total of 21 exceedances in three years before there is a determination that the acute dissolved oxygen standards is not being met. Exceedances shall be counted as described in Footnote 5.

Ammonia:

Early Life Stage Protection Period (April 1 through July 31)

Ammonia

Warm Water = (mg/l as N) Total

$$acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$$

$$chronic (Apr 1 - July 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left( 2.85, 1.45 * 10^{0.028(25 - T)} \right)$$

$$chronic (Aug 1 - Mar 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$$

NH<sub>3</sub> = old TVS

Warm Water Acute = 0.62/FT/FPH/2<sup>(4 old)</sup> in mg/ (N)



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

1a. Mainstem of Bear Creek from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake.						
COSPBE01A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	acute	chronic
Qualifiers:			acute	chronic		
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	D.O. (mg/L)		6.0	---	---
		D.O. (spawning)		7.0	---	---
		pH	6.5 - 9.0	---	TVS(tr)	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	5.0	---
		E. Coli (per 100 mL)	---	126	---	TVS
Qualifiers:		Inorganic (mg/L)				
Other:	*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		acute	chronic		
		Ammonia	TVS	TVS	TVS	TVS
		Boron	---	0.75	---	WS
		Chloride	---	250	TVS	TVS
		Chlorine	0.019	0.011	50	---
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.11*	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS
1b. Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir.						
COSPBE01B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 2 Recreation E Water Supply	Temperature °C	11/1 - 3/31	CS-II	CS-II	acute
Reviewable	Aq Life Cold 2 Recreation E Water Supply	Temperature °C	4/1 - 10/31	CS-II	19.3	chronic
Qualifiers:			acute	chronic		
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	D.O. (mg/L)		6.0	---	---
		D.O. (spawning)		7.0	---	---
		pH	6.5 - 9.0	---	TVS(tr)	TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	---	5.0	---
		E. Coli (per 100 mL)	---	126	---	TVS
Qualifiers:		Inorganic (mg/L)				
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		acute	chronic		
		Ammonia	TVS	TVS	TVS	TVS
		Boron	---	0.75	---	WS
		Chloride	---	250	TVS	TVS/WS
		Chlorine	0.019	0.011	50	0.01(t)
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	---	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

1c. Bear Creek Reservoir.								
COSPBE01C	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	1/1 - 3/31	CLL	CLL	Aluminum	---	---
		Temperature °C	4/1 - 12/31	CLL	23.3	Arsenic	340	---
						Arsenic(T)	---	0.02
Qualifiers:			acute	chronic		Beryllium	---	---
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 12/31/2024		chlorophyll a (ug/L)	7/1 - 9/30	---	12.2*	Chromium III(T)	50	---
chlorophyll a (ug/L)(chronic) = current condition		E. Coli (per 100 mL)	---	126		Chromium VI	TVS	TVS
Phosphorus(chronic) = current condition						Copper	TVS	TVS
Expiration Date of 12/31/2020						Iron	---	WS
						Iron(T)	---	1000
						Lead	TVS	TVS
						Lead(T)	50	---
						Manganese	TVS	TVS/WS
						Mercury	---	0.01(t)
						Molybdenum(T)	---	150
						Nickel	TVS	TVS
						Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						Zinc	TVS	TVS

1e. Mainstem of Bear Creek from the outlet of Evergreen Lake to the Harriman Ditch.								
COSPBE01E	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	11/1 - 3/31	CS-II	CS-II	Aluminum	---	---
		Temperature °C	4/1 - 10/31	CS-II	19.3	Arsenic	340	---
						Arsenic(T)	---	0.02
Qualifiers:			acute	chronic		Beryllium	---	---
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 12/31/2024		chlorophyll a (mg/m <sup>2</sup> )	---	---		Chromium III(T)	50	---
		E. Coli (per 100 mL)	---	126		Chromium VI	TVS	TVS
						Copper	TVS	TVS
						Iron	---	WS
						Iron(T)	---	1000
						Lead	TVS	TVS
						Lead(T)	50	---
						Manganese	TVS	TVS/WS
						Mercury	---	0.01(t)
						Molybdenum(T)	---	150
						Nickel	TVS	TVS
						Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

2. Mainstem of Bear Creek from the outlet of Bear Creek Reservoir to the confluence with the South Platte River.						
COSPBE02	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50
		Ammonia	TVS	TVS	Chromium VI	TVS
		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	---	0.5	Manganese	TVS
		Phosphorus	---	---	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

  

3. All tributaries to Bear Creek, including all wetlands, from the source to the outlet of Evergreen Lake. Except for specific listings in Segment 7.						
COSPBE03	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III(T)	50
			acute	chronic	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.05	Mercury	---
		Phosphorus	---	0.11*	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

4a. All tributaries to Bear Creek, including all wetlands, from the outlet of Evergreen Lake to the confluence with the South Platte River, except for specific listings in Segments 5, 6a, and 6b.								
COSPBE04A	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture	DM	MWAT	acute      chronic				
Reviewable	Aq Life Warm 2 Recreation E Water Supply	WS-I	WS-I	Aluminum	---	---		
Qualifiers:		acute	chronic	Arsenic	340	---		
Water + Fish Standards		Temperature °C	---	5.0	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	5.0	Beryllium	---	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		Inorganic (mg/L)			Chromium III	---	TVS	
		acute	chronic	pH	6.5 - 9.0	---	Chromium III(T)	50
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Chromium VI	TVS	TVS	
		Boron	---	0.75	Copper	TVS	TVS	TVS
		Chloride	---	250	Iron	---	WS	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000	1000
		Cyanide	0.005	---	Lead	TVS	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150	150
		Sulfide	---	0.002	Nickel	TVS	TVS	TVS
					Nickel(T)	---	100	100
					Selenium	TVS	TVS	TVS
					Silver	TVS	TVS	TVS
					Uranium	---	---	---
					Zinc	TVS	TVS	TVS
		5. Swede, Kerr, Sawmill, Troublesome, and Cold Springs Gulches, and mainstem of Cub Creek from the source to the confluence with Bear Creek.						
		COSPBE05	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic				
Reviewable	Aq Life Cold 2 Recreation E Water Supply	CS-II	CS-II	Aluminum	---	---		
Qualifiers:		acute	chronic	Arsenic	340	---		
Water + Fish Standards		Temperature °C	---	6.0	Arsenic(T)	---	0.02	
Other:		D.O. (mg/L)	---	6.0	Beryllium	---	---	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024		Inorganic (mg/L)			Chromium III	---	TVS	
		acute	chronic	D.O. (spawning)	---	7.0	Chromium III(T)	50
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Chromium VI	TVS	TVS	
		Boron	---	0.75	Copper	TVS	TVS	TVS
		Chloride	---	250	Iron	---	WS	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000	1000
		Cyanide	0.005	---	Lead	TVS	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---	---
		Nitrite	---	0.05	Manganese	TVS	TVS/WS	TVS/WS
		Phosphorus	---	0.11*	Mercury	---	0.01(t)	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150	150
		Sulfide	---	0.002	Nickel	TVS	TVS	TVS
					Nickel(T)	---	100	100
					Selenium	TVS	TVS	TVS
					Silver	TVS	TVS(tr)	TVS(tr)
					Uranium	---	---	---
					Zinc	TVS	TVS	TVS

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

11. Lakes and reservoirs in the Bear Creek system from the outlet of Evergreen Lake to the confluence with the South Platte River, except as specified in Segments 1c, 10, and 12; includes Soda Lakes.

COSPBE11	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT		acute	chronic
Reviewable	Agriculture		WL	WL	Aluminum	---	---
	Aq Life Warm 2	Temperature °C			Arsenic	340	---
	Recreation E		acute	chronic	Arsenic(T)	---	0.02
	Water Supply	D.O. (mg/L)	---	5.0	Beryllium	---	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Cadmium	TVS	TVS
<b>Water + Fish Standards</b>		chlorophyll a (ug/L)	---	---	Cadmium(T)	5.0	---
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
Arsenic(chronic) = hybrid			acute	chronic	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		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	---	0.5	Mercury	---	0.01(t)
		Phosphorus	---	---	Molybdenum(T)	---	150
		Sulfate	---	WS	Nickel	TVS	TVS
		Sulfide	---	0.002	Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

1. Mainstem of Clear Creek, including all tributaries and wetlands, from the source to the I-70 bridge above Silver Plume.						
COSPCL01	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT		
Reviewable*			CS-I	CS-I		
			acute	chronic		
Qualifiers:						
Other:						
Agriculture						
Aq Life Cold 1	Temperature °C		CS-I	CS-I	Aluminum	---
Recreation E					Arsenic	---
Water Supply					Arsenic(T)	340
	D.O. (mg/L)		---	6.0	Beryllium	---
	D.O. (spawning)		---	7.0	Cadmium	TVS(tr)
	pH		6.5 - 9.0	---	Cadmium(T)	5.0
	chlorophyll a (mg/m <sup>2</sup> )		---	150*	Chromium III	---
	E. Coli (per 100 mL)		---	126	Chromium III(T)	50
					Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).  
 \*Designation: 9/30/00 Baseline does not apply  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

2a. Mainstem of Clear Creek, including all tributaries and wetlands, from the I-70 bridge above Silver Plume to a point just above the confluence with West Fork Clear Creek, except for specific listings in Segments 3a and 3b.						
COSPCL02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		
Reviewable*	Aq Life Cold 1	CS-I	CS-I	acute	chronic	chronic
	Recreation E	Temperature °C		Aluminum	---	---
	Water Supply			Arsenic	340	---
		D.O. (mg/L)	---	6.0	Arsenic(T)	---
		D.O. (spawning)	---	7.0	Beryllium	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0
		E. Coli (per 100 mL)	---	126	Chromium III	---
					Chromium III(T)	50
					Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	---
					Zinc	SSE*

**Qualifiers:**

**Other:**

Temporary Modification(s):  
 Arsenic(chronic) = hybrid  
 Expiration Date of 12/31/~~2021~~2024  
~~Zinc(acute) = 586~~  
~~Zinc(chronic) = 353~~  
~~Expiration Date of 7/1/2020~~

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).  
 \*Designation: 9/30/00 Baseline does not apply  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  
 \*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)  
 \*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

2c. Mainstem of Clear Creek, including all tributaries and wetlands, from a point just below the confluence with Mill Creek to a point just above the Argo Tunnel discharge, except for specific listings in Segments 9a, 9b, and 10.						
COSPCL02C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---
	Recreation E	acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---
Expiration Date of 12/31/ <del>2021</del> 2024					Chromium III(T)	50
<del>Cadmium(chronic) = current condition</del>		Inorganic (mg/L)			Chromium VI	TVS
<del>Copper(chronic) = current condition</del>		acute	chronic	Copper	TVS	TVS
<del>Expiration Date of 7/1/2020</del>		Ammonia	TVS	TVS	Iron	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---
*Designation: 9/30/00 Baseline does not apply		Chloride	---	250	Lead	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Chlorine	0.019	0.011	Lead(T)	50
*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)		Cyanide	0.005	---	Manganese	TVS
*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)		Nitrate	10	---	Mercury	---
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.11*	Nickel	TVS
		Sulfate	---	WS	Nickel(T)	---
		Sulfide	---	0.002	Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	---
					Zinc	SSE*
					Zinc	SSE*

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

3a. Mainstem of South Clear Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for the specific listings in Segments 3b and 19.						
COSPCL03A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable*	Aq Life Cold 1	CS-I	CS-I			
	Recreation E	acute	chronic			
	Water Supply					
Qualifiers:						
Other:						
Temporary Modification(s):						
Arsenic(chronic) = hybrid						
Expiration Date of 12/31/ <del>2024</del> 2024						
*Designation: 9/30/00 Baseline does not apply						
*Zinc(acute) = $0.978e^{(0.8537[\ln(\text{hardness})]+1.9467)}$						
*Zinc(chronic) = $0.986e^{(0.8537[\ln(\text{hardness})]+1.8032)}$						
		Inorganic (mg/L)				
		acute	chronic			
	Ammonia	TVS	TVS	Aluminum	---	---
	Boron	---	0.75	Arsenic	340	---
	Chloride	---	250	Arsenic(T)	---	0.02
	Chlorine	0.019	0.011	Beryllium	---	---
	Cyanide	0.005	---	Cadmium	TVS(tr)	TVS
	Nitrate	10	---	Cadmium(T)	5.0	---
	Nitrite	---	0.05	Chromium III	---	TVS
	Phosphorus	---	0.11	Chromium III(T)	50	---
	Sulfate	---	WS	Chromium VI	TVS	TVS
	Sulfide	---	0.002	Copper	TVS	TVS
				Iron	---	WS
				Iron(T)	---	1000
				Lead	TVS	TVS
				Lead(T)	50	---
				Manganese	TVS	TVSWS
				Mercury	---	0.01(t)
				Molybdenum(T)	---	150
				Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS(tr)
				Uranium	---	---
				Zinc	---	SSE*
				Zinc	SSE*	---

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

6. All tributaries to West Fork Clear Creek, including all wetlands, from the source to the confluence with Clear Creek, except for specific listings in Segments 7a and 8.							
COSPCL06	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	Aluminum	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>  *Designation: 9/30/00 Baseline does not apply	D.O. (spawning)	---	7.0	Beryllium	---	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Inorganic (mg/L)		acute	chronic	Cadmium(T)	5.0	---	
		Ammonia	TVS	TVS	Chromium III	---	TVS
Boron	---	0.75	Chromium III(T)	50	---		
Chloride	---	250	Chromium VI	TVS	TVS		
Chlorine	0.019	0.011	Copper	TVS	TVS		
Cyanide	0.005	---	Iron	---	WS		
Nitrate	10	---	Iron(T)	---	1000		
Nitrite	---	0.05	Lead	TVS	TVS		
Phosphorus	---	0.11	Lead(T)	50	---		
Sulfate	---	WS	Manganese	TVS	TVS/WS		
Sulfide	---	0.002	Mercury	---	0.01(t)		
			Molybdenum(T)	---	150		
			Nickel	TVS	TVS		
			Nickel(T)	---	100		
			Selenium	TVS	TVS		
			Silver	TVS	TVS(tr)		
			Uranium	---	---		
			Zinc	TVS	TVS		

  

9a. Mainstem of Fall River, including all tributaries and wetlands, from the source to the confluence with Clear Creek.							
COSPCL09A	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	Aluminum	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
		D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Designation: 9/30/00 Baseline does not apply *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	D.O. (spawning)	---	7.0	Beryllium	---	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Inorganic (mg/L)		acute	chronic	Cadmium(T)	5.0	---	
		Ammonia	TVS	TVS	Chromium III	---	TVS
Boron	---	0.75	Chromium III(T)	50	---		
Chloride	---	250	Chromium VI	TVS	TVS		
Chlorine	0.019	0.011	Copper	TVS	TVS		
Cyanide	0.005	---	Iron	---	WS		
Nitrate	10	---	Iron(T)	---	1000		
Nitrite	---	0.05	Lead	TVS	TVS		
Phosphorus	---	0.11*	Lead(T)	50	---		
Sulfate	---	WS	Manganese	TVS	TVS/WS		
Sulfide	---	0.002	Mercury	---	0.01(t)		
			Molybdenum(T)	---	150		
			Nickel	TVS	TVS		
			Nickel(T)	---	100		
			Selenium	TVS	TVS		
			Silver	TVS	TVS(tr)		
			Uranium	---	---		
			Zinc	TVS	TVS		

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Clear Creek Basin

10. Mainstem of Chicago Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for specific listings in Segment 19.						
COSPCL10	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable*	Aq Life Cold 1	CS-I	CS-I	---	---	
	Recreation E	acute	chronic	Aluminum	---	---
	Water Supply	---	6.0	Arsenic	340	---
Qualifiers:	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
Other:	D.O. (spawning)	---	7.0	Beryllium	---	---
Temporary Modification(s):	pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Arsenic(chronic) = hybrid	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Expiration Date of 12/31/ <del>2024</del> 2024	E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).	Inorganic (mg/L)			Chromium III(T)	50	---
*Designation: 9/30/00 Baseline does not apply		acute	chronic	Chromium VI	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	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	TVSWS
	Nitrite	---	0.05	Mercury	---	0.01(t)
	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	---	---
				Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

11. Mainstem of Clear Creek from a point just above the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado.							
COSPCL11	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
UP	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	---
					Chromium VI	TVS	TVS
					Copper	---	17
*Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)					Iron	---	WS
*Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)					Iron(T)	---	1000
					Lead	TVS	TVS
					Lead(T)	50	---
					Manganese	TVS	TVS/WS
					Mercury	---	0.01(t)
					Molybdenum(T)	---	150
					Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					Zinc	---	SSE*
					Zinc	SSE*	---

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

12b. Beaver Brook from the source to Highway 40.							
COSPCL12B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	
	Recreation E		acute	chronic	Arsenic	340	
Water Supply		D.O. (mg/L)	---	6.0	Beryllium	---	
		D.O. (spawning)	---	7.0	Cadmium	TVS(tr)	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium(T)	5.0	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	chlorophyll a (mg/m <sup>2</sup> )	---	150	Chromium III	---	
		E. Coli (per 100 mL)	---	126	Chromium III(T)	50	
*Designation: 9/30/00 Baseline does not apply		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

13a. Mainstem of North Clear Creek, including all tributaries and wetlands, from its source to its confluence with Chase Gulch, and Four Mile Gulch, including all tributaries and wetlands, from their sources to their confluence with North Clear Creek and Eureka Gulch, including all tributaries and wetlands, from its source to its confluence with Gregory Gulch.							
COSPCL13A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable*	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	
	Recreation E		acute	chronic	Arsenic	340	
Water Supply		D.O. (mg/L)	---	6.0	Arsenic(T)	---	
		D.O. (spawning)	---	7.0	Beryllium	---	
Qualifiers:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	
		E. Coli (per 100 mL)	---	126	Chromium III	---	
*Designation: 9/30/00 Baseline does not apply		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

13b. Mainstem of North Clear Creek including all tributaries and wetlands from a point just below the confluence with Chase Gulch to the confluence with Clear Creek, except for the specific listings in Segment 13a.

COSPCL13B	Classifications	Physical and Biological			Metals (ug/L)	
		DM	MWAT	acute	chronic	
UP	Agriculture					
	Aq Life Cold 2 Recreation E	Temperature °C	CS-I	CS-I	Aluminum	---
			<b>acute</b>	<b>chronic</b>	Arsenic	340
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Arsenic(T)	---
<b>Other:</b> Temporary Modification(s): temperature(DM/MWAT) = current condition Expiration Date of 12/31/2020  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		D.O. (spawning)	---	7.0	Beryllium	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Chromium III	TVS
		E. Coli (per 100 mL)	---	126	Chromium III(T)	---
					Chromium VI	TVS
					Copper	---
					Iron(T)	---
					Lead	TVS
					Manganese	TVS
					Mercury	---
					Molybdenum(T)	---
					Nickel	TVS
					Selenium	TVS
					Silver	TVS
					Uranium	---
				Zinc	---	
				Sulfate	---	
				Sulfide	---	

14b. Mainstem of Clear Creek from the Denver Water conduit #16 crossing to a point just below Youngfield Street in Wheat Ridge, Colorado.

COSPCL14B	Classifications	Physical and Biological			Metals (ug/L)	
		DM	MWAT	acute	chronic	
UP	Agriculture					
	Aq Life Warm 2 Recreation E Water Supply	Temperature °C	WS-II	WS-II	Aluminum	---
			<b>acute</b>	<b>chronic</b>	Arsenic	340
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Water + Fish Standards</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> 2024  *Zinc(acute) = TVS x (times) the FWER (final water effect ratio). Expiration date of 12/31/20. *Zinc(chronic) = TVS x (times) the FWER (final water effect ratio). Expiration date of 12/31/20.		pH	6.5 - 9.0	---	Beryllium	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
					Chromium III	---
					Chromium III(T)	50
					Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury	---
					Molybdenum(T)	---
					Nickel	TVS
				Nickel(T)	---	
				Selenium	TVS	
				Silver	TVS	
				Uranium	---	
				Zinc	TVSx1.57*	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

15. Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River.						
COSPCL15	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Warm 1*	acute	chronic	acute	chronic	
	Recreation E	Temperature °C	WS-II	WS-II	Aluminum	---
	Water Supply				Arsenic	340
<b>Qualifiers:</b>		D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Other:</b>		pH	6.5 - 9.0	---	Beryllium	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III	---
*Classification: Aquatic life warm 1 goal qualifier.					Chromium III(T)	50
*Zinc(acute) = TVS x (times) the FWER (final water effect ratio).					Chromium VI	TVS
Expiration date of 12/31/20.		Ammonia	TVS	TVS	Copper	TVS
*Zinc(chronic) = TVS x (times) the FWER (final water effect ratio).		Boron	---	0.75	Iron	---
Expiration date of 12/31/20.		Chloride	---	250	Iron(T)	1000
Expiration date of 12/31/20.		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.5	Mercury	---
		Phosphorus	---	---	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVSx1.57*
						TVSx1.57*

  

17b. Mainstem of Ralston Creek, including all tributaries and wetlands, from the source to the inlet of Arvada Reservoir.						
COSPCL17B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 2	acute	chronic	acute	chronic	
	Recreation U	Temperature °C	CS-II	CS-II	Aluminum	---
	Water Supply				Arsenic	340
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Arsenic(T)	---
<b>Water + Fish Standards</b>		D.O. (spawning)	---	7.0	Beryllium	0.02
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	---
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	TVS(tr)
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	TVS
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III(T)	50
					Chromium VI	---
					Copper	TVS
		Ammonia	TVS	TVS	Iron	TVS
		Boron	---	0.75	Iron(T)	---
		Chloride	---	250	Lead	WS
		Chlorine	0.019	0.011	Lead(T)	1000
		Cyanide	0.005	---	Manganese	TVS
		Nitrate	10	---	Mercury	TVS/WS
		Nitrite	---	0.05	Molybdenum(T)	---
		Phosphorus	---	0.11	Nickel	---
		Sulfate	---	WS	Nickel(T)	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	TVS(tr)
					Zinc	---
						TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.





# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Dry Creek Basin

2. Standley Lake.							
COSPBD02	Classifications	Physical and Biological			Metals (ug/L)		
Designation		DM	MWAT		acute	chronic	
Reviewable	Agriculture						
	Aq Life Warm 1	Temperature °C	WL	WL	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
DUWS		pH	6.5 - 9.0	---	Beryllium	---	4.0
		chlorophyll a (ug/L)	---	4.0*	Cadmium	TVS	TVS
<b>Qualifiers:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
<b>Other:</b>		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Temporary Modification(s):			acute	chronic	Chromium III(T)	50	---
Arsenic(chronic) = hybrid		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
Expiration Date of 12/31/ <del>2021</del> 2024		Boron	---	0.75	Copper	TVS	TVS
*chlorophyll a (ug/L)(chronic) = The trophic status of Standley Lake shall be maintained as mesotrophic as measured by a combination of common indicator parameters such as total phosphorus, chlorophyll a, secchi depth, and dissolved oxygen. Refer to Section 38.6(4)(e). *Uranium(T)(chronic) = 3(t) Picocuries/Liter. See attached table 2 for additional standards for segment 2.		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
			Silver	TVS	TVS		
			Uranium	---	---		
			Uranium(T)	---	3*		
			Zinc	TVS	TVS		

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

1. All tributaries to Boulder Creek, including all wetlands, within the Indian Peaks and James Peak Wilderness Areas.						
COSPBO01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---
	Recreation E Water Supply	acute	chronic	Arsenic	340      ---	
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> 2024		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02
		D.O. (spawning)	---	7.0	Beryllium	---      ---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0      ---
		E. Coli (per 100 mL)	---	126	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	---      0.01(t)	
	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	---      ---		
			Zinc	TVS      TVS		

  

2a. Mainstem of Boulder Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area to a point immediately below the confluence with North Boulder Creek, except for the specific listings in Segment 3.						
COSPBO02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---
	Recreation E Water Supply	acute	chronic	Arsenic	340      ---	
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> 2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		D.O. (mg/L)	---	6.0	Arsenic(T)	---      0.02
		D.O. (spawning)	---	7.0	Beryllium	---      ---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)      TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0      ---
		E. Coli (per 100 mL)	---	126	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	---      0.01(t)	
	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	---      ---		
			Zinc	TVS      TVS		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

2b. Mainstem of Boulder Creek, including all tributaries and wetlands, from a point immediately below the confluence with North Boulder Creek to a point immediately above the confluence with South Boulder Creek.							
COSPBO02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	Aluminum	---	---	
Qualifiers:		Temperature °C	CS-II	CS-II	Arsenic	---	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/20242024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
		D.O. (spawning)	---	7.0	Beryllium	---	
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	
		E. Coli (per 100 mL)	---	126	Chromium III	---	
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	
		Boron	---	0.75	Iron	---	
		Chloride	---	250	Iron(T)	---	
		Chlorine	0.019	0.011	Lead	TVS	
		Cyanide	0.005	---	Lead(T)	50	
		Nitrate	10	---	Manganese	TVS	
		Nitrite	---	0.05	Mercury	---	
		Phosphorus	---	0.11*	Molybdenum(T)	---	
		Sulfate	---	WS	Nickel	TVS	
		Sulfide	---	0.002	Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	

  

3. Mainstem of Middle Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Barker Reservoir, except for specific listings in Segment 1.							
COSPBO03	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute      chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply	acute	chronic	Aluminum	---	---	
Qualifiers:		Temperature °C	CS-I	CS-I	Arsenic	---	
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/20242024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
		D.O. (spawning)	---	7.0	Beryllium	---	
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	
		E. Coli (per 100 mL)	---	126	Chromium III	---	
		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	
		Boron	---	0.75	Iron	---	
		Chloride	---	250	Iron(T)	---	
		Chlorine	0.019	0.011	Lead	TVS	
		Cyanide	0.005	---	Lead(T)	50	
		Nitrate	10	---	Manganese	TVS	
		Nitrite	---	0.05	Mercury	---	
		Phosphorus	---	0.11*	Molybdenum(T)	---	
		Sulfate	---	WS	Nickel	TVS	
		Sulfide	---	0.002	Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

4a. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Gross Reservoir except for specific listings in Segment 1.							
COSPBO04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	
		Boron	---	0.75	Iron	---	
		Chloride	---	250	Iron(T)	---	
		Chlorine	0.019	0.011	Lead	TVS	
		Cyanide	0.005	---	Lead(T)	50	
		Nitrate	10	---	Manganese	TVS	
		Nitrite	---	0.05	Mercury	---	
		Phosphorus	---	0.11	Molybdenum(T)	---	
		Sulfate	---	WS	Nickel	TVS	
		Sulfide	---	0.002	Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	
						TVS	

  

4b. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the outlet of Gross Reservoir to South Boulder Road, except for specific listings in Segments 4c and 4d.							
COSPBO04B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>		Inorganic (mg/L)			Chromium III(T)	50	---
		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	TVS	Copper	TVS	
		Boron	---	0.75	Iron	---	
		Chloride	---	250	Iron(T)	---	
		Chlorine	0.019	0.011	Lead	TVS	
		Cyanide	0.005	---	Lead(T)	50	
		Nitrate	10	---	Manganese	TVS	
		Nitrite	---	0.05	Mercury	---	
		Phosphorus	---	0.11*	Molybdenum(T)	---	
		Sulfate	---	WS	Nickel	TVS	
		Sulfide	---	0.002	Nickel(T)	---	
					Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	
						TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Boulder Creek Basin

5. Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek.							
COSPBO05	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

7a. Mainstem of Coal Creek from Highway 93 to Highway 36 (Boulder Turnpike).							
COSPBO07A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	0.17	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

9. Mainstem of Boulder Creek from a point immediately above the confluence with South Boulder Creek to the confluence with Coal Creek.							
COSPBO09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50	---
temperature(DM/MWAT) = current condition		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
Expiration Date of 12/31/2020		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

10. Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek.							
COSPBO10	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable	Aq Life Warm 1	Temperature °C	WS-II	WS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Expiration Date of 12/31/ <del>2024</del> 2024			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

14. All lakes and reservoirs tributary to Boulder Creek from the source to a point immediately above the South Boulder Creek confluence, except as specified in Segment 13. This segment includes Barker and Lakewood Reservoir.

COSPBO14	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute chronic			
Reviewable	Aq Life Cold 1 Recreation E Water Supply DUWS*	CL,CLL	CL,CLL	Aluminum	---	---	
Qualifiers:		acute	chronic	Arsenic	340	---	
Other:		D.O. (mg/L)	6.0	Arsenic(T)	---	0.02	
Temporary Modification(s):		D.O. (spawning)	7.0	Beryllium	---	---	
Arsenic(chronic) = hybrid		pH	6.5 - 9.0	Cadmium	TVS(tr)	TVS	
Expiration Date of 12/31/2024		chlorophyll a (ug/L)	8*	Cadmium(T)	5.0	---	
*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		E. Coli (per 100 mL)	126	Chromium III	---	TVS	
*Classification: DUWS applies to Lakewood Reservoir only.		Inorganic (mg/L)			Chromium III(T)	50	---
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.		acute	chronic	Chromium VI	TVS	TVS	
		Ammonia	TVS	Copper	TVS	TVS	
		Boron	0.75	Iron	---	WS	
		Chloride	250	Iron(T)	---	1000	
		Chlorine	0.011	Lead	TVS	TVS	
		Cyanide	---	Lead(T)	50	---	
		Nitrate	10	Manganese	TVS	TVS/WS	
		Nitrite	0.05	Mercury	---	0.01(t)	
		Phosphorus	0.025*	Molybdenum(T)	---	150	
		Sulfate	WS	Nickel	TVS	TVS	
		Sulfide	0.002	Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				Zinc	TVS	TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Boulder Creek Basin

17. All lakes and reservoirs tributary to Boulder Creek from a point immediately below the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except as specified in Segments 15 and 16.

COSPBO17	Classifications	Physical and Biological		Metals (ug/L)		
Designation	DUWS*	DM	MWAT	acute	chronic	
Reviewable	Agriculture	WL	WL	Aluminum	---	
	Aq Life Warm 2	acute	chronic	Arsenic	340	
	Recreation E	D.O. (mg/L)	5.0	Arsenic(T)	---	
	Water Supply	pH	6.5 - 9.0	Beryllium	---	
<b>Qualifiers:</b> <b>Water + Fish Standards</b>	chlorophyll a (ug/L)	---	---	Cadmium	TVS	
	E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	
<b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <a href="#">2024</a>  *Classification: DUWS applies to Baseline, Marshall, Thomas and Waneka Reservoirs only.	Inorganic (mg/L)		Chromium III	---	TVS	
	acute	chronic	Chromium III(T)	50	---	
	Ammonia	TVS	TVS	Chromium VI	TVS	TVS
	Boron	---	0.75	Copper	TVS	TVS
	Chloride	---	250	Iron	---	WS
	Chlorine	0.019	0.011	Iron(T)	---	1000
	Cyanide	0.005	---	Lead	TVS	TVS
	Nitrate	10	---	Lead(T)	50	---
	Nitrite	---	0.5	Manganese	TVS	TVS/WS
	Phosphorus	---	---	Mercury	---	0.01(t)
	Sulfate	---	WS	Molybdenum(T)	---	150
	Sulfide	---	0.002	Nickel	TVS	TVS
				Nickel(T)	---	100
				Selenium	TVS	TVS
				Silver	TVS	TVS
				Uranium	---	---
				Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

1. All tributaries to St. Vrain Creek, including all wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park.						
COSPSV01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
OW	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---
	Recreation E Water Supply	acute	chronic	Arsenic	340	---
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> 2024	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Beryllium	---	---
	pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
	E. Coli (per 100 mL)	---	126	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	---	0.01(t)
	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	---	---	
			Zinc	TVS	TVS	

  

2a. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park to the eastern boundary of Roosevelt National Forest.						
COSPSV02A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---      ---
	Recreation E Water Supply	acute	chronic	Arsenic	340	---
<b>Qualifiers:</b>  <b>Other:</b> Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> 2024  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
	D.O. (spawning)	---	7.0	Beryllium	---	---
	pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
	chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
	E. Coli (per 100 mL)	---	126	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	---	0.01(t)
	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	---	---	
			Zinc	TVS	TVS	

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS St. Vrain Creek Basin

2b. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road.							
COSPSV02B	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
Reviewable	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-II	CS-II	acute	chronic	
Qualifiers:		acute	chronic	Aluminum	---	---	
Other:		D.O. (mg/L)	---	6.0	Arsenic	340	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		D.O. (spawning)	---	7.0	Arsenic(T)	---	
		pH	6.5 - 9.0	---	Beryllium	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS(tr)	
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	
		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.05	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11*	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					Zinc	TVS	TVS

  

4a. Mainstem of Left Hand Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with James Creek, except for specific listings in Segment 4b.							
COSPSV04A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT				
UP	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	acute	chronic	
Qualifiers:		acute	chronic	Aluminum	---	---	
Other:		D.O. (mg/L)	---	6.0	Arsenic	340	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		D.O. (spawning)	---	7.0	Arsenic(T)	---	
		pH	6.5 - 9.0	---	Beryllium	---	
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)	
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	
		Inorganic (mg/L)			Chromium III	---	TVS
		acute	chronic	Chromium III(T)	50	---	
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.05	Manganese	TVS	TVS/WS
		Phosphorus	---	0.11	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS(tr)
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

4b. Mainstem of James Creek, including all tributaries and wetlands, from the source to the confluence with Left Hand Creek.						
COSPSV04B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	--- ---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340 ---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
Qualifiers:						
Other:						
Temporary Modification(s):						
Arsenic(chronic) = hybrid						
Expiration Date of 12/31/ <span style="color: red;">2024</span> <span style="color: red;">2024</span>						
		D.O. (spawning)	---	7.0	Beryllium	--- ---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr) TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0 ---
		E. Coli (per 100 mL)	---	126	Chromium III	--- TVS
					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	--- 0.01(t)
		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	--- ---
					Zinc	TVS TVS

  

4c. Mainstem of Left Hand Creek, including all tributaries and wetlands, from a point immediately below the confluence with James Creek to Highway 36.						
COSPSV04C	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute chronic		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	--- ---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340 ---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	--- 0.02
Qualifiers:						
Other:						
Temporary Modification(s):						
Arsenic(chronic) = hybrid						
Expiration Date of 12/31/ <span style="color: red;">2024</span> <span style="color: red;">2024</span>						
		D.O. (spawning)	---	7.0	Beryllium	--- ---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr) TVS
		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0 ---
		E. Coli (per 100 mL)	---	126	Chromium III	--- TVS
					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	--- 0.01(t)
		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	--- ---
					Zinc	TVS TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS St. Vrain Creek Basin

9. All lakes and reservoirs tributary to St. Vrain Creek from sources to Hygiene Road, including Button Rock Reservoir, except as specified in Segment 8.							
COSPSV09	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Cold 1 Recreation E Water Supply	CL,CLL	CL,CLL	---	---	Aluminum	
Qualifiers:		acute	chronic	340	---	Arsenic	
Other:		---	6.0	---	0.02	Arsenic(T)	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		---	7.0	---	---	Beryllium	
		6.5 - 9.0	---	TVS(tr)	TVS	Cadmium	
		---	---	5.0	---	Cadmium(T)	
		---	126	---	TVS	Chromium III	
		Inorganic (mg/L)			50	---	Chromium III(T)
		acute	chronic	TVS	TVS	Chromium VI	
		TVS	TVS	TVS	TVS	Copper	
		---	0.75	---	WS	Iron	
		---	250	---	1000	Iron(T)	
		0.019	0.011	TVS	TVS	Lead	
		0.005	---	50	---	Lead(T)	
		10	---	TVS	TVS/WS	Manganese	
		---	0.05	---	0.01(t)	Mercury	
		---	---	---	150	Molybdenum(T)	
		---	---	TVS	TVS	Nickel	
		---	WS	---	100	Nickel(T)	
		---	0.002	TVS	TVS	Selenium	
				TVS	TVS(tr)	Silver	
				---	---	Uranium	
				TVS	TVS	Zinc	
12. All lakes and reservoirs tributary to Left Hand Creek from Highway 36 to the confluence with St. Vrain Creek, except as specified in Segment 7.							
COSPSV12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute	chronic		
Reviewable	Aq Life Warm 2 Recreation E Water Supply	WL	WL	---	---	Aluminum	
Qualifiers:		acute	chronic	340	---	Arsenic	
Water + Fish Standards		---	5.0	---	0.02	Arsenic(T)	
Other:		---	---	---	---	Beryllium	
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		6.5 - 9.0	---	TVS	TVS	Cadmium	
		---	---	5.0	---	Cadmium(T)	
		Inorganic (mg/L)			---	TVS	Chromium III
		acute	chronic	---	---	Chromium III(T)	
		TVS	TVS	TVS	TVS	Chromium VI	
		---	0.75	TVS	TVS	Copper	
		---	250	---	WS	Iron	
		0.019	0.011	---	1000	Iron(T)	
		0.005	---	TVS	TVS	Lead	
		10	---	50	---	Lead(T)	
		---	0.5	TVS	TVS/WS	Manganese	
		---	---	---	0.01(t)	Mercury	
		---	WS	---	150	Molybdenum(T)	
		---	0.002	TVS	TVS	Nickel	
				---	100	Nickel(T)	
				TVS	TVS	Selenium	
				TVS	TVS	Silver	
				---	---	Uranium	
				TVS	TVS	Zinc	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

1a. Mainstem of the South Platte River from a point immediately below the confluence with Big Dry Creek to the confluence with St. Vrain Creek.						
COSPMS01A	Classifications	Physical and Biological			Metals (ug/L)	
Designation		DM	MWAT		acute	chronic
UP	Agriculture					
	Aq Life Warm 2	WS-II	WS-II	Aluminum	---	---
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	varies*	varies*	Arsenic(T)	---	0.02 <sup>A</sup>
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III	---
Arsenic(chronic) = hybrid			<b>acute</b>	<b>chronic</b>	Chromium III(T)	50
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS*	TVS*	Chromium VI	TVS
*Ammonia(acute) = See attached table for site-specific standards.		Boron	---	0.75	Copper	---
*Ammonia(chronic) = See attached table for site-specific standards.		Chloride	---	250	Copper	35.1*
*Copper(acute) = Copper BLM-based FMB		Chlorine	0.019	0.011	Iron	---
Cu FMB(ac)=35.1 ug/l		Cyanide	0.005	---	Iron(T)	---
*Copper(chronic) = Copper BLM-based FMB		Nitrate	10	---	Lead	TVS
Cu FMB(ch)= 23.5 ug/l		Nitrite	---	0.5	Lead(T)	50
*D.O. (mg/L)(acute) = See attached table for site-specific standards.		Phosphorus	---	---	Manganese	TVS
*D.O. (mg/L)(chronic) = See attached table for site-specific standards.		Sulfate	---	WS	Mercury	---
		Sulfide	---	0.002	Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

3a. All tributaries to the South Platte River, including all wetlands, from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for specific listings in the subbasins of the South Platte River, and in Segments 3b, 5a, 5b, 5c, and 6.

COSPMS03A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WS-I	WS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>  *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	0.17*	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
			Uranium	---	---		
			Zinc	TVS	TVS		

4. Barr Lake and Milton Reservoir.

COSPMS04	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
UP	Aq Life Warm 2	Temperature °C	WL	WL	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
			Uranium	---	---		
			Zinc	TVS	TVS		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

7. All lakes and reservoirs tributary to the South Platte River from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for specific listings in the subbasins of the South Platte River, and in Segment 4.

COSPMS07	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 2	Temperature °C	WL	WL	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Arsenic(chronic) = hybrid			acute	chronic	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

## Site-Specific Minimum Dissolved Oxygen and Ammonia Standards for Middle South Platte Segment 1a

### Dissolved Oxygen:

#### STANDARDS

Early Life Stage Protection Period (April 1 through July 31)

1-Day<sup>1,4,5</sup> 3.0 mg/L (acute)

7-Day Average<sup>1,2</sup> 5.0 mg/L

Older Life Stage Protection Period (August 1 through March 31)

1-Day<sup>1,4</sup> 2.0 mg/L (acute)

7-Day Mean of Minimums<sup>1,3</sup> 2.5 mg/L

30-Day Average<sup>1,2</sup> 4.5 mg/L

Refer to Section 38(6)(4)(c) for Dissolved Oxygen assessment locations.

### Footnotes

1. For the purpose of determining compliance with the standards, dissolved oxygen measurements shall only be taken in the flowing portion of the stream at mid-depth, and at least six inches above the bottom of the channel. All sampling protocols and test procedures shall be in accordance with procedures and protocols approved by the Division.
2. A minimum of four independent daily means must be used to calculate the average for the 7-Day Average standard. A minimum of eight independent daily means must be used to calculate the average for the 30-Day Average standard. The four days and the eight days must be representative of the 7-Day and the 30-Day periods respectively. The daily mean shall be the mean of the daily high and low values. In calculating the mean values, the dissolved oxygen saturation value shall be used in place of any dissolved oxygen measurements which exceed saturation.
3. The 7-Day Mean Minimum is the average of the daily minimums measured at a location on each day during any 7-Day period.
4. During a 24 hour day, dissolved oxygen levels are likely to be lower during the nighttime when there is no photosynthesis. The dissolved oxygen levels should not drop below the acute standard (ELS acute standard of 3.0 mg/L or the OLS standard of 2.0 mg/L). However, if during the ELS period multiple measurements are below 3.0 mg/L during the same nighttime period, the multiple measurements shall be considered a single exceedance of the acute standard. For measurements below 2.0 mg/L during either the ELS or the OLS periods, each hourly measurement below 2.0 mg/L shall be considered an exceedance of the acute standard.
5. In July, the dissolved oxygen level in Segment 1a may be lower than the 3.0 mg/L acute standard for up to 14 exceedances in any one year and up to a total of 21 exceedances in three years before there is a determination that the acute dissolved oxygen standards is not being met. Exceedances shall be counted as described in Footnote 4.

### Ammonia:

Early Life Stage Protection Period (April 1 through July 31)

---

Ammonia

Warm Water = (mg/l as N)Total

$$acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$$

$$chronic (Apr 1 - July 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left( 2.85, 1.45 * 10^{0.028(25 - T)} \right)$$

$$chronic (Aug 1 - Mar 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$$

---

NH<sub>3</sub> = old TVS

Warm Water Acute = 0.62/FT/FPH/2<sup>(4 old)</sup> in mg/ (N)



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

3. Mainstem of the Big Thompson River from the Home Supply Canal diversion to the Big Barnes Ditch diversion.						
COSPBT03	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 2	acute	chronic		acute	chronic
	Recreation E	Temperature °C	CS-II	CS-II	Aluminum	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic	340
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Arsenic(T)	---
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS(tr)
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Arsenic(chronic) = hybrid					Chromium III	---
Expiration Date of 12/31/ <del>2021</del> 2024					Chromium III(T)	50
					Chromium VI	TVS
					Copper	TVS
					Iron	---
					Iron(T)	---
					Lead	TVS
					Lead(T)	50
					Manganese	TVS
					Mercury	---
					Molybdenum(T)	---
					Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

4a. Mainstem of the Big Thompson from the Big Barnes Ditch diversion to the Greeley-Loveland Canal diversion.								
COSPBT04A	Classifications		Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1		CS-II	CS-II	Aluminum	---	---	
	Recreation E	5/1 - 10/15	acute	chronic	Arsenic	340	---	
	Recreation N	10/16 - 4/30	---	6.0	Arsenic(T)	---	0.02	
	Water Supply		---	7.0	Beryllium	---	---	
<b>Qualifiers:</b>			pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
			chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	
<b>Other:</b>			E. Coli (per 100 mL)	5/1 - 10/15	---	126	TVS	
Temporary Modification(s):			E. Coli (per 100 mL)	10/16 - 4/30	---	630	---	
Arsenic(chronic) = hybrid			<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2021</del> 2024				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	---	0.5	Mercury	---	0.01(t)
			Phosphorus	---	---	Molybdenum(T)	---	150
			Sulfate	---	WS	Nickel	TVS	TVS
			Sulfide	---	0.002	Nickel(T)	---	100
						Selenium	TVS	TVS
						Silver	TVS	TVS(tr)
						Uranium	---	---
						Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

4b. Mainstem of the Big Thompson from the Greeley-Loveland Canal diversion to County Road 11H.								
COSPBT04B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT				
Reviewable	Aq Life Warm 1		WS-I	WS-I				
	Recreation E	5/1 - 10/15	acute	chronic				
	Recreation N	10/16 - 4/30						
	Water Supply							
<b>Qualifiers:</b>		Temperature °C			Aluminum	---	---	
<b>Other:</b>		D.O. (mg/L)	---	5.0	Arsenic	340	---	
Temporary Modification(s):		pH	6.5 - 9.0	---	Arsenic(T)	---	0.02	
Arsenic(chronic) = hybrid		chlorophyll a (mg/m <sup>2</sup> )	---	---	Beryllium	---	---	
Expiration Date of 12/31/ <del>2024</del> <u>2024</u>		E. Coli (per 100 mL)	5/1 - 10/15	---	126	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	10/16 - 4/30	---	630	Cadmium(T)	5.0	---
		<b>Inorganic (mg/L)</b>				Chromium III	---	TVS
						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	---	0.01(t)	
		Nitrite	---	0.5	Molybdenum(T)	---	150	
		Phosphorus	---	---	Nickel	TVS	TVS	
		Sulfate	---	WS	Nickel(T)	---	100	
		Sulfide	---	0.002	Selenium	TVS	TVS	
					Silver	TVS	TVS	
					Uranium	---	---	
					Zinc	TVS	TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

7. Mainstem of the North Fork of the Big Thompson River from the boundary of Rocky Mountain National Park to the confluence with the Big Thompson River; mainstem of Buckhorn Creek from the source to the confluence with the Big Thompson River.

COSPBT07	Classifications	Physical and Biological			Metals (ug/L)		
			DM	MWAT		acute	chronic
Reviewable	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/2024					Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

8. Mainstem of the Little Thompson River, including all tributaries and wetlands, from the source to the Culver Ditch diversion.						
COSPBT08	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture		DM	MWAT		
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	acute
	Recreation E		acute	chronic	Arsenic	chronic
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III(T)	50
			acute	chronic	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.05	Mercury	---
		Phosphorus	---	0.11	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

9. Mainstem of the Little Thompson River from the Culver Ditch diversion to the confluence with the Big Thompson River.						
COSPBT09	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
Qualifiers:		pH	6.5 - 9.0	---	Beryllium	---
Other:		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium	TVS
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Selenium(chronic) = 12.3		<b>Inorganic (mg/L)</b>			Chromium III	---
Expiration Date of 12/31/2020			acute	chronic	Chromium III(T)	50
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Chromium VI	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	---	0.5	Manganese	TVS
		Phosphorus	---	0.17*	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

12. Lake Loveland, Horseshoe Lake, Boyd Lake.							
COSPBT12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Aluminum	---	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
	DUWS*	pH	6.5 - 9.0	---	Beryllium	---	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Cadmium	TVS	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Arsenic(chronic) = hybrid			<b>acute</b>	<b>chronic</b>	Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
*Classification: DUWS Applies to Boyd and Loveland Lakes only.		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

14. Welch Reservoir, Lonetree Reservoir, Boedecker Lake, Lon Hagler Reservoir.						
COSPBT14	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute	chronic	
Reviewable	Aq Life Warm 1	Temperature °C	WL	WL	Aluminum	---
	Recreation E		acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
	DUWS*	pH	6.5 - 9.0	---	Beryllium	---
<b>Qualifiers:</b>		chlorophyll a (ug/L)	---	---	Cadmium	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Temporary Modification(s):			<b>Inorganic (mg/L)</b>		Chromium III	---
Arsenic(chronic) = hybrid			acute	chronic	Chromium III(T)	50
Expiration Date of 12/31/ <del>2021</del> 2024		Ammonia	TVS	TVS	Chromium VI	TVS
*Classification: DUWS applies to Lonetree Reservoir only.		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	---	0.5	Manganese	TVS
		Phosphorus	---	---	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

16. All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion. This segment includes Lake Estes and St Mary's Lake.

COSPBT16	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture Aq Life Cold 1 Recreation E Water Supply DUWS*	DM	MWAT	acute	chronic		
Reviewable		CL,CLL	CL,CLL				
		acute	chronic				
	Temperature °C	---	---	Aluminum	---	---	
	D.O. (mg/L)	---	6.0	Arsenic	340	---	
	D.O. (spawning)	---	7.0	Arsenic(T)	---	0.02	
	pH	6.5 - 9.0	---	Beryllium	---	---	
<b>Qualifiers:</b>				Cadmium	TVS(tr)	TVS	
<b>Other:</b>	chlorophyll a (ug/L)	---	---	Cadmium(T)	5.0	---	
Temporary Modification(s):	E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Arsenic(chronic) = hybrid				Chromium III(T)	50	---	
Expiration Date of 12/31/ <del>2024</del> 2024				<b>Inorganic (mg/L)</b>			
				acute	chronic		
	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	---	0.01(t)	
	Phosphorus	---	---	Molybdenum(T)	---	150	
	Sulfate	---	WS	Nickel	TVS	TVS	
	Sulfide	---	0.002	Nickel(T)	---	100	
				Selenium	TVS	TVS	
				Silver	TVS	TVS(tr)	
				Uranium	---	---	
				Zinc	TVS	TVS	

\*Classification: DUWS applies to St.Mary's Lake only.

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

17. All lakes and reservoirs tributary to the Big Thompson River from the Home Supply Canal diversion to the confluence with the South Platte River, except for specific listings in Segments 12 and 14.

COSPBT17	Classifications	Physical and Biological			Metals (ug/L)		
Designation			DM	MWAT		acute	chronic
Reviewable	Agriculture						
	Aq Life Warm 2	Temperature °C	WL	WL	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Water + Fish Standards</b>		chlorophyll a (ug/L)	---	---	Cadmium	TVS	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III	---	TVS
Arsenic(chronic) = hybrid			acute	chronic	Chromium III(T)	50	---
Expiration Date of 12/31/20242024		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

1. Mainstem of the Cache La Poudre River, and all tributaries and wetlands, within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.

COSPCP01	Classifications	Physical and Biological			Metals (ug/L)		
			DM	MWAT		acute	chronic
OW	Agriculture						
	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2021</del> 2024		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium(T)	5.0	---
		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
		<b>Inorganic (mg/L)</b>			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	---	0.01(t)
		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	---	---		
			Zinc	TVS	TVS		

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

2a. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to a point immediately below the confluence with the South Fork Cache La Poudre River.							
COSPCP02A	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT	acute		chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-I	CS-I	Aluminum	---	
	Recreation E	acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	
Expiration Date of 12/31/ <del>2024</del> 2024					Chromium III(T)	50	
		Inorganic (mg/L)			Chromium VI	TVS	TVS
		acute	chronic	Copper	TVS	TVS	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		Boron	---	0.75	Iron(T)	---	
		Chloride	---	250	Lead	TVS	
		Chlorine	0.019	0.011	Lead(T)	50	
		Cyanide	0.005	---	Manganese	TVS	
		Nitrate	10	---	Mercury	---	
		Nitrite	---	0.05	Molybdenum(T)	---	
		Phosphorus	---	0.11*	Nickel	TVS	
		Sulfate	---	WS	Nickel(T)	---	
		Sulfide	---	0.002	Selenium	TVS	
					Silver	TVS	
					Uranium	---	
					Zinc	TVS	

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

7. Mainstem of the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for specific listings in Segment 20.						
COSPCP07	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT	acute	chronic
Reviewable	Agriculture					
	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---
Recreation E			acute	chronic	Arsenic	340
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---
		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
Other:	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2024</del> <u>2024</u>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0
		E. Coli (per 100 mL)	---	126	Chromium III	---
		<b>Inorganic (mg/L)</b>			Chromium III(T)	50
			acute	chronic	Chromium VI	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.05	Mercury	---
		Phosphorus	---	---	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

8. All tributaries to the North Fork of the Cache La Poudre River, including all wetlands, from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for specific listings in Segment 9.

COSPCP08	Classifications	Physical and Biological			Metals (ug/L)		
		DM	MWAT		acute	chronic	
Designation Reviewable	Agriculture						
	Aq Life Cold 2	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		acute	chronic	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Water + Fish Standards</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
<b>Other:</b>		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Temporary Modification(s):		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Arsenic(chronic) = hybrid					Chromium III(T)	50	---
Expiration Date of 12/31/ <del>2024</del> 2024		<b>Inorganic (mg/L)</b>			Chromium VI	TVS	TVS
			acute	chronic	Copper	TVS	TVS
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).		Ammonia	TVS	TVS	Iron	---	WS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

9. Mainstem of Rabbit Creek and Lone Pine Creek from the source to the confluence with the North Fork of the Cache La Poudre River.								
COSPCP09	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT		acute	chronic	
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---	
	Recreation E		acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---	
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium III(T)	50	---	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		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	---	0.01(t)	
		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	---	---	
					Zinc	TVS	TVS	
		10a. Mainstem of the Cache La Poudre River from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion) to a point immediately above the Larimer County Ditch diversion (40.657, -105.185).						
		COSPCP10A	Classifications	Physical and Biological			Metals (ug/L)	
		Designation	Agriculture		DM	MWAT		acute
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---	
	Recreation E		acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---	
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Expiration Date of 12/31/ <u>2024</u> <u>2024</u>					Chromium III(T)	50	---	
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		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	---	0.01(t)	
		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	---	---	
					Zinc	TVS	TVS	

All metals are dissolved unless otherwise noted.  
 T = total recoverable  
 t = total  
 tr = trout

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

10b. Mainstem of the Cache La Poudre River from a point immediately above the Larimer County Ditch diversion (40.657, -105.185) to Shields Street in Ft. Collins, Colorado.						
COSPCP10B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic
Reviewable	Aq Life Cold 2 Recreation E Water Supply	Temperature °C	CS-II	CS-II	Aluminum	---
Qualifiers:			acute	chronic	Arsenic	340
Water + Fish Standards		D.O. (mg/L)	---	6.0	Arsenic(T)	---
Other:		D.O. (spawning)	---	7.0	Beryllium	---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <u>2024</u>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0
		E. Coli (per 100 mL)	---	126	Chromium III	---
		Inorganic (mg/L)			Chromium III(T)	50
		acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS
		Boron	---	0.75	Iron	---
		Chloride	---	250	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead(T)	50
		Nitrate	10	---	Manganese	TVS
		Nitrite	---	0.05	Mercury	---
		Phosphorus	---	---	Molybdenum(T)	---
		Sulfate	---	WS	Nickel	TVS
		Sulfide	---	0.002	Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS
11. Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to a point immediately above the confluence with Boxelder Creek.						
COSPCP11	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute		chronic
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WS-I	WS-I	Aluminum	---
Qualifiers:			acute	chronic	Arsenic	340
Other:		D.O. (mg/L)	---	5.0	Arsenic(T)	---
Temporary Modification(s): <del>temperature(DM/MWAT) = current condition</del> Expiration Date of 12/31/2020		pH	6.5 - 9.0	---	Beryllium	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS
		E. Coli (per 100 mL)	---	126	Cadmium	TVS
		Inorganic (mg/L)			Chromium III	TVS
		acute	chronic	Chromium III(T)	---	100
		Ammonia	TVS	TVS	Chromium VI	TVS
		Boron	---	0.75	Copper	TVS
		Chloride	---	---	Iron(T)	---
		Chlorine	0.019	0.011	Lead	TVS
		Cyanide	0.005	---	Lead	TVS
		Nitrate	100	---	Manganese	TVS
		Nitrite	---	2.7	Mercury	---
		Phosphorus	---	---	Molybdenum(T)	---
		Sulfate	---	---	Nickel	TVS
		Sulfide	---	0.002	Nickel	TVS
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

12. Mainstem of the Cache La Poudre River from a point immediately above the confluence with Boxelder Creek to the confluence with the South Platte River.							
COSPCP12	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture	DM	MWAT		acute	chronic	
Reviewable	Aq Life Warm 1 Recreation E	Temperature °C	WS-I	WS-I	Aluminum	---	---
			acute	chronic	Arsenic	340	---
Qualifiers:		D.O. (mg/L)	---	5.0	Arsenic(T)	---	7.6
Other:		pH	6.5 - 9.0	---	Beryllium	---	---
		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126	Chromium III	TVS	TVS
			<b>Inorganic (mg/L)</b>		Chromium III(T)	---	100
			acute	chronic	Chromium VI	TVS	TVS
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron(T)	---	1000
		Chloride	---	---	Lead	TVS	TVS
		Chlorine	0.019	0.011	Manganese	TVS	TVS
		Cyanide	0.005	---	Mercury	---	0.01(t)
		Nitrate	100	---	Molybdenum(T)	---	150
		Nitrite	---	2.7	Nickel	TVS	TVS
		Phosphorus	---	---	Selenium	TVS	TVS
		Sulfate	---	---	Silver	TVS	TVS
		Sulfide	---	0.002	Uranium	---	---
					Zinc	TVS	TVS

Temporary Modification(s):  
temperature(DM/MWAT) = current condition  
Expiration Date of 12/31/2020

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

1. All tributaries to the Laramie River, including all wetlands, which are within the Rawah Wilderness Area.						
COSPLA01	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT	acute      chronic		
OW	Aq Life Cold 1 Recreation E Water Supply	Temperature °C	CS-I	CS-I	Aluminum	---      ---
		acute	chronic			
		D.O. (mg/L)	---	6.0	Arsenic	340      ---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Arsenic(T)	---      0.02
<b>Other:</b>		pH	6.5 - 9.0	---	Beryllium	---      ---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> <span style="color: red;">2024</span>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS(tr)      TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---
		Inorganic (mg/L)			Chromium III	---      TVS
		acute	chronic			
		Ammonia	TVS	TVS	Chromium III(T)	50      ---
		Boron	---	0.75	Chromium VI	TVS      TVS
		Chloride	---	250	Copper	TVS      TVS
		Chlorine	0.019	0.011	Iron	---      WS
		Cyanide	0.005	---	Iron(T)	---      1000
		Nitrate	10	---	Lead	TVS      TVS
		Nitrite	---	0.05	Lead(T)	50      ---
		Phosphorus	---	---	Manganese	TVS      TVS/WS
		Sulfate	---	WS	Mercury	---      0.01(t)
		Sulfide	---	0.002	Molybdenum(T)	---      150
					Nickel	TVS      TVS
					Nickel(T)	---      100
					Selenium	TVS      TVS
					Silver	TVS      TVS(tr)
					Uranium	---      ---
					Zinc	TVS      TVS

  

2a. Mainstem of the Laramie River from the source to the National Forest boundary, and all tributaries and wetlands, from the source to the Colorado/Wyoming border, except for specific listings in Segment 1.						
COSPLA02A	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	Aluminum	---      ---
		acute	chronic			
		D.O. (mg/L)	---	6.0	Arsenic	340      ---
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Arsenic(T)	---      0.02
<b>Other:</b>		pH	6.5 - 9.0	---	Beryllium	---      ---
Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <span style="color: red;">2024</span> <span style="color: red;">2024</span>		chlorophyll a (mg/m <sup>2</sup> )	---	150	Cadmium	TVS(tr)      TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0      ---
		Inorganic (mg/L)			Chromium III	---      TVS
		acute	chronic			
		Ammonia	TVS	TVS	Chromium III(T)	50      ---
		Boron	---	0.75	Chromium VI	TVS      TVS
		Chloride	---	250	Copper	TVS      TVS
		Chlorine	0.019	0.011	Iron	---      WS
		Cyanide	0.005	---	Iron(T)	---      1000
		Nitrate	10	---	Lead	TVS      TVS
		Nitrite	---	0.05	Lead(T)	50      ---
		Phosphorus	---	0.11	Manganese	TVS      TVS/WS
		Sulfate	---	WS	Mercury	---      0.01(t)
		Sulfide	---	0.002	Molybdenum(T)	---      150
					Nickel	TVS      TVS
					Nickel(T)	---      100
					Selenium	TVS      TVS
					Silver	TVS      TVS(tr)
					Uranium	---      ---
					Zinc	TVS      TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

2b. Mainstem of the Laramie River from the National Forest boundary to the Colorado/Wyoming border.								
COSPLA02B	Classifications	Physical and Biological			Metals (ug/L)			
Designation	Agriculture		DM	MWAT				
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	acute	chronic	
	Recreation E		acute	chronic	Arsenic	340	---	
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02	
Qualifiers:		D.O. (spawning)	---	7.0	Beryllium	---	---	
Other:		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS	
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium(T)	5.0	---	
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS	
Expiration Date of 12/31/ <del>2024</del> 2024			<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
						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	---	0.01(t)
		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	---	---
						Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower South Platte River Basin

1. Mainstem of the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border.						
COSPLS01	Classifications	Physical and Biological			Metals (ug/L)	
Designation			DM	MWAT		
Reviewable					acute	chronic
	Agriculture					
	Aq Life Warm 2	Temperature °C	WS-II	WS-II	Aluminum	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340
	Water Supply	D.O. (mg/L)	---	5.0	Arsenic(T)	---
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---
<b>Water + Fish Standards</b>		chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS
<b>Other:</b>		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0
Temporary Modification(s):		<b>Inorganic (mg/L)</b>			Chromium III	---
Arsenic(chronic) = hybrid			<b>acute</b>	<b>chronic</b>	Chromium III(T)	50
Expiration Date of 12/31/ <del>2024</del> 2024		Ammonia	TVS	TVS	Chromium VI	TVS
		Boron	---	0.75	Copper	TVS
		Chloride	---	250	Iron	---
		Chlorine	0.019	0.011	Iron(T)	---
		Cyanide	0.005	---	Lead	TVS
		Nitrate	10	---	Lead(T)	50
		Nitrite	---	0.5	Manganese	TVS
		Phosphorus	---	---	Mercury	---
		Sulfate	---	WS	Molybdenum(T)	---
		Sulfide	---	0.002	Nickel	TVS
					Nickel(T)	---
					Selenium	TVS
					Silver	TVS
					Uranium	---
					Zinc	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

1. Mainstem of the South Fork of the Republican River from a point 23 miles above the Colorado-Kansas border (39.582154°, -102.350838°) to the Colorado-Kansas border.							
COSPREG01	Classifications	Physical and Biological			Metals (ug/L)		
Designation	Agriculture		DM	MWAT		acute	chronic
Reviewable	Aq Life Warm 1 Recreation E Water Supply	Temperature °C	WS-I	WS-I	Aluminum	---	---
			acute	chronic	Arsenic	340	---
		D.O. (mg/L)	---	5.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		pH	6.5 - 9.0	---	Beryllium	---	---
<b>Other:</b>	Temporary Modification(s): Arsenic(chronic) = hybrid Expiration Date of 12/31/ <del>2021</del> <u>2024</u>	chlorophyll a (mg/m <sup>2</sup> )	---	---	Cadmium	TVS	TVS
		E. Coli (per 100 mL)	---	126	Cadmium(T)	5.0	---
		Inorganic (mg/L)			Chromium III	---	TVS
			acute	chronic	Chromium III(T)	50	---
		Ammonia	TVS	TVS	Chromium VI	TVS	TVS
		Boron	---	0.75	Copper	TVS	TVS
		Chloride	---	250	Iron	---	WS
		Chlorine	0.019	0.011	Iron(T)	---	1000
		Cyanide	0.005	---	Lead	TVS	TVS
		Nitrate	10	---	Lead(T)	50	---
		Nitrite	---	0.5	Manganese	TVS	TVS/WS
		Phosphorus	---	---	Mercury	---	0.01(t)
		Sulfate	---	WS	Molybdenum(T)	---	150
		Sulfide	---	0.002	Nickel	TVS	TVS
					Nickel(T)	---	100
					Selenium	TVS	TVS
					Silver	TVS	TVS
					Uranium	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

3. Mainstem of the North Fork of the Republican River from the source to the Colorado/Nebraska border and the mainstem of Chief Creek.							
COSPRE03	Classifications	Physical and Biological			Metals (ug/L)		
<b>Designation</b>	Agriculture		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>
Reviewable	Aq Life Cold 1	Temperature °C	CS-II	CS-II	Aluminum	---	---
	Recreation E		<b>acute</b>	<b>chronic</b>	Arsenic	340	---
	Water Supply	D.O. (mg/L)	---	6.0	Arsenic(T)	---	0.02
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Beryllium	---	---
<b>Other:</b>		pH	6.5 - 9.0	---	Cadmium	TVS(tr)	TVS
Temporary Modification(s):		chlorophyll a (mg/m <sup>2</sup> )	---	150*	Cadmium(T)	5.0	---
Arsenic(chronic) = hybrid		E. Coli (per 100 mL)	---	126	Chromium III	---	TVS
Expiration Date of 12/31/ <del>2021</del> 2024		<b>Inorganic (mg/L)</b>			Chromium III(T)	50	---
*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).			<b>acute</b>	<b>chronic</b>	Chromium VI	TVS	TVS
*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).		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	---	0.01(t)
		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	---	---
					Zinc	TVS	TVS

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for details on TVS, TVS(tr), WS, temperature standards.

Table 2

SITE SPECIFIC RADIONUCLIDE STANDARDS\*

(in Picocuries/Liter, except as noted)

The radionuclides listed below shall be maintained at the lowest practical level and in no case shall they be increased by any cause attributable to municipal, industrial, or agricultural practices to exceed the site specific numeric standards.

A. Ambient based site-specific standards:				
	Segment 2 Standley Lake	Segment 3 Great Western Reservoir	Segment 4a Segment 5 Woman Creek	Segment 4a Segment 4b Segment 5 Walnut Creek
Gross Alpha	6	5		
Gross Beta	9	12		
Plutonium	.03	.03	0.15** ***	0.15** ***
Americium	.03	.03	0.15** ***	0.15** ***
Tritium	500	500	500	500
Uranium	3	4	16.8 µg/l	16.8 µg/l
B. Other site-specific standard applicable to segments 2,3,4a, 4b, and 5.				
Curium	60	60	60	60
Neptunium	30	30	30	30

\*Statewide standards also apply for radionuclides not listed above.

\*\*0.15pCi/l Statewide Basic Standards.

\*\*\*For plutonium and americium measurements in Segment 5 in Woman Creek and Segment 5 in Walnut Creek, attainment will be assessed based on the results of a 12-month flow-weighted rolling average concentration (computed monthly).

## **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.

**EXHIBIT 8**  
**RESURRECTION MINING COMPANY**

**DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**

**Water Quality Control Commission**

**REGULATION NO. 32 - CLASSIFICATIONS AND NUMERIC STANDARDS FOR ARKANSAS RIVER BASIN**

**5 CCR 1002-32**

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**32.62 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020 EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE**

Iowa Gulch, Segments 8a, 8b and 9: The Commission adopted site-specific standards using hardness-based equations for cadmium and zinc based on the EPA recalculation procedure. The recalculation methodology provides revised equations for acute and chronic cadmium and acute and chronic zinc for Segment 8a, and chronic cadmium and acute and chronic zinc for Segments 8b and 9. These revised equations are intended to protect the resident, attainable aquatic macroinvertebrate and planktonic communities, and limited fish populations in Iowa Gulch. These site-specific standards resolve the uncertainty which resulted in 1) the Commission adopting temporary modifications for cadmium and zinc in Segment 8b at the June 2007 Rulemaking, 2) extending them at the June 2013 Rulemaking, 3) adopting further revisions at the December 2015 Rulemaking, 4) again extending the temporary modifications at the December 2016 Rulemaking, and 5) further updating and extending them at the June 2018 Rulemaking.

The Use Attainability Analysis submitted by Resurrection Mining Company demonstrated that aquatic macroinvertebrate populations are currently categorized as “very good” to “good” in Iowa Gulch under the existing conditions. Fish populations have limited diversity and abundance reflecting the small stream size and elevation. Planktonic organisms are present, although primarily limited to the ponded areas in these segments. Other crustaceans are absent, consistent with similar streams where sampling also found no other crustaceans. Cadmium and zinc standards resulting from the recalculation procedure result in values that are more protective of aquatic life than the current temporary modification values that have been in place on Segment 8b since 2007.

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

**5 CCR 1002-32**

**REGULATION NO. 32  
CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
ARKANSAS RIVER BASIN**

**APPENDIX 32-1  
Stream Classifications and Water Quality Standards Tables**

Effective ~~6/30/2020~~6/30/2019

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper Arkansas River Basin

8a. Mainstem of Iowa Gulch from the source to the historic upper ASARCO water supply intake at 39.224327, -106.223432.						
COARUA08A	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
Reviewable	Aq Life Cold 2	CS-II	CS-II	acute	chronic	
	Recreation E	acute	chronic	Aluminum	---	
	Water Supply	Temperature °C		Arsenic	340	
		D.O. (mg/L)	---	Beryllium	---	
		D.O. (spawning)	---	Cadmium	TVS(tr)	
		pH	6.5 - 9.0		TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	Chromium III	50(T)	
		E. Coli (per 100 mL)	---	Chromium VI	TVS	
				Copper	TVS	
				Iron	---	
				Iron	---	
				Lead	TVS	
				Manganese	TVS	
				Manganese	---	
				Mercury	---	
				Molybdenum	---	
				Nickel	TVS	
				Selenium	TVS	
				Silver	TVS	
				Uranium	---	
				Zinc	TVS	
					SSE*	
<b>Qualifiers:</b>						
<b>Other:</b>						
*Cadmium(acute) = (1.136672- <a href="#">ln(hardness)*0.041838</a> )*e^(0.9789*ln(hardness)- <a href="#">3.5146</a> )						
*Cadmium(chronic) = (1.101672- <a href="#">ln(hardness)*0.041838</a> )*e^(0.7977*ln(hardness)- <a href="#">3.5338</a> )						
*Zinc(acute) = <a href="#">0.978*e^(0.8582[ln(hardness)]+1.3648)</a>						
*Zinc(chronic) = <a href="#">0.986*e^(0.8582[ln(hardness)]+1.1685)</a>						
*Uranium(acute) = See 32.5(3) for details.						
*Uranium(chronic) = See 32.5(3) for details.						
		<b>Inorganic (mg/L)</b>				
		acute	chronic			
	Ammonia	TVS	TVS			
	Boron	---	0.75			
	Chloride	---	250			
	Chlorine	0.019	0.011			
	Cyanide	0.005	---			
	Nitrate	10	---			
	Nitrite	---	0.05			
	Phosphorus	---	0.11			
	Sulfate	---	WS			
	Sulfide	---	0.002			

8b. Mainstem of Iowa Gulch from a point immediately below the historic upper ASARCO water supply intake at 39.224327, -106.223432. to a point immediately below the headgate of the Paddock #1 Ditch (Iowa Ditch).						
COARUA08B	Classifications	Physical and Biological			Metals (ug/L)	
Designation	Agriculture	DM	MWAT			
UP	Aq Life Cold 2	CS-II	CS-II	acute	chronic	
	Recreation E	acute	chronic	Aluminum	---	
		Temperature °C		Arsenic	340	
		D.O. (mg/L)	---	Beryllium	---	
		D.O. (spawning)	---	Cadmium	---	
		pH	6.5 - 9.0		TVS	
		chlorophyll a (mg/m <sup>2</sup> )	---	Chromium III	TVS	
		E. Coli (per 100 mL)	---	Chromium III	---	
				Chromium VI	TVS	
				Copper	TVS	
				Iron	---	
				Iron	---	
				Lead	TVS	
				Manganese	TVS	
				Mercury	---	
				Molybdenum	---	
				Nickel	TVS	
				Selenium	TVS	
				Silver	TVS	
				Uranium	---	
				Zinc	TVS	
					SSE*	
<b>Qualifiers:</b>						
<b>Other:</b>						
*Cadmium(acute) = (1.136672- <a href="#">ln(hardness)*0.041838</a> )*e^(0.9789*ln(hardness)- <a href="#">3.5146</a> )						
*Cadmium(chronic) = (1.101672- <a href="#">ln(hardness)*0.041838</a> )*e^(0.7977*ln(hardness)- <a href="#">3.5338</a> )						
*Zinc(acute) = <a href="#">0.978*e^(0.8582[ln(hardness)]+1.3648)</a>						
*Zinc(chronic) = <a href="#">0.986*e^(0.8582[ln(hardness)]+1.1685)</a>						
*Uranium(acute) = See 32.5(3) for details.						
*Uranium(chronic) = See 32.5(3) for details.						
		<b>Inorganic (mg/L)</b>				
		acute	chronic			
	Ammonia	TVS	TVS			
	Boron	---	0.75			
	Chloride	---	---			
	Chlorine	0.019	0.011			
	Cyanide	---	---			
	Nitrate	100	---			
	Nitrite	---	0.05			
	Phosphorus	---	0.11			
	Sulfate	---	---			
	Sulfide	---	0.002			

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

# REGULATION #32 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Upper Arkansas River Basin

9. Mainstem of Iowa Gulch from a point immediately below the headgate of the Paddock #1 Ditch (Iowa Ditch) to the confluence with the Arkansas River.							
COARUA09	Classifications	Physical and Biological			Metals (ug/L)		
		<b>DM</b>	<b>MWAT</b>		<b>acute</b>	<b>chronic</b>	
Designation	Agriculture						
Reviewable	Aq Life Cold 1	CS-I	CS-I	Aluminum	---	---	
	Recreation E	<b>acute</b>	<b>chronic</b>	Arsenic	340	7.6(T)	
<b>Qualifiers:</b>		D.O. (mg/L)	---	6.0	Beryllium	---	
<b>Other:</b>		D.O. (spawning)	---	7.0			
<p>*Cadmium(acute) = (1.136672- [ln(hardness)*0.041838])*e^(0.9789*ln(hardness)- 3.5146)</p> <p>*Cadmium(chronic) = (1.101672- [ln(hardness)*0.041838])*e^(0.7977*ln(hardness)- 3.5338)</p> <p>*Zinc(acute) = 0.978*e^(0.8582[ln(hardness)]+1.3648)</p> <p>*Zinc(chronic) = 0.986*e^(0.8582[ln(hardness)]+1.1685)</p> <p>*Uranium(acute) = See 32.5(3) for details. *Uranium(chronic) = See 32.5(3) for details.</p>		pH	6.5 - 9.0	---	Cadmium	SSE*	<del>TVS</del> <u>SSE*</u>
		chlorophyll a (mg/m2)	---	150			
		E. Coli (per 100 mL)	---	126			
		<b>Inorganic (mg/L)</b>					
			<b>acute</b>	<b>chronic</b>			
		Ammonia	TVS	TVS	Copper	TVS	TVS
		Boron	---	0.75	Iron	---	1000(T)
		Chloride	---	---	Lead	TVS	TVS
		Chlorine	0.019	0.011	Manganese	TVS	TVS
		Cyanide	0.005	---	Mercury	---	0.01(t)
Nitrate	100	---	Molybdenum	---	160(T)		
Nitrite	---	0.05	Nickel	TVS	TVS		
Phosphorus	---	0.11	Selenium	TVS	TVS		
Sulfate	---	---	Silver	TVS	TVS(tr)		
Sulfide	---	0.002	Uranium	---	---		
			Zinc	<del>TVS</del> <u>SSE*</u>	<del>TVS</del> <u>SSE*</u>		

All metals are dissolved unless otherwise noted.  
T = total recoverable  
t = total  
tr = trout

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 32.6 for details on TVS, TVS(tr), WS, temperature standards.

**EXHIBIT 9**  
**CLIMAX MOLYBDENUM COMPANY**

**DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**

**Water Quality Control Commission**

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

**5 CCR 1002-33**

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**33.62 STATEMENT OF BASIS, SPECIFIC STATUTORY AUTHORITY AND PURPOSE; DECEMBER 9, 2019 RULEMAKING; FINAL ACTION JANUARY 13, 2020 EFFECTIVE DATE JUNE 30, 2020**

The provisions of C.R.S. 25-8-202(1)(a), (b) and (2); 25-8-203; 25-8-204; and 25-8-402; provide the specific statutory authority for adoption of these regulatory amendments. The Commission also adopted in compliance with 24-4-103(4) C.R.S. the following statement of basis and purpose.

**BASIS AND PURPOSE:**

The commission extended the following temporary modifications:

Blue River Segment 14: temporary modification of the chronic molybdenum standard (expires 6/30/2023). The commission extended this temporary modification from 6/30/2020 to 6/30/2023 to provide time for information to become available to support development of an updated molybdenum standard to protect the Water Supply use. In addition, Climax Molybdenum Company continues to make progress to investigate molybdenum sources/source control, influent control measures, water management alternatives, available blending, potential treatment and treatment optimization options, and the expected effluent quantity and quality that could be achieved with each alternative.

An extension of the temporary modification is needed due to the delay in the release of the updated version of the Agency of Toxic Substances and Disease Registry's (ATSDR) draft toxicological profile for molybdenum, which will inform development of an updated molybdenum table value standard. It is unknown when the ATSDR toxicological profile will be available, which has resulted in the indefinite continuation of the commission's consideration of a revised molybdenum standard. As a result of this delay, the commission extended the "current condition" temporary modification to June 30, 2023. When the ATSDR toxicological profile becomes available, a hearing to consider a revised molybdenum standard will be scheduled expeditiously.

During the 2018 temporary modifications rulemaking hearing (see 33.61), the commission directed the division to develop a numeric operative value(s) to replace the existing narrative operative value of "current condition" if this temporary modification was extended. The intended purpose of this change was to establish a baseline condition which must be preserved in Blue River Segment 14 and facilitate future evaluations of status quo preservation in the waterbody

and effluent. However, due to differences in statistical methods and the form of molybdenum used in standards assessment versus permitting, the commission determined that adoption of a numeric operative value may inadvertently cause permit compliance issues, and therefore retained the narrative “current condition” operative value for this temporary modification. Maintenance of status quo will instead be addressed through discharge permit limits and evaluation of instream data, with the baseline instream condition characterized in this and previous (33.61) statement of basis.

To address the requirement to maintain status quo in effluent, the division has developed implementation guidance to translate narrative “current condition” temporary modifications into numeric limits in discharge permits using past performance data as a baseline. Climax restarted operations and began producing molybdenum concentrate in May 2012. The “current condition” temporary modification was adopted in June 2014, after operations resumed at Climax. For the purposes of molybdenum in Segment 14, the relevant baseline is the water quality condition represented by data collected from May 2012 to June 2014, when the temporary modification was originally adopted.

To address the requirement to maintain status quo instream, the 50<sup>th</sup> percentile molybdenum concentration of 170 µg/L in Tenmile Creek from the May 2012 to June 2014 period of record will be used as a baseline to compare to data collected after the temporary modification was adopted in June 2014. Comparisons are to be conducted using the ambient standards assessment technique in Appendix B of the 303(d) listing methodology and using water quality data from the two sites on Tenmile Creek near Frisco (Climax site “Frisco 3<sup>rd</sup> Ave” and Denver Water site “Ten Mile Creek above Dillon”). Use of the ambient standards assessment methodology to compare the baseline period water quality (May 2012 to June 2014) to current water quality (July 2014 to April 2019) indicates that the lower confidence limit of the 50<sup>th</sup> percentile molybdenum concentration is currently not higher than the baseline. Based on this information, at this time, the commission finds “status quo” is currently being preserved.

The commission expects that Climax will continue to provide written reports detailing its ongoing molybdenum investigations to all stakeholders each year by July 1. Further, the commission encourages Climax to continue sharing information and data with the public and interested parties on a routine and ongoing basis.

**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: 6/30/2020

## 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 <sup>2</sup>	=	milligrams per square meter
mL	=	milliliter
MWAT	=	maximum weekly average temperature
OW	=	outstanding waters
sc	=	sculpin
SSE	=	site-specific equation
T	=	total recoverable
t	=	total
tr	=	trout
TVS	=	table value standard
µg/L	=	micrograms per liter
UP	=	use-protected
WS	=	water supply
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WL	=	warm lake temperature tier

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

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	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
<b>Qualifiers:</b>		D.O. (spawning)	---	7.0	Cadmium(T)	5.0	---
<b>Other:</b>		pH	6.5 - 9.0	---	Chromium III	---	TVS
Temporary Modification(s):		chlorophyll a (mg/m2)	---	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
Molybdenum(chronic) = current conditions					<b>Inorganic (mg/L)</b>		
Expiration Date of <del>6/30/2020</del> 6/30/2023					Iron	---	WS
*chlorophyll a (mg/m2)(chronic) = applies only above the facilities listed at 33.5(4).						acute	chronic
*Phosphorus(chronic) = applies only above the facilities listed at 33.5(4).		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	---
		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)

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.