

# STATE OF COLORADO

John W. Hickenlooper, Governor  
Larry Wolk, MD, MSPH  
Executive Director and Chief Medical Officer

## WATER QUALITY CONTROL COMMISSION

<http://www.colorado.gov/cdphe/wqcc>

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Colorado  
Department  
of Public Health  
and Environment

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

### SUBJECT:

For consideration of the adoption of revised water quality classifications, standards and designations for multiple segments in the Classifications and Numeric Standards for Upper Colorado River Basin and North Platte River (Planning Region 12), Regulation #33 (5 CCR 1002-33) and the Classifications and Numeric Standards for Lower Colorado River Basin, Regulation #37 (5 CCR 1002-37).

Proposed revisions and proposed Statement of Basis and Purpose language have been submitted by the following:

- Exhibit 1 - Regulation #33, the Water Quality Control Division (Division);
- Exhibit 2 - Regulation #37, the Water Quality Control Division (Division);
- Exhibit 3 – Grand County, Northwest Colorado Council of Governments and Northern Colorado Water Conservancy District (Grand County, NWCCOG, Northern);
- Exhibit 4 - Regulation #33, Eagle River Water and Sanitation District (ERWSD);
- Exhibit 5 - Regulation #33, WildEarth Guardians (WEG);
- Exhibit 6 - Regulation #33, Trout Unlimited (TU);
- Exhibit 7 - Regulation #33, Colorado River Water Conservation District (River District);
- Exhibit 8 – Regulation #33, Seneca Coal Company, Peabody Sage Creek Mining, LLC, and Twentymile Coal Mining Company (Seneca);
- Exhibit 9 – Regulation #37, Tri-State Generation and Transmission Association, Inc. (Tri-State);
- Exhibit 10 – Regulation #37, WildEarth Guardians (WEG);
- Exhibit 11 – Regulation #37, Western Resource Advocates; and
- Exhibit 12 – Regulation #37, Colorado River Water Conservation District (River District).

In these attachments, proposed new language is shown with double-underlining and proposed deletions are shown with ~~strikeouts~~. Any alternative proposals related to the revisions proposed in Exhibits 1 through 12 and developed in response to those proposals will also be considered.

### TRIENNIAL REVIEW PROCESS OVERVIEW:

This Rulemaking Hearing is the third and final step in a three-step process utilized in Colorado for triennial review of water quality classifications and standards. The first step is an Issues Scoping Hearing, which provides an opportunity for early identification of potential issues that may need to be addressed in the next major rulemaking hearing for particular regulations, and for identification of any issues that may need to be addressed in rulemaking prior to that time. The Issues Scoping Hearing for these basins was held in October 2012. The second step in the triennial review process – the Issues Formulation Hearing – results in the identification of specific issues to be addressed in the next major rulemaking. The Issues Formulation Hearing for this basin was held in November 2013. The third step is the Rulemaking Hearing, where any revisions to the water quality classifications and standards are formally adopted. Information regarding triennial reviews of water quality classifications and standards is provided on the Commission's website at <http://www.colorado.gov/cs/Satellite/CDPHE-WQCC/CBON/1251590850500>.

HEARING SCHEDULE:

DATE: Monday, June 9, 2014  
TIME: 10:00 a.m.  
PLACE: Grand Junction City Hall Auditorium  
250 North 5<sup>th</sup> Street  
Grand Junction, CO 81501

PUBLIC PARTICIPATION ENCOURAGED:

The Commission encourages all interested persons to provide their opinions or recommendations regarding the matters to be addressed in this rulemaking hearing, either orally at the hearing or in writing prior to or at the hearing. Although oral testimony from those with party status (see below) and other interested persons will be received at the hearing, the time available for such oral testimony may be limited. The Commission requests that all interested persons submit to the Commission any available information that may be relevant in considering the noticed proposals, including information relating to the factors listed in section 31.7(2) of the Basic Standards and Methodologies for Surface Water, 5 CCR 1002-31.

Written submissions prior to the hearing by interested members of the public that do not have party status are encouraged. In order to be distributed to the Commission for review prior to the hearing, such submissions need to be received in the Commission office or the Colorado Department of Public Health and Environment's (Department's) mail room by May 28, 2014. Written submissions received after this date will be distributed to Commissioners at the hearing. However, for logistical reasons, the Commission office cannot guarantee that electronic submissions received after 1:00 p.m. Friday, June 6, 2014 will be provided to Commissioners. Interested persons wishing to submit comments or other documents after that date and time should bring paper copies to the hearing and provide PDF versions to the Commission office as soon as possible after the hearing.

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 generally will not be permitted.

The Commission encourages informal discussions among the parties, the Water Quality Control Division and other interested persons prior to the hearing, in an effort to reach consensus or to develop proposed resolutions of issues and/or narrow the issues potentially in dispute. **The Commission strongly encourages that any multi-party/Division proposals for the resolution of issues (including proposed Statement of Basis and Purpose language whenever feasible) be submitted as part of the administrative record as early as possible, but at least by the prehearing conference.** To help facilitate discussions, the following contact information is provided:

- Division: Sarah Johnson; [sarah.johnson@state.co.us](mailto:sarah.johnson@state.co.us)  
303-692-3609
- Grand County, NWCCOG, Northern: Peter Nichols; [pdn@bhgrlaw.com](mailto:pdn@bhgrlaw.com)  
303-345-2642
- ERWSD: Steve Bushong; [sjbushong@pbblaw.com](mailto:sjbushong@pbblaw.com)  
303-443-6800
- TU: Aaron Kindle; [akindle@tu.org](mailto:akindle@tu.org)  
303-868-285
- WEG: Bryan Bird; [bbird@wildearthguardians.org](mailto:bbird@wildearthguardians.org)  
505-988-0126
- Western Resource Advocates: John Barth; [barthlawoffice@gmail.com](mailto:barthlawoffice@gmail.com)  
303-774-8868

- Seneca, Peabody, Twentymile; and  
Tri-State: Gabe Racz; [gr@vrlaw.com](mailto:gr@vrlaw.com)  
303-443-6151
- River District: Michael Eytel; [meytel@crwcd.org](mailto:meytel@crwcd.org)  
970-945-8522

PARTY STATUS:

Participation as a "party" to this hearing will require compliance with section 21.3(D) of the Procedural Rules, Regulation #21 (5 CCR 1002-21). It is not necessary to acquire party status in order to testify or comment. **For each request for party status, please provide the organization's name, a contact person, mailing address, phone number, and email address.** Written party status requests are due in the Commission Office on or before:

DATE: Tuesday, April 1, 2014  
TIME: 5:00 p.m.

A single copy of the party status request may be transmitted as an email attachment to [cdphe.wqcc@state.co.us](mailto:cdphe.wqcc@state.co.us), submitted by fax to 303-691-7702, mailed or otherwise conveyed so as to be received in the mail room of the Colorado Department of Public Health and Environment (Department) no later than this deadline.

ELIMINATION OF MAILING LIST STATUS:

On June 10, 2013, the Water Quality Control Commission approved revisions to the Procedural Rules, Regulation #21 (5 CCR 1002-21), which eliminate mailing list status.

PREHEARING STATEMENTS:

**PLEASE NOTE** that for this hearing two separate deadlines for prehearing statements are established:

- (1) A PDF version and one paper copy of a **Proponent's Prehearing Statement** from:
  - the Water Quality Control Division,
  - Grand County, NWCCOG and Northern,
  - Eagle River Water and Sanitation District,
  - WildEarth Guardians,
  - Trout Unlimited,
  - Colorado River Water Conservation District,
  - Seneca, Peabody, and Twentymile,
  - Tri-State Generation and Transmission Association, Inc., and
  - Western Resource Advocates.

as the proponents of revisions proposed in Exhibits 1 through 12 attached to this notice, **including** written testimony and exhibits providing the basis for the proposals, must be emailed to [cdphe.wqcc@state.co.us](mailto:cdphe.wqcc@state.co.us) **AND** 13 paper copies of the Proponent's Prehearing Statement **without** written testimony and exhibits must be received in the Department's mail room no later than **March 19, 2014**; and

- (2) A PDF version and one paper copy of a **Responsive Prehearing Statement**, including any exhibits, written testimony, and alternative proposals of **anyone seeking party status and intending to respond to the proponents' proposals** must be emailed to [cdphe.wqcc@state.co.us](mailto:cdphe.wqcc@state.co.us) **AND** 13 paper copies of the Responsive Prehearing Statement **without** written testimony and exhibits must be received in the Department's mail room no later than **April 22, 2014**.

**Where a party's position or proposal is based in part on analysis of water quality data, the party should submit its analysis of the data and a description of the data upon which the analysis is**

**based, but is not required to submit the raw data into the hearing record. However, by the prehearing statement deadline, the party shall provide an electronically manipulable copy of its data to the Division and any party that requests it. If the Division or any party chooses to submit some or all of the data into the hearing record, such data must be provided to the Commission office in PDF format.**

As soon as prehearing statements are posted on the Commission's web site, the Commission office will email a link to the page containing the prehearing statements to proponents, parties and the Attorney General's Office representatives for the Commission and the Division.

Because the March 19, 2014 deadline for Proponents' Prehearing Statements precedes the April 1, 2014 due date for party status requests, the Commission office will email the link to proponents' statements to all parties at the same time the party status list is distributed to parties.

Please note the request that each prehearing statement and rebuttal identify on the first page each of the water bodies addressed in the statement, including both its common name and the basin and segment number provided in the Regulations #33 and #37 tables. Also **note** that the Commission has prepared a document entitled **Information for Parties to Water Quality Control Commission Rulemaking Hearings**. A copy of this document will be emailed to all persons requesting party status. It is also posted on the Commission's web site as Appendix C to the [Public Participation Handbook](#). Following the suggestions set forth in this document will enhance the effectiveness of parties' input for this proceeding. **Please note the request that all parties submit two-sided copies of all hearing documents on three-hole punch paper.**

REBUTTAL STATEMENTS:

**Written rebuttal statements responding to the prehearing statements due on April 22, 2014 may be submitted by the Division or anyone seeking party status.** Any such rebuttal statements must be received in the Commission Office by **May 14, 2014**. A PDF version and one paper copy of written rebuttal statements **including** any exhibits must be emailed to [cdphe.wqcc@state.co.us](mailto:cdphe.wqcc@state.co.us) **AND** 13 paper copies **without** exhibits must be received in the Department's mail room by this deadline. No other written materials will be accepted following this deadline except for good cause shown.

PREHEARING CONFERENCE:

DATE: Tuesday, May 20, 2014  
TIME: 9:00 a.m.  
PLACE: Room C1A  
Department of Public Health and Environment  
4300 Cherry Creek Drive South  
Denver, Colorado 80246

**Attendance at the prehearing conference is mandatory for all persons requesting party status.** An opportunity may be available to participate in this prehearing conference by telephone. Persons wishing to participate by telephone should notify the Commission Office as early as possible.

**Any motions regarding the conduct of this rulemaking shall be submitted by Thursday, May 15, 2014, so they can be considered at the prehearing conference. No motions will be accepted after May 15, 2014 except for good cause shown.**

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.

NOTIFICATION OF POTENTIAL MATERIAL INJURY TO WATER RIGHTS:

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 in the party status request submitted. In order for this potential to be considered fully by the Commission and the other agencies listed in the statute, persons must fully explain the basis for their claim in their prehearing statement which is due in the Commission Office on the date specified above. This explanation should identify and describe the water right(s), and explain how and to what degree the material injury will be incurred.

Dated this 12th day of February 2014 at Denver, Colorado.

WATER QUALITY CONTROL COMMISSION

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Trisha Oeth, Administrator

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

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

**5 CCR 1002-33**

**CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
UPPER COLORADO RIVER BASIN AND  
NORTH PLATTE RIVER (PLANNING REGION 12)**

**REGULATION NO. 33**

**33.1 AUTHORITY**

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

**33.2 PURPOSE**

These regulations establish classifications and numeric standards for the Colorado River, the Yampa River, and the North Platte River, including all tributaries and standing bodies of water as indicated in section 33.6. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. (See section 31.14). It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

**33.3 INTRODUCTION**

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (See section 33.6). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in section 33.6. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the Basic Standards and Methodologies for Surface Water.

**33.4 DEFINITIONS**

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

**33.5 BASIC STANDARDS**

(1) TEMPERATURE

All waters of Region 12 are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) QUALIFIERS

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 and metal standards found at 31.16 Table III. The column in the tables headed "Water Fish" are presumptively applied to all aquatic life class 1 streams and are applied to aquatic life class 2 streams on a case-by-case basis as shown in the tables in 33.6. The column in the tables at 31.11 headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Tables 33.6.

(3) URANIUM

(a) All waters of the Upper Colorado River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.

(b) Uranium level in surface waters shall be maintained at the lowest practicable level.

(c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 ug/l or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.

(i) The first number in the 16.8-30 ug/l 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.

~~(d) In no case shall uranium levels in waters assigned a water supply classification be increased by a cause attributable to municipal, industrial, or agricultural discharges so as to exceed 30 ug/l where naturally-occurring concentrations are less than 30 ug/l.~~

(4) NUTRIENTS

Prior to May 31, 2022, interim nutrient values will be considered for adoption only in the limited circumstances defined at 31.17(e). These circumstances include headwaters, Direct Use Water Supply (DUWS) Lakes and Reservoirs, and other special circumstances determined by the Commission. Additionally, prior to May 31, 2017, only total phosphorus and chlorophyll a will be

considered for adoption. After May 31, 2017, total nitrogen will be considered for adoption per the circumstances outlined in 31.17(e).

Prior to May 31, 2022, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Upper Colorado and North Platte River Basins. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Upper Colorado and North Platte River Basins:

<u>Segment</u>	<u>Permittee</u>	<u>Facility name</u>	<u>Permit No.</u>
<u>COUCUC03</u>	<u>Colorado Dept of Transportation</u>	<u>Grizzly Creek Res Area WWTF</u>	<u>COG588067</u>
<u>COUCUC03</u>	<u>Rock Gardens MHP</u>	<u>Rock Gardens MHP &amp; Campground</u>	<u>COG588083</u>
<u>COUCUC03</u>	<u>Colorado Dept of Transportation</u>	<u>Hanging Lake Res Area WWTF</u>	<u>COG588076</u>
<u>COUCUC03</u>	<u>Colorado Dept of Transportation</u>	<u>Bair Ranch Rest Area</u>	<u>COG588075</u>
<u>COUCUC03</u>	<u>Hermes Group</u>	<u>Two Rivers Village Metro Dist WWTF</u>	<u>COG588070</u>
<u>COUCUC03</u>	<u>Roundup River Ranch</u>	<u>Roundup River Ranch WWTF</u>	<u>COG588116</u>
<u>COUCUC03</u>	<u>Hot Sulphur Springs Town of</u>	<u>Hot Sulphur Springs WWTF</u>	<u>COG588084</u>
<u>COUCUC03</u>	<u>Allegient Management</u>	<u>Ouray Ranch Homeowners Assn WWTF</u>	<u>COG588041</u>
<u>COUCUC06a</u>	<u>C Lazy U Ranch Holdings LLC % Triton Investment Co</u>	<u>C Lazy U Ranch, INC.</u>	<u>COG588072</u>
<u>COUCUC06b</u>	<u>Three Lakes Water and Sanitation District</u>	<u>Willow Creek Lagoons</u>	<u>CO0037681</u>
<u>COUCUC07b</u>	<u>Kremmling Sanitation District</u>	<u>Kremmling Sanitation Dist WWTF</u>	<u>CO0048437</u>
<u>COUCUC10a</u>	<u>Winter Park Water and Sanitation District</u>	<u>Winter Park WSD WWTF</u>	<u>CO0026051</u>
<u>COUCUC10a</u>	<u>Young Life Campaign Inc</u>	<u>Crooked Creek Ranch</u>	<u>CO0045411</u>
<u>COUCUC10a</u>	<u>Colorado Mountain Resort Investors LLC</u>	<u>Devil's Thumb Ranch</u>	<u>CO0046566</u>
<u>COUCUC10a</u>	<u>Tabernash Meadows WSD</u>	<u>Tabernash Meadows WSD WWTF</u>	<u>CO0045501</u>
<u>COUCUC10c</u>	<u>Fraser Town of</u>	<u>Upper Fraser Valley TP</u>	<u>CO0040142</u>
<u>COUCUC10c</u>	<u>Granby Sanitation District</u>	<u>Granby Sanitation District</u>	<u>CO0020699</u>
<u>COUCBL02a</u>	<u>Upper Blue Sanitation Dist</u>	<u>Iowa Hill Water Reclamation</u>	<u>CO0045420</u>
<u>COUCBL08</u>	<u>Dundee Realty USA LLC</u>	<u>Arapahoe Basin Ski Area</u>	<u>CO0023876</u>
<u>COUCBL13</u>	<u>Copper Mountain Consolidated Metro Dist</u>	<u>Copper Mtn Cons Metro District</u>	<u>CO0021598</u>
<u>COUCBL17</u>	<u>Silverthorne/Dillon Joint Sewer Authority</u>	<u>Blue River WWTF</u>	<u>CO0020826</u>
<u>COUCBL22</u>	<u>Frisco Sanitation District</u>	<u>Frisco Sanitation District WWTF</u>	<u>CO0020451</u>
<u>COUCBL22</u>	<u>Snake River WWTF</u>	<u>Summit County Snake River WWTP</u>	<u>CO0029955</u>
<u>COUCBL22</u>	<u>Upper Blue Sanitation District</u>	<u>Farmers Korner WWTF</u>	<u>CO0021539</u>
<u>COUCEA02</u>	<u>Red Cliff Town of</u>	<u>Red Cliff Town of WWTP</u>	<u>CO0021385</u>
<u>COUCEA08</u>	<u>Eagle River WSD</u>	<u>Vail WWTF</u>	<u>CO0021369</u>
<u>COUCEA09a</u>	<u>Eagle River Water &amp; Sanitation Dist</u>	<u>Avon WWTP</u>	<u>CO0024431</u>
<u>COUCEA09a</u>	<u>Eagle River Water &amp; San Dist</u>	<u>Edwards WWTF</u>	<u>CO0037311</u>
<u>COUCEA09b</u>	<u>Eagle Town of</u>	<u>Eagle Town of WWTP</u>	<u>CO0048241</u>

<u>Segment</u>	<u>Permittee</u>	<u>Facility name</u>	<u>Permit No.</u>
<u>COUCEA09b</u>	<u>Gypsum Town of</u>	<u>Gypsum Town of WWTF</u>	<u>CO0048830</u>
<u>COUCRF03a</u>	<u>Aspen Consolidated Sanitation District</u>	<u>Aspen Consolidated San District</u>	<u>CO0026387</u>
<u>COUCRF03a</u>	<u>Woody Creek Mobile HOA</u>	<u>Woody Creek Mobile Home Park</u>	<u>COG588103</u>
<u>COUCRF03a</u>	<u>Aspen Village Inc c/o Independence Environmental Services</u>	<u>Aspen Village, INC.</u>	<u>COG588085</u>
<u>COUCRF03a</u>	<u>Riversbend HOA</u>	<u>Riverbend Apartments</u>	<u>COG588066</u>
<u>COUCRF03a</u>	<u>Independence Environmental Services</u>	<u>Lazy Glen Homeowners Assoc.</u>	<u>COG588049</u>
<u>COUCRF03a</u>	<u>Basalt SD</u>	<u>Basalt Sanitation District</u>	<u>COG588063</u>
<u>COUCRF03a</u>	<u>Ranch at Roaring Fork c/o Independence Environmental Services</u>	<u>Ranch at Roaring Fork HOA</u>	<u>COG588051</u>
<u>COUCRF03a</u>	<u>Carbondale Town of</u>	<u>Carbondale Town of</u>	<u>COG588050</u>
<u>COUCRF03a</u>	<u>Roaring Fork Water and San District</u>	<u>Roaring Fork WSD WWTF</u>	<u>CO0044750</u>
<u>COUCRF03a</u>	<u>Spring Valley SD</u>	<u>Spring Valley SD WWTF</u>	<u>CO0046124</u>
<u>COUCRF03a</u>	<u>Oak Meadows Service Company</u>	<u>Oak Meadows WWTF</u>	<u>CO0045802</u>
<u>COUCRF03c</u>	<u>Sunlight Inc</u>	<u>Sunlight, INC.</u>	<u>CO0038598</u>
<u>COUCRF03c</u>	<u>Mid Valley Metro District</u>	<u>Mid Valley Metro Dist WWTF</u>	<u>COG588105</u>
<u>COUCRF03c</u>	<u>Blue Creek Ranch LLC</u>	<u>Blue Creek Ranch</u>	<u>COG588074</u>
<u>COUCRF03c</u>	<u>H Lazy F LLC</u>	<u>H Lazy F MHP WWTF</u>	<u>COG588035</u>
<u>COUCRF03c</u>	<u>El Rocko Mobile Home Park</u>	<u>El Rocko MHP</u>	<u>COG588029</u>
<u>COUCRF04</u>	<u>Snowmass WSD</u>	<u>Snowmass WSD</u>	<u>CO0023086</u>
<u>COUCRF08</u>	<u>Sopris Engineering LLC</u>	<u>Redstone Castle WWTF</u>	<u>COG588115</u>
<u>COUCRF08</u>	<u>Redstone WSD</u>	<u>Redstone WSD WWTF</u>	<u>CO0046370</u>
<u>COUCNP05b</u>	<u>Walden Town of</u>	<u>Walden Town of WWTF</u>	<u>CO0020788</u>
<u>COUCYA02a</u>	<u>Yampa Town of</u>	<u>Yampa WWTF</u>	<u>CO0030635</u>
<u>COUCYA02a</u>	<u>Routt County</u>	<u>Milner Community WWTF</u>	<u>CO0047449</u>
<u>COUCYA02c</u>	<u>Hayden Town of</u>	<u>Hayden Town WWTF</u>	<u>CO0040959</u>
<u>COUCYA02c</u>	<u>Steamboat Springs City of</u>	<u>Steamboat Springs, City of</u>	<u>CO0020834</u>
<u>COUCYA03</u>	<u>Whiteman School</u>	<u>Whiteman School</u>	<u>CO0031062</u>
<u>COUCYA04</u>	<u>Routt County Phippsburg/Dept of Envir Hlth</u>	<u>Routt CO for Phippsburg Comm WWTF</u>	<u>COG589026</u>
<u>COUCYA07</u>	<u>Oak Creek Town of</u>	<u>Oak Creek, Town of</u>	<u>CO0041106</u>
<u>COUCYA022</u>	<u>Morrison Creek Metropolitan Water and Sanitation District</u>	<u>Morrison Creek Metro WWTF</u>	<u>CO0022969</u>
<u>COUCYA022</u>	<u>Steamboat Lake Water and Sanitation Dist</u>	<u>Steamboat Lake Water &amp; Sanitation Dist WWTF</u>	<u>CO0035556</u>

Prior to May 31, 2022:

- For segments located entirely above these facilities, nutrient standards apply to the entire segment.
- For segments with portions downstream of these facilities, *nutrient standards only apply above these facilities*. A footnote "C" was added to the total phosphorus and chlorophyll a standards in these segments. The footnote references the table of qualified facilities at 33.5(4).

- For segments located entirely below these facilities, nutrient standards do not apply.

A footnote "B" was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.

### 33.6 **TABLES**

#### (1) Introduction

The numeric standards for various parameters in the attached tables were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses.

Numeric standards are not assigned for all parameters listed in the tables attached to 31.16. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

#### (2) Abbreviations:

(a) The following abbreviations are used in the attached tables:

ac	=	acute (1-day)
Ag	=	silver
Al	=	aluminum
As	=	arsenic
B	=	boron
Ba	=	barium
Be	=	beryllium
°C	=	degrees celsius
Cd	=	cadmium
ch	=	chronic (30-day)
<u>Chla</u>	=	<u>Chlorophyll a</u>
Cl	=	chloride
Cl <sub>2</sub>	=	residual chlorine
CL	=	cold lake temperature tier
CLL	=	cold large lake temperature tier
CN	=	free cyanide
CrIII	=	trivalent chromium
CrVI	=	hexavalent chromium
CS-I	=	cold stream temperature tier one
CS-II	=	cold stream temperature tier two
Cu	=	copper
dis	=	dissolved
DM	=	daily maximum
<u>DUWS</u>	=	<u>direct use water supply</u>
D.O.	=	dissolved oxygen
F	=	fluoride
Fe	=	iron
Hg	=	mercury
mg/l	=	milligrams per liter
ml	=	milliliters
Mn	=	manganese
<u>Mo</u>	=	<u>molybdenum</u>
MWAT	=	maximum weekly average temperature
NH <sub>3</sub>	=	un-ionized ammonia as N(nitrogen)

Ni	=	nickel
NO <sub>2</sub>	=	nitrite as N (nitrogen)
NO <sub>3</sub>	=	nitrate as N (nitrogen)
OW	=	outstanding waters
P	=	phosphorus
Pb	=	lead
S	=	sulfide as undissociated H <sub>2</sub> S (hydrogen sulfide)
Sb	=	antimony
sc	=	sculpin
Se	=	selenium
SO <sub>4</sub>	=	sulfate
sp	=	spawning
T	=	temperature
Tl	=	thallium
<u>Tot</u>	=	<u>total</u>
tr	=	trout
Trec	=	total recoverable
TVS	=	table value standard
U	=	uranium
ug/l	=	micrograms per liter
UP	=	use-protected
WAT	=	weekly average temperature
WL	=	warm lake temperature tier
<u>WS</u>	=	<u>water supply</u>
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WS-IV	=	warm stream temperature tier four
Zn	=	zinc

(b) In addition, the following abbreviations were used:

Fe(ch)	=	WS(dis)
Mn(ch)	=	WS(dis)
SO <sub>4</sub>	=	WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii)

Iron	=	300 µg/l (dissolved)
Manganese	=	50 µg/l (dissolved)
SO <sub>4</sub>	=	250 mg/l

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

(c) ~~As used in the “Temporary Modifications and Qualifiers” column of the tables, the term “type i” refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(i) of the Basic Standards and Methodologies for Surface Water (i.e., “where the standard is not being met because of human-induced conditions deemed correctable within a twenty (20) year period). The term “type iii” refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(iii) of the Basic Standards and Methodologies for Surface Water~~

(i.e., “where there is significant uncertainty regarding the appropriate long-term underlying standard”). As used in the Temporary Modifications and Qualifiers column of the tables in 33.6(5), the term “type A” refers to a Temporary Modification adopted pursuant to subsection 31.7(3)(a)(ii)(A) of the Basic Standards and Methodologies for Surface Water (i.e., “there is significant uncertainty regarding the water quality standard necessary to protect current and/or future use”). As used in the Temporary Modifications and Qualifiers column of the tables in 33.6(5), the term “type B” refers to a Temporary Modification adopted pursuant to subsection 31.7(3)(a)(ii)(B) of the Basic Standards and Methodologies for Surface Water (i.e., “there is significant uncertainty regarding the extent to which existing quality is the result of natural or irreversible human-induced conditions”).

(d) 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.
- (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.
  - (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.

(3) Table Value Standards

In certain instances in the attached tables, the designation "TVS" is used to indicate that for a particular parameter a "table value standard" has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

**TABLE VALUE STANDARDS  
(Concentrations in ug/l unless noted)**

PARAMETER <sup>(1)</sup>	TABLE VALUE STANDARDS <sup>(2)(3)</sup>
Aluminum (Trec)	$\text{Acute} = e^{(1.3695[\ln(\text{hardness})] + 1.8308)}$ <p style="text-align: center;"><b>pH equal to or greater than 7.0</b></p> $\text{Chronic} = e^{(1.3695[\ln(\text{hardness})] - 0.1158)}$ <p style="text-align: center;"><b>pH less than 7.0</b></p> $\text{Chronic} = e^{(1.3695[\ln(\text{hardness})] - 0.1158)} \text{ or } 87, \text{ whichever is more stringent}$

Ammonia <sup>(4)</sup>	Cold Water = (mg/l as N)Total				
	$acute = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$ $chronic = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left( 2.85, 1.45 * 10^{0.028(25 - T)} \right)$				
	Warm Water = (mg/l as N)Total				
	$acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$ $chronic (Apr 1 - Aug 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN \left( 2.85, 1.45 * 10^{0.028(25 - T)} \right)$ $chronic (Sep 1 - Mar 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$				
NH <sub>3</sub> = old TVS	Cold Water Acute = 0.43/FT/FPH/2 <sup>(4-Old)</sup> in mg/l (N)				
	Warm Water Acute = 0.62/FT/FPH/2 <sup>(4-Old)</sup> in mg/l (N)				
Cadmium	<p>Acute = (1.136672 - [ln(hardness) x (0.041838)]) x e<sup>0.9151[ln(hardness)] - 3.1485</sup></p> <p>Acute(Trout) = (1.136672 - [ln(hardness) x (0.041838)]) x e<sup>0.9151[ln(hardness)] - 3.6236</sup></p> <p>Chronic = (1.101672 - [ln(hardness) x (0.041838)]) x e<sup>0.7998[ln(hardness)] - 4.4451</sup></p>				
Chromium III <sup>(5)</sup>	<p>Acute = e<sup>(0.819[ln(hardness)] + 2.5736)</sup></p> <p>Chronic = e<sup>(0.819[ln(hardness)] + 0.5340)</sup></p>				
Chromium VI <sup>(5)</sup>	<p>Acute = 16</p> <p>Chronic = 11</p>				
Copper	<p>Acute = e<sup>(0.9422[ln(hardness)] - 1.7408)</sup></p> <p>Chronic = e<sup>(0.8545[ln(hardness)] - 1.7428)</sup></p>				
Lead	<p>Acute = (1.46203 - [(ln hardness) * (0.145712)]) * e<sup>(1.273[ln(hardness)] - 1.46)</sup></p> <p>Chronic = (1.46203 - [(ln hardness) * (0.145712)]) * e<sup>(1.273[ln(hardness)] - 4.705)</sup></p>				
Manganese	<p>Acute = e<sup>(0.3331[ln(hardness)] + 6.4676)</sup></p> <p>Chronic = e<sup>(0.3331[ln(hardness)] + 5.8743)</sup></p>				
Nickel	<p>Acute = e<sup>(0.846[ln(hardness)] + 2.253)</sup></p> <p>Chronic = e<sup>(0.846[ln(hardness)] + 0.0554)</sup></p>				
Selenium <sup>(6)</sup>	<p>Acute = 18.4</p> <p>Chronic = 4.6</p>				
Silver	<p>Acute = 1/2e<sup>(1.72[ln(hardness)] - 6.52)</sup></p> <p>Chronic = e<sup>(1.72[ln(hardness)] - 9.06)</sup></p> <p>Chronic(Trout) = e<sup>(1.72[ln(hardness)] - 10.51)</sup></p>				
Temperature	<b>TEMPERATURE TIER</b>	<b>TIER CODE</b>	<b>SPECIES EXPECTED TO BE PRESENT</b>	<b>APPLICABLE MONTHS</b>	<b>TEMPERATURE STANDARD (°C)</b>
					<b>(MWAT)</b>
					<b>(DM)</b>
	Cold Stream Tier I	CS-I	brook trout, cutthroat trout	June – Sept. Oct. – May	17.0 9.0
Cold Stream Tier II	CS-II	brown trout, rainbow trout, mottled sculpin, mountain whitefish, longnose sucker, Arctic grayling, all other cold-water species	April – Oct. Nov. – March	18.23 9.0	23.89 13.0

	Cold Lake	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lake (>100)	CLL	brown trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	18.23	23.8
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	14.5
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, Northern redbelly dace, finescale dace, razorback sucker, white sucker	March – Nov.	27.5	28.6
Dec. – Feb.				13.78	14.3	
Warm Stream Tier III	WS-III	razorback sucker, all other warm-water species	March – Nov.	27.7	31.38	
			Dec. – Feb.	13.9	14.3	
Warm Stream Tier IV	WS-IV	Other Warmwater Species	March – Nov.	28.7	31.3	
			Dec. – Feb.	14.3	15.2	
Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, Northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper.	April – Dec.	26.53	29.35	
			Jan. – March	13.32	14.68	
Uranium	Acute= $e^{(1.1021[\ln(\text{hardness})]+2.7088)}$ Chronic= $e^{(1.1021[\ln(\text{hardness})]+2.2382)}$					
Zinc	$\text{Acute} = 0.978 \cdot e^{(0.8525[\ln(\text{hardness})]+1.0647) \cdot (0.9094[\ln(\text{hardness})]+0.9095)}$ $\text{Chronic} = 0.986 \cdot e^{(0.8525[\ln(\text{hardness})]+0.9109) \cdot (0.9094[\ln(\text{hardness})]+0.6235)}$ if hardness less than 14302 mg/l CaCO <sub>3</sub> Chronic (sculpin) = $e^{(2.227140[\ln(\text{hardness})]-5.604084)}$					

TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified.
- (2) Hardness values to be used in equations are in mg/l as calcium carbonate and shall be no greater than 400 mg/L, except for aluminum for which hardness shall be no greater than 220 mg/L. The hardness values used in calculating the appropriate metal standard should be based on the lower 95 percent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.
- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.
- (4)  $FT = 10^{0.3(20-TCAP)}$ ;

Where  $TCAP$  is  $\leq T \leq 30$

$$FT = 10^{0.03(20-T)};$$

Where  $0$  is  $\leq T \leq TCAP$

$TCAP = 20^\circ C$  cold water aquatic life species present

$TCAP = 25^\circ C$  cold water aquatic life species absent

$FPH = 1$ ; Where  $8 < pH < 9$

$$\frac{FPH = 1 + 10^{(7.4-pH)}}{1.25};$$

Where  $6.5 < pH \leq 8$

*FPH means the acute pH adjustment factor, defined by the above formulas.*

*FT means the acute temperature adjustment factor, defined by the above formulas.*

*T means temperature measured in degrees celsius.*

*TCAP means temperature CAP; the maximum temperature which affects the toxicity of ammonia to salmonid and non-salmonid fish groups.*

*NOTE: If the calculated acute value is less than the chronic value, then the chronic value shall be used as the acute standard.*

- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the Commission on a site-specific basis where appropriate evidence is submitted.
- (5) Unless the stability of the chromium valence state in receiving waters can be clearly demonstrated, the standard for chromium should be in terms of chromium VI. In no case can the sum of the instream levels of Hexavalent and Trivalent Chromium exceed the water supply standard of 50 ug/l total chromium in those waters classified for domestic water use.
- (6) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

#### (4) Assessment Criteria

The following criteria shall be used when assessing whether a specified waterbody is in attainment of the specified standard.

- (a) Yampa River Segment 13d, Dry Creek: Iron Assessment Thresholds and Locations

Mar-Apr, Fe(ch) = 3040(Trec), snowmelt season median values

May-Feb, Fe(ch) = 1110(Trec), no-snowmelt season median values

Assessment locations:

- Seneca II-W Stream Site 7 on Hubberson Gulch (WSH7): located in the middle reaches of Hubberson Gulch
- Seneca II-W Flume Site 1 on Hubberson Gulch (WSHF1): located on Hubberson Gulch just upstream of its confluence with Dry Creek
- Seneca II-W Stream Site 5 on Dry Creek (WSD5): located in the middle reaches of Dry Creek

(b) Yampa River Segment 13e, Sage Creek: Iron Assessment Thresholds and Locations

$Fe(ch) = 1250(Trec)$ , median of all data

Assessment locations:

- Yoast Stream Site 2 on Sage Creek (YSS2): located upstream of the west border of Section 18, T5N, R87W

$Fe(ch) = 1000(Trec)$ , median of all data

Assessment locations:

- Seneca II-W Stream Site 3 on Sage Creek (WSSF3): located downstream of the west border of Section 18, T5N, R87W

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Upper Colorado River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
1.	Mainstem of the Colorado River, including all tributaries and wetlands, within Rocky Mountain National Park, or which flow into Rocky Mountain National Park.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
2.	Mainstem of the Colorado River, including all tributaries and wetlands within, or flowing into Arapahoe National Recreation Area.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Pb(ac)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
3.	Mainstem of the Colorado River from the outlet of Lake Granby to the confluence with Roaring Fork River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>o</sup> C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4.	All tributaries to the Colorado River, including all wetlands, from the outlet of Lake Granby to the confluence with the Roaring Fork River, which are on National Forest lands, except for those tributaries included in Segments 1 and 2, and specific listings in Segments 8, 9 and 10a.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
5.	<del>All lakes and reservoirs tributary to the Colorado River from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately below the confluence with the Roaring Fork River which are not on National Forest lands, except for specific listing in Segments 11 and 12. Deleted.</del>		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>o</sup> C Wolford Mtn-Res April-Dec T <sub>WAT</sub> =19.73 <sup>o</sup> C Williams Fork-Res April-Dec T <sub>WAT</sub> =21.55 <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6a.	All tributaries to the Colorado River, including all wetlands, from the source to a point immediately above the confluence with the Blue River and Muddy Creek, which are not on National Forest lands, except for specific listings in Segments 1, 2, 4, 5, 6b, 6c, 8, 9 and 10a-c.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 NO <sub>2</sub> =0.05 B=0.75 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: <b>Upper Colorado River</b>			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
6b. Mainstem of un-named tributary from the headwaters (Sec 32, T3N, R76W) to Willow Creek Reservoir Road (Section 8, T2N, R76W).		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340(dis) As(ch)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100	Cu(ac)=200 Pb(ch)=100 Mn(ch)=200 <u>Mo(ch)=160</u> Ni(ac/ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.
6c. Mainstem of un-named tributary to Willow Creek from the Willow Creek Reservoir Rd (Sec. 8, T2N, R76W) to the confluence Willow Creek (Sec. 17, T2N, R76W).		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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 and in the Blue River, Eagle River, and Roaring Fork River basins.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
7b. Mainstem of Muddy Creek, including all tributaries and wetlands, from the outlet of Wolford Mountain Reservoir to the confluence with the Colorado River; mainstems of Rock Creek, Deep Creek, Sheephorn Creek, Sweetwater Creek and the Piney River, including all tributaries and wetlands, from their sources to their confluences with the Colorado River, which are not on National Forest lands.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
7c. Mainstem of Muddy Creek from the source to a point immediately below the confluence with Eastern Gulch as well as all tributaries to and wetlands of Muddy Creek from the source to the outlet of Wolford Mountain Reservoir, except for listings in Segment 4. The mainstems of Derby, Blacktail, Cabin, and Red Dirt Creeks (all below Wolford Mountain Reservoir), including all tributaries and wetlands, from their sources to their confluences with the Colorado River, except for listings in Segment 4.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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 listed in Segment 9.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100 <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Point of compliance for Fe and Mn at Aspen Canyon Ranch well.  Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
9. All tributaries to the Colorado and Fraser Rivers, including all wetlands, within the Never Summer, Indian Peaks, Byers, Vasquez, Eagles Nest and Flat Tops Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: <b>Upper Colorado River</b>			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
10a. Mainstem of the Fraser River from the source to a point immediately below the Rendezvous Bridge. All tributaries to the Fraser River, including wetlands, from the source to the confluence with the Colorado River, except for those tributaries included in Segment 9.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)<sup>C</sup></u>	As(ac=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10b. Mainstem of the Fraser River from a point immediately below the Rendezvous Bridge to a point immediately below the Hammond Ditch.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10c. Mainstem of the Fraser River from a point immediately below the Hammond Ditch to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	<u>Temporary modification:</u> <u>As(ch)=hybrid</u> <u>Expiration date of 12/31/21.</u>
11. All lakes and reservoirs within Rocky Mountain National Park and within the Never Summer, Indian Peaks, Byers, Vasquez, Eagles Nest and Flat Tops Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12. Lakes and reservoirs within Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby.		Aq Life Cold 1 Recreation E Water Supply Agriculture <u>DLWS*</u>	T=TVS(CL,CLL) <sup>°C</sup> Shadow Mtn Res April-Dec <u>T<sub>(WAT)</sub>=19.30<sup>1</sup>°C<sup>B</sup></u> Lake Granby-Res April-Dec <u>T<sub>(WAT)</sub>=19.42<sup>0</sup>°C<sup>B</sup></u> D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B,C</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B,C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>*DUWS Applies only to Lake Granby</u>  See ** for narrative clarity standard.  July through September Grand Lake Clarity =4 meter secchi disk depth, effective January 1, 2015.
13. All lakes and reservoirs tributary to the Colorado River from the boundary of Rocky Mountain National Park and Arapahoe National Recreation Area to a point immediately below the confluence with the Roaring Fork River which are not on National Forest lands, except for specific listings in Upper Colorado Segments 11 and 12 and the Blue and Eagle River subbasins.		Aq Life Cold 1 Recreation E Water Supply Agriculture <u>DLWS*</u>	T=TVS(CL,CLL) <sup>°C</sup> Wolford Mtn Res April-Dec <u>T<sub>(WAT)</sub>=19.73<sup>21</sup>°C<sup>D</sup></u> Williams Fork Res April-Dec <u>T<sub>(WAT)</sub>=21.55<sup>19</sup>°C<sup>D</sup></u> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B,C</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 <u>NO<sub>2</sub>=0.05</u> <u>NO<sub>3</sub>=10</u> Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B,C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>*DUWS Applies only to Wolford Mtn Res and Ute Creek Res</u>

\*Narrative standard for Segment 12, Grand Lake: The highest level of clarity attainable, consistent with the exercise of established water rights and the protection of aquatic life.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12  BASIN: <b>Blue River</b>	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
1. Mainstem of the Blue River from the source to Dillon Reservoir, except for specific listing in Segments 2a and 2b.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS( <u>dis</u> ) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac <del>ch</del> )=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
2a. Mainstem of the Blue River from the confluence with French Gulch to a point one half mile below Summit County Road 3.	UP	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=4 CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS( <u>dis</u> ) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=e(1.25 (ln(hard)+0.799))	
2b. Mainstem of the Blue River from a point one half mile below Summit County Road 3 to the confluence with the Swan River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=1/2e(1. 0166(ln(hard)-3.132)) CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS( <u>dis</u> ) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=e(0.9805 (ln(hard)+1.402))	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
3. Dillon Reservoir and all lakes and reservoirs in the Blue River drainage above Dillon Reservoir, except for specific listings in Segment 21.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Special standards for Dillon Reservoir only: Total Phosphorus as P=0.0074 mg/l in the top 15 meters of the water column for the months of July, August, September & October.  Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4a. All direct tributaries to Dillon Reservoir and all tributaries and wetlands in the Blue River drainage above Dillon Reservoir, except for specific listings in Segments 1, 2a, 2b, 4b, 5, 6, and 10-14.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS( <u>dis</u> ) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac <del>ch</del> )=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4b. North Fork of the Swan River, including all tributaries and wetlands, from the source to the confluence with the Swan River.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS( <u>dis</u> ) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac <del>ch</del> )=TVS Zn(ch)=TVS(sc)	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Blue River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
5. Mainstem of Soda Creek from the source to Dillon Reservoir.		Aq Life Cold 1 Recreation E Agriculture Water Supply	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.0-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
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.	UP	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot) <sup>C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6b. Mainstem of Camp Creek, River, including all tributaries and wetlands from the source to confluence with the Snake River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr)  zinc (acute) = 0.978* <sup>e</sup> 0.8537/(ln Hardness)+1.5227  zinc (chronic) = 0.986* <sup>e</sup> 0.8537/(ln Hardness)+1.3519	
7. Mainstem of Peru Creek, including all tributaries and wetlands from the source to the confluence with the Snake River, except for specific listing in Segment 8.	UP	Aq Life Cold 1 Recreation N	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 NO <sub>2</sub> =0.05 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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 of the 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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot) <sup>C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
9. Mainstem of Deer Creek, including all tributaries and wetlands from the source to the confluence with the Snake River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
10. Mainstem of French Gulch including all tributaries and wetlands from the source to a point 1.5 miles below Lincoln.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Blue River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
11.	Mainstem of French Gulch from a point 1.5 miles below Lincoln to the confluence with the Blue River.	UP	Aq Life Cold 1 Recreation P Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=existing quality CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac)=TVS	Cu(ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=existing quality Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=existing quality	
12.	Mainstem of Illinois Gulch and Fredonia Gulch from their source to their confluence with the Blue River.		Aq Life Cold 12 Recreation P Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-49(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
13.	Mainstem of Tenmile Creek from the Climax Parshall Flume to a point immediately above the confluence of West Tenmile Creek and all tributaries and wetlands from the source of Tenmile Creek to a point immediately above the confluence with West Tenmile Creek, except for the specific listing in Segment 15.		Aq Life Cold 1 Recreation P Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
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 listing in Segment 16.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=210(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
15.	Mainstem of Clinton Creek from the source to the confluence with Tenmile Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
16.	All tributaries to the Blue River, including all wetlands, within the Eagles Nest and Ptarmigan Peak Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
17.	Mainstem of the Blue River from the outlet of Dillon Reservoir to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Blue River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
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 listing in Segment 16.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
19.	All tributaries to the Blue River, including all wetlands, from the outlet of Green Mountain Reservoir to the confluence with the Colorado River, except for specific listings in Segment 20.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
20.	Mainstems of Elliot Creek and Spruce Creek including all tributaries and wetlands, from their sources to the confluence with the Blue River.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
21.	All lakes and reservoirs within the Eagles Nest and Ptarmigan Peak Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
22.	<u>Dillon Reservoir and all lakes and reservoirs in the Blue River drainage above Dillon Reservoir, except for specific listings in Segment 21.</u>		<u>Aq Life Cold 1 Recreation E Water Supply Agriculture</u> <u>DUWS*</u>	<u>T=TVS(CL,CLL)<sup>°C</sup></u> <u>D.O.=6.0 mg/l</u> <u>D.O.(sp)=7.0 mg/l</u> <u>pH=6.5-9.0</u> <u>E.Coli=126/100ml<sup>B,C</sup></u> <u>Chla=8 ug/l (tot)<sup>B,C</sup></u>	<u>NH<sub>3</sub>(ac/ch)=TVS</u> <u>Cl<sub>2</sub>(ac)=0.019</u> <u>Cl<sub>2</sub>(ch)=0.011</u> <u>CN=0.005</u>	<u>S=0.002</u> <u>B=0.75</u> <u>NO<sub>2</sub>=0.05</u> <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=25 ug/l (tot)<sup>B,C</sup></u>	<u>As(ac)=340</u> <u>As(ch)=0.02(Trec)</u> <u>Cd(ac)=TVS(tr)</u> <u>Cd(ch)=TVS</u> <u>CrIII(ac)=50(Trec)</u> <u>CrIII(ch)=TVS</u> <u>CrVI(ac/ch)=TVS</u> <u>Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis)</u> <u>Fe(ch)=1000(Trec)</u> <u>Pb(ac/ch)=TVS</u> <u>Mn(ch)=WS(dis)</u> <u>Mn(ac/ch)=TVS</u> <u>Hg(ch)=0.01(tot)</u> <u>Mo(ch)=160(Trec)</u>	<u>Ni(ac/ch)=TVS</u> <u>Se(ac/ch)=TVS</u> <u>Ag(ac)=TVS</u> <u>Ag(ch)=TVS(tr)</u> <u>Zn(ac/ch)=TVS</u>	<u>*DUWS</u> <u>Applies only to</u> <u>Goose Pasture Tern</u>  <u>Special standards for</u> <u>Dillon Reservoir only:</u> <u>Total Phosphorus as</u> <u>P=0.0074 mg/l in the top</u> <u>15 meters of the water</u> <u>column for the months of</u> <u>July, August, September</u> <u>&amp; October.</u>  <u>Temporary modification:</u> <u>As(ch)=hybrid</u> <u>Expiration date of</u> <u>12/31/21.</u>
223.	All lakes and reservoirs in the Blue River drainage below Dillon Reservoir, except for specific listings in Segment 21.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B,C</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B,C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: <b>Eagle River</b>			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
1. All tributaries and wetlands to the Eagle River system within the Gore Range - Eagles Nest and Holy Cross Wilderness Area.	OW <sup>1</sup>	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
<sup>1</sup> Consistent with the provisions of section 25-8-104 C.R.S. the OW designation shall not apply with respect to the Homestake Water Project of the Cities of Aurora and Colorado Springs.									
2. Mainstem of the Eagle River from the source to the compressor house bridge at Belden.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l Ph=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
3. All tributaries to the Eagle River, including wetlands, from the source to the compressor house bridge at Belden, except for the specific listing in Segment 4 and those waters included in Segment 1.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4. Mainstem of Homestake Creek from the confluence of the East Fork to the confluence with the Eagle River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
5a Mainstem of the Eagle River from a point immediately above the compressor house bridge at Belden to a point immediately above the Highway 24 Bridge near Tigiwon Road.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=(1.101672- [ln(hardness)]*(0.04 1838)) <sup>0.7998</sup> [ln (hardness)]+3.1725 CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac)=0.96 <sup>*e</sup> 0.9801[ln(hardness)] - 1.1073 Cu(ch)=0.96 <sup>*e</sup> 0.5897[ln(hardness)] - 0.0053	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=0.978 <sup>*e</sup> 0.8537[ln(hardness)]+2.1302 Zn(ch)=0.986 <sup>*e</sup> 0.8537[ln(hardness)]+1.9593	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: <b>Eagle River</b>				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
5b.	Mainstem of the Eagle River from a point immediately above the Highway 24 Bridge near Tigiwon Road to a point immediately above the confluence with Martin Creek.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=(1.101672-[ln(hardness)]*(0.041838)) <sup>0.7998</sup> [ln(hardness)]-3.1725 CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac) = 0.96 <sup>e</sup> <sub>0.9801[ln(hardness)]-1.5865</sub> Cu(ch) = 0.96 <sup>e</sup> <sub>0.5897[ln(hardness)]-0.4845</sub>	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Mn(ac/ch)=TVS <b>January 1 through April 30</b> Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+2.1302</sub> <b>May 1 through December 31</b> Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.4189</sub> Zn(ch) = 0.986 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.9593</sub> <b>May 1 through December 31</b> Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.4189</sub> Zn(ch) = 0.986 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.2481</sub>	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
5c.	Mainstem of the Eagle River from a point immediately above Martin Creek to a point immediately above the confluence with Gore Creek.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=(1.101672-[ln(hardness)]*(0.041838)) <sup>0.7998</sup> [ln(hardness)]-3.1725 CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac) = 0.96 <sup>e</sup> <sub>0.9801[ln(hardness)]-1.5865</sub> Cu(ch) = 0.96 <sup>e</sup> <sub>0.5897[ln(hardness)]-0.4845</sub>	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.4189</sub> Zn(ch) = 0.986 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.2481</sub>	
6.	All tributaries to the Eagle River, including all wetlands, from the compressor house bridge at Belden to a point immediately below the confluence with Lake Creek, except for the specific listings in Segments 1, 7a, 7b, and 8.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
7a.	Mainstem of Cross Creek from the source to a point immediately below the Minturn Middle School, except for those waters included in Segment 1.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ch)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
7b.	Mainstem of Cross Creek from a point immediately below the Minturn Middle School to the confluence with the Eagle River, except for those waters included in Segment 1.	9/30/00 Baseline does not apply	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=(1.101672-[ln(hardness)]*(0.041838)) <sup>0.7998</sup> [ln(hardness)]-3.1725 CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac) = 0.96 <sup>e</sup> <sub>0.9801[ln(hardness)]-1.5865</sub> Cu(ch) = 0.96 <sup>e</sup> <sub>0.5897[ln(hardness)]-0.4845</sub>	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) <b>January 1 through April 30</b> Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+2.1302</sub> <b>May 1 through December 31</b> Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.4189</sub> Zn(ch) = 0.986 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.9593</sub> <b>May 1 through December 31</b> Zn(ac) = 0.978 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.4189</sub> Zn(ch) = 0.986 <sup>e</sup> <sub>0.8537[ln(hardness)]+1.2481</sub>	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Eagle River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
8.	Mainstem of Gore Creek from the confluence with Black Gore Creek to the confluence with the Eagle River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)<sup>C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
9a.	Mainstem of the Eagle River from Gore Creek to a point immediately below the confluence with Rube Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
9b.	Mainstem of the Eagle River from a point immediately below the confluence with Rube Creek to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10b.	Abrams Creek, including all tributaries and wetlands, from the source to the eastern boundary of the United States Bureau of Land Management lands.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
11.	Mainstem of Alkali Creek from the source to the confluence with the Eagle River; <u>MM</u> mainstem of Milk Creek from the source to the confluence with the Eagle River.		Aq Life Cold 2 Recreation P Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	CN(ac)=0.2	B=0.75 Cl=250 NO <sub>2</sub> (ae)=10 NO <sub>3</sub> (ae)=100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ac/ch)=TVS Zn(ch)=2000(Trec)	
12.	Mainstem of Brush Creek, from the source to the confluence with the Eagle River, including the East and West Forks.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13.	All lakes and reservoirs within the Gore Range - Eagles Nest and Holy Cross Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: <b>Eagle River</b>			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l				
Stream Segment Description										
14.		All lakes and reservoirs tributary to the Eagle River except for specific listings in Segment 13.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: <b>Roaring Fork River</b>			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l				
Stream Segment Description										
1.	OW	All tributaries to the Roaring Fork River system, including all wetlands, within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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 and specific listings in Segments 3b-10.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)<sup>C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
3b.		Mainstem of Red Canyon and all tributaries and wetlands from the source to the confluence with the Roaring Fork River, except for Landis Creek from its source to the Hopkins Ditch Diversion.	Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>#</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
3c.		Mainstem of the Roaring Fork River, from a point immediately below the confluence with the Fryingpan River, to the confluence with the Colorado River. Mainstem of Three Mile Creek, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Roaring Fork River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l			
Stream Segment Description									
4.	Mainstem of Brush Creek from the source to the confluence with the Roaring Fork River.	Aq Life Cold 1 Recreation E <u>Water Supply</u> Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=110 ug/l (tot) C</u>	As(ac)=340 As(ch)= <u>0.027-6(Trec)</u> Cd(ac)=TVS(tr) Cd(ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: <u>As(ch)=hybrid</u> <u>Expiration date of 12/31/21.</u>
5.	Mainstem of the Fryingspan River from the source to the confluence with the North Fork.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
6.	Mainstem of the Fryingspan River from the confluence with the North Fork to the confluence with the Roaring Fork River.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
7.	All tributaries to the Fryingspan River, including all wetlands, except for those tributaries included in Segment 1.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	
8.	Mainstem of the Crystal River, including all tributaries and wetlands, from the source to the confluence with the Roaring Fork River, except for specific listings in Segments 1, 9 and 10.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot) C</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
9.	Mainstem of Coal Creek including all tributaries and wetlands from the source to the confluence with the Crystal River.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10.	Mainstem of Thompson Creek including all tributaries and wetlands from the source to the confluence with the Crystal River.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>0</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Roaring Fork River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description										
11.	All lakes and reservoirs within the Maroon Bells/Snowmass, Holy Cross, Raggeds, Collegiate Peaks and Hunter/Fryingpan Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12.	All lakes and reservoirs tributary to the Roaring Fork River except for specific listings in Segment 11.		Aq Life Cold 1 Recreation E Water Supply Agriculture <u>DUWS*</u>	T=TVS(CL,CLL) <sup>°C</sup> Ruedi Res April-Dec T <sub>(WAT)</sub> =20.332 <sup>°C</sup> <sup>B</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>*DUWS</u> <u>Applies only to</u> <u>Leonard Thomas Res</u> <u>and Wildcat Res</u>

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: North Platte River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description										
1.	All tributaries to the North Platte and Encampment Rivers, including all wetlands, within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2.	Mainstem of the Encampment River, including all tributaries and wetlands, from the source to the Colorado/Wyoming border, except for those tributaries included in Segment 1.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
3.	Mainstem of the North Platte River from the confluence of Grizzly Creek and Little Grizzly Creek to the Colorado/Wyoming border.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u> <sup>C</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)<sup>C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
4a.	All tributaries to the North Platte River system, including all wetlands, except for those tributaries included in Segment 1, and specific listings in Segments 4b, 6, 7a and 7b.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: North Platte River				PHYSICAL and BIOLOGICAL		INORGANIC mg/l		METALS ug/l		
Stream Segment Description										
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 below 12E Road to the confluence with the North Platte River. All tributaries which enter the mainstem of the Canadian River from the southwest side of the mainstem.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS(dis) Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
5a.	Mainstem of the Michigan River from the source to a point immediately below the confluence with the North Fork Michigan River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS(dis) Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u> <sup>C</sup>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Mn(ch)=WS(dis) Mn(ac/ch)=TVS Pb(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
6.	Mainstem of Pinkham Creek from the Routt National Forest boundary to the confluence with the North Platte River.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS <u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
7a.	Mainstem of Government Creek from the boundary of the Colorado State Forest to the confluence with the Canadian River. Mainstem of Spring Creek from the source to the outlet of Spring Creek (Number 31) Reservoir.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u> Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Fish Ingestion
7b.	Mainstem of Spring Creek from the outlet of Spring Creek (Number 31) Reservoir to the confluence with the Illinois River.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u> Ni(ac/ch)=TVS	Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Fish Ingestion
8.	All lakes and reservoirs within the Mount Zirkel, Never Summer, and Platte River Wilderness Areas.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)</u> <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)</u> <sup>B</sup>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: North Platte River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description						Stream Segment Description			
9. All lakes and reservoirs tributary to the North Platte and Encampment Rivers except for specific listings in Segment 8.			Aq Life Cold 1 Recreation E Water Supply Agriculture Lake John April-Dec $T_{(WAT)}=20.7748^{\circ}\text{C}$ North Delaney Lake April-Dec $T_{(WAT)}=20.1436^{\circ}\text{C}$ South Delaney Lake April-Dec $T_{(WAT)}=18.78^{\circ}\text{C}$ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=8 ug/l (tot) <sup>B</sup>	$\text{NH}_3(\text{ac}/\text{ch})=\text{TVS}$ $\text{Cl}_2(\text{ac})=0.019$ $\text{Cl}_2(\text{ch})=0.011$ CN=0.005	S=0.002 B=0.75 $\text{NO}_2=0.05$ $\text{NO}_3=10$ Cl=250 $\text{SO}_4=\text{WS}$ <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Yampa River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		Stream Segment Description				
Stream Segment Description						Stream Segment Description				
1a. All tributaries to the Yampa River, including all wetlands, which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.			OW Aq Life Cold 1 Recreation E Water Supply Agriculture	$T=\text{TVS}(\text{CS-I})^{\circ}\text{C}$ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	$\text{NH}_3(\text{ac}/\text{ch})=\text{TVS}$ $\text{Cl}_2(\text{ac})=0.019$ $\text{Cl}_2(\text{ch})=0.011$ CN=0.005	S=0.002 B=0.75 $\text{NO}_2=0.05$ $\text{NO}_3=10$ Cl=250 $\text{SO}_4=\text{WS}$ <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS <u>Zn(ch)=TVS(sc)</u>	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
1b. All lakes and reservoirs which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.			OW Aq Life Cold 1 Recreation E Water Supply Agriculture	$T=\text{TVS}(\text{CL,CLL})^{\circ}\text{C}$ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	$\text{NH}_3(\text{ac}/\text{ch})=\text{TVS}$ $\text{Cl}_2(\text{ac})=0.019$ $\text{Cl}_2(\text{ch})=0.011$ CN=0.005	S=0.002 B=0.75 $\text{NO}_2=0.05$ $\text{NO}_3=10$ Cl=250 $\text{SO}_4=\text{WS}$	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2a. Mainstem of the Yampa River from the confluence with Wheeler Creek to a point immediately above the confluence with Oak Creek.			Aq Life Cold 1 Recreation E Water Supply Agriculture	$T=\text{TVS}(\text{CS-I})^{\circ}\text{C}$ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	$\text{NH}_3(\text{ac}/\text{ch})=\text{TVS}$ $\text{Cl}_2(\text{ac})=0.019$ $\text{Cl}_2(\text{ch})=0.011$ CN=0.005	S=0.002 B=0.75 $\text{NO}_2=0.05$ $\text{NO}_3=10$ Cl=250 $\text{SO}_4=\text{WS}$ <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
2b. All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 1b. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands.			Aq Life Cold 1 Recreation E Water Supply Agriculture	$T=\text{TVS}(\text{CL,CLL})^{\circ}\text{C}$ Stagecoach Res April-Dec $T_{(WAT)}=21.40^{\circ}\text{C}$ Steamboat Res April-Dec $T_{(WAT)}=21.60^{\circ}\text{C}$ D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	$\text{NH}_3(\text{ac}/\text{ch})=\text{TVS}$ $\text{Cl}_2(\text{ac})=0.019$ $\text{Cl}_2(\text{ch})=0.011$ CN=0.005	S=0.002 B=0.75 $\text{NO}_2=0.05$ $\text{NO}_3=10$ Cl=250 $\text{SO}_4=\text{WS}$	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Yampa River				PHYSICAL and BIOLOGICAL		INORGANIC mg/l		Stream Segment Description		
2e	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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
3.	All tributaries to the Yampa River, including all wetlands, from the source to the confluence with Elk River, except for specific listings in Segments 4-8, 13a-f and 19. Mainstem of the Bear River, including all tributaries and wetlands from the boundary of the Flat Tops Wilderness Area to the confluence with the Yampa River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot) C</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4.	Mainstem of Little White Snake Creek from the source to the confluence with the Yampa River.		Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340(dis) As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=5 CrIII(ac)=50 CrVI(ac)=50 Cu(ch)=200	Fe(ch)=WS(dis) Pb(ac)=50 Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ac)=2.0 <u>Mo(ch)=160</u>	Ni(ch)=100 Se(ch)=20 Ag(ac)=100 Zn(ac/ch)=2000	All metals are Trec unless otherwise noted.
5.	Mainstem of Chimney Creek, including all tributaries and wetlands, which are not on National Forest lands, from the source to the confluence with the Yampa River.		Aq Life Cold 1 Recreation P Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
6.	Mainstem of Oak Creek, including all tributaries and wetlands, from the source to <u>a point 0.25 miles below County Road 27</u> the point of discharge of the Oak Creek wastewater treatment plant.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
7.	Mainstem of Oak Creek, including all tributaries and wetlands, from <u>a point 0.25 miles below County Road 27</u> the point of discharge of the Oak Creek wastewater treatment plant to the confluence with the Yampa River.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=110 ug/l (tot) C</u>	As(ac)=340 As(ch)= <u>0.027-6(Trec)</u> Cd(ac)=TVS(tr) Cd(ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS	Cu(ac/ch)=TVS <u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>Temporary modification:</u> <u>As(ch)=hybrid</u> <u>Expiration date of 12/31/21.</u>
8.	Mainstem of the Elk River including, all tributaries and wetlands, from the source to the confluence with the Yampa River, except for those tributaries included in Segment 1 <sub>a</sub> and 20a and 20b.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot) C</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Yampa River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
9. Deleted.									
10. Deleted.									
11. Fish Creek, including all tributaries and wetlands, from the source to County Road 27, except for specific listings in Segment 20.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340(dis) As(ch)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ch)=200 <u>Mo(ch)=160</u> Ni(ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.
12. All tributaries to the Yampa River, including all wetlands, from the confluence with the Elk River to the confluence with Elkhead Creek, which are not on National Forest lands, except for specific listings in Segments 11 and 13a-f.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340(dis) As(ch)=100 Cd(ch)=10 CrIII(ch)=100 CrVI(ch)=100 Cu(ac)=200	Pb(ch)=100 Mn(ch)=200 <u>Mo(ch)=160</u> Ni(ch)=200	Se(ch)=20 Zn(ch)=2000	All metals are Trec unless otherwise noted.
13a. Mainstem of Trout Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River, which are not on National Forest lands, except for specific listings in Segments 13b, 13c and 13f.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TV S Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
13b. Mainstem of Foidel Creek, including all tributaries and wetlands. Mainstem Fish Creek, including all tributaries from County Road 27 downstream to the confluence with Trout Creek. Middle Creek and all tributaries, from County Road 27 downstream to the confluence with Trout Creek.		Aq Life Cold 1 Recreation E Agriculture	T=TVS(CS-II) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TV S Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Middle Creek <u>Apr-Jun</u> Fe(ch)= <del>2090</del> <del>4035</del> (Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13c. Mainstem of Trout Creek from the headgate of Spruce Hill Ditch (approximately 2,500 feet north of where County Road 27 crosses Trout Creek) to its confluence with Fish Creek. All tributaries to Trout Creek from the headgate of Spruce Hill Ditch (approximately 2,500 feet north of where County Road 27 crosses Trout Creek) to County Road 179 except for specific listings in 13b.		Aq Life Cold 1 Recreation E Agriculture  <b>June through February</b> Water Supply	T=TVS(CS-II) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TV S Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110 ug/l (tot)</u>  <b>June through February</b> NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS  <b>June through February</b> As(ch)=0.02(Trec) CrIII(ac)=50(Trec) CrIII(ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>  <b>June through February</b> Fe(ch)=WS(dis) Mn(ch)=WS(dis)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: June through February As(ch)=hybrid Expiration date of 12/31/21.
13d. Mainstem of Dry Creek, including all tributaries and wetlands, from the source to the confluence with the Yampa River near Hayden.	UP	Aq Life Warm 2 Recreation E <u>Water Supply</u> Agriculture	T=TVS(WS-II) <sup>o</sup> C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TV S Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=170 ug/l (tot)</u>	As(ac)=340 As(ch)= <u>0.02</u> 100(Trec) <sup>B</sup> Cd(ac/ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Mar-Apr Fe(ch)=3040(Trec) May-Feb Fe(ch)=1110(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	See section 33.6(4) for iron assessment locations.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Yampa River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
13e.	Mainstems of Sage Creek and Grassy Creek, including all tributaries and wetlands, from their sources to the confluence with the Yampa River.	UP	Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-II) <sup>o</sup> C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=170 ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Cd(ac)=TVS CrIII(ac)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac)=TVS Cu(ac)=TVS	Upper Sage Creek Fe(ch)=1250 Lower Sage Creek Fe(ch)=1000(Trec) Grassy Creek Fe(ch)=1000(Trec) Pb(ac)=TVS Mn(ac)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Zn(ac/ch)=TVS	Temporary modification. Fe(ch): "existing quality" (Type iii) for Grassy Creek. Expiration date of 12/31/2014.  Break between Upper and Lower Sage Creek is the west border of Section 18, T5N, R87W.  See section 33.6(4) for iron assessment locations.
13f.	Mainstem of Trout Creek, including all tributaries and wetlands, from a point immediately below its confluence with Fish Creek to the confluence with the Yampa River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac)=TVS Cu(ac)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=TVS Mn(ch)=WS(dis) Mn(ac)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)-hybrid Expiration date of 12/31/21.
14.	Mainstem of Elkhead Creek, including all tributaries and wetlands, from the boundary of the National Forest lands, to a point immediately below the confluence with Calf Creek, and below 80A Road on the Dry Fork of Elkhead Creek, including all tributaries and wetlands, from the source to a point immediately below 80A Road.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac)=TVS Cu(ac)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=TVS Mn(ch)=WS(dis) Mn(ac)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
15.	Mainstem of Elkhead Creek, including all tributaries and wetlands, from a point immediately below the confluence with Calf Creek, and below 80A Road on the Dry Fork of Elkhead Creek, including all tributaries and wetlands, from a point immediately below 80A Road to the confluence with the Yampa River.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) <sup>o</sup> C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac)=TVS Cu(ac)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=TVS Mn(ch)=WS(dis) Mn(ac)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
16.	Deleted									
17.	Deleted.									
18.	Mainstem of the Little Snake River, including all tributaries and wetlands, from the Routt National Forest boundary to the Colorado/Wyoming border		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac)=TVS Cu(ac)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=TVS Mn(ch)=WS(dis) Mn(ac)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
19.	All tributaries to the Little Snake River, including all wetlands, which are on National Forest lands in Routt County.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) <sup>o</sup> C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac)=TVS Cu(ac)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac)=TVS Mn(ch)=WS(dis) Mn(ac)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch) Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Yampa River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
20a. All tributaries to the Yampa River, including wetlands, above the confluence with Elkhead Creek that are within National Forest boundaries, except for specific listings in segment 20b.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CS-1) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TV S Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
20b. Mainstem of First Creek from the eastern boundary of state lands in California Park to the confluence with Elkhead Creek. Mainstem of Elkhead Creek from the eastern boundary of state lands in California Park to the National Forest boundary.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-1) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TV S Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110 ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
21. <u>All lakes and reservoirs which are within the Mount Zirkel, Flat Tops and Sarvis Creek Wilderness Areas.</u>	<u>QW</u>	<u>Aq Life Cold 1 Recreation F Water Supply Agriculture</u>	<u>T=TVS(CL,CLL)<sup>°C</sup></u> <u>D.O.=6.0 mg/l</u> <u>D.O.(sp)=7.0 mg/l</u> <u>pH=6.5-9.0</u> <u>E.Coli=126/100ml</u> <u>Chla=8 ug/l (tot)<sup>B</sup></u>	<u>NH<sub>3</sub>(ac/ch)=TV</u> <u>S</u> <u>Cl<sub>2</sub>(ac)=0.019</u> <u>Cl<sub>2</sub>(ch)=0.011</u> <u>CN=0.005</u>	<u>S=0.002</u> <u>B=0.75</u> <u>NO<sub>2</sub>=0.05</u> <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=25 ug/l (tot)<sup>B</sup></u>	<u>As(ac)=340</u> <u>As(ch)=0.02(Trec)</u> <u>Cd(ac)=TVS(tr)</u> <u>Cd(ch)=TVS</u> <u>CrIII(ac)=50(Trec)</u> <u>CrIII(ch)=TVS</u> <u>CrVI(ac/ch)=TVS</u> <u>Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis)</u> <u>Fe(ch)=1000(Trec)</u> <u>Pb(ac/ch)=TVS</u> <u>Mn(ch)=WS(dis)</u> <u>Mn(ac/ch)=TVS</u> <u>Hg(ch)=0.01(tot)</u> <u>Mo(ch)=160(Trec)</u>	<u>Ni(ac/ch)=TVS</u> <u>Se(ac/ch)=TVS</u> <u>Ag(ac)=TVS</u> <u>Ag(ch)=TVS(tr)</u> <u>Zn(ac/ch)=TVS</u>	
22. <u>All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 21. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands.</u>		<u>Aq Life Cold 1 Recreation F Water Supply Agriculture DUWS*</u>	<u>T=TVS(CL,CLL)<sup>°C</sup></u> <u>Pearl Lake</u> <u>April-Dec</u> <u>T<sub>WAT</sub>=19.58<sup>°C</sup><sup>D</sup></u> <u>Stagecoach Res</u> <u>April-Dec</u> <u>T<sub>WAT</sub>=21.49-25.53<sup>°C</sup><sup>D</sup></u> <u>Steamboat Lake</u> <u>April-Dec</u> <u>T<sub>WAT</sub>=21.60<sup>°C</sup><sup>D</sup></u> <u>D.O.=6.0 mg/l</u> <u>D.O.(sp)=7.0 mg/l</u> <u>pH=6.5-9.0</u> <u>E.Coli=126/100ml</u> <u>Chla=8 ug/l (tot)<sup>B,C</sup></u>	<u>NH<sub>3</sub>(ac/ch)=TV</u> <u>S</u> <u>Cl<sub>2</sub>(ac)=0.019</u> <u>Cl<sub>2</sub>(ch)=0.011</u> <u>CN=0.005</u>	<u>S=0.002</u> <u>B=0.75</u> <u>NO<sub>2</sub>=0.05</u> <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=25 ug/l (tot)<sup>B,C</sup></u>	<u>As(ac)=340</u> <u>As(ch)=0.02(Trec)</u> <u>Cd(ac)=TVS(tr)</u> <u>Cd(ch)=TVS</u> <u>CrIII(ac)=50(Trec)</u> <u>CrIII(ch)=TVS</u> <u>CrVI(ac/ch)=TVS</u> <u>Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis)</u> <u>Fe(ch)=1000(Trec)</u> <u>Pb(ac/ch)=TVS</u> <u>Mn(ch)=WS(dis)</u> <u>Mn(ac/ch)=TVS</u> <u>Hg(ch)=0.01(tot)</u> <u>Mo(ch)=160(Trec)</u>	<u>Ni(ac/ch)=TVS</u> <u>Se(ac/ch)=TVS</u> <u>Ag(ac)=TVS</u> <u>Ag(ch)=TVS(tr)</u> <u>Zn(ac/ch)=TVS</u>	<u>*DUWS</u> <u>Applies only to</u> <u>Stagecoach Res,</u> <u>Steamboat Lake and</u> <u>Yampa River Holding</u> <u>Pond</u>

### 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) Total phosphorus (TP) and chlorophyll a standards apply only to lakes and reservoirs larger than 25 acres surface area.

(C) Total phosphorus and chlorophyll a standards apply only above the facilities listed at 33.5(4).

(D) 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.

## **PROPOSED** **WATER QUALITY CONTROL DIVISION**

### **33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

##### A. Waterbody Segmentation

The Commission deleted, renumbered, and/or created new segments to facilitate appropriate organization of waterbodies in this regulation. The following changes were made:

Upper Colorado River 5: This segment was deleted and the lakes and reservoirs in this segment were moved to a new Segment 13 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins.

Blue River 3: This segment was deleted and the lakes and reservoirs in this segment were moved to a new Segment 22 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins. The waters previously in Segment 22 were renumbered to Segment 23 as a result.

Yampa River 1b: The lakes and reservoirs in this segment were moved to a new Segment 21 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins. Segment 1a was also changed to Segment 1 as a result.

Yampa River 2b: The lakes and reservoirs in this segment were moved to a new Segment 22 at the end of the subbasin to be consistent with the organization of lakes and reservoirs segments in other basins. Segment 2c was also changed to Segment 2b as a result.

Yampa River Segments 6 and 7: The boundary of these two segments did not change but the description was altered as it is not the Commission's practice to use the location of an outfall as a segment boundary. The boundary is now described as "a point 0.25 miles below County Road 27".

The following segment descriptions were edited to improve clarity, correct typographical errors, and correct spelling errors:

Upper Colorado River segment: 13  
Blue River segment: 6b  
Eagle River segments: 2 and 11  
Yampa River segments: 8, 14 and 15

##### B. Revised Aquatic-Life Use Classifications

The Commission reviewed information regarding the existing aquatic communities. Class 2 segments with exceptionally high MMI scores or a wide variety of fish species were upgraded from Class 2 to Class 1.

The following segment was upgraded from Cold 2 to Cold 1:

*[List to be completed following preliminary final action by the Commission.]*

#### C. Recreation Classifications and Standards

A review of the segments with an existing Recreation Use classification showed that one segment had an incorrect E. coli standard to protect that use. The E. coli standard was corrected for the following segment:

*[List to be completed following preliminary final action by the Commission.]*

#### D. Water Supply Use Classification and Standards

The Commission added a Water Supply Use classification and standards where the evidence demonstrated a reasonable potential for a hydrological connection between surface water and alluvial wells used for drinking water. The Water Supply Use classification and standards were added to the following segments:

*[List to be completed following preliminary final action by the Commission.]*

Numerous segments were missing the “(dis)” notation for the manganese water supply standard. These errors were corrected to “Mn(ch)=WS(dis)”.

A molybdenum standard of 210 ug/L was applied to the following segment to protect the Water Supply Use classification:

*[List to be completed following preliminary final action by the Commission.]*

#### E. Agriculture Standards

Molybdenum: In 2010, the Commission adopted a new standard for molybdenum to protect cattle from the effects of molybdenosis. The table value adopted at that time was 300 ug/l, but included an assumption of 48 mg/day of copper supplementation to ameliorate the effects of molybdenosis. State and local experts on cattle nutrition indicated that copper supplementation in the region is common, but is not universal. Therefore, copper supplementation assumption was removed from the equation, which yields a standard of 160 ug/l. The Commission expects that this value may be revised when data on the copper and molybdenum content of local forage becomes available. The Commission also notes that in light of EPA’s disapproval of the 300 ug/l table value in the Basic Standards and Methodologies for Surface Water, the Commission intends to review this value during the next Basic Standards triennial review.

The Agriculture table value assumes that the safe copper:molybdenum ratio is 4:1. Food and water intake is based on a 273 kg (600 lb) feeder steer consuming 6.8 kg/day of dry matter and 20% of its body weight in water per day. Total copper and molybdenum intakes are calculated from the following equations:

$$\text{Cu intake mg/day} = [([\text{Cu}] \text{ forage, mg/kg}) \times (\text{forage intake, kg/day})] + [([\text{Cu}] \text{ water, mg/l}) \times (\text{water intake, L/day})] + (\text{Cu supplementation, mg/day})$$

$$\text{Mo intake mg/day} = [([\text{Mo}] \text{ forage, mg/kg}) \times (\text{forage intake, kg/day})] + [([\text{Mo}] \text{ water, mg/l}) \times (\text{water intake, L/day})] + (\text{Mo supplementation, mg/day})$$

The assumed values for these equations are as follows:

[Cu] forage = 7 mg/kg, [Mo] forage = 0.5 mg/kg, forage intake = 6.8 kg/day, [Cu] water = 0.008 mg/L, [Mo] water = 0.375 mg/L, water intake = 54.6 L/day, Cu supplementation = 0 mg/day, Mo supplementation = 0 mg/day.

A molybdenum standard of 160 ug/l was adopted for the following segments in Regulation 33 that have an Agriculture Use classification, and where livestock or irrigated forage are present or expected to be present.

*[List to be completed following preliminary final action by the Commission.]*

The following segments have an Agriculture Use classification, but livestock or irrigated forage are not expected to be present. A molybdenum standard of 160 ug/L was not applied to these segments to protect the Agriculture Use classification:

*[List to be completed following preliminary final action by the Commission.]*

F. Changes to Antidegradation Designation

*[List to be completed following preliminary final action by the Commission.]*

G. Ambient Standards

Ambient standards are adopted where natural or irreversible man-induced conditions result in exceedances of table value standards. The Commission reviewed the information that is the basis for these standards, as well as any new information that would indicate whether they are still appropriate, need to be modified, or should be dropped. In some cases, new ambient standards were adopted. The following segments have ambient-based standards that were revised:

*[List to be completed following preliminary final action by the Commission.]*

New ambient based standards were adopted for the following segments:

*[List to be completed following preliminary final action by the Commission.]*

H. Aquatic Life Ammonia and Metals Standards

New Table Value Standards: The zinc, zinc sculpin, and aluminum table values were revised in the 2010 Basic Standards hearing. The acute and chronic zinc, zinc sculpin, and aluminum equations in 33.6(3) were modified to conform to Regulation 31. The footnotes to the table values in 33.6(3) were renumbered to match the appropriate references. Footnote (4 old) was deleted and a new footnote 4 was added.

Zinc sculpin standards: In low-hardness situations (hardness below 102 mg/L), the zinc equation is not protective of mottled sculpin (*Cottus bairdi*), a native west-slope fish species. A review of existing hardness and fishery data showed numerous segments with low average hardness (<102 CaCO<sub>3</sub> mg/l) and where the Colorado Division of Parks and Wildlife expects sculpin to be present. A sculpin-specific zinc equation was added to the following segments:

*[List to be completed following preliminary final action by the Commission.]*

For the following segments where hardness could exceed 102 mg/L, both the zinc sculpin standard and the chronic zinc table value standard were adopted:

*[List to be completed following preliminary final action by the Commission.]*

I. Uranium Standards

At the 2010 Basic Standards rulemaking hearing, the Commission changed the Water Supply table value for uranium from 30 ug/L to a hyphenated standard of 16.8-30 ug/L. The Commission revised the language in 33.5(3)(c) to reflect the change to the basin-wide standard. A new section 33.5(3)(c)(i) was

added to explain the hyphenated standard. Subsection 33.5(3)(d) was deleted because it was redundant with 33.5(3)(c).

#### J. Temporary Modifications

All existing Temporary Modifications were examined to determine if they should be allowed to expire or be extended. Temporary Modifications were not automatically extended if non-attainment persisted due to revisions made to the Temporary Modification provisions in 2005 and 2010.

The following segment had a Temporary Modification that was not extended:

*[List to be completed following preliminary final action by the Commission.]*

To remain consistent with the Commission's decisions regarding arsenic at 33.50, all existing temporary modifications for arsenic of "As(ch)=hybrid" (expiration date of 12/31/21) were retained. An arsenic temporary modification was added to the following segments, which had an existing or newly added chronic arsenic standard of 0.02 ug/L and a permitted discharger with a predicted water quality-based effluent limit compliance problem:

*[List to be completed following preliminary final action by the Commission.]*

#### K. Temperature

##### Ambient temperature standards for lakes

In the 2008 triennial review, the WAT standard was found to be unattainable for a number of cold large lakes and reservoirs with apparently healthy cold-water fish populations. Because summertime temperature in the mixed layer for large lakes and reservoirs is very well correlated to the waterbody's elevation, the Commission adopted ambient temperature standards for large lakes wherever data were available to characterize a WAT and the thermal characteristics of the lakes and reservoirs were determined to be the result of natural conditions. As a result of setting ambient temperature standards, the adequate refuge defined in Regulation 31, Table 1, footnote 5(c)(iii) was assessed using the site-specific temperature standard, and many lakes with obvious dissolved oxygen issues were considered to have adequate refuge.

Footnote 5(c)(iii) states:

When a lake or reservoir is stratified, the mixed layer may exceed the criteria in Table 1 provided that an adequate refuge exists in water below the mixed layer. Adequate refuge depends on concurrent attainment of applicable dissolved oxygen standards. If the refuge is not adequate because of dissolved oxygen levels, the lake or reservoir may be included on the 303(d) List as "impaired" for dissolved oxygen, rather than for temperature.

To ensure that adequate refuge is defined in a way that protects the Aquatic Life Use, the Commission adopted Footnote D which was applied to the temperature standard for deep stratified lakes. Footnote D states "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", and was applied to the following lake segments:

*[List to be completed following preliminary final action by the Commission.]*

#### L. Nutrients

In March 2012, the Commission adopted interim nutrient values in the Basic Standards (Regulation 31) and created a new statewide control regulation (Regulation 85) to address nutrients in Colorado.

Regulation 31.17 includes interim nutrient values for total phosphorus, total nitrogen, and chlorophyll a for both lakes and reservoirs, and rivers and streams. Due to the phased implementation approach adopted with these criteria (31.17(e)), the Commission adopted only total phosphorus and chlorophyll a standards at this time. Nitrogen standards were not considered as part of this rulemaking hearing, but will be considered in the next triennial review, currently scheduled for June, 2019.

Total phosphorus and chlorophyll a standards were adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. A new section (4) was added at 33.5 describing implementation of the interim nutrient values into the tables at 33.6, and includes a table which lists these facilities and the segment to which they discharge.

- For segments located entirely above these facilities, nutrient standards apply to the entire segment.
- For segments with portions downstream of these facilities, *nutrient standards only apply above these facilities*. A footnote “C” was added to the total phosphorus and chlorophyll a standards in these segments. The footnote references the table of qualified facilities at 33.5(4).
- For segments located entirely below these facilities, nutrient standards do not apply.

For rivers and streams segments, total phosphorus standards were adopted for segments with an aquatic life use. Chlorophyll a standards were adopted for segments with either an E, P, or U Recreation Use classification.

For lakes and reservoirs segments, a Footnote B was added to total phosphorus and chlorophyll standards adopted for lakes in the tables at 33.6, as these standards only apply to lakes larger than 25 acres.

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for Direct Use Water Supply (DUWS) lakes and reservoirs. No proposals were made by the Division to adopt standards based on this provision in this rulemaking.

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for circumstances where the provisions of Regulation 85 are not adequate to protect waters from existing or potential nutrient pollution. No proposals were made to adopt standards based on this provision in this rulemaking.

Chlorophyll a standards were adopted for the following segments:

*[List to be completed following preliminary final action by the Commission.]*

Total Phosphorus standards were adopted for the following segments:

*[List to be completed following preliminary final action by the Commission.]*

#### M. Direct Use Water Supply Sub-classification

Also in the March 2012 rulemaking hearing, the Commission adopted a sub-classification of the Domestic Water Supply Use called “Direct Use Water Supply Lakes and Reservoirs Sub-classification” (Regulation 31, at 31.13(1)(d)(i)). This sub-classification is for water supply lakes and reservoirs where there is a plant intake location in the lake or reservoir or a man-made conveyance from the lake or reservoir that is used regularly to provide raw water directly to a water treatment plant that treats and disinfects raw water. In this action today, the Commission has begun to apply this sub-classification and anticipates that it will

take several basin reviews to evaluate all the reservoirs in the basin. The Commission adopted the DUWS sub-classification on the following reservoirs and added “DUWS” to the classification column in the standards tables. The public water systems are listed along with the reservoirs and segments.

*[List to be completed following preliminary final action by the Commission.]*

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for Direct Use Water Supply (“DUWS”) lakes and reservoirs. No standards were adopted based on this provision in this rulemaking.

#### N. Chromium III Standards

A review of the chromium III standards showed that standards to protect the Aquatic Life Use classification may not be protective of the Agriculture use in some high-hardness situations. A chromium III standard of  $Cr_{III}(ch)=100(Trec)$  was added to segments with Aquatic Life and Agriculture Use classifications, but no Water Supply use. The acute chromium III standard associated with the Water Supply use is protective of the Agriculture use, but is not protective of the Aquatic Life use when hardness is less than 61 ug/l. For segments that have both Aquatic Life and Water Supply Use classifications, a chronic chromium III standard of  $Cr_{III}(ch)=TVS$  was added to all segments that did not previously have that standard. Changes were made to the following segments:

*[List to be completed following preliminary final action by the Commission.]*

#### O. Other Site-Specific Revisions

Blue River 5: The pH standard for Soda Creek was changed from 6.0-9.0 to the table value of 6.5-9.0, based on data demonstrating this value was currently being attained.

Eagle River 11: The “(ac)” notation was deleted from the nitrite and nitrate standards for this segment.

A footnote “A” was added to the chronic arsenic standard to explain the hyphenated standard on the following segments:

*[List to be completed following preliminary final action by the Commission.]*

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

**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**

**37.1 AUTHORITY**

These regulations are promulgated pursuant to section 25-8-101 et seq. C.R.S., as amended, and in particular, 25-8-203 and 25-8-204.

**37.2 PURPOSE**

These regulations establish classifications and numeric standards for the Colorado River Basin, including all tributaries and standing bodies of water. This includes all or parts of Garfield, Mesa, Rio Blanco, Moffat and Routt Counties. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters. Discharge permits will be issued by the Water Quality Control Division to comply with basic, narrative, and numeric standards and control regulations so that all discharges to waters of the state protect the classified uses. (See Regulation No. 31, section 31.14). It is intended that these and all other stream classifications and numeric standards be used in conjunction with and be an integral part of Regulation No. 31 Basic Standards and Methodologies for Surface Water.

**37.3 INTRODUCTION**

These regulations and tables present the classifications and numeric standards assigned to stream segments listed in the attached tables (see section 37.6). As additional stream segments are classified and numeric standards for designated parameters are assigned for this drainage system, they will be added to or replace the numeric standards in the tables in section 37.6. Any additions or revisions of classifications or numeric standards can be accomplished only after public hearing by the Commission and proper consideration of evidence and testimony as specified by the statute and the "basic regulations".

**37.4 DEFINITIONS**

See the Colorado Water Quality Control Act and the codified water quality regulations for definitions.

**37.5 BASIC STANDARDS**

(1) **TEMPERATURE**

All waters of the Colorado River Basin are subject to the following standard for temperature. (Discharges regulated by permits, which are within the permit limitations, shall not be subject to

enforcement proceedings under this standard). Temperature shall maintain a normal pattern of diurnal and seasonal fluctuations with no abrupt changes and shall have no increase in temperature of a magnitude, rate, and duration deemed deleterious to the resident aquatic life. This standard shall not be interpreted or applied in a manner inconsistent with section 25-8-104, C.R.S.

(2) QUALIFIERS

See Basic Standards and Methodologies for Surface Water for a listing of organic standards at 31.11 and metal standards found at 31.16 Table III. The column in the tables headed "Water + Fish" are presumptively applied to all aquatic life class 1 streams which also have a water supply classification, and are applied to aquatic life class 2 streams which also have a water supply classification, on a case-by-case basis as shown in the Tables 37.6. The column in the tables at 31.11 headed "Fish Ingestion" is presumptively applied to all aquatic life class 1 streams which do not have a water supply classification, and are applied to aquatic life class 2 streams which do not have a water supply classification, on a case-by-case basis as shown in Tables 37.6.

(3) URANIUM

(a) All waters of the Lower Colorado River Basin, are subject to the following basic standard for uranium, unless otherwise specified by a water quality standard applicable to a particular segment. However, discharges of uranium regulated by permits which are within these permit limitations shall not be a basis for enforcement proceedings under this basic standard.

(b) Uranium level in surface waters shall be maintained at the lowest practicable level.

(c) In no case shall uranium levels in waters assigned a water supply classification be increased by any cause attributable to municipal, industrial, or agricultural discharges so as to exceed 16.8-30 ug/l or naturally-occurring concentrations (as determined by the State of Colorado), whichever is greater.

(i) The first number in the 16.8-30 ug/l 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.

~~(d) In no case shall uranium levels in waters assigned a water supply classification be increased by a cause attributable to municipal, industrial, or agricultural discharges so as to exceed 30 ug/l where naturally-occurring concentrations are less than 30 ug/l.~~

(4) NUTRIENTS

Prior to May 31, 2022, interim nutrient values will be considered for adoption only in the limited circumstances defined at 31.17(e). These circumstances include headwaters, Direct Use Water Supply (DUWS) Lakes and Reservoirs, and other special circumstances determined by the Commission. Additionally, prior to May 31, 2017, only total phosphorus and chlorophyll a will be

considered for adoption. After May 31, 2017, total nitrogen will be considered for adoption per the circumstances outlined in 31.17(e).

Prior to May 31, 2022, nutrient criteria will be adopted for headwaters on a segment by segment basis for the Upper Colorado and North Platte River Basins. Moreover, pursuant to 31.17(e) nutrient standards will only be adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. The following is a list of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012 in the Upper Colorado and North Platte River Basins:

<b>Segment</b>	<b>Permittee</b>	<b>Facility name</b>	<b>Permit No.</b>
COLCLY02	Craig City of	CRAIG WWTF	CO0040037
COLCWH07	Whiteriver RV LLC	WHITERIVER RV SANITATION WWTF	COG588048
COLCWH07	Meeker Sanitation District	MEEKER SANITATION DISTRICT	CO0047139
COLCWH13b	Shell Frontier Oil & Gas Inc	CORRAL GULCH WWTF	CO0048859
COLCWH21	Rangely Town of	RANGELY WWTF	CO0000010
COLCLC01	Rifle City of	RIFLE REGIONAL WW RECLAMATION FACILITY	CO0048151
COLCLC01	Wastewater Treatment Service LLC	WASTE WATER TREATMENT SERVICES WWTF	COG589110
COLCLC01	Silt Town of	SILT TOWN OF	COG588046
COLCLC01	West Glenwood Springs SD	WEST GLENWOOD SPRINGS SD	COG588008
COLCLC01	Glenwood Springs City of	GLENWOOD SPRINGS REGIONAL WWTF	CO0048852
COLCLC01	Talbott Enterprises Inc	TALBOTT ENTERPRISES INC	COG588061
COLCLC01	New Castle Town of	NEW CASTLE WWTF	COG588062
COLCLC01	Riverbend Water and Sewer Company	RIVERBEND SUBDIVISION	COG588006
COLCLC02a	Colorado Retail Ventures Services LLC	CAMEO EAGLE TRAVEL CENTER	CO0048847
COLCLC02a	DeBeque Town of	DEBEQUE TOWN OF	CO0048135
COLCLC02a	Clifton Sanitation District	CLIFTON SANITATION DISTRICT	CO0033791
COLCLC02a	Battlement Mesa Metro Dist	BATTLEMENT MESA METRO DIST WWTF	COG589086
COLCLC02b	Palisade Town of	PALISADE WWTF	CO0000012
COLCLC03	Fruita City of	FRUITA WASTEWATER RECLAMATION FACILITY	CO0048854
COLCLC07a	Weiss & Associates	CANYON CREEK ESTATES WWTF	COG588081
COLCLC13b	Mesa Co/Grand Junction City of	PERSIGO WWTF	CO0040053
COLCLC15	Grand Mesa Metro Dist 2	GRANDE MESA METRO DIST 2	CO0023485
COLCLC15	Mesa WSD	MESA WSD	CO0048143
COLCLC16	Collbran Town of	VALLEYWIDE SEWERAGE SYSTEM	CO0040487

Prior to May 31, 2022:

- For segments located entirely above these facilities, nutrient standards apply to the entire segment.
- For segments with portions downstream of these facilities, *nutrient standards only apply above these facilities.* A footnote "C" was added to the total phosphorus and chlorophyll a standards in these segments. The footnote references the table of qualified facilities at 37.5(4).
- For segments located entirely below these facilities, nutrient standards do not apply.

A footnote "B" was added to the total phosphorus and chlorophyll a standards in lakes segments as nutrients standards apply only to lakes and reservoirs larger than 25 acres surface area.

## 37.6 TABLES

### (1) Introduction

The numeric standards for various parameters in the attached tables were assigned by the Commission after a careful analysis of the data presented on actual stream conditions and on actual and potential water uses.

Numeric standards are not assigned for all parameters listed in the tables attached to Regulation No. 31. If additional numeric standards are found to be needed during future periodic reviews, they can be assigned by following the proper hearing procedures.

### (2) Abbreviations:

(a) The following abbreviations are used in the attached tables:

ac	=	acute (1-day)
Ag	=	silver
Al	=	aluminum
As	=	arsenic
B	=	boron
Ba	=	barium
Be	=	beryllium
°C	=	degrees celsius
Cd	=	cadmium
ch	=	chronic (30-day)
<u>Chla</u>	=	<u>Chlorophyll a</u>
CL	=	cold lake temperature tier
Cl	=	chloride
CLL	=	cold large lake temperature tier
Cl <sub>2</sub>	=	residual chlorine
CN	=	free cyanide
CrIII	=	trivalent chromium
CrVI	=	hexavalent chromium
CS-I	=	cold stream temperature tier one
CS-II	=	cold stream temperature tier two
Cu	=	copper
dis	=	dissolved
D.O.	=	dissolved oxygen
DM	=	daily maximum
<u>DUWS</u>	=	<u>direct use water supply</u>
E.Coli	=	escherichia coli
Fe	=	iron
Hg	=	mercury
mg/l	=	milligrams per liter
ml	=	milliliters
Mn	=	manganese
<u>Mo</u>	=	<u>molybdenum</u>
MWAT	=	maximum weekly average temperature
NH <sub>3</sub>	=	ammonia as N(nitrogen)
Ni	=	nickel
NO <sub>2</sub>	=	nitrite as N (nitrogen)

NO <sub>3</sub>	=	nitrate as N (nitrogen)
OW	=	outstanding waters
P	=	phosphorus
Pb	=	lead
S	=	sulfide as undissociated H <sub>2</sub> S (hydrogen sulfide)
Sb	=	antimony
sc	=	sculpin
Se	=	selenium
SO <sub>4</sub>	=	sulfate
sp	=	spawning
T	=	temperature
<u>Tot</u>	=	<u>total</u>
Tl	=	thallium
tr	=	trout
Trec	=	total recoverable
TVS	=	table value standard
U	=	uranium
ug/l	=	micrograms per liter
UP	=	use-protected
WAT	=	weekly average temperature
WL	=	warm lake temperature tier
<u>WS</u>	=	<u>water supply</u>
WS-I	=	warm stream temperature tier one
WS-II	=	warm stream temperature tier two
WS-III	=	warm stream temperature tier three
WS-IV	=	warm stream temperature tier four
Zn	=	zinc

(b) In addition, the following abbreviations were used:

Fe(ch)	=	WS(dis)
Mn(ch)	=	WS(dis)
SO <sub>4</sub>	=	WS

These abbreviations mean: For all surface waters with an actual water supply use, the less restrictive of the following two options shall apply as numerical standards, as specified in the Basic Standards and Methodologies at 31.16 Table II and III:

- (i) existing quality as of January 1, 2000; or
- (ii)

Iron	=	300 µg/l (dissolved)
Manganese	=	50 µg/l (dissolved)
SO <sub>4</sub>	=	250 mg/l

For all surface waters with a “water supply” classification that are not in actual use as a water supply, no water supply standards are applied for iron, manganese or sulfate, unless the Commission determines as the result of a site-specific rulemaking hearing that such standards are appropriate.

~~(c) As used in the “Temporary Modifications and Qualifiers” column of the tables, the term “type i” refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(i) of the Basic Standards and Methodologies for Surface Water (i.e., “where the standard is not being met because of human-induced conditions deemed correctable within a twenty (20) year period). The term “type iii” refers to a temporary modification adopted pursuant to subsection 31.7(3)(a)(iii) of the Basic Standards and Methodologies for Surface Water (i.e., “where there is significant uncertainty regarding the appropriate long term underlying standard”). As used in the Temporary Modifications and Qualifiers column of~~

the tables in 37.6(5), the term “type A” refers to a Temporary Modification adopted pursuant to subsection 31.7(3)(a)(ii)(A) of the Basic Standards and Methodologies for Surface Water (i.e., “there is significant uncertainty regarding the water quality standard necessary to protect current and/or future use”). As used in the Temporary Modifications and Qualifiers column of the tables in 37.6(5), the term “type B” refers to a Temporary Modification adopted pursuant to subsection 31.7(3)(a)(ii)(B) of the Basic Standards and Methodologies for Surface Water (i.e., “there is significant uncertainty regarding the extent to which existing quality is the result of natural or irreversible human-induced conditions”).

(d) 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.
- (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.
  - (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.

(3) Table Value Standards

In certain instances in the attached tables, the designation "TVS" is used to indicate that for a particular parameter a "table value standard" has been adopted. This designation refers to numerical criteria set forth in the Basic Standards and Methodologies for Surface Water. The criteria for which the TVS are applicable are on the following table.

TABLE VALUE STANDARDS  
(Concentrations in ug/l unless noted)

PARAMETER <sup>(1)</sup>	TABLE VALUE STANDARDS <sup>(2)(3)</sup>
Aluminum (Trec)	$\text{Acute} = e^{(1.3695[\ln(\text{hardness})] + 1.8308)}$ <p>pH equal to or greater than 7.0</p> $\text{Chronic} = e^{(1.3695[\ln(\text{hardness})] - 0.1158)}$ <p>pH less than 7.0</p> $\text{Chronic} = e^{(1.3695[\ln(\text{hardness})] - 0.1158)} \text{ or } 87, \text{ whichever is more stringent}$
Ammonia <sup>(4)</sup>	<p>Cold Water = (mg/l as N) Total</p> $\text{acute} = \frac{0.275}{1 + 10^{7.204 - pH}} + \frac{39.0}{1 + 10^{pH - 7.204}}$

	$chronic = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$					
	<p>Warm Water = (mg/l as N)Total</p> $acute = \frac{0.411}{1 + 10^{7.204 - pH}} + \frac{58.4}{1 + 10^{pH - 7.204}}$					
	$chronic (Apr 1 - Aug 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * MIN(2.85, 1.45 * 10^{0.028(25 - T)})$ $chronic (Sep 1 - Mar 31) = \left( \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right) * 1.45 * 10^{0.028 * (25 - MAX(T, 7))}$					
NH <sub>3</sub> = old TVS	Cold Water Acute = 0.43/FT/FPH/2 <sup>(4 old)</sup> in mg/l (N)					
	Warm Water Acute = 0.62/FT/FPH/2 <sup>(4 old)</sup> in mg/l (N)					
Cadmium	<p>Acute = (1.136672 - [ln(hardness) x (0.041838)]) x e<sup>0.9151[ln(hardness)] - 3.1485</sup></p> <p>Acute(Trout) = (1.136672 - [ln(hardness) x (0.041838)]) x e<sup>0.9151[ln(hardness)] - 3.6236</sup></p> <p>Chronic = (1.101672 - [ln(hardness) x (0.041838)]) x e<sup>0.7998[ln(hardness)] - 4.4451</sup></p>					
Chromium III <sup>(5)</sup>	<p>Acute = e<sup>(0.819[ln(hardness)] + 2.5736)</sup></p> <p>Chronic = e<sup>(0.819[ln(hardness)] + 0.5340)</sup></p>					
Chromium VI <sup>(5)</sup>	<p>Acute = 16</p> <p>Chronic = 11</p>					
Copper	<p>Acute = e<sup>(0.9422[ln(hardness)] - 1.7408)</sup></p> <p>Chronic = e<sup>(0.8545[ln(hardness)] - 1.7428)</sup></p>					
Lead	<p>Acute = (1.46203 - [ln(hardness) * (0.145712)]) * e<sup>(1.273[ln(hardness)] - 1.46)</sup></p> <p>Chronic = (1.46203 - [ln(hardness) * (0.145712)]) * e<sup>(1.273[ln(hardness)] - 4.705)</sup></p>					
Manganese	<p>Acute = e<sup>(0.3331[ln(hardness)] + 6.4676)</sup></p> <p>Chronic = e<sup>(0.3331[ln(hardness)] + 5.8743)</sup></p>					
Nickel	<p>Acute = e<sup>(0.846[ln(hardness)] + 2.253)</sup></p> <p>Chronic = e<sup>(0.846[ln(hardness)] + 0.0554)</sup></p>					
Selenium <sup>(6)</sup>	<p>Acute = 18.4</p> <p>Chronic = 4.6</p>					
Silver	<p>Acute = 1/2 e<sup>(1.72[ln(hardness)] - 6.52)</sup></p> <p>Chronic = e<sup>(1.72[ln(hardness)] - 9.06)</sup></p> <p>Chronic(Trout) = e<sup>(1.72[ln(hardness)] - 10.51)</sup></p>					
Temperature	TEMPERATURE TIER	TIER CODE	SPECIES EXPECTED TO BE PRESENT	APPLICABLE MONTHS	TEMPERATURE STANDARD (°C)	
					(MWAT)	(DM)
	Cold Stream	CS-I	brook trout, cutthroat trout	June – Sept.	17.0	21.27

	Tier I			Oct. – May	9.0	13.0
	Cold Stream Tier II	CS-II	brown trout, rainbow trout, mottled sculpin, mountain whitefish, longnose sucker, Arctic grayling <u>all other cold-water species</u>	April – Oct.	18.23	23.89
				Nov. – March	9.0	13.0
	Cold Lake	CL	brook trout, brown trout, cutthroat trout, lake trout, rainbow trout, Arctic grayling, sockeye salmon	April – Dec.	17.0	21.2
				Jan. – March	9.0	13.0
	Cold Large Lake (>100)	CLL	<u>brown trout, lake trout, rainbow trout</u>	April – Dec.	18.23	23.8
				Jan. – March	9.0	13.0
	Warm Stream Tier I	WS-I	common shiner, Johnny darter, orangethroat darter	March – Nov.	24.2	29.0
				Dec. – Feb.	12.1	14.5
				March – Nov.	27.5	28.6
	Warm Stream Tier II	WS-II	brook stickleback, central stoneroller, creek chub, longnose dace, Northern redbelly dace, finescale dace, <u>razorback sucker, white sucker</u>	Dec. – Feb.	13.78	14.3
				March – Nov.	27.7	31.38
	Warm Stream Tier III	WS-III	<u>razorback-sucker</u> <u>all other warm-water Species</u>	Dec. – Feb.	13.9	15.2
				Dec. – Feb.	14.3	15.9
				March – Nov.	28.7	31.3
	Warm Stream Tier IV	WS-IV	Other-Warmwater Species	Dec. – Feb.	14.3	15.2
				April – Dec.	26.53	29.35
	Warm Lakes	WL	yellow perch, walleye, pumpkinseed, smallmouth bass, striped bass, white bass, largemouth bass, bluegill, spottail shiner, Northern pike, tiger muskellunge, black crappie, common carp, gizzard shad, sauger, white crappie, wiper	Jan. – March	13.32	14.68
				April – Dec.	26.53	29.35
Uranium	$\text{Acute} = e^{(1.1021[\ln(\text{hardness})]+2.7088)}$ $\text{Chronic} = e^{(1.1021[\ln(\text{hardness})]+2.2382)}$					
Zinc	$\text{Acute} = 0.978 \cdot e^{\frac{(0.8525[\ln(\text{hardness})]+1.0617) - (0.9094[\ln(\text{hardness})]+0.9095)}{(0.8525[\ln(\text{hardness})]+0.9109) - (0.9094[\ln(\text{hardness})]+0.6235)}}$ $\text{Chronic} = 0.986 \cdot e^{\frac{(0.8525[\ln(\text{hardness})]+1.0617) - (0.9094[\ln(\text{hardness})]+0.9095)}{(0.8525[\ln(\text{hardness})]+0.9109) - (0.9094[\ln(\text{hardness})]+0.6235)}}$ <p>if hardness less than <u>143-102</u> mg/l CaCO<sub>3</sub></p> $\text{Chronic (sculpin)} = e^{(2.227[\ln(\text{hardness})]-5.604) - (2.140[\ln(\text{hardness})]-5.084)}$					

#### TABLE VALUE STANDARDS - FOOTNOTES

- (1) Metals are stated as dissolved unless otherwise specified.
- (2) Hardness values to be used in equations are in mg/l as calcium carbonate and shall be no greater than 400 mg/L. The hardness values used in calculating the appropriate metal

standard should be based on the lower 95 per cent confidence limit of the mean hardness value at the periodic low flow criteria as determined from a regression analysis of site-specific data. Where insufficient site-specific data exists to define the mean hardness value at the periodic low flow criteria, representative regional data shall be used to perform the regression analysis. Where a regression analysis is not appropriate, a site-specific method should be used. In calculating a hardness value, regression analyses should not be extrapolated past the point that data exist.

- (3) Both acute and chronic numbers adopted as stream standards are levels not to be exceeded more than once every three years on the average.

(4) ~~FT = 10<sup>0.03(20-TCAP)</sup>;~~

~~Where TCAP is  $\leq T \leq 30$~~

~~FT = 10<sup>0.03(20-T)</sup>;~~

~~Where 0 is  $\leq T \leq$  TCAP~~

~~TCAP = 20° C cold water aquatic life species present~~

~~TCAP = 25° C cold water aquatic life species absent~~

~~FPH = 1; Where  $8 < \text{pH} \leq 9$~~

~~FPH =  $1 + \frac{10^{(7.4-\text{pH})}}{1.25}$ ; Where  $6.5 \leq \text{pH} \leq 8$~~

~~FPH means the acute pH adjustment factor, defined by the above formulas.~~

~~FT Means the acute temperature adjustment factor, defined by the above formulas.~~

~~T means temperature measured in degrees celsius.~~

~~TCAP means temperature CAP; the maximum temperature which affects the toxicity of ammonia to salmonid and non-salmonid fish groups.~~

~~NOTE: If the calculated acute value is less than the calculated chronic value, then the calculated chronic value shall be used as the acute standard.~~

- (4) For acute conditions the default assumption is that salmonids could be present in cold water segments and should be protected, and that salmonids do not need to be protected in warm water segments. For chronic conditions, the default assumptions are that early life stages could be present all year in cold water segments and should be protected. In warm water segments the default assumption is that early life stages are present and should be protected only from April 1 through August 31. These assumptions can be modified by the Commission on a site-specific basis where appropriate evidence is submitted.

- (5) Unless the stability of the chromium valence state in receiving waters can be clearly demonstrated, the standard for chromium should be in terms of chromium VI. In no case can the sum of the instream levels of Hexavalent and Trivalent Chromium exceed the water supply standard of 50 ug/l total chromium in those waters classified for domestic water use.

- (6) Selenium is a bioaccumulative metal and subject to a range of toxicity values depending upon numerous site-specific variables.

(4) Assessment Criteria

The following criteria shall be used when assessing whether a specified waterbody is in attainment of the specified standard.

(a) White River Segment 13b Selenium Assessment Thresholds and Locations

Corral Gulch, Se(ch)=5.7

Assessment location: Corral Gulch at the mouth.

Duck Creek, Se(ch)=7.9

Assessment location: Duck Creek at the mouth.

Yellow Creek, Se(ch)=6.9

Assessment location: Yellow Creek upstream from the confluence with Barcus Creek.

Greasewood Creek, Se(ch)=6.0

Assessment location: Greasewood Creek at the mouth.

(b) White River Segment 13c Iron Assessment Threshold and Location

Yellow Creek, Fe(ch)=1625

Assessment location: Yellow Creek at the mouth.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Yampa River/Green River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
1. Deleted.										
2. Mainstem of the Yampa River from a point immediately below the confluence with Elkhead Creek to the confluence with the Green River.			Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS Zn(ch)=TVS(see)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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 the specific listings in Segments 3b through 15, 17a, 17b and 18.		UP	Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-IV) °C <u>T=TVS(WS-III) °C</u> D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=630/100ml	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 <u>P=170ug/l (tot)</u> <sup>C</sup>	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
3b. Mainstems of Johnson Gulch, Pyeatt Gulch, Ute Gulch, Castor Gulch, No Name Gulch, Flume Gulch, Buzzard Gulch, Coyote Gulch, Deal Gulch, Horse Gulch (BOTH), and Elk Gulch, including all tributaries from their sources to their mouths.		UP	Aq Life Warm 2 Recreation P Agriculture	T=TVS(WS-IV) °C <u>T=TVS(WS-III) °C</u> D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100 <u>NH<sub>3</sub>(ac/ch)=TVS</u> <u>Cl<sub>2</sub>(ch)=0.011</u> <u>CN=0.005</u>	B=5 <u>S=0.002</u> B=0.75 <u>NO<sub>2</sub>=10</u> <u>NO<sub>3</sub>=100</u> <u>P=170ug/l (tot)</u>	As(ch)=200(Trec) Cd(ch)=50(Trec) CrIII(ch)=1000(tot) CrVI(ch)=1000(tot) Cu(ch)=500(Trec) As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Pb(ch)=100(Trec) <u>Fe(ch)=1000(Trec)</u> <u>Pb(ac/ch)=TVS</u> <u>Mn(ac/ch)=TVS</u> <u>Hg(ch)=0.01(tot)</u> <u>Mo(ch)=160(Trec)</u>	Se(ch)=50(Trec) Zn(ch)=25,000(Trec) <u>Ni(ac/ch)=TVS</u> <u>Se(ac/ch)=TVS</u> <u>Ag(ac/ch)=TVS</u> <u>Zn(ac/ch)=TVS</u>	Goal Qualifier: Se(ac/ch)=TVS for Johnson Gulch from the confluence of Johnson Gulch and Pyeatt Gulch to the confluence with the Yampa 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 the specific listings in Segment 3b and 3e.			Aq Life Warm 1 Recreation P Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
3d. Mainstem of Temple Gulch, Lay Creek, and Morgan Gulch from their sources to their confluences with the Yampa River.			Aq Life Warm 2 Recreation N Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) <u>As(ch)=0.02-10(Trec)<sup>A</sup></u> Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
3e. Mainstem of Good Spring Creek above Wilson Reservoir. <del>and Wilson Creek and their tributaries except for Jubb Creek.</del>			Aq Life Warm 2 Recreation P Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>A</sup> Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
3f. Big Gulch			Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 <u>P=170ug/l (tot)</u>	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec)	Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
3g. Mainstems of Ben Morgan Creek, Boxelder Gulch, Collom Gulch, Hale Gulch and Jubb Creek, including all tributaries from their sources to their mouths.		UP	Aq Life Warm 2 Recreation P Agriculture	T=TVS(WS-IV) °C <u>T=TVS(WS-III) °C</u> D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 <u>P=170ug/l (tot)</u>	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec)	Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS		
BASIN: Lower Yampa River/Green River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l				
Stream Segment Description											
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.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Trec) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.	
5.	Mainstem of Fortification Creek from the confluence of the North Fork and South Fork to the confluence with the Yampa River.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=170ug/L (tot)	As(ac)=340 As(ch)=7.6(Trec) As(ch)=0.02(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=WS(dis) Mn(ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.	
6a.	All tributaries to Fortification Creek, including all wetlands, from the confluence of the North and South Forks to the confluence with the Yampa River, except for the specific listings in Segments 4 and 7.	UP	Aq Life Warm 2 Recreation P Water Supply Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml Chla=150 mg/m <sup>2</sup>	CN(ac)=0.2 NO <sub>2</sub> =40 NO <sub>3</sub> =400 NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.005 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=170ug/L (tot)	As(ch)=400(Trec) Be(ch)=400(Trec) Cd(ch)=40(Trec) CrIII(ch)=400(Trec) As(ac)=340 As(ch)=0.02-10(Trec) <sup>A</sup> Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	CrVI(ch)=400(Trec) Cu(ch)=200(Trec) Pb(ch)=400(Trec) Mn(ch)=200(Trec) Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ac)=0.01(tot) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS		
6b.	Deleted.										
7.	Mainstem of Little Bear Creek, including all tributaries and wetlands, from the source to the confluence with Dry Fork.		Aq Life Cold 1 Recreation P Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=110ug/L (tot)	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)		
8.	Mainstem of the East Fork of the Williams Fork River, including all tributaries and wetlands which are within the boundaries of the Flat Tops Wilderness Area.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=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 Routt National Forest, except for the specific listings in Segment 8.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS		
10.	Mainstem of the East Fork of Williams Fork River including all tributaries and wetlands, from the boundary of Routt National Forest to the confluence with the South Fork of the Williams Fork River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.	
11.	Deleted.										

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Yampa River/Green River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
12a.	Mainstem of the South Fork of the Williams Fork River and Beaver Creek, including all tributaries and wetlands, from the boundary of Routt National Forest to their mouths, Milk Creek including all tributaries and wetlands from its source to a point just below the confluence with Clear Creek. Morapos Creek including all wetlands and tributaries from the source to the confluence with the Williams Fork River.	Aq Life Cold 1 Recreation P <u>Water Supply</u> Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 <u>SO<sub>4</sub>=WS</u> <u>P=110ug/L (tot)</u>	As(ac)=340 As(ch)=7.6(Free) <u>As(ch)=0.02(Trec)</u> Cd(ac)=TVS(tr) Cd(ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(see)		
12b.	Milk Creek including all tributaries and wetlands from a point just below the confluence with Clear Creek to Thornburgh (County Rd 15).	Aq Life Cold 1 Recreation P <u>Water Supply</u> Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 <u>SO<sub>4</sub>=WS</u> <u>P=110ug/L (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS		
13a.	Mainstem of the Williams Fork River from the confluence of the East Fork and South Fork to the Highway 13/789 bridge at Hamilton.	Aq Life Cold 2 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/L (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS		
13b.	Mainstem of the Williams Fork River from the highway 13/789 bridge at Hamilton to the confluence with the Yampa River.	Aq Life Warm 2 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170ug/L (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS Zn(ch)=TVS(see)		
14.	Deleted.									
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).	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/L (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)		
16.	Mainstem of the Little Snake River from a point immediately above the confluence with Powder Wash to the confluence with the Yampa River.	Aq Life Warm 2 Recreation E <u>Water Supply</u> Agriculture	<u>T=TVS(WS-IV) °C</u> <u>T=TVS(WS-III) °C</u> D.O.=5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 <u>SO<sub>4</sub>=WS</u> <u>P=170ug/L (tot)</u>	As(ac)=340 <u>As(ch)=400(Trec)</u> <u>As(ch)=0.02-10(Trec)<sup>Δ</sup></u> Cd(ac/ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> <u>Fe(ch)=6224(Trec)</u> <u>Fe(ch)=4400(Trec)</u> Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS		
17a.	All tributaries to the Little Snake River from its first crossing of the Colorado/Wyoming border to a point immediately below the confluence with Fourmile Creek, except for the specific listing in Segment 18.	Aq Life Cold 1 Recreation P <u>Water Supply</u> Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 <u>SO<sub>4</sub>=WS</u> <u>P=110ug/L (tot)</u>	As(ac)=340 As(ch)=7.6(Free) <u>As(ch)=0.02(Trec)</u> Cd(ac)=TVS(tr) Cd(ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>Temporary modification.</u> <u>As(ch)=hybrid</u> <u>Expiration date of 12/31/21.</u>	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Yampa River/Green River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
17b. All tributaries to the Little Snake River from a point immediately below the confluence with Fourmile Creek to the confluence with the Yampa River.		UP	Aq Life Warm 2 Recreation N <u>Water Supply</u> Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100 NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.05 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=170ug/L (tot)	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec) As(ac)=340 As(ch)=0.02-10(Trec) <sup>A</sup> Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ac)=0.01(tot) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=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.			Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Mn(ac/ch)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
19a. Mainstem of the Green River within Colorado (Moffat County) from its entry at the Utah/Colorado border to a point just above the confluence with the Yampa River..			Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19b. Mainstem of the Green River within Colorado (Moffat County) from a point just above the confluence with the Yampa River to its exit at the Utah/Colorado border.			Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli =126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=170ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
20. All tributaries to the Green River in Colorado, including all wetlands, except for the specific listings in Segments 21, 22a, 22b and 22c. All tributaries to the Yampa River from a point immediately below the confluence with the Little Snake River to the confluence with the Green River, except for the specific listings in segments 15 through 18.			Aq Life Cold 2 Recreation E <u>Water Supply</u> Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp) =7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml Chla=150 mg/m <sup>2</sup>	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	S=0.05 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ch)=100(Trec) As(ch)=0.02-10(Trec) <sup>A</sup> Be(ch)=100(Trec) Be(ch)=4.0(Trec) Cd(ac)=5.0(Trec) Cd(ch)=10(Trec) CrIII(ac)=50(Trec) CrIII(ch)=100(Trec)	CrVI(ac)=50(Trec) CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Fe(ch)=WS(dis) Pb(ac)=50(Trec) Pb(ch)=100(Trec) Mn(ch)=WS(dis) Mn(ch)=200(Trec) Hg(ac)=2.0(tot) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Ni(ch)=100(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
21. Mainstem of Beaver Creek, including all tributaries and wetlands, from the source to the confluence with the Green River within Colorado.			Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/L (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
22a. Mainstem of Vermillion Creek, including all tributaries and wetlands, from the Colorado/Wyoming border to a point just below the confluence with Talamantes Creek.			Aq Life Cold 1 Recreation N Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=110ug/L (tot)	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Yampa River/Green River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
22b.	Vermillion Creek, including all tributaries and wetlands, from a point just below the confluence with Talamantes Creek to the confluence with the Green River, except for the specific listing in segment 22c.		Aq Life Warm 2 Aq Life Warm 1 Recreation N Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=170ug/l (tot)	As(ac)=340 As(oh)=400(Free) As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
22c.	Mainstem of Vermillion Creek from HWY 318 to the confluence with the Green River.		Aq Life Warm 2 Aq Life Warm 1 Recreation E Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O.=5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=170ug/l (tot)	As(ac)=340 As(oh)=400(Free) As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Mo(ch)=160(Trec)	Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
23.	All lakes and reservoirs tributary to the Yampa River, from a point just below the confluence with Elkhead Creek to a point just below the confluence with the Little Snake River except for the specific listings in segments 24-32. This segment includes Martin Cull Reservoir, and OVO Reservoir.		Aq Life Warm 1 Recreation U Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=20 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=83ug/l (tot) <sup>B</sup>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
24.	Freeman Reservoir and Aldrich Lakes.		Aq Life Cold 1 Recreation E Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=8 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=25ug/l (tot) <sup>B</sup>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
25.	All lakes and reservoirs tributary to Fortification Creek from the source to the confluence of the North and South Forks. All lakes and reservoirs tributary to Little Cottonwood Creek from the source to the confluence with Fortification Creek, except for the specific listing in segment 24. All lakes and reservoirs tributary to Little Bear Creek from the source to the confluence with the Dry Fork.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=8 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=25ug/l (tot) <sup>B</sup>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(Trec) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
26.	All lakes and reservoirs tributary to Fortification Creek, including Ralph White Lake, except for specific listings in segments 24 and 25.		Aq Life Warm 1 Recreation U Water Supply Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=20 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=83ug/l (tot) <sup>B</sup>	As(ac)=340 As(oh)=7.6(Free) As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
27.	All lakes and reservoirs tributary to Milk Creek from Thornburgh (County Rd 15) to the confluence with the Yampa River, including Wilson Reservoir.		Aq Life Warm 1 Recreation U Water Supply DLWS Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=20 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=83ug/l (tot) <sup>B</sup>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Wilson Reservoir = DLWS
28.	All lakes and reservoirs tributary to the East Fork of the Williams Fork River, within the boundaries of the Flat Tops Wilderness Area.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml Chla=8 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=25ug/l (tot) <sup>B</sup>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Yampa River/Green River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
29.	All lakes and reservoirs tributary to the East and South Forks of the Williams Fork River, and lakes and reservoirs tributary to the mainstem of the Williams Fork River, from the source to the Highway 13/789 bridge at Hamilton, except for the specific listings in segment 28.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
30.	All lakes and reservoirs tributary to Milk Creek from the source to Thornburgh (County Rd 15). All lakes and reservoirs tributary to Morapos Creek from the source to the confluence with the Williams Fork River.		Aq Life Cold 1 Recreation U Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 Cl=250 <u>P=25ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
31.	All lakes and reservoirs tributary to Slater Creek, from the source to a point just below the confluence with Second Creek, including Slater Creek Lake. All lakes and reservoirs tributary to Fourmile and Willow Creeks from their sources to the boundary of the Rout National Forest.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
32.	All lakes and reservoirs tributary to the Yampa River from a point just below the confluence with the Little Snake River to the confluence with the Green River. All lakes and reservoirs tributary to the Green River in Colorado, including Hog Lake, except for specific listings in segment 33.		Aq Life Warm 1 Recreation E Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml <u>Chla=20 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=83ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
33.	All lakes and reservoirs tributary to Beaver Creek from the source to the confluence with the Green River. All lakes and reservoirs tributary to Vermillion Creek from the Colorado/Wyoming border to a point just below the confluence with Talamantes Creek.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126 /100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: White River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
1.	All tributaries to the White River, including all wetlands, which are within the boundaries of the Flat Tops Wilderness Area.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
2.	Deleted.									
3.	Mainstem of the North Fork of the White River and mainstem of the White River from the Flat Tops Wilderness Area boundary to a point immediately above the confluence with Miller Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
4.	All tributaries to the North Fork of the White River, including all wetlands, from the Flat Tops Wilderness Area boundary to the confluence with the South Fork of the White River except for the specific listings in Segment 1.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
5.	Deleted.									
6.	Mainstem of the South Fork of the White River, including all tributaries and wetlands, from the boundary of the Flat Tops Wilderness Area to the confluence with the North Fork of the White River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(sc)	
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.		Aq Life Cold 1 Dec 1 to March 1 Recreation P March 2 to Nov. 30 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 Dec. 1 to March 1 E.Coli=205/100ml March 2 to Nov. 30 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u> <sup>C</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)<sup>C</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
8.	All tributaries to the White River, including all wetlands, from the confluence of the North and South Forks to a point immediately above the confluence with Piceance Creek, which are within the boundaries of White River National Forest.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9a.	All tributaries to the White River, including all wetlands, from the confluence of the North and South Forks to a point immediately above the confluence with Flag Creek, which are not within the boundary of national forest lands, except for the specific listings in Segments 9c, 9d and 10b.		Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =VVS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: White River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l		
9b.	All tributaries to the White River, including wetlands, from a point immediately above the confluence with Flag Creek, to a point immediately above the confluence with Piceance Creek, which are not within the boundary of national forest lands, except for the specific listings in segments 9c and 9d.	Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)<sup>C</sup></u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9c.	Mainstems of Flag Creek, including all tributaries and wetlands, from the source to a point just below the confluence with the East Fork of Flag Creek.	Aq Life Cold 2 6/1 to 8/31 Recreation E 9/1 to 5/31 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 6/1 to 8/31 E.Coli=126/100ml 9/1 to 5/31 E.Coli=630/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=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.	Aq Life Cold 2 6/1 to 8/31 Recreation E 9/1 to 5/31 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 6/1 to 8/31 E.Coli=126/100ml 9/1 to 5/31 E.Coli=630/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10a.	All lakes and reservoirs tributary to the White River, from the confluence of the North and South Forks of the White River to a point immediately above the confluence of the White River and Piceance Creek, except for specific listing in Segments 11, 25 and 27.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.	Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
11.	Rio Blanco Lake and Taylor Draw Reservoir (a.k.a. Kenney Reservoir).	Aq Life Warm 1 Recreation E Water Supply <u>DUWS*</u> Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=20 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=83ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	* Kenney Reservoir = <u>DUWS</u>
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.	Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
13a.	All tributaries to the White River, including all wetlands, from a point immediately below the confluence with Piceance Creek to a point immediately above the confluence with Douglas Creek, except for the specific listings in Segments 13b through 20.	UP Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-IV) °C <u>T=TVS(WS-III) °C</u> D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 <u>P=170ug/l (tot)</u>	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: White River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l		
13b.	Mainstem of Yellow Creek including all wetlands from the source to <u>immediately below</u> the confluence with Barcus Creek. All tributaries to Yellow Creek from the source to the White River, including wetlands.	Aq Life Warm 2 <u>Recreation-N</u> <u>Recreation P</u> <u>Water Supply</u> Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml F.Coli=205/100ml Chla=150 mg/m <sup>2</sup> C	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=5.0 NO <sub>2</sub> =40 NO <sub>3</sub> =100 NO <sub>3</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=170ug/l (tot) C	As(ac)=340 As(eh)=400(Free) As(ch)=0.02-10(Trec) A Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Se(eh)=7.3 Ag(ac/ch)=TVS Zn(ac/ch)=TVS Corral Gulch Se(ch)=5.7 Duck Creek Se(ch)=7.9* Yellow Creek Se(ch)=6.9* Greasewood Creek Se(ch)=6.0*	*See assessment locations
13c.	Mainstem of Yellow Creek, including all wetlands from immediately below the confluence with Barcus Creek to the confluence with the White River.	Aq Life Warm 2 <u>Recreation-N</u> <u>Recreation P</u> Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml F.Coli=205/100ml Chla=150 mg/m <sup>2</sup> C	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=5.0 NO <sub>2</sub> =10 NO <sub>3</sub> =100 P=170ug/l (tot)	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(eh)=1425(Free) Fe(ch)=1625(Trec)* Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	*See assessment location
13d.	Violett Springs Ponds.	Aq Life Cold 2 <u>Recreation P</u> Agriculture	T=TVS (CL) °C D.O.=6.0 mg/l pH=6.5-9.0 E. Coli=205/100ml Chla=8 ug/l (tot) B	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=5.0 NO <sub>2</sub> =10 NO <sub>3</sub> =100 P=25 ug/l (tot) B	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
14a.	Mainstem of Piceance Creek from the source to a point just below the confluence with Hunter Creek.	Aq Life Cold 1 <u>Recreation P</u> <u>Water Supply</u> Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(eh)=7.6(Free) As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
14b.	Mainstem of Piceance Creek from a point just below the confluence with Hunter Creek to a point just below the confluence with Ryan Gulch.	Aq Life Cold 1 <u>Recreation P</u> <u>Water Supply</u> Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(eh)=7.6(Free) As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
15.	Mainstem of Piceance Creek from a point just below the confluence with Ryan Gulch to the confluence with the White River. The Dry Fork of Piceance Creek, including all tributaries and wetlands, from a point just below the confluence with Little Reigan Gulch to the confluence with Piceance Creek.	Aq Life Warm 2 <u>Recreation P</u> <u>Water Supply</u> Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(eh)=400(Free) As(ch)=0.02-10(Trec) A Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
16.	All tributaries to Piceance Creek, including all wetlands, from the source to the confluence with the White River, except for the specific listings in Segments 15, 17, 18, 19 and 20.	Aq Life Warm 2 <u>Recreation-P</u> <u>Recreation N</u> <u>Water Supply</u> Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml F.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(eh)=400(Free) As(ch)=0.02-10(Trec) A Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: White River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
17.	Stewart Gulch from the sources of the East Middle, and West Forks to the confluence with Piceance Creek.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Fish Ingestion
18.	Mainstem of the Dry Fork of Piceance Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Little Reigan Gulch. Willow and Hunter Creeks, including all tributaries and wetlands, from their sources to their confluences with Piceance Creek.		Aq Life Cold 2 Recreation N Recreation P Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml <u>E.Coli=205/100ml</u> <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=400(Trec) <u>As(ch)=0.02-10(Trec)<sup>A</sup></u> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19.	Mainstem of Fawn Creek from the source to the confluence with Black Sulphur Creek.		Aq Life Cold 2 Recreation P Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
20.	Mainstems of Black Sulphur Creek including all tributaries and wetlands from the source to the confluence with Piceance Creek.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=400(Trec) <u>As(ch)=0.02-10(Trec)<sup>A</sup></u> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
21.	Mainstem of the White River from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=100(Trec)</u> CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
22.	All tributaries to the White River, including all wetlands, from a point immediately above the confluence with Douglas Creek to the Colorado/Utah border, except for specific listing in Segment 23.		Aq Life Warm 2 Recreation P Agriculture	<u>T=TVS(WS-IV) °C</u> <u>T=TVS(WS-III) °C</u> D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 <u>P=170ug/l (tot)</u>	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
23.	Mainstems of East Douglas Creek and West Douglas Creek, including all tributaries and wetlands, from their sources to their confluence.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: White River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l			
24.	All lakes and reservoirs tributary to the White River, which are within the boundaries of the Flat Tops Wilderness Area, including Trappers Lake.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS
25.	Lake Avery (a.k.a Big Beaver Reservoir).		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CLL) °C Apr-Dec T <sub>(WAT)</sub> =20.7 °C <sup>D</sup> D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS
26.	All lakes and reservoirs tributary to the North and South Forks of the White River, from the Flat Tops Wilderness Area boundary to the confluence with the North and South Forks of the White River.		Aq Life Cold 1 Recreation U Water Supply Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS
27.	All lakes and reservoirs tributary to the White River, from a point immediately above the confluence with Piceance Creek to the Colorado/Utah border, except for the specific listings in segments 11 and 13d.		Aq Life Warm 1 Recreation U Agriculture	T=TVS(WL) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=20 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=83 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Lower Colorado River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l		
1.	Mainstem of the Colorado River from the confluence with the Roaring Fork River to immediately below the confluence with Rifle Creek.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21
2a.	Mainstem of the Colorado River from immediately below the confluence with Rifle Creek to immediately above the confluence of Rapid Creek.	Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.	Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
3.	Mainstem of the Colorado River from immediately above the confluence of the Gunnison River to the Colorado-Utah state line.	Aq Life Warm 1 Recreation E Agriculture	T=TVS(WS-II) °C D.O. =5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4a.	All tributaries, including wetlands, to the Colorado River from the confluence with the Roaring Fork River to a point immediately below the confluence with Parachute Creek except for the specific listings in Segments 4b, 4c, 4d, 4e, 5, 6, 7a, 7b, 8, 9a, 9c, 10, 11a - h, and 12a.	Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>A</sup> Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4b.	South Canyon Hot Springs.	Aq Life Warm 2 Recreation E	D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
4c.	The mainstem of South Canyon Creek from the South Canyon Hot Springs to the confluence with the Colorado River.	Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup>C</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4d.	The mainstem of Dry Hollow Creek, including all tributaries and wetlands, from the source to the confluence with the Colorado River.	Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>A</sup> Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Colorado River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
4e.	Mainstem of Dry Creek including all tributaries and wetlands from the source to immediately above the Last Chance Ditch.	UP	Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary Modifications: <del>Cu(ac/ch)=existing quality</del> <del>Fe(ch)=existing quality(Tree)</del> (Type iii) Expiration 12/31/2015
4f.	Mainstem of Dry Creek including all tributaries and wetlands from a point immediately above the Last Chance Ditch to the confluence with the Colorado River.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=110ug/l (tot)</u>	As(ac)=340 <del>As(ch)=7.6(Trec)</del> <u>As(ch)=0.02(Trec)</u> Cd(ac/ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<del>Fe(ch)=WS(dis)</del> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: <u>As(ch)=hybrid</u> Expiration date of <u>12/31/21</u>
5.	All tributaries to the Colorado River, including wetlands, which are within the boundaries of White River National Forest, except for the specific listing in Segments 9a and 9c.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
6.	Mainstem of Oasis Creek including all tributaries and wetlands from the boundary of White River National Forest to the confluence with the Colorado River.		Aq Life Cold 2 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>h</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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. Battlement Creek from the most downstream boundary of BLM lands to the confluence with the Colorado River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS Zn(ch)=TVS(see)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
8.	Mainstem of Northwater and Trapper Creeks, including all tributaries and wetlands, from their sources to the confluence with the East Middle Fork of Parachute Creek. East Middle Fork of Parachute Creek, including all tributaries and wetlands, from the source to the confluence with the Middle Fork of Parachute Creek.	OW	Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9a.	Middle Rifle Creek, including all tributaries and wetlands, from its source to the confluence with West Rifle Creek. East Rifle Creek, including all tributaries and wetlands, from the source to the boundary of the White River National Forest.		Aq Life Cold 1 Recreation E Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Colorado River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
9b.	All lakes and reservoirs tributary to the Colorado River from the confluence of the Colorado and the Roaring Fork River to a point immediately below the confluence of the Colorado River and Parachute Creek, and all lakes and reservoirs within the White River National Forest or the Grand Mesa National Forest, except for the specific listing in segment 20.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=8 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=25ug/l (tot) <sup>B</sup>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ch)=TVS Zn(ac/ch)=TVS	
9c.	Battlement Creek, including all tributaries and wetlands, from the source to the most downstream boundary of BLM lands.	OW	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=150 mg/m <sup>2</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21
11a.	Mainstem of the West Fork of Parachute Creek, including all tributaries, from its source to West Fork Falls. Mainstem of East Fork of Parachute Creek, including all tributaries and wetlands, from a point immediately below the mouth of First Anvil Creek to the east boundary line of S27, T5S, R95W.		Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS P=110ug/l (tot)	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrIII(ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11b.	Mainstem of the West Fork of Parachute Creek from West Fork Falls to the confluence with Parachute Creek; mainstem of the Middle Fork of Parachute Creek including all tributaries from the north boundary line of S49, T5S, R95W source to the confluence with East Middle Fork of Parachute Creek.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 F.Coli=2000/100ml E.Coli=630/100ml	CN(ac)=0.2 NO <sub>2</sub> =40 NO <sub>3</sub> =100 NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	B=0.75 S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=110ug/l (tot)	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11c.	<del>Deleted.</del> Mainstem of the Middle Fork of Parachute Creek including all tributaries (includes Davis Gulch and tributaries), from the source to the north boundary line of S49, T5S, R95W.		Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2 NO <sub>2</sub> =40 NO <sub>3</sub> =100	B=0.75	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec)	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11d.	Mainstem of Middle Fork of Parachute Creek from the confluence with East Middle Fork to a point immediately above the confluence with the West Fork of Parachute Creek.		Aq Life Cold 1 Recreation N Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 P=110ug/l (tot)	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Mo(ch)=160(Trec)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Colorado River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
11e. That portion of the mainstem of the East Fork of Parachute Creek, including all tributaries and wetlands, within Sections 27, 28, and 29, T5S, R95W.			Aq Life Cold 2 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100m	CN(ac)=0.2 NO <sub>2</sub> =1.0 NO <sub>3</sub> =10	S=0.002 B=0.75 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ch)=0.02-10(Trec) <sup>Δ</sup> <u>Be(ch)=100(Trec)</u> <u>Be(ac)=4.0(Trec)</u> <u>Cd(ac)=5.0(Trec)</u> <u>Gd(ch)=40(Trec)</u> CrIII(ac)=50(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) <u>CrVI(ch)=50(Trec)</u> Cu(ch)=200(Trec) Fe(ch)=WS(dis) <u>Pb(ac)=50(Trec)</u> <u>Pb(ch)=100(Trec)</u> Mn(ch)=WS(dis) Mn(ch)=200(Trec) Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) <u>Ni(ch)=100(Trec)</u> Se(ch)=20(Trec) <u>Ag(ac)=100(Trec)</u> Zn(ch)=2000(Trec)	
11f. Mainstem of the East Fork of Parachute Creek from the west boundary line of S29, T5S, R95W to the confluence with Middle Fork of Parachute Creek.			Aq Life Cold 1 Recreation N Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
11g. All tributaries to East Fork Parachute Creek on the south side of the East Fork Parachute Creek from a point immediately below First Anvil Creek to the confluence with Parachute Creek; all tributaries to Parachute Creek on the east side of Parachute Creek from a point immediately below the East Fork of Parachute Creek to the confluence with the Colorado River; and all tributaries to the Colorado River on the north side of the Colorado River from a point immediately below Cottonwood Creek to the confluence with Parachute Creek except for specific listings in segment 7a and 9c.			Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	CN(ac)=0.2 NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 <u>P=110ug/l (tot)</u>	As(ch)=100(Trec) Be(ch)=100(Trec) Cd(ch)=10(Trec) CrIII(ch)=100(Trec)	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec)	
11h. Mainstem of Parachute Creek, including all tributaries and wetlands, from the confluence of the West and East Forks to the confluence with the Colorado River except for specific listings in segment 11g.			Aq Life Cold 2 <u>Aq Life Cold 1</u> Recreation P <u>Water Supply</u> Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =400 <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=110ug/l (tot)</u>	As(ac)=340 <u>As(ch)=100(Trec)</u> <u>As(ch)=0.02</u> Cd(ac)=TVS(tr) Cd(ch)=TVS <u>CrIII(ac)=50(Trec)</u> CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	<u>Fe(ch)=WS(dis)</u> Fe(ch)=1000(Trec) Pb(ac/ch)=TVS <u>Mn(ch)=WS(dis)</u> Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	<u>Temporary modification:</u> <u>As(ch)=hybrid</u> <u>Expiration date of</u> <u>12/31/21</u>
12a. All tributaries to East Fork Parachute Creek from its source to a point immediately below the mouth of First Anvil Creek.			Aq Life Cold 1 Recreation N Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12b. All tributaries and wetlands to the Colorado River from a point immediately below the confluence of Parachute Creek to a point immediately below the confluence with Roan Creek.			Aq Life Cold 2 Recreation P Water Supply Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
13a. All tributaries to the Colorado River including wetlands, from a point immediately below the confluence of Roan Creek to the Colorado/Utah border except for the specific listings in Segments 13b through 19.		UP	Aq Life Warm 2 Recreation P <u>Water Supply</u> Agriculture	T=TVS(WS-IV) °C <u>T=TVS(WS-III) °C</u> D.O.= 5.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	CN(ac)=0.2 NO <sub>2</sub> =40 NO <sub>3</sub> =400 <u>NH<sub>3</sub>(ac/ch)=TVS</u> <u>Cl<sub>2</sub>(ac)=0.019</u> <u>Cl<sub>2</sub>(ch)=0.011</u> <u>CN=0.005</u>	<u>S=0.05</u> B=0.75 <u>NO<sub>2</sub>=0.05</u> <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u> <u>P=170ug/l (tot)</u>	As(ch)=100(Trec) Be(ch)=100(Trec) Gd(ch)=40(Trec) CrIII(ch)=100(Trec) As(ac)=340 As(ch)=0.02-10(Trec) <sup>Δ</sup> Cd(ac/ch)=TVS <u>CrIII(ac)=50(Trec)</u> <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	CrVI(ch)=100(Trec) Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ch)=200(Trec) Se(ch)=20(Trec) Zn(ch)=2000(Trec) <u>Ni(ac/ch)=TVS</u> <u>Fe(ch)=WS(dis)</u> <u>Se(ac/ch)=TVS</u> <u>Ag(ac/ch)=TVS</u> <u>Zn(ac/ch)=TVS</u>	

## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Colorado River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description										
13b. All tributaries to the Colorado River, including wetlands, from the Government Highline Canal Diversion to a point immediately below Salt Creek, and downgradient from the Government Highline Canal, the Orchard Mesa Canal No. 2, Orchard Mesa Drain, Stub Ditch and the northeast Colorado National Monument boundary.		UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) °C D.O.= 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13c. Walker Wildlife Area Ponds.			Aq Life Warm 1 Recreation E Agriculture	T=TVS(WL) °C D.O.= 5.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla=20 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100 <u>P=83ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13d. Coal Canyon Creek downgradient et to the Government Highline Canal.			Aq Life Warm 2 Recreation P Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=5.0 NO <sub>2</sub> =10 NO <sub>3</sub> =100 <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS <u>CrIII(ch)=100(Trec)</u> <u>CrVI(ac/ch)=TVS</u> Cu(ac)=0.96e <sup>(0.9801)</sup> [ln(hard)]:-1.4747) Cu(ch)=0.96e <sup>(0.5897)</sup> [ln(hard)]:0.3193)	Fe(ch)=1000 Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
13e. All tributaries to the Colorado River, from Lewis Wash to the West Salt Creek drainage, from an elevation of 5,200 feet to the Government Highline Canal, excluding the mainstems of Big Salt Wash, East Salt Creek and West Salt Creek.		UP	Aq Life Warm 2 Recreation P Agriculture	T=TVS(WS-IV) °C T=TVS(WS-III) °C D.O.=5.0 mg/l pH=6.5-9.0 E.coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NO <sub>2</sub> =10 NO <sub>3</sub> =100	B=0.75 CN(ac)=0.2 <u>P=170ug/l (tot)</u>	As(ch)=100 (Trec) Be(ch)=100(Trec) Cd(ch)=10 (Trec) CrIII(ch)=100 (Trec) CrVI(ch)=100 (Trec)	Cu(ch)=200(Trec) Pb(ch)=100(Trec) Mn(ch)=200(Trec) <u>Mo(ch)=160(Trec)</u> Ni(ch)=200(Trec)	Se(ch)=20 (Trec) Zn(ch)=2000 (Trec)	
14a. Mainstem of Roan Creek including all wetlands and tributaries, from its source to a point immediately above the confluence with Clear Creek, except for the specific listing in segment 14b. Clear Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with Tom Creek.			Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
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.			Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-II) °C D.O.=6.0 mg/l D.O.(sp)= 7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=110ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
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.			Aq Life Warm 1 Recreation P Water Supply Agriculture	T=TVS(WS-II) °C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=205/100ml <u>Chla=150 mg/m<sup>2</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=170ug/l (tot)</u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS
BASIN: Lower Colorado River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l			



## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

Stream Segment Description	Desig	Classifications	PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			AND QUALIFIERS
20. Rifle Gap Reservoir, Harvey Gap Reservoir, and Vega Reservoir.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CLL) °C Rifle Gap Reservoir April-Dec T <sub>(WAT)</sub> =23.0 °C <sup>D</sup> Vega Reservoir April-Dec T <sub>(WAT)</sub> =21.5 °C <sup>D</sup> <u>Harvey Gap Reservoir April-Dec</u> T <sub>(WAT)</sub> =23.5 °C <sup>D</sup> D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml Chla=8 ug/l (tot) <sup>B</sup>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
21. All lakes and reservoirs tributary to Roan Creek from the source to a point just below the confluence with Clear Creek. All lakes and reservoirs tributary to Rapid Creek from the source to the confluence with the Colorado River. All lakes and reservoirs tributary to the Little Dolores River from the source to a point immediately below the confluence with Hay Press Creek. <u>All lakes and reservoirs tributary to Plateau Creek from the source to the confluence with the Colorado River, except for specific listings in segment 20.</u>		Aq Life Cold 1 Recreation U Water Supply <u>DUWS*</u> Agriculture	T=TVS(CL) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml <u>Chla 8 ug/l (tot)<sup>B</sup></u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS <u>P=25 ug/l (tot)<sup>B</sup></u>	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) <u>CrIII(ch)=TVS</u> CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot) <u>Mo(ch)=160(Trec)</u>	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	* <u>Jerry Creek Reservoir Number 1 and Number 2 = DUWS</u> <u>*Palisade Cabin Reservoir = DUWS</u>

### 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) Total phosphorus (TP) and chlorophyll a standards apply only to lakes and reservoirs larger than 25 acres surface area.
- (C) Total phosphorus and chlorophyll a standards apply only above the facilities listed at 37.5(4).
- (D) 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.

## **PROPOSED** **WATER QUALITY CONTROL DIVISION**

### **37.33 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

##### A. Waterbody Segmentation

Some water bodies were moved from one segment to another segment to improve organization and/or to facilitate changes in classified uses or standards. The following changes were made:

Lower Yampa/Green River segments 3c and 3e: Wilson Creek was moved from segment 3e to segment 3c to upgrade the aquatic life use from Warm 2 to Warm 1.

Lower Yampa/Green River segment 6a was renumbered as segment 6.

Lower Colorado River segments 11b and 11c: The water bodies in these segments were combined into one segment because the designation, uses and standards are the same.

Lower Colorado River segments 19 and 21: All lakes and reservoirs tributary to Plateau Creek were moved from segment 19 to segment 21 to upgrade the aquatic life use from Warm 1 to Cold 1 and to facilitate the adoption of water supply standards.

The following segment descriptions were edited to improve clarity, correct typographical errors, and correct spelling errors:

Lower Yampa/Green River segment: 19a  
White River segment: 13b  
Lower Colorado River segments: 11g, 13d

##### B. Revised Aquatic-Life Use Classifications

The Commission reviewed information regarding the existing aquatic communities. Class 2 segments with exceptionally high MMI scores or a wide variety of fish species were upgraded from Class 2 to Class 1.

The following segments or portions of segments were upgraded from Warm 2 to Warm 1:

*[List to be completed following preliminary final action by the Commission.]*

The following segments were upgraded from Cold 2 to Cold 1:

*[List to be completed following preliminary final action by the Commission.]*

Portions of the following segment was upgraded from Warm 1 to Cold 1:

*[List to be completed following preliminary final action by the Commission.]*

C. Recreation Classifications and Standards

The following segments with year-round Recreation N standards were upgraded to Recreation P:

*[List to be completed following preliminary final action by the Commission.]*

The use classification for the following segment was inadvertently changed to Recreation P in 2007, and the Recreation N Use classification was restored in this rulemaking hearing:

White River segment: 16

D. Water Supply Use Classification and Standards

The Commission added a Water Supply Use classification and standards on segments where there is a drinking water intake or where the evidence demonstrates a reasonable potential for a hydrological connection between surface water and alluvial wells used for drinking water. The Water Supply Use classification and standards were added to the following segments:

*[List to be completed following preliminary final action by the Commission.]*

A review of the segments with an existing Water Supply Use classification showed that some segments were missing one or more standards to protect that use. The full suite of Water Supply standards were added to the following segment:

*[List to be completed following preliminary final action by the Commission.]*

E. Agriculture Standards

Molybdenum: In 2010, the Commission adopted a new standard for molybdenum to protect cattle from the effects of molybdenosis. The table value adopted at that time was 300 ug/l, but included an assumption of 48 mg/day of copper supplementation to ameliorate the effects of molybdenosis. State and local experts on cattle nutrition indicated that copper supplementation in the region is common, but is not universal. Therefore, copper supplementation assumption was removed from the equation, which yields a standard of 160 ug/l. The Commission expects that this value may be revised when data on the copper and molybdenum content of local forage becomes available. The Commission also notes that in light of EPA's disapproval of the 300 ug/l table value in the Basic Standards and Methodologies for Surface Water, the Commission intends to review this value during the next Basic Standards triennial review.

The Agriculture table value assumes that the safe copper:molybdenum ratio is 4:1. Food and water intake is based on a 273 kg (600 lb) feeder steer consuming 6.8 kg/day of dry matter and 20% of its body weight in water per day. Total copper and molybdenum intakes are calculated from the following equations:

$$\text{Cu intake mg/day} = [([\text{Cu}] \text{ forage, mg/kg}) \times (\text{forage intake, kg/day})] + [([\text{Cu}] \text{ water, mg/l}) \times (\text{water intake, L/day})] + (\text{Cu supplementation, mg/day})$$

$$\text{Mo intake mg/day} = [([\text{Mo}] \text{ forage, mg/kg}) \times (\text{forage intake, kg/day})] + [([\text{Mo}] \text{ water, mg/l}) \times (\text{water intake, L/day})] + (\text{Mo supplementation, mg/day})$$

The assumed values for these equations are as follows:

[Cu] forage = 7 mg/kg, [Mo] forage = 0.5 mg/kg, forage intake = 6.8 kg/day, [Cu] water = 0.008 mg/L, [Mo] water = 0.375 mg/L, water intake = 54.6 L/day, Cu supplementation = 0 mg/day, Mo supplementation = 0 mg/day.

A molybdenum standard of 160 ug/l was adopted for the following segments in Regulation 37 that have an Agriculture Use classification, and where livestock or irrigated forage are present or expected to be present:

*[List to be completed following preliminary final action by the Commission.]*

The following segment does not have an Agriculture Use classification or a Water Supply Use classification, and a molybdenum standard was not applied:

*[List to be completed following preliminary final action by the Commission.]*

#### F. Changes to Antidegradation Designation

The Commission reviewed all Cold 2 segments that were Use-Protected to determine if that designation was still warranted. No segments were changed to Reviewable.

The Commission reviewed all Warm 2 segments to determine if the Use-Protected designation is still warranted. Based upon available water quality data that meet the criteria of 31.8(2), the Use-Protection designation was removed from the following segments:

*[List to be completed following preliminary final action by the Commission.]*

#### G. Ambient Standards

Ambient standards are adopted where natural or irreversible man-induced conditions result in exceedances of table value standards. The Commission reviewed the information that is the basis for these standards, as well as any new information that would indicate whether they are still appropriate, need to be modified, or should be dropped. In some cases, new ambient standards were adopted. The following segments have ambient-based standards that were revised:

*[List to be completed following preliminary final action by the Commission.]*

New ambient based standards were adopted for the following segments:

*[List to be completed following preliminary final action by the Commission.]*

New assessment locations were adopted for White River segments 13b and 13c, because additional data was available to develop individual site-specific selenium standards for Corral Gulch, Duck Creek, Greasewood Creek and Yellow Creek. The assessment locations are listed at 37.6(4).

#### H. Aquatic Life Ammonia and Metals Standards

**New Table Value Standards:** The zinc, zinc sculpin, and aluminum table values were revised in the 2010 Basic Standards hearing. The acute and chronic zinc, zinc sculpin, and aluminum equations in 37.6(3) were modified to conform to Regulation 31. The footnotes to the table values in 37.6(3) were renumbered to match the appropriate references. Footnote (4 old) was deleted and a new footnote 4 was added.

**Zinc sculpin standards:** In low-hardness situations (hardness below 102 mg/L), the zinc equation is not protective of mottled sculpin (*Cottus bairdi*), a native west-slope fish species. Based upon a review of existing hardness and fishery data, the sculpin-specific zinc equation was deleted from the following segments:

*[List to be completed following preliminary final action by the Commission.]*

For the following segments where hardness could exceed 102 mg/L, both the zinc sculpin standard and the chronic zinc table value standard were adopted:

*[List to be completed following preliminary final action by the Commission.]*

The goal qualifier for selenium was deleted on Lower Yampa/Green River segment 3b, based upon data that indicate the table value standard for selenium is attained.

#### I. Uranium Standards

At the 2010 Basic Standards rulemaking hearing, the Commission changed the Water Supply table value for uranium from 30 ug/L to a hyphenated standard of 16.8-30 ug/L. The Commission revised the language in 37.5(3)(c) to reflect the change to the basin-wide standard. A new section 37.5(3)(c)(i) was added to explain the hyphenated standard. Subsection 37.5(3)(d) was deleted because it was redundant with 37.5(3)(c).

#### J. Temporary Modifications

All existing Temporary Modifications were examined to determine if they should be allowed to expire or be extended. Temporary Modifications were not automatically extended if non-attainment persisted due to revisions made to the Temporary Modification provisions in 2005 and 2010.

The following segments had Temporary Modifications that were not renewed:

*[List to be completed following preliminary final action by the Commission.]*

To remain consistent with the Commission's decisions regarding arsenic at 37.31, all existing temporary modifications for arsenic of "As(ch)=hybrid" (expiration date of 12/31/21) were retained. An arsenic temporary modification was added to the following segments, which had an existing or newly added chronic arsenic standard of 0.02 ug/L and a permitted discharger with a predicted water quality-based effluent limit compliance problem:

*[List to be completed following preliminary final action by the Commission.]*

#### K. Temperature

##### Ambient temperature standards for lakes

In the 2008 triennial review, the WAT standard was found to be unattainable for a number of cold large lakes and reservoirs with apparently healthy cold-water fish populations. Because summertime temperature in the mixed layer for large lakes and reservoirs is very well correlated to the waterbody's elevation, the Commission adopted ambient temperature standards for large lakes wherever data were available to characterize a WAT and the thermal characteristics of the lakes and reservoirs were determined to be the result of natural conditions. As a result of setting ambient temperature standards, the adequate refuge defined in Regulation 31, Table 1, footnote 5(c)(iii) was assessed using the site-specific temperature standard, and many lakes with obvious dissolved oxygen issues were considered to have adequate refuge.

Footnote 5(c)(iii) states:

When a lake or reservoir is stratified, the mixed layer may exceed the criteria in Table 1 provided that an adequate refuge exists in water below the mixed layer. Adequate refuge depends on concurrent attainment of applicable dissolved oxygen standards. If the refuge is not adequate because of dissolved oxygen levels, the lake or reservoir may be included on the 303(d) List as "impaired" for dissolved oxygen, rather than for temperature.

To ensure that adequate refuge is defined in a way that protects the Aquatic Life use, the Commission adopted Footnote D which was applied to the temperature standard for deep stratified lakes. Footnote D states “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”, and was applied to the following lake segments:

*[List to be completed following preliminary final action by the Commission.]*

#### L. Nutrients

In March 2012, the Commission adopted interim nutrient values in the Basic Standards (Regulation 31) and created a new statewide control regulation (Regulation 85) to address nutrients in Colorado. Regulation 31.17 includes interim nutrient values for total phosphorus, total nitrogen, and chlorophyll *a* for both lakes and reservoirs, and rivers and streams. Due to the phased implementation approach adopted with these criteria (31.17(e)), the Commission adopted only total phosphorus and chlorophyll *a* standards at this time. Nitrogen standards were not considered as part of this rulemaking hearing, but will be considered in the next triennial review, currently scheduled for June, 2019.

Total phosphorus and chlorophyll *a* standards were adopted for waters upstream of all permitted domestic wastewater treatment facilities discharging prior to May 31, 2012 or with preliminary effluent limits requested prior to May 31, 2012, and any non-domestic facilities subject to Regulation 85 effluent limits and discharging prior to May 31, 2012. A new section (4) was added at 37.5 describing implementation of the interim nutrient values into the tables at 37.6, and includes a table which lists these facilities and the segment to which they discharge.

- For segments located entirely above these facilities, nutrient standards apply to the entire segment.
- For segments with portions downstream of these facilities, *nutrient standards only apply above these facilities*. A footnote “C” was added to the total phosphorus and chlorophyll *a* standards in these segments. The footnote references the table of qualified facilities at 37.5(4).
- For segments located entirely below these facilities, nutrient standards do not apply.

For rivers and streams segments, total phosphorus standards were adopted for segments with an aquatic life use. Chlorophyll *a* standards were adopted for segments with either an E, P, or U Recreation Use classification.

For lakes and reservoirs segments, a Footnote B was added to total phosphorus and chlorophyll standards adopted for lakes in the tables at 37.6, as these standards only apply to lakes larger than 25 acres.

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for Direct Use Water Supply (DUWS) lakes and reservoirs. No proposals were made by the Division to adopt standards based on this provision in this rulemaking.

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for circumstances where the provisions of Regulation 85 are not adequate to protect waters from existing or potential nutrient pollution. No proposals were made to adopt standards based on this provision in this rulemaking.

Chlorophyll *a* standards were adopted for the following segments:

*[List to be completed following preliminary final action by the Commission.]*

Total Phosphorus standards were adopted for the following segments:

*[List to be completed following preliminary final action by the Commission.]*

M. Direct Use Water Supply Sub-classification

Also in the March 2012 rulemaking hearing, the Commission adopted a sub-classification of the Domestic Water Supply Use called "Direct Use Water Supply Lakes and Reservoirs Sub-classification (Regulation 31, at 31.13(1)(d)(i)). This sub-classification is for water supply lakes and reservoirs where there is a plant intake location in the lake or reservoir or a man-made conveyance from the lake or reservoir that is used regularly to provide raw water directly to a water treatment plant that treats and disinfects raw water. In this action today, the Commission has begun to apply this sub-classification and anticipates that it will take several basin reviews to evaluate all the reservoirs in the basin. The Commission adopted the DUWS sub-classification on the following reservoirs and added "DUWS" to the classification column in the standards tables. The public water systems are listed along with the reservoirs and segments.

*[List to be completed following preliminary final action by the Commission.]*

31.17(e)(iii) also allows the Commission to adopt numeric nutrient standards for Direct Use Water Supply ("DUWS") lakes and reservoirs. No standards were adopted based on this provision in this rulemaking.

N. Chromium III Standards

A review of the chromium III standards showed that standards to protect the Aquatic Life Use classification may not be protective of the Agriculture use in some high-hardness situations. A chromium III standard of  $CrIII(ch)=100(Trec)$  was added to segments with Aquatic Life and Agriculture Use classifications, but no Water Supply use. The acute chromium III standard associated with the Water Supply use is protective of the Agriculture use, but is not protective of the Aquatic Life use when hardness is less than 61 ug/l. For segments that have both Aquatic Life and Water Supply Use classifications, a chronic chromium III standard of  $CrIII(ch)=TVS$  was added to all segments that did not previously have that standard. Changes were made to the following segments:

*[List to be completed following preliminary final action by the Commission.]*

O. Other Site-Specific Revisions

A footnote "A" was added to the chronic arsenic standard to explain the hyphenated standard on the following segments:

*[List to be completed following preliminary final action by the Commission.]*

**EXHIBIT 3**

**JOINT PROPOSAL OF GRAND COUNTY,  
NORTHWEST COLORADO COUNCIL OF GOVERNMENTS, AND  
NORTHERN COLORADO WATER CONSERVANCY DISTRICT**

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

**5 CCR 1002-33**

**CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
UPPER COLORADO RIVER BASIN AND  
NORTH PLATTE RIVER (PLANNING REGION 12)**

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REGION:12 BASIN: Upper Colorado River	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
Stream Segment Description		Physical and Biological	INORGANIC Mg/l		METALS Ug/l			
12. Lakes and reservoirs within Arapahoe National Recreation Area, including Grand Lake, Shadow Mountain Lake and Lake Granby.	Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL)oC Shadow Mtn Res April-Dec T(WAT)=19.30oC Granby Res April-Dec T(WAT)=19.42oC D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH3(ac/ch)=TVS Cl2(ac)=0.019 Cl2(ch)=0.011 CN=0.005	S=0.002 B=0.75 NO2=0.05 NO3=10 Cl=250 SO4=WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	See * for narrative clarity standard. July through September Grand Lake Clarity =4 meter secchi disk depth, effective January 1, <u>2015 2017.</u>

\*Narrative standard for Segment 12: The highest level of clarity attainable, consistent with the exercise of established water rights and the protection of aquatic life.

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**JOINT PROPOSAL OF GRAND COUNTY,  
NORTHWEST COLORADO COUNCIL OF GOVERNMENTS, AND  
NORTHERN COLORADO WATER CONSERVANCY DISTRICT**

**33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014  
RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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 determined in 2008 that the adoption of a 4 meter numerical standard with a delayed effective date was an appropriate policy choice to encourage cooperative efforts to improve Grand Lake clarity. At the same time, the Commission adopted the following narrative "The highest level of clarity attainable, consistent with the exercise of established water rights and the protection of aquatic life" as the effective standard. Sufficient data is not yet available to support an appropriate numerical standard. The Commission expects and anticipates a cooperative effort that will develop data necessary to support a joint proposal for a scientifically based numerical clarity standard that is protective of these uses. If this cooperative effort does not result in a joint scientifically sound proposal by January 2016, the numeric standard will be determined by a site specific clarity standard hearing scheduled for 2016.

**EXHIBIT 4**  
**EAGLE RIVER WATER AND SANITATION DISTRICT**

**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**

**WATER QUALITY CONTROL COMMISSION**

**5 CCR 1002-33**

**CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
UPPER COLORADO RIVER BASIN AND  
NORTH PLATTE RIVER (PLANNING REGION 12)**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

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REGION:12 BASIN: <b>Eagle River</b>		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l				
8.	Mainstem of Gore Creek from the confluence with Black Gore Creek to the confluence with the Eagle River.		Aq Life Cold 1 Recreation E Water Supply Agriculture	<u>June 1 through September 30</u> T=TVS(CS-I)°C <u>October 1 through October 15</u> T <sub>(MWT)</sub> = 13 °C T <sub>(DM)</sub> = TVS(CS-I)°C <u>October 16 through May 31<sup>th</sup></u> T=TVS(CS-I)°C  D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=TVS(sc)	Temporary Modification: Temperature="existing quality" (Type-iii)-Expiration date of 12/31/2013  Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

<p>9a. Mainstem of the Eagle River from Gore Creek to a point immediately below the confluence with <del>Squaw</del>Rube Creek.</p>		<p>Aq Life Cold 1 Recreation E Water Supply Agriculture</p>	<p><u>June 1 through September 30</u> T=TVS(CS-I)°C</p> <p><u>October 1 through October 31</u> T<sub>MMAT</sub>= 13 °C T<sub>DM</sub>= TVS(CS-I)°C</p> <p><u>November 1 through May 31<sup>st</sup></u> T=TVS(CS-I)°C</p> <p>D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml</p>	<p>NH<sub>3</sub>(ac/ch)=TVS Cl<sub>2</sub>(ac)=0.019 Cl<sub>2</sub>(ch)=0.011 CN=0.005</p>	<p>S=0.002 B=0.75 NO<sub>2</sub>=0.05 NO<sub>3</sub>=10 Cl=250 SO<sub>4</sub>=WS</p>	<p>As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS</p>	<p>Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)</p>	<p>Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS</p>	<p>Temporary Modification: Temperature=<del>existing quality</del>  (Type iii) Expiration date of 12/31/2013.  Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.</p>
<p>9b. Mainstem of the Eagle River from a point immediately below the confluence with <del>Squaw</del>Rube Creek to the confluence with the Colorado River.</p>		<p>Aq Life Cold 1 Recreation E Water Supply Agriculture</p>	<p>T=TVS(CS-II)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml</p>	<p>NH<sub>3</sub>(ac/ch)=TVS Cl<sub>2</sub>(ac)=0.019 Cl<sub>2</sub>(ch)=0.011 CN=0.005</p>	<p>S=0.002 B=0.75 NO<sub>2</sub>=0.05 NO<sub>3</sub>=10 Cl=250 SO<sub>4</sub>=WS</p>	<p>As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS</p>	<p>Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)</p>	<p>Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS</p>	<p>Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.</p>

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**Eagle River Water and Sanitation District**  
**PROPOSED**

**33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014**  
**RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

**I. ERWSD Temperature Proposal.**

The Eagle River Water and Sanitation District (ERWSD) proposed site specific temperature standards that adjust the Fall shoulder season of the Cold Stream Tier I standard in Eagle River Segments 8 and 9a, and re-segmentation of Eagle River Segments 9a and 9b, all in a manner protective of the classified use and consistent with the available instream temperature data and fish data. The ERWSD proposal was adopted by the Commission for the reasons set forth below.

**II. Regulatory Background.**

The Commission first adopted numerical table value temperature standards in 1978, and revised those standards on several later occasions. Recognizing the complexity of establishing temperature standards and the potential for natural systems to exceed the table value standards, various excursions were developed that, if satisfied, are not exceedances of the temperature standards. Reg. # 31, Table I, Footnote (5)c; Reg. #31 § 31.44. Even with such excursions, the Commission acknowledged there may be a significant number of segments where exceedances naturally occur at least on a seasonal basis in the absence of impacts from point source discharges, and that transition zones in temperature exist in rivers. Reg. #31 §§ 31.44, 31.45. Accordingly, the Commission has stated its intent that the numerical table values be used as a starting point, while providing an opportunity for alternate site-specific standards and re-segmentation where appropriate as additional information becomes available. Reg. #31 §§ 31.44, 31.45.

Relevant to this proposal are the Tier I and Tier II standards established for Class 1 Cold Biota in rivers and streams. Cold Stream Tier I is intended for streams where cutthroat and brook trout are expected to occur, while Cold Stream Tier II is intended for streams where cold-water aquatic species, excluding cutthroat or brook trout, are expected to occur. The table value temperature standards for Cold Stream Tier I and Tier II adopted by the Commission in the 2007 Basic Standards hearing and applied to stream segments in the Upper Colorado River basin in the 2008 rulemaking, Reg. # 33 § 33.44, are as follows:

Cold Stream Tier I	June – Sept: 17.0 °C MWAT	Oct – May: 9.0 °C MWAT
	21.7 °C DM	13.0 °C DM
Cold Stream Tier II	April – Oct: 18.3 °C MWAT	Nov – March: 9.0 °C MWAT
	23.9 °C DM	13.0 °C DM

The adoption of the new temperature standards at that time resulted in a resegmentation of Eagle River Segment 9 into two segments – Eagle River Segments 9a and 9b. Eagle River Segments 8 and 9a were

assigned Cold Stream Tier I and Eagle River Segment 9b was assigned Cold Stream Tier II. The Commission also adopted temporary modifications of the underlying temperature standards for Eagle River Segments 8 and 9a at that time because “it was not possible to derive an appropriate characterization of current instream . . . temperature conditions.” Reg. # 33 § 33.44. Those temporary modifications expired at the end of 2013.

### **III. Temperature Data Collection and Analysis.**

ERWSD has been collecting stream temperature data at multiple locations in Segment 8, 9a and 9b for approximately five years. This includes sites above and below the outfalls of the WWTFs operated by ERWSD in Vail, Avon and Edwards. During the monitoring study, data collection sites were added by ERWSD and other sites were monitored by USFS and CDPHE. A total of 20 sites were used to collect temperature data.

The temperature investigations demonstrate Maximum Weekly Average Temperature (MWAT) and Daily Maximum (DM) exceedances of the Cold Stream Tier I standard occur in Segments 8 and 9a principally during early October. October is the winter shoulder season for the Cold Stream Tier 1 standard when the standard drops from the summer standard to the winter standard. The temperature investigations upstream and downstream of the WWTF’s show that the WWTF’s are having minimal effect on stream temperature.

More than 90% of the watershed for Segments 8 and 9a consists of undeveloped National Forest. Moving downstream through Segments 8 and 9a, the river generally loses gradient and temperatures increase in a gradual transition from Cold Stream Tier I to Cold Stream Tier II. Although shoulder season exceedances exist through Segments 8 and 9a, the natural seasonal progression in the river temperature throughout the reach is well preserved.

At a point on Eagle River Segment 9a downstream of the confluence with Squaw Creek, spring and summer season exceedances of the Cold Stream Tier I standard occur, in addition to the winter shoulder season exceedances in October. Based upon ambient temperature conditions, the reach of the Eagle River between the confluence with Squaw Creek and the confluence with Rube Creek (where Segment 9b begins), meets the Cold Stream Tier II standards but not the Tier I standards.

### **IV. Fish Data and Use Attainability Analysis.**

Colorado Parks and Wildlife (CPW) has been conducting fish surveys at various locations in Eagle River Segment 8 (Gore Creek) since 1992 that document the presence of brook, cutthroat, brown and rainbow trout and mottled sculpin. Gore Creek from the confluence of Red Sandstone Creek downstream to the Eagle River has been designated as a Gold Medal trout fishery by CPW and a survey conducted in 2011 verified that the criteria for the Gold Medal designation (12 trout > 14” per acre and 60 lbs. of trout per acre) were being met. This Gold Medal reach is primarily a brown trout fishery. Stream temperatures in segment 8 meet the acute and chronic standards during the summer and winter, but exceed the winter standard of 9° C during early October (the winter shoulder season for the standard), as discussed above. The Use Attainability Analysis (UAA) and available scientific data demonstrate that the proposal to change the first two weeks of the winter shoulder season temperature standard to 13° C is protective of temperature requirements for brook and brown trout spawning that occurs in the Fall.

Fish surveys have also been conducted at three locations in Eagle River Segment 9a below the confluence of Gore Creek and upstream of Squaw Creek since 1990 that document the presence of a variety of fish species including brook, brown, rainbow and cutthroat trout. During this period, over 99% of the total catch was brown and rainbow trout. The rare occurrence of brook and cutthroat trout through this reach may be associated with competition from the non-native species because stream temperatures in the portion of Segment 9a extending from Gore Creek downstream to the Squaw Creek confluence meet the Tier 1 acute and chronic summer and winter standards. However, as with Gore Creek, the winter shoulder season standard is often exceeded during October throughout the reach, with

exceedances extending through mid-October. The UAA and available scientific data demonstrate that the proposal to change the winter shoulder season temperature standard to 13° C through October 31<sup>st</sup> is protective of temperature requirements for brook and brown trout spawning that occurs in the fall.

For the lower portion of Eagle River Segment 9a, from Squaw Creek downstream to the confluence of Rube Creek, no fish surveys have been completed. Temperature data collected at four locations in this reach of Segment 9a indicates that stream temperatures have transitioned to Tier 2 conditions. At all the monitoring locations through this reach, the summer Tier 1 standards are often exceeded, the winter shoulder season standard is exceeded through most of October, and the spring shoulder season standard is occasionally exceeded in April and May. Temperature conditions during the summer exceed the thresholds needed for cutthroat trout spawning and incubation. Based upon these conditions, it was determined that resegmentation, moving the location for the beginning of segment 9b and the Tier 2 standards up to Squaw Creek, was appropriate and protective of the aquatic life use.

#### **V. ERWSD Proposal.**

The Commission found that the ERWSD proposal is consistent with ambient temperature conditions and protective of the aquatic life use, and is consistent with the regulatory requirements for a site specific criteria based standard pursuant to Reg. # 31, § 31.7(1)(b)(iii).

The adopted re-segmentation moves the dividing line between Eagle River Segments 9a and 9b from the confluence with Rube Creek to the confluence with Squaw Creek. This is consistent with both the ambient temperature conditions and protective of fish species expected to occur in the segments. Although an alternative would be to move the dividing line up even further to address shoulder season exceedances, ERWSD's proposal to implement a site specific standard to address the winter shoulder season in Segments 8 and 9a is more protective of the classified use. ERWSD examined developing a site specific standard for the reach of the Eagle River between Squaw Creek and Rube Creek, but the available data indicates that Cold Stream Tier II is appropriate for this reach.

The adopted change in the MWAT standard to 13 °C for October 1 – 15 in Segment 8, and to 13 °C for October 1 – 31 in the new Segment 9a, was demonstrated to be protective of the classified use. This change provides an intermediate step for the MWAT standard transition from 17 °C in September, to 13 °C for some or all of October, and then to 9 °C thereafter, consistent with the natural progression of temperature. The Commission finds that there is precedent for adjusting the season for the Cold Stream Tier I standard where justified by the available data. The DM standard is not changed for either Segment 8 or 9a.

Recognizing the importance of the Eagle River fishery and cumulative stress factors associated with urban runoff, temperature, the Eagle Mine Superfund site, and hydrologic modifications, the ERWSD will continue to monitor temperature conditions in Eagle River Segments 8, 9a, and 9b. Eagle River Segment 9a is a transition zone between Cold Stream Tier I and Cold Stream Tier II temperature and biologic conditions. Additional data collection and analysis may indicate that further refinements to the temperature standards may be justified to protect the aquatic life use in the future.

**EXHIBIT 5  
WILDEARTH GUARDIANS**

**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**

**WATER QUALITY CONTROL COMMISSION**

**5 CCR 1002-33**

**CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
UPPER COLORADO RIVER BASIN AND  
NORTH PLATTE RIVER (PLANNING REGION 12)**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

REGION:12  BASIN: <b>Roaring Fork River</b>	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l			METALS ug/l		
Stream Segment Description									
<u>3d. Mainstem of Cattle Creek, including all tributaries and wetlands, from the source to the most downstream White River National Forest boundary.</u>	<u>OW</u>	<u>Aq Life Cold 1 Recreation F Water Supply Agriculture</u>	<u>T=TVS(CS-I)°C</u> <u>D.O.=6.0 mg/l</u> <u>D.O. (sp)=7.0 mg/l</u> <u>pH=6.5-9.0</u> <u>E.Coli=126/100ml</u>	<u>NH<sub>3</sub>(ac/ch)=TVS</u> <u>Cl<sub>2</sub>(ac)=0.019</u> <u>Cl<sub>2</sub>(ch)=0.011</u> <u>CN=0.005</u>	<u>S=0.002</u> <u>B=0.75</u> <u>NO<sub>2</sub>=0.05</u> <u>NO<sub>3</sub>=10</u> <u>Cl=250</u> <u>SO<sub>4</sub>=WS</u>	<u>As(ac)=340</u> <u>As(ch)=0.02(Trec)</u> <u>Cd(ac)=TVS(tr)</u> <u>Cd(ch)=TVS</u> <u>CrVI(ac)=50(Trec)</u> <u>CrVI(ac/ch)=TVS</u> <u>Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis)</u> <u>Fe(ch)=1000(Trec)</u> <u>Pb(ac/ch)=TVS</u> <u>Mn(ch)=WS</u> <u>Mn(ac/ch)=TVS</u> <u>Hg(ch)=0.01(tot)</u>	<u>Ni(ac/ch)=TVS</u> <u>Se(ac/ch)=TVS</u> <u>Ag(ac)=TVS</u> <u>Ag(ch)=TVS(tr)</u> <u>Zn(ac/ch)=TVS</u>	

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## **WILDEARTH GUARDIANS** **PROPOSED**

### **33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

##### A. Water Body Segmentation

The following creation of 1 new segment in the basin was made due to information that demonstrated that water quality data showed the streams could be re-segmented based on existing water quality levels. The following changes were made:

Roaring Form River Basin segment 3d. The mainstem of Cattle Creek, including all tributaries and wetlands, from the source to the most downstream White River National Forest boundary.

##### B. Changes to Outstanding Water Designation

Outstanding Waters (OW) Designation is based on evidence that water quality meets the requirements of 31.8(2)(a), the presence of designated Critical Cutthroat Trout Habitat by the State of Colorado and the exceptional recreational or ecological significance of the waters associated with the roadless character of the lands in which they are found. Outreach conducted by WildEarth Guardians demonstrated support for the change in designation, the outstanding nature of these waters and the need for the additional protection of the outstanding waters designation.

The Commission understands that existing land uses, including grazing, are in place in these watersheds. The evidence demonstrates that these existing land uses are compatible with the OW designation since the current high level of water quality has been attained with these uses in place. It is the Commission's intent that this OW designation should not be used to establish additional permit requirements for existing uses within this area.

The Outstanding Waters designation was added to the new segment the mainstem of Cattle Creek, including all tributaries and wetlands, from the source to the most downstream White River National Forest boundary.

# EXHIBIT 6 TROUT UNLIMITED

## COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

### WATER QUALITY CONTROL COMMISSION

5 CCR 1002-33

### CLASSIFICATIONS AND NUMERIC STANDARDS FOR UPPER COLORADO RIVER BASIN AND NORTH PLATTE RIVER (PLANNING REGION 12)

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#### STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12  BASIN: <b>Roaring Fork River</b>	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
10a. Mainstem of Thompson Creek including all tributaries and wetlands from the source to the confluence with the Crystal River <u>except for those tributaries included in segment 10b.</u>		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10b. <u>Mainstem of North Thompson Creek including all tributaries and wetlands from the source to the County Road 108 / Forest Road 304 (North Thompson Creek Road) crossing; mainstem of Middle Thompson Creek including all tributaries and wetlands from the source to the Forest Road 306 crossing; mainstem of South Branch of Middle Thompson Creek including all tributaries and wetlands from the source to a point immediately upstream of its confluence with Middle Thompson Creek.</u>	<u>QW</u>	<u>Aq Life Cold 1 Recreation E Water Supply Agriculture</u>	<u>T=TVS(CS-I)°C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml</u>	<u>NH<sub>3</sub>(ac/ch)=TVS Cl<sub>2</sub>(ac)=0.019 Cl<sub>2</sub>(ch)=0.011 CN=0.005</u>	<u>S=0.002 B=0.75 NO<sub>2</sub>=0.05 NO<sub>3</sub>=10 Cl=250 SO<sub>4</sub>=WS</u>	<u>As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)</u>	<u>Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=TVS(sc)</u>	

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## **TROUT UNLIMITED** **PROPOSED**

### **33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

Based on evidence showing that the criteria of 31.8(2)a has been met, the Outstanding Waters (OW) designation has been added to the following stream segments: North Thompson creek and tributaries from its headwaters to the CR 108/Forest Road 304 crossing; Middle Thompson creek and tributaries from its headwaters to the Forest Road 306 crossing; and South Branch of Middle Thompson creek and tributaries from its headwaters to a point immediately upstream of its confluence with Middle Thompson creek. A new segment, Upper Colorado River Segment 10b, has been added for this purpose. In addition to meeting the water quality requirements of 31.8(2)a, these waters support Colorado River cutthroat trout, including key conservation populations in North and Middle Thompson Creek. The Colorado River cutthroat trout is listed as a species of concern in Colorado and is subject to a conservation agreement to prevent potential federal Endangered Species Act listing. The Commission notes that the outreach undertaken by Trout Unlimited as proponent of this designation helps to demonstrate broad support for the conclusion that these waters constitute an outstanding natural resource and that the additional protection provided by this designation is appropriate. The Commission understands that existing land uses, including grazing, are in place in these watersheds. The evidence demonstrates that these existing land uses are compatible with the OW designation since the current high level of water quality has been attained with these uses in place. It is the Commission's intent that this OW designation should not be used to establish additional permit requirements for existing uses within this area.

**EXHIBIT 7**  
**COLORADO RIVER WATER CONSERVATION DISTRICT**

**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**

**WATER QUALITY CONTROL COMMISSION**

**5 CCR 1002-33**

**CLASSIFICATIONS AND NUMERIC STANDARDS  
FOR  
UPPER COLORADO RIVER BASIN AND  
NORTH PLATTE RIVER (PLANNING REGION 12)**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

REGION:12  BASIN: <b>Yampa River</b>	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
2b. All lakes and reservoirs tributary to the Yampa River from the source to the confluence with Elkhead Creek, except for those listed in Segment 1b. All lakes and reservoirs tributary to Elkhead Creek from the source to the confluence with the Yampa River. All lakes and reservoirs tributary to the Little Snake River, including those on National Forest lands, <u>except the segment explicitly listed in Segment 21(Elkhead Reservoir).</u>		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CL,CLL) <sup>°C</sup> Stagecoach Res April-Dec T <sub>(WAT)</sub> =21.40 <sup>°C</sup> Steamboat Res April-Dec T <sub>(WAT)</sub> =21.60 <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
2c. Mainstem of the Yampa River from a point immediately above the confluence with Oak Creek to a point immediately <u>below-above</u> the confluence with Elkhead Creek.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-II) <sup>°C</sup> D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
21. <u>Elkhead Reservoir</u>		<u>Aq Life Warm 1 Recreation E Agriculture</u>	<u>T=TVS(WL)<sup>°C</sup> D.O.= 5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml</u>	<u>NH<sub>3</sub>(ac/ch)=TVS Cl<sub>2</sub>(ac)=0.019 Cl<sub>2</sub>(ch)=0.011 CN=0.005</u>	<u>S=0.002 B=0.75 NO<sub>2</sub>=0.05 NO<sub>3</sub>=100</u>	<u>As(ac)=340 As(ch)=7.6(Trec) Cd(ac/ch)=TVS Cd(ch)=TVS CrIII(ac/ch)=TVS CrIII(ch)=100(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS</u>	<u>Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(Tot) Mo(ch)=160(Trec) Ni(ac/ch)=TVS Se(ac/ch)=TVS</u>	<u>Ag(ac/ch)=TVS Zn(ac/ch)=TVS</u>	

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## **COLORADO RIVER WATER CONSERVATION DISTRICT** **PROPOSED**

### **33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

Based on a Use Attainability Analysis (“UAA”) prepared by Colorado Parks and Wildlife and the Colorado River Water Conservation District, the Commission adopted a change in the Aquatic Life Use classification and standard from Cold 1 to Warm 1 for Elkhead Reservoir. A new Segment 21 was created for Elkhead Reservoir, which is an on-channel reservoir located on Elkhead Creek, tributary to the Yampa River. All available temperature and fish data identify that the original classification of Elkhead Reservoir as a cold water lake was in error and that only warm water species are expected due to natural or man-induced irreversible conditions.

Under 31.6(4)(c) regarding segmentation criteria, the Colorado River Water Conservation District proposed, and the Commission adopted, a change in the segmentation description for Yampa River Segment 2c by replacing the word “below” with “above”.

**EXHIBIT 8**  
**SENECA COAL, INC, PEABODY SAGE CREEK MINING COMPANY,**  
**AND TWENTYMILE COAL MINING COMPANY**

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

**5 CCR 1002-33**

**CLASSIFICATIONS AND NUMERIC STANDARDS**  
**FOR**  
**UPPER COLORADO RIVER BASIN AND**  
**NORTH PLATTE RIVER (PLANNING REGION 12)**

**33.6 Tables**

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(4) Assessment Criteria and Locations

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(c) Selenium tissue standards assessment. The following two-step assessment will be used for fish-tissue selenium standards (expressed as mg/kg dw wb):

Step 1. Determine whether the 85th percentile of water column concentrations at the site exceeds 4.6 µg/L threshold.

- If the 85th percentile of water column concentrations is ≤4.6 µg/L for dissolved selenium, the water body is meeting its aquatic life use.
- If the 85th percentile of water column concentrations for dissolved selenium is >4.6 µg/L, proceed to Step 2.

Step 2. Determine whether the site is in attainment of the tissue criterion (whole body 13.05 mg/kg dw):

- If annual monitoring results in each species-composite fish tissue with a selenium concentration less than the tissue-based criterion, the water body is meeting the chronic standard.
- If annual monitoring results in a species-composite fish tissue with a selenium concentration that exceeds the tissue criterion, the site is considered in non-attainment of the water quality standard.

Assessment locations:

- Foidel Creek and Middle Creek (Segment 13b) –

° Foidel Creek – Site ID FOC-2, N40° 23' 24.7"/W106° 59' 40.9"

° Middle Creek – Site ID MC-2, N40° 23' 48.3"/W106° 58' 47.0"

• Dry Creek (Segment 13d) – Site ID WSD5, N40° 25' 18.5"/W107° 15' 41.8"

• Sage Creek (Segment 13e) – Site ID G-SC-3, N40° 26' 28.8"/W107° 11' 58.7"

• Cow Camp Creek and Bond Creek (Segment 13g) –

° Cow Camp Creek – Site ID G-CC-2, N40° 23' 51.7"/W107° 01' 13.3"

° Bond Creek – Site ID G-BC-2, N40° 24' 50.6"/W107° 01' 58.0"

• Upper Grassy Creek (Segment 13i) – Site ID SSG2, N40° 26' 44.5"/W107° 08' 38.4"

• Lower Grassy Creek (Segment 13j) – Site ID G-GC-4, N40° 28' 51.2"/W107° 09' 04.4"

(d) Yampa River Segment 13i, Upper Grassy Creek: Iron Assessment Thresholds and Locations

Fe(ch) = 1540(Trec), median of all data

Assessment locations:

• Sage Creek Site YSGF5: located at N40° 23' 27.7"/W107° 08' 43.4"

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## STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

REGION:12	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Yampa River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
Stream Segment Description									
13b. Mainstem of Foidel Creek, including all tributaries and wetlands. Mainstem of Fish Creek, including all tributaries from County Road 27 downstream to the confluence with Trout Creek, Middle Creek and all tributaries, from County Road 27 downstream to the confluence with Trout Creek, <u>except for specific listings in Segment 13g.</u>		Aq Life Gold 4 <u>Aq Life Warm 2</u> Recreation E Agriculture	T=TVS(CS-III) <sup>°C</sup> T=TVS(WS-II) <sup>°C</sup> D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(Trec) Cd(ch)=TVS(Tr) CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) <u>Middle Creek</u> Fe(ch)=4035 <u>1500 (Trec)</u> <u>Foidel Creek</u> <u>Fe(ch)=2130(Trec)</u> Pb(ac/ch)=TVS	Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS Se(ac/ch)=TVS <u>Foidel and Middle Creek</u> <u>Se(ch)=13.05</u> <u>mg/kg dw wh</u> <u>Se(ac)=TVS</u> Ag(ac)=TVS Ag(ch)=TVS(Tr) Zn(ac/ch)=TVS	<u>See section 33.6(4) for iron assessment locations and selenium assessment locations and methodology.</u>
13d. Mainstem of Dry Creek, including all tributaries and wetlands, from the source <u>to just above the confluence with Temple Gulch</u> to the confluence with the Yampa River near Hayden.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II) <sup>°C</sup> D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Mar-Apr Fe(ch)=3040(Trec) May-Feb Fe(ch)=1110(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS <u>Se(ch)=13.05</u> <u>mg/kg dw wh</u> <u>Se(ac)=TVS</u> Ag(ac/ch)=TVS Zn(ac/ch)=TVS	See section 33.6(4) for iron assessment locations and selenium assessment locations and methodology. <u>Temporary modification.</u> <u>Fe(ch): "Mar-Apr current condition" (Type A &amp; B) for Upper Dry Creek Expiration date of 12/31/2019.</u>
13e. Mainstem of Sage Creek and of Grassy Creek, including all tributaries and wetlands, from their sources to the confluence with the Yampa River.	UP	Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-II) <sup>°C</sup> D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Upper Sage Creek Fe(ch)=1250(Trec) Lower Sage Creek Fe(ch)=1000(Trec) <u>Grassy Creek</u> <u>Fe(ch)=1000(Trec)</u> Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ac/ch)=TVS <u>Se(ch)=13.05</u> <u>mg/kg dw wh</u> <u>Se(ac)=TVS</u> Ag(ac/ch)=TVS Zn(ac/ch)=TVS	Temporary modification. Fe(ch): "existing quality" (Type iii) for Grassy Creek. Expiration date of 4/23/2014.  Break between Upper and Lower Sage Creek is the west border of Section 18, T5N, R87W.  See section 33.6(4) for iron assessment locations and selenium assessment locations and methodology.

13g. All tributaries to Fish Creek from County Road 27 downstream to the confluence with Trout Creek.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II)°C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(Tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ch)=13.05 mg/kg dw wb Se(ac)=TVS Ag(ac)=TVS Ag(ch)=TVS(Tr) Zn(ac/ch)=TVS	See section 33.6(4) for selenium assessment locations and methodology.
13h. Mainstem of Dry Creek including all tributaries and wetlands, from the confluence with Temple Gulch to the confluence with the Yampa River near Hayden.	UP	Aq Life Warm 2 Recreation E Agriculture	T=TVS(WS-II)°C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(Trec) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ch)=43.45 Se(ac)=84.66 Ag(ac)=TVS Ag(ch)=TVS(Trec) Zn(ac/ch)=TVS	
13i. Mainstem of Grassy Creek including all tributaries and wetlands, from the source to immediately above the confluence with Scotchmans Gulch.	UP	Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-II)°C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1540(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ch)=13.05 mg/kg dw wb Se(ac)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	See section 33.6(4) for iron and selenium assessment locations and methodology.
13j. Mainstem of Grassy Creek including all tributaries and wetlands, from the confluence with Scotchmans Gulch to the confluence with the Yampa River near Hayden.	UP	Aq Life Warm 2 Recreation N Agriculture	T=TVS(WS-II)°C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot) Ni(ac/ch)=TVS	Se(ch)=13.05 mg/kg dw wb Se(ac)=55.57 Ag(ac/ch)=TVS Zn(ac/ch)=TVS	See section 33.6(4) for selenium assessment locations and methodology.

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## **SENECA COAL, INC, PEABODY SAGE CREEK MINING COMPANY, AND TWENTYMILE COAL MINING COMPANY PROPOSED**

### **33.52 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014 RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

##### **YAMPA RIVER SEGMENTS 13b, 13d, AND 13e**

The Commission created new segments and adopted site-specific standards for a number of segments in the Yampa Drainage based on data provided by Seneca Coal, Inc, Peabody Sage Creek Mining Company, and Twentymile Coal Mining Company. Extensive water quality and biomonitoring data were collected from multiple drainages within Yampa River segments 13b, 13d, 13e. Based on these data, it was determined that the upper reaches of segments 13b, 13d, and 13e (i.e., Cow Camp Creek, Bond Creek, Little Grassy Creek, Grassy Creek, Sage Creek, and Dry Creek) only flow seasonally, largely in response to spring snowmelt (March – July); the remainder of the year flow is greatly limited. The lower reaches of these segments have limited flow as well; spring flows are consistent, but summer and fall water supply is primarily restricted to small sections of flowing water and/or isolated pools, likely freezing over the winter months. The only exceptions to this flow regime are for several of the streams in segment 13b (i.e., Fish, Foidel, and Middle Creeks), which normally maintain flow year-round. Foidel Creek is primarily an effluent-dominated stream.

The limited presence of water throughout many of the drainages affects the ability of aquatic life to persist year-round. Seasonal sampling conducted in 2012 through 2013 revealed limited aquatic life in the upper reaches of segments (i.e., Cow Camp Creek, Bond Creek, Little Grassy Creek, Grassy Creek, Sage Creek, and Dry Creek) and while limited fish populations persist in discrete locations in the lower reaches, the intermittent flow restricts the ability of these streams to support reproducing fish populations. Select locations within lower Dry and Grassy Creeks maintain sufficient pools to support hold-over populations of fish. Due to perennial flow in some of the streams (i.e., Fish, Foidel, and Middle Creeks) fish populations are maintained throughout the year.

#### **SEGMENTATION**

Based on natural changes in flow, available habitat, and water quality, the Commission adopted changes to segments 13b, 13d, and 13e consistent with Regulation 31.6(4)(c).

Foidel Creek and Fish Creek (Segments 13b and 13g): The Commission re-segmented Segment 13b to reflect differences in stream flow and aquatic life use between the smaller intermittent tributaries and larger perennial flowing streams. Segment 13b is now described as the “mainstem of Foidel Creek, including all tributaries and wetlands. Mainstem of Fish Creek, from County Road 27 downstream to the confluence with Trout Creek. Middle Creek and all tributaries, from County Road 27 downstream to the confluence with Trout Creek, except for specific listings in Segment 13g.” Segment 13b has perennial flow with fish populations throughout the year. Segment 13g is described as “all tributaries to Fish Creek from County Road 27 downstream to the confluence with Trout Creek.” Segment 13g is characterized by intermittent flows in the tributaries to the confluence with Fish Creek resulting in habitat restrictions.

Dry Creek (Segments 13d and 13h): The Commission re-segmented Segment 13d to reflect differences in stream flow and aquatic life use between the upper reaches and the lower reaches of Dry Creek, and to facilitate adoption of site-specific ambient-based iron and selenium standards. Segment 13d is described as the “mainstem of Dry Creek, including all tributaries and wetlands, from the source to just above the confluence of Temple Gulch.” Segment 13h is described as the “mainstem of Dry Creek, including all tributaries and wetlands, from the confluence of Temple Gulch to the confluence with the Yampa River near Hayden.”

Sage Creek and Grassy Creek (Segments 13e, 13i, and 13j): The Commission also re-segmented Segment 13e based on differences in flow regimes and aquatic life use between Sage Creek and the upper and lower Grassy Creek drainages. The flow in Sage Creek (Segment 13e) is restricted to the snowmelt runoff period (March – July), drying completely in the lower reaches during summer and fall; due to habitat restrictions aquatic life is greatly limited. Segment 13e is now described as the “mainstem of Sage Creek including all tributaries and wetlands, from their sources to the confluence with the Yampa River.” The upper reaches of Grassy Creek and Little Grassy Creek (tributary to Grassy Creek) are characterized by intermittent or ephemeral flows, largely dependent upon snowmelt runoff occurring March through July; these upper reaches are fishless, supporting creation of a segment for these upper reaches. Segment 13i is described as the “mainstem of Grassy Creek, including all tributaries and wetlands, from the source to immediately above the confluence with Scotchmans Gulch.” The lower reach of Grassy Creek is characterized by perennial flows in some portions with areas of drying in other sections, creating isolated pools containing hold-over fish populations. Lower portions of the Grassy Creek drainage were designated Segment 13j and described as the “mainstem of Grassy Creek, including all tributaries and wetlands, from the confluence with Scotchman’s Gulch to the confluence with the Yampa River near Hayden.”

## **NUMERIC STANDARDS**

### **Iron**

As was found in the prior basin hearing, the Commission found that the water quality data continue to suggest that elevated iron concentrations are restricted to the upper reaches of most stream segments, including locations upstream of current or historical mining activity (e.g., upper Foidel Creek (Segment 13b)). Seneca Coal, Inc. and Peabody Sage Creek Mining evaluated the use of pre-filtration methods (use of a 10 µm filter prior to acidification analysis) within the upper reaches of most drainages to determine if this method would enable the table value standard (TVS) to be met while protecting aquatic life. However, while this approach is promising, there were not enough data to determine if TVS are attainable in all of these segments using pre-filtration. Therefore, the Commission adopted or retained site-specific ambient standards for iron where there is sufficient pre-mining data and/or data from locations upstream of all mining and other human activity in the watershed. The Commission adopted or retained temporary modifications where iron concentrations without pre-filtration exceed the TVS.

Segment 13b: The site-specific standard for Foidel Creek of “existing conditions” was replaced with an ambient standard of 2130 µg/L based on concentrations originating above the mine. Middle Creek’s (Segment 13b) current ambient based standards were updated to 1500 µg/L based on the most recent five years of data.

Segment 13d: Based on the most recent five years of data upper Dry Creek (Segment 13d) is not currently meeting the March-April site-specific standard, which was based on pre-mining data. Upper Dry Creek is meeting the standard for the remaining part of the year (i.e., May-February). The Commission adopted a temporary modification of “current condition” for iron for March-April. Based on preliminary data about the use of pre-filtration, there is significant uncertainty about the standard necessary to protect the use. In addition, there is significant uncertainty concerning whether the sources of iron are natural or irreversible. Therefore, the Commission adopted a Type A and B temporary modification with an expiration date of December 31, 2019. The Commission anticipates that Seneca and PSCM will continue to evaluate the use of pre-filtration for iron assessment.

Segment 13e: The Commission reviewed the available data and retained the existing site-specific ambient standard based on pre-mining conditions for upper Sage Creek (Segment 13e).

Segment 13i: The Commission deleted the temporary modification to the iron standard for upper Grassy Creek (Segment 13i, formerly upper Grassy Creek in Segment 13d) and adopted a site-specific ambient-based iron standard. The Commission considered data collected by Seneca after the 2010 temporary modifications review hearing. Based on this additional information, the Commission concluded that 1993-1998 data are representative of the natural or irreversible human-induced conditions for Grassy Creek. Elevated iron concentrations in nearby streams upstream of mining activity in similar geologic settings demonstrate a likely natural source for elevated iron.

### Selenium

Segments 13b, 13d, 13e, 13g, 13i, and 13j: Seneca Coal, PSCM, and Twentymile submitted substantial selenium data, including in-stream selenium concentrations and fish-tissue selenium concentrations. Based on these data, the Commission found that instream water column selenium concentrations increase in response to the underlying geology. The unmined drainages of Temple Gulch (tributary to lower Dry Creek, Segment 13h) and Scotchmans Gulch (tributary to lower Grassy Creek, Segment 13j) contribute substantial levels of naturally-occurring selenium resulting from underlying geology to the lower reaches of their respective segments. Water-column selenium concentrations in areas influenced by selenium-bearing geology exceeded the selenium TVS. Whole-body selenium fish tissue samples were taken when conditions allowed and followed the same trend as water column selenium concentrations. However, despite the elevated water-column selenium concentrations, the Commission found that the fish-tissue data demonstrated that concentrations do not exceed thresholds for chronic toxic effects to the species expected to be present in these streams.

Given the range of selenium and difficulty in determining an appropriate standard based on ambient conditions or recalculation, the Commission adopted a fish tissue-based selenium standard for most of the segments (i.e., 13b, 13d, 13e, 13g, 13i, and 13j). This fish tissue standard of 13.05 mg/kg dw wb (dry weight/whole body) is based on the species found within the drainages exhibiting the greatest sensitivity to selenium; i.e., the white sucker (*Catostomus commersonii*). The 4.6 µg/L chronic water-column standard for dissolved selenium is deleted, but will be used as a screening tool when implementing the fish-tissue standard as explained below.

The Commission adopted a two-step assessment methodology for the chronic water-column standard in Section 33.6(4) as follows:

Step 1. Determine whether the 85th percentile of water column concentrations at the site exceeds 4.6 µg/L threshold.

- If the 85th percentile of water column concentrations is  $\leq 4.6$  µg/L for dissolved selenium, the water body is meeting its aquatic life use.
- If the 85th percentile of water column concentrations for dissolved selenium is  $>4.6$  µg/L, proceed to Step 2.

Step 2. Determine whether the site is in attainment of the tissue criterion (whole body 13.05 mg/kg dw):

- If annual monitoring results in each species-composite fish tissue with a selenium concentration less than the tissue-based criterion, the water body is meeting the chronic standard.

- If annual monitoring results in a species-composite fish tissue with a selenium concentration that exceeds the tissue criterion, the site is considered in non-attainment of the water quality standard.

Assessment locations:

- Foidel Creek and Middle Creek (Segment 13b) –
  - Foidel Creek – Site ID FOC-2, N40° 23' 24.7"/W106° 59' 40.9"
  - Middle Creek – Site ID MC-2, N40° 23' 48.3"/W106° 58' 47.0"
- Dry Creek (Segment 13d) – Site ID WSD5, N40° 25' 18.5"/W107° 15' 41.8"
- Sage Creek (Segment 13e) – Site ID G-SC-3, N40° 26' 28.8"/W107° 11' 58.7"
- Cow Camp Creek and Bond Creek (Segment 13g) –
  - Cow Camp Creek – Site ID G-CC-2, N40° 23' 51.7"/W107° 01' 13.3"
  - Bond Creek – Site ID G-BC-2, N40° 24' 50.6"/W107° 01' 58.0"
- Upper Grassy Creek (Segment 13i) – Site ID SSG2, N40° 26' 44.5"/W107° 08' 38.4"
- Lower Grassy Creek (Segment 13j) – Site ID G-GC-4, N40° 28' 51.2"/W107° 09' 04.4"

The Commission also intends that the 4.6 µg/L dissolved selenium concentration will be used as a screening tool for permits. If a permit applicant's or permittee's effluent demonstrates a reasonable potential to result in a concentration of dissolved selenium in the water column greater than 4.6 µg/L, this should be considered to be a demonstration of reasonable potential to exceed the chronic fish tissue criterion of 13.05 mg/kg dw. If the average effluent selenium concentration exceeds the calculated effluent screening level as reported in the Discharge Monitoring Report, the permit holder will be required to collect and analyze fish tissue for compliance with the fish tissue criterion. If the selenium in the whole-body fish tissue samples exceeds the fish tissue limit as established in the permit, the permittee will have failed to demonstrate compliance with the limit. If the fish tissue analysis yields a result that is lower than the fish tissue limit, the permittee will have demonstrated compliance with the permit requirement for selenium. Fish tissue collection for analysis should occur in the receiving water or downstream receiving water. Because of the low flow conditions and lack of fish in Segments 13e and 13i (Sage Creek and upper Grassy Creek, respectively), the Commission expects that it may be necessary to rely on fish tissue analysis from Segment 13j (lower Grassy Creek). The Commission retained the acute TVS for selenium in these segments.

Segment 13h: The Commission found that lower Dry Creek has natural or irreversible human-induced elevated selenium concentrations that result from regional geology. The Commission adopted an ambient water column-based selenium SSS of 43.45 µg/L (chronic) and 84.66 µg/L (acute) in lower Dry Creek (Segment 13h), given the naturally elevated water and fish tissue concentrations downstream of Temple Gulch.

### **AQUATIC LIFE USE CLASSIFICATION**

Based on fish species expected to be present, temperature data, and other available evidence submitted by Seneca Coal, Inc., the Commission changed the aquatic life use classification for Segment 13b from Cold 1 to Warm 2. The aquatic life use classification of Warm 2 was also adopted for segments 13g, 13h, 13i, and 13j. These waters are not capable of sustaining a wide variety of warm water biota because flow and habitat conditions result in impairment of the abundance and diversity of species.

### **USE PROTECTED DESIGNATION**

The Commission retained use protected designation for segments 13d and 13e, and segments 13h, 13i, and 13j inherited their use protected designations as a result of re-segmentation. The Commission adopted the use protected designation for segment 13g, based on evidence that the tributaries in segment 13g are effluent-dependent.

### **TEMPERATURE**

Based on fish species expected to be present, temperature data, and other available evidence submitted by Seneca Coal, Inc, Warm Stream Tier II temperature standards were retained for segments 13d and 13e, and adopted Warm Stream Tier II for segments 13b, 13g, 13h, 13i, and 13j.

**EXHIBIT 9**  
**TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.**

**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**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

REGION:11	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: Lower Colorado River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
4e. Mainstem of Dry Creek including all tributaries and wetlands from the source to immediately above the Last Chance Ditch.	UP	Aq Life Cold 2 Recreation N Agriculture	T=TVS(CS-II) +C D.O.=5.0 mg/l pH=6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/eh)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (eh)=0.044 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) <u>Be(ch)=100(Trec)</u> Cd(ac/eh)=TVS <u>Cd(ch)=10(Trec)</u> CrIII(ac/eh)=TVS <u>CrIII(ch)=100(Trec)</u> CrVI(ac/eh)=TVS <u>CrVI(ch)=100(Trec)</u> Cu(ac/eh)=TVS <u>Cu(ch)=200(Trec)</u>	<u>Fe(eh)=1000(Trec)</u> <u>Mo(ch)=300(Trec)</u> Pb(ac/eh)=TVS <u>Pb(ch)=100(Trec)</u> Mn(ac/eh)=TVS <u>Mn(ch)=200(Trec)</u> <u>Hg(eh)=0.01(tot)</u>	Ni(ac/eh)=TVS <u>Ni(ch)=200(Trec)</u> Se(ac/eh)=TVS <u>Se(ch)=20(Trec)</u> Ag(ac/eh)=TVS Zn(ac/eh)=TVS <u>Zn(ch)=2000(Trec)</u>	Temporary Modifications: Cu(ac/eh)=existing quality Fe(eh)=existing quality(Trec) (Type-iii) Expiration 12/31/2015.

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# **TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.**

## **PROPOSED**

### **37.33 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014 RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

##### **DRY CREEK, LOWER COLORADO RIVER SEGMENT 4e**

The Commission considered site-specific metals standards for Lower Colorado River Segment 4e (Mainstem of Dry Creek including all tributaries and wetlands from the source to immediately above the Last Chance Ditch). Based on evidence submitted by Tri-State Generation and Transmission Association, Inc. (Tri-State), the Commission confirmed its findings in previous rulemakings that this segment is ephemeral and effluent dependent; that it does not support fish; and that the ephemeral flow in Segment 4e supports only a transient, rudimentary macroinvertebrate population.

Tri-State operates the Rifle Station, which is permitted to discharge to Segment 4e. The Rifle Station is an 85-megawatt (gross), gas-fired, combined-cycle power plant that provides intermediate peaking generation. Tri-State submitted evidence that the Rifle Station discharges intermittently, with discharges with durations ranging from a few minutes to less than a day, from 10 to 20 days per month. As a result of these small and infrequent discharge amounts, the Commission concluded that the discharge rarely results in continuous flow in Dry Creek, and that metals are not reasonably expected to interfere with the aquatic life use in the segment as a result of chronic exposure. Tri-State also submitted effluent chemical data for priority pollutants demonstrating that most priority toxic pollutants are not present in the Rifle Station effluent in quantities that are likely to interfere with the aquatic life use expected in the segment. The Commission found only copper and zinc to be potential parameters of concern.

Based on the ephemeral nature of Segment 4e; the rudimentary aquatic life present; the transient macroinvertebrate population; and the intermittent, occasional discharge from the Rifle Station in small volumes, the Commission determined that chronic metals standards are not necessary to protect the aquatic life use in Segment 4e. Therefore, the Commission removed the aquatic-life chronic metals standards. Also, the Commission removed the iron standard because the segment lacks fish. The Commission replaced the aquatic-life chronic standards with aquatic-life acute and agriculture-based metals standards. These standards fully support the attainable classified uses for Segment 4e.

Based on a recalculation submitted by Tri-State, the Commission adopted a site-specific acute dissolved copper standard of 178 µg/L. The Commission found that this site-specific standard supports the attainable aquatic life use for Segment 4e.

Because the Commission adopted a site-specific copper standard and removed the iron standard for Segment 4e, the Commission also deleted the temporary modifications to the iron and copper standards.

**EXHIBIT 10**  
**WILDEARTH GUARDIANDS**

**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**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

REGION:11 <b>BASIN: Lower Yampa River/Green River</b>	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
			PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description									
9a. Mainstems of the East and South Forks of the Williams Fork River, including all wetlands and tributaries, which are within the boundary of Routt National Forest, except for the specific listings in Segment 8, 9b and 12c.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
9b. Mainstem of South Fork of the Williams Fork, including all wetlands and tributaries, which are within the Routt National Forest.	QW	Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
12c. Mainstem of Beaver Creek, including all wetlands and tributaries, which are within the Routt National Forest.	QW	Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

REGION:11		Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: White River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description										
4a.	All tributaries to the North Fork of the White River, including all wetlands, from the Flat Tops Wilderness Area boundary to the confluence with the South Fork of the White River except for the specific listings in Segments 1 and 4b.		Aq Life Cold 1 Recreation E Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
4b.	<u>Mainstems of Lost Creek, Snell Creek and Fawn Creeks, including all wetlands and tributaries, from the Flat Tops Wilderness area to the boundary of the White River National Forest.</u>	<u>OW</u>	<u>Aq Life Cold 1 Recreation E Water Supply Agriculture</u>	<u>T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=126/100ml</u>	<u>NH<sub>3</sub>(ac/ch)=TVS Cl<sub>2</sub>(ac)=0.019 Cl<sub>2</sub>(ch)=0.011 CN=0.005</u>	<u>S=0.002 B=0.75 NO<sub>2</sub>=0.05 NO<sub>3</sub>=10 Cl=250 SO<sub>4</sub>=WS</u>	<u>As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)</u>	<u>Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS</u>	
8.	All tributaries to the White River, including all wetlands, from the confluence of the North and South Forks to a point immediately above the confluence with Piceance Creek, which are within the boundaries of White River National Forest <u>except for Segment 10c.</u>		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O.=6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
10b.	Mainstem of Big Beaver Creek and Miller Creek, and <del>North Elk</del> 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.		Aq Life Cold 1 Recreation P Water Supply Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.
10c.	<u>North Elk Creek, including all wetlands and tributaries, from its source to the White River National forest boundary.</u>	<u>OW</u>	<u>Aq Life Cold 1 Recreation P Water Supply Agriculture</u>	<u>T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml</u>	<u>NH<sub>3</sub>(ac/ch)=TVS Cl<sub>2</sub>(ac)=0.019 Cl<sub>2</sub>(ch)=0.011 CN=0.005</u>	<u>S=0.002 B=0.75 NO<sub>2</sub>=0.05 NO<sub>3</sub>=10 Cl=250 SO<sub>4</sub>=WS</u>	<u>As(ac)=340 As(ch)=0.02(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS</u>	<u>Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ch)=WS(dis) Mn(ac/ch)=TVS Hg(ch)=0.01(tot)</u>	<u>Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS</u>	<u>Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.</u>

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## **WILDEARTH GUARDIANS** **PROPOSED**

### **37.33 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

##### A. Water Body Segmentation

The following creation of 4 new segments in the basin was made due to information that demonstrated that water quality data showed the streams could be re-segmented based on existing water quality levels. The following changes were made:

Lower Yampa River/Green River Segment 9b: The mainstem of South Fork of the Williams Fork, including all wetlands and tributaries which are within the Routt National Forest was moved to the new Segment 9b.

Lower Yampa River/Green River Segment 12b: The mainstem of Beaver Creek, including all wetlands and tributaries, which are within the Routt National Forest, was moved to the new Segment 12b.

White River Segment 4b: The mainstems of Lost Creek, Snell Creek and Fawn Creeks, including all wetlands and tributaries, from the Flat Tops Wilderness area to the boundary of the White River National Forest, was moved to the new Segment 4b.

White River Segment 10c: North Elk Creek, including all wetlands and tributaries, from its source to the White River National Forest boundary, was moved to the new Segment 10c.

##### B. Changes to Outstanding Water Designation

**Outstanding Waters (OW) Designation**: Based on evidence that water quality meets the requirements of 31.8(2)(a), the presence of designated Critical Cutthroat Trout Habitat by the State of Colorado and the exceptional recreational or ecological significance of the waters associated with the roadless character of the lands in which they are found. Outreach conducted by WildEarth Guardians demonstrated support for the change in designation, the outstanding nature of these waters and the need for the additional protection of the outstanding waters designation.

The Commission understands that existing land uses, including grazing, are in place in these watersheds. The evidence demonstrates that these existing land uses are compatible with the OW designation since the current high level of water quality has been attained with these uses in place. It is the Commission's intent that this OW designation should not be used to establish additional permit requirements for existing uses within this area.

The Outstanding Waters designation was added to the new segments: the mainstem of South Fork of the Williams Fork, including all wetlands and tributaries which are within the Routt National Forest; the mainstem of Beaver Creek, including all wetlands and tributaries, which are within the Routt National Forest; the mainstems of Lost Creek, Snell Creek and Fawn Creeks, including all wetlands and tributaries, from the Flat Tops Wilderness area to the boundary of the White River National Forest; North

Elk Creek, including all wetlands and tributaries, from its source to the White River National Forest boundary.

**EXHIBIT 11**  
**WESTERN RESOURCE ADVOCATES**

**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**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: White River	Stream Segment Description			PHYSICAL and BIOLOGICAL	INORGANIC mg/l	METALS ug/l				
13c.	Mainstem of Yellow Creek, including all wetlands from immediately below the confluence with Barcus Creek to the confluence with the White River.		Aq Life Warm 2 <del>Recreation N</del> Recreation P Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=5.0 NO <sub>2</sub> =10 NO <sub>3</sub> =100	As(ac)=340 As(ch)=100(Trec) Cd(ac/ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1425(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac/ch)=TVS	
17.	Stewart Gulch from the sources of the East Middle, and West Forks to the confluence with Piceance Creek.		Aq Life Cold-2 Aq Life Cold 1 <del>Recreation N</del> Recreation P Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=630/100ml E.Coli= 205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	Fish Ingestion
18.	Mainstem of the Dry Fork of Piceance Creek, including all tributaries and wetlands, from the source to a point just below the confluence with Little Reigan Gulch. Willow and Hunter Creeks, including all tributaries and wetlands, from their sources to their confluences with Piceance Creek.		Aq Life Cold-2 Aq Life Cold 1 Recreation N Agriculture	T=TVS(CS-II) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	
19.	Mainstem of Fawn Creek from the source to the confluence with Black Sulphur Creek.		Aq Life Cold-2 Aq Life Cold 1 Recreation P Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O.(sp)=7.0 mg/l pH=6.5-9.0 E.Coli=205/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=400(Trec) As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

REGION:11	Desig	Classifications	NUMERIC STANDARDS						TEMPORARY MODIFICATIONS AND QUALIFIERS
BASIN: White River			PHYSICAL and BIOLOGICAL	INORGANIC mg/l			METALS ug/l		
Stream Segment Description									
20. Mainstems of Black Sulphur Creek including all tributaries and wetlands from the source to the confluence with Piceance Creek.		Aq Life Cold 1 Recreation-N <u>Recreation-P</u> Agriculture	T=TVS(CS-I) °C D.O. = 6.0 mg/l D.O. (sp)=7.0 mg/l pH = 6.5-9.0 E.Coli=630/100ml <u>E.Coli=205/100ml</u>	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =100	As(ac)=340 As(ch)=7.6(Trec) Cd(ac)=TVS(tr) Cd(ch)=TVS CrIII(ac/ch)=TVS CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac)=TVS Ag(ch)=TVS(tr) Zn(ac/ch)=TVS	

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## **WESTERN RESOURCE ADVOCATES** **PROPOSED**

### **37.33 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014** **RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

Western Resource Advocates (WRA) proposed to change the aquatic life classification from Cold II to Cold 1 in White River Segments 17, 18 & 19 along with a corresponding change to the chronic arsenic (Trec) standard in Segment 19. WRA presented un rebutted evidence of the presence of brook trout in these segments or in other segments with similar conditions to these segments. Accordingly, the Commission changed the aquatic life classifications as proposed by WRA.

WRA also proposed to change the recreational use classification from N to P in White River Segments 13c, 17 & 20, along with the corresponding change to *E. Coli* standards. WRA presented un rebutted evidence indicating that portions of these segments are located on public land and that there is the potential for recreational fishing and activity in these segments. Accordingly, the Commission changed the recreational use class classification as proposed by WRA, along with the corresponding *E. Coli* standards.

**EXHIBIT 12**  
**COLORADO RIVER WATER CONSERVATION DISTRICT**

**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**

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**STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS**

REGION:11		Desig	Classifications	NUMERIC STANDARDS					TEMPORARY MODIFICATIONS AND QUALIFIERS	
BASIN: Lower Yampa River/Green River				PHYSICAL and BIOLOGICAL	INORGANIC mg/l		METALS ug/l			
Stream Segment Description										
2.	Mainstem of the Yampa River from a point immediately below <u>above</u> the confluence with Elkhead Creek to the confluence with the Green River.		Aq Life Warm 1 Recreation E Water Supply Agriculture	T=TVS(WS-II) °C D.O. = 5.0 mg/l pH = 6.5-9.0 E. Coli=126/100ml	NH <sub>3</sub> (ac/ch)=TVS Cl <sub>2</sub> (ac)=0.019 Cl <sub>2</sub> (ch)=0.011 CN=0.005	S=0.002 B=0.75 NO <sub>2</sub> =0.05 NO <sub>3</sub> =10 Cl=250 SO <sub>4</sub> =WS	As(ac)=340 As(ch)=0.02(Trec) Cd(ac/ch)=TVS CrIII(ac)=50(Trec) CrVI(ac/ch)=TVS Cu(ac/ch)=TVS	Fe(ch)=WS(dis) Fe(ch)=1000(Trec) Pb(ac/ch)=TVS Mn(ac/ch)=TVS Mn(ch)=WS(dis) Hg(ch)=0.01(tot)	Ni(ac/ch)=TVS Se(ac/ch)=TVS Ag(ac/ch)=TVS Zn(ac)=TVS Zn(ch)=TVS(sc)	Temporary modification: As(ch)=hybrid Expiration date of 12/31/21.

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**COLORADO RIVER WATER CONSERVATION DISTRICT**  
**PROPOSED**

**37.33 STATEMENT OF BASIS SPECIFIC STATUTORY AUTHORITY AND PURPOSE JUNE 9, 2014**  
**RULEMAKING; FINAL ACTION AUGUST 11, 2014 EFFECTIVE DATE DECEMBER 31, 2014**

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**

Under 31.6(4)(c) regarding segmentation criteria, the Colorado River Water Conservation District proposed, and the Commission adopted, a change in the segmentation description for Lower Yampa River/Green River Segment 2 by replacing the word "below" with "above".