

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

**5 CCR 1002-38**

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

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

Effective ~~06/30/2024~~ 12/31/2021

## Abbreviations and Acronyms

|                   |   |                                    |
|-------------------|---|------------------------------------|
| Aq                | = | Aquatic                            |
| °C                | = | degrees Celsius                    |
| CL                | = | cold lake temperature tier         |
| CLL               | = | cold large lake temperature tier   |
| CS-I              | = | cold stream temperature tier one   |
| CS-II             | = | cold stream temperature tier two   |
| D.O.              | = | dissolved oxygen                   |
| DM                | = | daily maximum temperature          |
| DUWS              | = | direct use water supply            |
| E. coli           | = | <i>Escherichia coli</i>            |
| EQ                | = | existing quality                   |
| mg/L              | = | milligrams per liter               |
| mg/m <sup>2</sup> | = | milligrams per square meter        |
| mL                | = | milliliter                         |
| MWAT              | = | maximum weekly average temperature |
| OW                | = | outstanding waters                 |
| SSE               | = | site-specific equation             |
| T                 | = | total recoverable                  |
| t                 | = | total                              |
| tr                | = | trout                              |
| TVS               | = | table value standard               |
| µg/L              | = | micrograms per liter               |
| UP                | = | use-protected                      |
| WS                | = | water supply                       |
| WS-I              | = | warm stream temperature tier one   |
| WS-II             | = | warm stream temperature tier two   |
| WS-III            | = | warm stream temperature tier three |
| WL                | = | warm lake temperature tier         |

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 1a. Mainstem of the South Platte River from the source of the South and Middle Forks to the inlet of Cheesman Reservoir. |  |   |           |                    |                 |                      |
|--|--|---|-----------|--------------------|-----------------|----------------------|
| COSPUS01A  | Classifications                                | Physical and Biological                 |           |                    | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    | DM                                      | MWAT      | acute      chronic |                 |                      |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                          | CS-I*     | CS-I*              | Arsenic         | 340      ---         |
|  |  | acute                                   | chronic   | Arsenic(T)         | ---      0.02   |                      |
| <b>Qualifiers:</b>   |  | D.O. (mg/L)                             | ---       | 6.0                | Cadmium         | TVS      TVS         |
| <b>Other:</b>  |  | D.O. (spawning)                         | ---       | 7.0                | Cadmium(T)      | 5.0      ---         |
| Temporary Modification(s):   |  | pH                                      | 6.5 - 9.0 | ---                | Chromium III    | ---      TVS         |
| Arsenic(chronic) = hybrid  |  | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*               | Chromium III(T) | 50      ---          |
| Expiration Date of 12/31/2024  |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126                | Chromium VI     | TVS      TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).                      |  | <b>Inorganic (mg/L)</b>                 |           |                    | Copper          | TVS      TVS         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |  | acute                                   | chronic   | Iron               | ---      WS     |                      |
| *Uranium(acute) = See 38.5(3) for details.   |  | Ammonia                                 | TVS       | TVS                | Iron(T)         | ---      1000        |
| *Uranium(chronic) = See 38.5(3) for details.   |  | Boron                                   | ---       | 0.75               | Lead            | TVS      TVS         |
| *Temperature = summer criteria apply from 4/1-10/31  |  | Chloride                                | ---       | 250                | Lead(T)         | 50      ---          |
|  |  | Chlorine                                | 0.019     | 0.011              | Manganese       | TVS      TVS/WS      |
|  |  | Cyanide                                 | 0.005     | ---                | Mercury(T)      | ---      0.01        |
|  |  | Nitrate                                 | 10        | ---                | Molybdenum(T)   | ---      150         |
|  |  | Nitrite                                 | ---       | 0.05               | Nickel          | TVS      TVS         |
|  |  | Phosphorus                              | ---       | 0.11*              | Nickel(T)       | ---      100         |
|  |  | Sulfate                                 | ---       | WS                 | Selenium        | TVS      TVS         |
|  |  | Sulfide                                 | ---       | 0.002              | Silver          | TVS      TVS(tr)     |
|  |  |   |           |                    | Uranium         | varies*      varies* |
|  |  |   |           |                    | Zinc            | TVS      TVS         |

  

| 1b. All tributaries to the South Platte River, including wetlands within the Lost Creek and Mt. Evans Wilderness Areas. |  |   |           |                    |                 |                      |
|---|--|---|-----------|--------------------|-----------------|----------------------|
| COSPUS01B   | Classifications                                | Physical and Biological                 |           |                    | Metals (ug/L)   |                      |
| Designation   | Agriculture                                    | DM                                      | MWAT      | acute      chronic |                 |                      |
| OW  | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                          | CS-I      | CS-I               | Arsenic         | 340      ---         |
|   |  | acute                                   | chronic   | Arsenic(T)         | ---      0.02   |                      |
| <b>Qualifiers:</b>  |  | D.O. (mg/L)                             | ---       | 6.0                | Cadmium         | TVS      TVS         |
| <b>Other:</b>   |  | D.O. (spawning)                         | ---       | 7.0                | Cadmium(T)      | 5.0      ---         |
| *Uranium(acute) = See 38.5(3) for details.  |  | pH                                      | 6.5 - 9.0 | ---                | Chromium III    | ---      TVS         |
| *Uranium(chronic) = See 38.5(3) for details.  |  | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150                | Chromium III(T) | 50      ---          |
|   |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126                | Chromium VI     | TVS      TVS         |
|   |  | <b>Inorganic (mg/L)</b>                 |           |                    | Copper          | TVS      TVS         |
|   |  | acute                                   | chronic   | Iron               | ---      WS     |                      |
|   |  | Ammonia                                 | TVS       | TVS                | Iron(T)         | ---      1000        |
|   |  | Boron                                   | ---       | 0.75               | Lead            | TVS      TVS         |
|   |  | Chloride                                | ---       | 250                | Lead(T)         | 50      ---          |
|   |  | Chlorine                                | 0.019     | 0.011              | Manganese       | TVS      TVS/WS      |
|   |  | Cyanide                                 | 0.005     | ---                | Mercury(T)      | ---      0.01        |
|   |  | Nitrate                                 | 10        | ---                | Molybdenum(T)   | ---      150         |
|   |  | Nitrite                                 | ---       | 0.05               | Nickel          | TVS      TVS         |
|   |  | Phosphorus                              | ---       | 0.11               | Nickel(T)       | ---      100         |
|   |  | Sulfate                                 | ---       | WS                 | Selenium        | TVS      TVS         |
|   |  | Sulfide                                 | ---       | 0.002              | Silver          | TVS      TVS(tr)     |
|   |  |   |           |                    | Uranium         | varies*      varies* |
|   |  |   |           |                    | Zinc            | TVS      TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.





# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 4. Mainstem of the North Fork of the South Platte River, including all tributaries and wetlands from the source to the confluence with the South Platte River, except for listings in Segments 1b, 5a, 5b, and 5c. |   |  |           |         |                 |                 |
|--|---|--|-----------|---------|-----------------|-----------------|
| COSPUS04   | Classifications   | Physical and Biological                      |           |         | Metals (ug/L)   |                 |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute   | chronic         |                 |
| Reviewable   |   | acute  | chronic   | arsenic | arsenic         |                 |
|  |   | Temperature °C                               | CS-I      | CS-I    | Arsenic         | 340 ---         |
|  |   | D.O. (mg/L)                                  | ---       | 6.0     | Arsenic(T)      | --- 0.02        |
| <b>Qualifiers:</b>   |   | D.O. (spawning)                              | ---       | 7.0     | Cadmium         | TVS TVS         |
| <b>Other:</b>  |   | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0 ---         |
| Temporary Modification(s):   |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150*    | Chromium III    | --- TVS         |
| Arsenic(chronic) = hybrid  |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50 ---          |
| Expiration Date of 12/31/2024  |   |  |           |         | Chromium VI     | TVS TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |   |  |           |         | Copper          | TVS TVS         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |   |  |           |         | Iron            | --- WS          |
| *Uranium(acute) = See 38.5(3) for details.   |   |  |           |         | Iron(T)         | --- 1000        |
| *Uranium(chronic) = See 38.5(3) for details.   |   |  |           |         | Lead            | TVS TVS         |
|  |   |  |           |         | Lead(T)         | 50 ---          |
|  |   |  |           |         | Manganese       | TVS TVS/WS      |
|  |   |  |           |         | Mercury(T)      | --- 0.01        |
|  |   |  |           |         | Molybdenum(T)   | --- 150         |
|  |   |  |           |         | Nickel          | TVS TVS         |
|  |   |  |           |         | Nickel(T)       | --- 100         |
|  |   |  |           |         | Selenium        | TVS TVS         |
|  |   |  |           |         | Silver          | TVS TVS(tr)     |
|  |   |  |           |         | Uranium         | varies* varies* |
|  |   |  |           |         | Zinc            | TVS TVS         |

| 5a. Mainstem of Geneva Creek from the source to the confluence with Scott Gomer Creek. |   |  |         |         |                 |                 |
|--|---|--|---------|---------|-----------------|-----------------|
| COSPUS05A  | Classifications                               | Physical and Biological                      |         |         | Metals (ug/L)   |                 |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E | DM   | MWAT    | acute   | chronic         |                 |
| Reviewable   |   | acute  | chronic | arsenic | arsenic         |                 |
|  |   | Temperature °C                               | CS-I    | CS-I    | Arsenic         | 340 ---         |
|  |   | D.O. (mg/L)                                  | ---     | 6.0     | Arsenic(T)      | --- 7.6         |
| <b>Qualifiers:</b>   |   | D.O. (spawning)                              | ---     | 7.0     | Cadmium         | --- ---         |
| <b>Other:</b>  |   | pH   | 3.5-9.0 | ---     | Cadmium(T)      | --- 2           |
| *Uranium(acute) = See 38.5(3) for details.   |   | chlorophyll a (mg/m <sup>2</sup> )           | ---     | 150     | Chromium III    | --- ---         |
| *Uranium(chronic) = See 38.5(3) for details.   |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---     | 126     | Chromium III(T) | --- 100         |
|  |   |  |         |         | Chromium VI     | --- ---         |
|  |   |  |         |         | Chromium VI(T)  | --- 25          |
|  |   |  |         |         | Copper          | --- 18          |
|  |   |  |         |         | Iron(T)         | --- 1200        |
|  |   |  |         |         | Lead            | --- ---         |
|  |   |  |         |         | Lead(T)         | --- 4           |
|  |   |  |         |         | Manganese       | --- 530         |
|  |   |  |         |         | Mercury(T)      | --- 0.05        |
|  |   |  |         |         | Molybdenum(T)   | --- 150         |
|  |   |  |         |         | Nickel          | --- ---         |
|  |   |  |         |         | Nickel(T)       | --- 50          |
|  |   |  |         |         | Selenium        | --- ---         |
|  |   |  |         |         | Selenium(T)     | --- 4.6         |
|  |   |  |         |         | Silver          | --- ---         |
|  |   |  |         |         | Silver(T)       | --- 1           |
|  |   |  |         |         | Uranium         | varies* varies* |
|  |   |  |         |         | Zinc            | --- 190         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

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

| COSPUS05B                                    | Classifications | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| Designation                                  | Agriculture     |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable                                   | Aq Life Cold 1  | Temperature °C                               | CS-I      | CS-I    | Arsenic         | 340     | ---     |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>                           |                 | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>                                |                 | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):                   |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid                    |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024                |                 |  |           |         | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <b>Inorganic (mg/L)</b>                      |           |         | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details. |                 |  | acute     | chronic | Iron(T)         | ---     | 1000    |
|  |                 | Ammonia                                      | TVS       | TVS     | Lead            | TVS     | TVS     |
|  |                 | Boron  | ---       | 0.75    | Lead(T)         | 50      | ---     |
|  |                 | Chloride                                     | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|  |                 | Chlorine                                     | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|  |                 | Cyanide                                      | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|  |                 | Nitrate                                      | 10        | ---     | Nickel          | TVS     | TVS     |
|  |                 | Nitrite                                      | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|  |                 | Phosphorus                                   | ---       | 0.11    | Selenium        | TVS     | TVS     |
|  |                 | Sulfate                                      | ---       | WS      | Silver          | TVS     | TVS(tr) |
|  |                 | Sulfide                                      | ---       | 0.002   | Uranium         | varies* | varies* |
|  |                 |  |           |         | Zinc            | TVS     | TVS     |

5c. Mainstem of Gooseberry Gulch and all tributaries from source to Sunset Trail.

| COSPUS05C                                    | Classifications | Physical and Biological                      |           |         | Metals (ug/L)   |         |                      |
|--|-----------------|--|-----------|---------|-----------------|---------|----------------------|
| Designation                                  | Agriculture     |  | DM        | MWAT    |                 | acute   | chronic              |
| Reviewable                                   | Aq Life Cold 2  | Temperature °C                               | CS-II     | CS-II   | Arsenic         | 340     | ---                  |
|  | Recreation U    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|  | Water Supply    | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS                  |
| <b>Qualifiers:</b>                           |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
| <b>Other:</b>                                |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---       | ---     | Chromium III    | ---     | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
| *Uranium(chronic) = See 38.5(3) for details. |                 | <b>Inorganic (mg/L)</b>                      |           |         | Chromium VI     | TVS     | TVS                  |
|  |                 |  | acute     | chronic | Copper          | TVS     | TVS                  |
|  |                 | Ammonia                                      | TVS       | TVS     | Iron            | ---     | WS                   |
|  |                 | Boron  | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|  |                 | Chloride                                     | ---       | 250     | Lead            | TVS     | TVS                  |
|  |                 | Chlorine                                     | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|  |                 | Cyanide                                      | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|  |                 | Nitrate                                      | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|  |                 | Nitrite                                      | ---       | 0.05    | Molybdenum(T)   | ---     | 150                  |
|  |                 | Phosphorus                                   | ---       | ---     | Nickel          | TVS     | TVS                  |
|  |                 | Sulfate                                      | ---       | WS      | Nickel(T)       | ---     | 100                  |
|  |                 | Sulfide                                      | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|  |                 |  |           |         | Silver          | TVS     | TVS                  |
|  |                 |  |           |         | Uranium         | varies* | varies*              |
|  |                 |  |           |         | Zinc            | TVS     | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 5d. Mainstem of Gooseberry Gulch and all tributaries from Sunset Trail to confluence with Elk Creek.   |   |   |   |                         |                 |         |                      |  |
|--|---|---|---|-------------------------|-----------------|---------|----------------------|--|
| COSPUS05D  | Classifications   | Physical and Biological   |   |                         | Metals (ug/L)   |         |                      |  |
| Designation  | Agriculture<br>Aq Life Cold 2<br>Recreation U<br>Water Supply | DM  | MWAT  | acute                   | chronic         |         |                      |  |
| Reviewable   |   | Temperature °C  | CS-II   | CS-II                   | Arsenic         | 340     | ---                  |  |
|  |   |   | acute   | chronic                 | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |  |
| Qualifiers:  |   | D.O. (mg/L)   | ---   | 6.0                     | Cadmium         | TVS     | TVS                  |  |
| Other:   |   | D.O. (spawning)   | ---   | 7.0                     | Cadmium(T)      | 5.0     | ---                  |  |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.   |   | pH  | 6.5 - 9.0   | ---                     | Chromium III    | ---     | TVS                  |  |
|  |   | chlorophyll a (mg/m <sup>2</sup> )  | ---   | ---                     | Chromium III(T) | 50      | ---                  |  |
|  |   | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL)  | ---   | 126                     | Chromium VI     | TVS     | TVS                  |  |
|  |   | Inorganic (mg/L)  |   |                         | Copper          | TVS     | TVS                  |  |
|  |   | acute   | chronic   | Iron                    | ---             | WS      |                      |  |
|  |   | Ammonia   | TVS   | TVS                     | Iron(T)         | ---     | 1000                 |  |
|  |   | Boron   | ---   | 0.75                    | Lead            | TVS     | TVS                  |  |
|  |   | Chloride  | ---   | 250                     | Lead(T)         | 50      | ---                  |  |
|  |   | Chlorine  | 0.019   | 0.011                   | Manganese       | TVS     | TVS/WS               |  |
|  |   | Cyanide   | 0.005   | ---                     | Mercury(T)      | ---     | 0.01                 |  |
|  |   | Nitrate   | 10  | ---                     | Molybdenum(T)   | ---     | 150                  |  |
|  |   | Nitrite   | ---   | 0.05                    | Nickel          | TVS     | TVS                  |  |
|  |   | Phosphorus  | ---   | ---                     | Nickel(T)       | ---     | 100                  |  |
|  |   | Sulfate   | ---   | WS                      | Selenium        | TVS     | TVS                  |  |
|  |   | Sulfide   | ---   | 0.002                   | Silver          | TVS     | TVS(tr)              |  |
|  |   |   |   |                         | Uranium         | varies* | varies*              |  |
|  |   |   |   |                         | Zinc            | TVS     | TVS                  |  |
|  |   | 6a. Mainstem of the South Platte River from the outlet of Cheesman Reservoir to the inlet of Chatfield Reservoir. |   |                         |                 |         |                      |  |
|  |   | COSPUS06A   | Classifications   | Physical and Biological |                 |         | Metals (ug/L)        |  |
|  |   | Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                      | MWAT            | acute   | chronic              |  |
| Reviewable   | Temperature °C  | CS-II   |   | CS-II                   | Arsenic         | 340     | ---                  |  |
|  |   | acute   |   | chronic                 | Arsenic(T)      | ---     | 0.02                 |  |
| Qualifiers:  |   | D.O. (mg/L)   | ---   | 6.0                     | Cadmium         | TVS     | TVS                  |  |
| Other:   |   | D.O. (spawning)   | ---   | 7.0                     | Cadmium(T)      | 5.0     | ---                  |  |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | pH  | 6.5 - 9.0   | ---                     | Chromium III    | ---     | TVS                  |  |
|  |   | chlorophyll a (mg/m <sup>2</sup> )  | ---   | ---                     | Chromium III(T) | 50      | ---                  |  |
|  |   | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL)  | ---   | 126                     | Chromium VI     | TVS     | TVS                  |  |
|  |   | Inorganic (mg/L)  |   |                         | Copper          | TVS     | TVS                  |  |
|  |   | acute   | chronic   | Iron                    | ---             | WS      |                      |  |
|  |   | Ammonia   | TVS   | TVS                     | Iron(T)         | ---     | 1000                 |  |
|  |   | Boron   | ---   | 0.75                    | Lead            | TVS     | TVS                  |  |
|  |   | Chloride  | ---   | 250                     | Lead(T)         | 50      | ---                  |  |
|  |   | Chlorine  | 0.019   | 0.011                   | Manganese       | TVS     | TVS/WS               |  |
|  |   | Cyanide   | 0.005   | ---                     | Mercury(T)      | ---     | 0.01                 |  |
|  |   | Nitrate   | 10  | ---                     | Molybdenum(T)   | ---     | 150                  |  |
|  |   | Nitrite   | ---   | 0.05                    | Nickel          | TVS     | TVS                  |  |
|  |   | Phosphorus  | ---   | ---                     | Nickel(T)       | ---     | 100                  |  |
|  |   | Sulfate   | ---   | WS                      | Selenium        | TVS     | TVS                  |  |
|  |   | Sulfide   | ---   | 0.002                   | Silver          | TVS     | TVS(tr)              |  |
|  |   |   |   |                         | Uranium         | varies* | varies*              |  |
|  |   |   |   |                         | Zinc            | TVS     | TVS                  |  |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 6b. Chatfield Reservoir  |  |                         |           |               |                 |        |     |
|--|--|-------------------------|-----------|---------------|-----------------|--------|-----|
| COSPUS06B  | Classifications                                | Physical and Biological |           |               | Metals (ug/L)   |        |     |
| Designation  | Agriculture                                    | DM                      | MWAT      |               |                 |        |     |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | varies*                 | varies*   | acute         | chronic         |        |     |
| <b>Qualifiers:</b><br><br><b>Other:</b><br><br>*chlorophyll a (ug/L)(chronic) = measured through samples that are representative of the mixed layer during July-Sept, with an allowable exceedance frequency of 1in 5 yrs. See section 38.6(4) for assessment thresholds.<br>*Phosphorus(chronic) = See section 38.6(4) for assessment thresholds.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Temperature =<br>DM=CLL and MWAT=CLL from 1/1-3/31<br>DM=CLL and MWAT=23.5 from 4/1-12/31 | Temperature °C                                 |                         |           | Arsenic       | 340             | ---    |     |
|  | D.O. (mg/L)                                    | ---                     | 6.0       | Arsenic(T)    | ---             | 0.02   |     |
|  | D.O. (spawning)                                | ---                     | 7.0       | Cadmium       | TVS             | TVS    |     |
|  | pH   | 6.5 - 9.0               | ---       | Cadmium(T)    | 5.0             | ---    |     |
|  | chlorophyll a (ug/L)                           | 7/1 - 9/30              | ---       | 10*           | Chromium III    | ---    | TVS |
|  | <del>E.-Coli</del> E. coli (per 100 mL)        | ---                     | ---       | 126           | Chromium III(T) | 50     | --- |
|  | Inorganic (mg/L)                               |                         |           | Chromium VI   | TVS             | TVS    |     |
|  |  |                         |           | Copper        | TVS             | TVS    |     |
|  |  |                         |           | Iron          | ---             | WS     |     |
|  |  |                         |           | Iron(T)       | ---             | 1000   |     |
|  |  |                         |           | Lead          | TVS             | TVS    |     |
|  |  |                         |           | Lead(T)       | 50              | ---    |     |
|  |  |                         |           | Manganese     | TVS             | TVS/WS |     |
|  |  |                         |           | Mercury(T)    | ---             | 0.01   |     |
|  |  |                         |           | Molybdenum(T) | ---             | 150    |     |
|  |  |                         | Nickel    | TVS           | TVS             |        |     |
|  |  |                         | Nickel(T) | ---           | 100             |        |     |
|  |  |                         | Selenium  | TVS           | TVS             |        |     |
|  |  |                         | Silver    | TVS           | TVS(tr)         |        |     |
|  |  |                         | Uranium   | varies*       | varies*         |        |     |
|  |  |                         | Zinc      | TVS           | TVS             |        |     |

7. All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with the North Fork of the South Platte River to the outlet of Chatfield Reservoir except for listings in Segments 8, 9, 10, 11, 12, and 13.

| 7. All tributaries to the South Platte River, including all wetlands from a point immediately below the confluence with the North Fork of the South Platte River to the outlet of Chatfield Reservoir except for listings in Segments 8, 9, 10, 11, 12, and 13. |  |                         |           |               |                 |                      |     |
|---|--|-------------------------|-----------|---------------|-----------------|----------------------|-----|
| COSPUS07  | Classifications                                | Physical and Biological |           |               | Metals (ug/L)   |                      |     |
| Designation   | Agriculture                                    | DM                      | MWAT      |               |                 |                      |     |
| Reviewable  | Aq Life Cold 2<br>Recreation E<br>Water Supply | CS-II                   | CS-II     | acute         | chronic         |                      |     |
| <b>Qualifiers:</b><br><br><b>Other:</b><br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.   | Temperature °C                                 |                         |           | Arsenic       | 340             | ---                  |     |
|   | D.O. (mg/L)                                    | ---                     | 6.0       | Arsenic(T)    | ---             | 0.02-10 <sup>A</sup> |     |
|   | D.O. (spawning)                                | ---                     | 7.0       | Cadmium       | TVS             | TVS                  |     |
|   | pH   | 6.5 - 9.0               | ---       | ---           | Cadmium(T)      | 5.0                  | --- |
|   | chlorophyll a (mg/m <sup>2</sup> )             | ---                     | ---       | 150           | Chromium III    | ---                  | TVS |
|   | <del>E.-Coli</del> E. coli (per 100 mL)        | ---                     | ---       | 126           | Chromium III(T) | 50                   | --- |
|   | Inorganic (mg/L)                               |                         |           | Chromium VI   | TVS             | TVS                  |     |
|   |  |                         |           | Copper        | TVS             | TVS                  |     |
|   |  |                         |           | Iron          | ---             | WS                   |     |
|   |  |                         |           | Iron(T)       | ---             | 1000                 |     |
|   |  |                         |           | Lead          | TVS             | TVS                  |     |
|   |  |                         |           | Lead(T)       | 50              | ---                  |     |
|   |  |                         |           | Manganese     | TVS             | TVS/WS               |     |
|   |  |                         |           | Mercury(T)    | ---             | 0.01                 |     |
|   |  |                         |           | Molybdenum(T) | ---             | 150                  |     |
|   |  |                         | Nickel    | TVS           | TVS             |                      |     |
|   |  |                         | Nickel(T) | ---           | 100             |                      |     |
|   |  |                         | Selenium  | TVS           | TVS             |                      |     |
|   |  |                         | Silver    | TVS           | TVS(tr)         |                      |     |
|   |  |                         | Uranium   | varies*       | varies*         |                      |     |
|   |  |                         | Zinc      | TVS           | TVS             |                      |     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

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

| COSPUS08                                     | Classifications                                | Physical and Biological                      |                         |         | Metals (ug/L)   |         |         |
|--|--|--|-------------------------|---------|-----------------|---------|---------|
| Designation                                  | Agriculture                                    |  | DM                      | MWAT    |                 | acute   | chronic |
| Reviewable                                   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                               | CS-I                    | CS-I    | Arsenic         | 340     | ---     |
| Qualifiers:                                  |  |  | acute                   | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:                                       |  | D.O. (mg/L)                                  | ---                     | 6.0     | Cadmium         | TVS     | TVS     |
| Temporary Modification(s):                   |  | D.O. (spawning)                              | ---                     | 7.0     | Cadmium(T)      | 5.0     | ---     |
| Arsenic(chronic) = hybrid                    |  | pH   | 6.5 - 9.0               | ---     | Chromium III    | ---     | TVS     |
| Expiration Date of 12/31/2024                |  | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | 150     | Chromium III(T) | 50      | ---     |
| *Uranium(acute) = See 38.5(3) for details.   |  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---                     | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details. |  |  |                         |         | Copper          | TVS     | TVS     |
|  |  |  | <b>Inorganic (mg/L)</b> |         | Iron            | ---     | WS      |
|  |  |  | acute                   | chronic | Iron(T)         | ---     | 1000    |
|  |  | Ammonia                                      | TVS                     | TVS     | Lead            | TVS     | TVS     |
|  |  | Boron  | ---                     | 0.75    | Lead(T)         | 50      | ---     |
|  |  | Chloride                                     | ---                     | 250     | Manganese       | TVS     | TVS/WS  |
|  |  | Chlorine                                     | 0.019                   | 0.011   | Mercury(T)      | ---     | 0.01    |
|  |  | Cyanide                                      | 0.005                   | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrate                                      | 10                      | ---     | Nickel          | TVS     | TVS     |
|  |  | Nitrite                                      | ---                     | 0.05    | Nickel(T)       | ---     | 100     |
|  |  | Phosphorus                                   | ---                     | 0.11    | Selenium        | TVS     | TVS     |
|  |  | Sulfate                                      | ---                     | WS      | Silver          | TVS     | TVS(tr) |
|  |  | Sulfide                                      | ---                     | 0.002   | Uranium         | varies* | varies* |
|  |  |  |                         |         | Zinc            | TVS     | TVS     |

9. Mainstem of Bear Creek, including all tributaries and wetlands from the source to the inlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir (Douglas County).

| COSPUS09                                     | Classifications                                | Physical and Biological                      |                         |         | Metals (ug/L)   |         |         |
|--|--|--|-------------------------|---------|-----------------|---------|---------|
| Designation                                  | Agriculture                                    |  | DM                      | MWAT    |                 | acute   | chronic |
| Reviewable                                   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                               | CS-I                    | CS-I    | Arsenic         | 340     | ---     |
| Qualifiers:                                  |  |  | acute                   | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:                                       |  | D.O. (mg/L)                                  | ---                     | 6.0     | Cadmium         | TVS     | TVS     |
| Temporary Modification(s):                   |  | D.O. (spawning)                              | ---                     | 7.0     | Cadmium(T)      | 5.0     | ---     |
| Arsenic(chronic) = hybrid                    |  | pH   | 6.5 - 9.0               | ---     | Chromium III    | ---     | TVS     |
| Expiration Date of 12/31/2024                |  | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | 150     | Chromium III(T) | 50      | ---     |
| *Uranium(acute) = See 38.5(3) for details.   |  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---                     | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details. |  |  |                         |         | Copper          | TVS     | TVS     |
|  |  |  | <b>Inorganic (mg/L)</b> |         | Iron            | ---     | WS      |
|  |  |  | acute                   | chronic | Iron(T)         | ---     | 1000    |
|  |  | Ammonia                                      | TVS                     | TVS     | Lead            | TVS     | TVS     |
|  |  | Boron  | ---                     | 0.75    | Lead(T)         | 50      | ---     |
|  |  | Chloride                                     | ---                     | 250     | Manganese       | TVS     | TVS/WS  |
|  |  | Chlorine                                     | 0.019                   | 0.011   | Mercury(T)      | ---     | 0.01    |
|  |  | Cyanide                                      | 0.005                   | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrate                                      | 10                      | ---     | Nickel          | TVS     | TVS     |
|  |  | Nitrite                                      | ---                     | 0.05    | Nickel(T)       | ---     | 100     |
|  |  | Phosphorus                                   | ---                     | 0.11    | Selenium        | TVS     | TVS     |
|  |  | Sulfate                                      | ---                     | WS      | Silver          | TVS     | TVS(tr) |
|  |  | Sulfide                                      | ---                     | 0.002   | Uranium         | varies* | varies* |
|  |  |  |                         |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

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

| COSPUS10  | Classifications | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
|---|-----------------|--|-----------|---------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Warm 1  | Temperature °C                             | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                                | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150*    | Chromium III    | ---     | TVS     |
| Temporary Modification(s):  |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid   |                 | <b>Inorganic (mg/L)</b>                    |           |         | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024   |                 |  | acute     | chronic | Copper          | TVS     | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). |                 | Ammonia                                    | TVS       | TVS     | Iron            | ---     | WS      |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                         |                 | Boron                                      | ---       | 0.75    | Iron(T)         | ---     | 1000    |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Chloride                                   | ---       | 250     | Lead            | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Chlorine                                   | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|   |                 | Cyanide                                    | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|   |                 | Nitrate                                    | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrite                                    | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|   |                 | Phosphorus                                 | ---       | 0.17*   | Nickel          | TVS     | TVS     |
|   |                 | Sulfate                                    | ---       | WS      | Nickel(T)       | ---     | 100     |
|   |                 | Sulfide                                    | ---       | 0.002   | Selenium        | TVS     | TVS     |
|   |                 |  |           |         | Silver          | TVS     | TVS     |
|   |                 |  |           |         | Uranium         | varies* | varies* |
|   |                 |  |           |         | Zinc            | TVS     | TVS     |

11a. All tributaries to the East Plum Creek system, including all wetlands which are not on national forest lands.

| COSPUS11A                                    | Classifications | Physical and Biological                    |           |         | Metals (ug/L)   |         |                      |
|--|-----------------|--|-----------|---------|-----------------|---------|----------------------|
| Designation                                  | Agriculture     |  | DM        | MWAT    |                 | acute   | chronic              |
| UP   | Aq Life Warm 2  | Temperature °C                             | WS-II     | WS-II   | Arsenic         | 340     | ---                  |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|  | Water Supply    | D.O. (mg/L)                                | ---       | 5.0     | Cadmium         | TVS     | TVS                  |
| <b>Qualifiers:</b>                           |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
| <b>Other:</b>                                |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150     | Chromium III    | ---     | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
| *Uranium(chronic) = See 38.5(3) for details. |                 | <b>Inorganic (mg/L)</b>                    |           |         | Chromium VI     | TVS     | TVS                  |
|  |                 |  | acute     | chronic | Copper          | TVS     | TVS                  |
|  |                 | Ammonia                                    | TVS       | TVS     | Iron            | ---     | WS                   |
|  |                 | Boron                                      | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|  |                 | Chloride                                   | ---       | 250     | Lead            | TVS     | TVS                  |
|  |                 | Chlorine                                   | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|  |                 | Cyanide                                    | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|  |                 | Nitrate                                    | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|  |                 | Nitrite                                    | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|  |                 | Phosphorus                                 | ---       | 0.17    | Nickel          | TVS     | TVS                  |
|  |                 | Sulfate                                    | ---       | WS      | Nickel(T)       | ---     | 100                  |
|  |                 | Sulfide                                    | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|  |                 |  |           |         | Silver          | TVS     | TVS                  |
|  |                 |  |           |         | Uranium         | varies* | varies*              |
|  |                 |  |           |         | Zinc            | TVS     | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 11b. All tributaries to the West Plum Creek system, including all wetlands, which are not on national forest lands, except for listings in Segments 9 and 12.   |  |   |           |         |                 |                               |
|---|--|---|-----------|---------|-----------------|-------------------------------|
| COSPUS11B   | Classifications  | Physical and Biological                 |           |         | Metals (ug/L)   |                               |
| Designation   | Agriculture  |   | DM        | MWAT    |                 | acute      chronic            |
| UP  | Aq Life Warm 2<br>Water Supply<br>Recreation E   | Temperature °C                          | WS-I      | WS-I    | Arsenic         | 340      ---                  |
|   |  |   | acute     | chronic | Arsenic(T)      | ---      0.02-10 <sup>A</sup> |
|   |  | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS      TVS                  |
| <b>Qualifiers:</b>  |  | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0      ---                  |
| <b>Other:</b>   | *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*    | Chromium III    | ---      TVS                  |
|   |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      ---                   |
|   |  | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS      TVS                  |
|   |  |   | acute     | chronic | Copper          | TVS      TVS                  |
|   |  | Ammonia                                 | TVS       | TVS     | Iron            | ---      WS                   |
|   |  | Boron                                   | ---       | 0.75    | Iron(T)         | ---      1000                 |
|   |  | Chloride                                | ---       | 250     | Lead            | TVS      TVS                  |
|   |  | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      ---                   |
|   |  | Cyanide                                 | 0.005     | ---     | Manganese       | TVS      TVS/WS               |
|   |  | Nitrate                                 | 10        | ---     | Mercury(T)      | ---      0.01                 |
|   |  | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---      150                  |
|   |  | Phosphorus                              | ---       | 0.17*   | Nickel          | TVS      TVS                  |
|   |  | Sulfate                                 | ---       | WS      | Nickel(T)       | ---      100                  |
|   |  | Sulfide                                 | ---       | 0.002   | Selenium        | TVS      TVS                  |
|   |  |   |           |         | Silver          | TVS      TVS                  |
|   |  |   |           |         | Uranium         | varies*      varies*          |
|   |  |   |           |         | Zinc            | TVS      TVS                  |
| 12. Mainstem of Garber Creek and Jackson Creek from the boundary of National Forest lands to the confluence with West Plum Creek; mainstem of Bear Creek from the outlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir, to the confluence with West Plum Creek. |  |   |           |         |                 |                               |
| COSPUS12  | Classifications  | Physical and Biological                 |           |         | Metals (ug/L)   |                               |
| Designation   | Agriculture  |   | DM        | MWAT    |                 | acute      chronic            |
| Reviewable  | Aq Life Warm 1<br>Recreation E<br>Water Supply   | Temperature °C                          | WS-I      | WS-I    | Arsenic         | 340      ---                  |
|   |  |   | acute     | chronic | Arsenic(T)      | ---      0.02                 |
|   |  | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS      TVS                  |
| <b>Qualifiers:</b>  |  | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0      ---                  |
| <b>Other:</b>   | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.   | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150     | Chromium III    | ---      TVS                  |
|   |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      ---                   |
|   |  | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS      TVS                  |
|   |  |   | acute     | chronic | Copper          | TVS      TVS                  |
|   |  | Ammonia                                 | TVS       | TVS     | Iron            | ---      WS                   |
|   |  | Boron                                   | ---       | 0.75    | Iron(T)         | ---      1000                 |
|   |  | Chloride                                | ---       | 250     | Lead            | TVS      TVS                  |
|   |  | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      ---                   |
|   |  | Cyanide                                 | 0.005     | ---     | Manganese       | TVS      TVS/WS               |
|   |  | Nitrate                                 | 10        | ---     | Mercury(T)      | ---      0.01                 |
|   |  | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---      150                  |
|   |  | Phosphorus                              | ---       | 0.17    | Nickel          | TVS      TVS                  |
|   |  | Sulfate                                 | ---       | WS      | Nickel(T)       | ---      100                  |
|   |  | Sulfide                                 | ---       | 0.002   | Selenium        | TVS      TVS                  |
|   |  |   |           |         | Silver          | TVS      TVS                  |
|   |  |   |           |         | Uranium         | varies*      varies*          |
|   |  |   |           |         | Zinc            | TVS      TVS                  |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 13. Mainstem of Deer Creek, including the North and South Forks, from the source to Chatfield Reservoir. |                 |                                    |           |         |                 |         |         |
|--|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPUS13   | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     |                                    | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 1  | Temperature °C                     | CS-II     | CS-II   | Arsenic         | 340     | ---     |
|  | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |                 | D.O. (mg/L)                        | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |                 | D.O. (spawning)                    | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |                 | pH                                 | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  |                 | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):   |                 | <b>E.-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid  |                 | <b>Inorganic (mg/L)</b>            |           |         | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024  |                 |                                    | acute     | chronic | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Ammonia                            | TVS       | TVS     | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Boron                              | ---       | 0.75    | Lead            | TVS     | TVS     |
|  |                 | Chloride                           | ---       | 250     | Lead(T)         | 50      | ---     |
|  |                 | Chlorine                           | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|  |                 | Cyanide                            | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrate                            | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|  |                 | Nitrite                            | ---       | 0.05    | Nickel          | TVS     | TVS     |
|  |                 | Phosphorus                         | ---       | 0.11    | Nickel(T)       | ---     | 100     |
|  |                 | Sulfate                            | ---       | WS      | Selenium        | TVS     | TVS     |
|  |                 | Sulfide                            | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|  |                 |                                    |           |         | Uranium         | varies* | varies* |
|  |                 |                                    |           |         | Zinc            | TVS     | TVS     |

  

| 14. Mainstem of the South Platte River from the outlet of Chatfield Reservoir to the Burlington Ditch diversion in Denver, Colorado. |                 |                                    |           |         |                 |         |         |
|--|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPUS14   | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     |                                    | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Warm 1  | Temperature °C                     | WS-I*     | WS-I*   | Arsenic         | 340     | ---     |
|  | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |                 | D.O. (mg/L)                        | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|  |                 | pH                                 | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> ) | ---       | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  |                 | <b>E.-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):   |                 | <b>Inorganic (mg/L)</b>            |           |         | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid  |                 |                                    | acute     | chronic | Copper          | ---     | TVS*    |
| Expiration Date of 12/31/2024  |                 | Ammonia                            | TVS       | TVS     | Copper          | TVS*    | ---     |
| *Copper(acute) = Copper BLM-based FMB  |                 | Boron                              | ---       | 0.75    | Iron            | ---     | WS      |
| Cu FMB(ac)=31.5 ug/l   |                 | Chloride                           | ---       | 250     | Iron(T)         | ---     | 1000    |
| downstream of Marcy Gulch.   |                 | Chlorine                           | 0.019     | 0.011   | Lead            | TVS     | TVS     |
| *Copper(chronic) = Copper BLM-based FMB  |                 | Cyanide                            | 0.005     | ---     | Lead(T)         | 50      | ---     |
| Cu FMB(ch)=20.8 ug/l   |                 | Nitrate                            | 10        | ---     | Manganese       | TVS     | TVS/190 |
| downstream of Marcy Gulch.   |                 | Nitrite                            | ---       | 0.5     | Mercury(T)      | ---     | 0.01    |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Phosphorus                         | ---       | ---     | Molybdenum(T)   | ---     | 150     |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Sulfate                            | ---       | WS      | Nickel          | TVS     | TVS     |
| *Temperature = summer criteria apply from 2/14 - 11/30   |                 | Sulfide                            | ---       | 0.002   | Nickel(T)       | ---     | 100     |
|  |                 |                                    |           |         | Selenium        | TVS     | TVS     |
|  |                 |                                    |           |         | Silver          | TVS     | TVS     |
|  |                 |                                    |           |         | Uranium         | varies* | varies* |
|  |                 |                                    |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 15. Mainstem of the South Platte River from the Burlington Ditch diversion in Denver, Colorado, to a point immediately below the confluence with Big Dry Creek. |   |                                    |                         |                |                 |         |         |
|---|---|------------------------------------|-------------------------|----------------|-----------------|---------|---------|
| COSPUS15  | Classifications   | Physical and Biological            |                         |                | Metals (ug/L)   |         |         |
| Designation   |   |                                    | DM                      | MWAT           |                 |         |         |
|   |   |                                    |                         |                | acute           | chronic |         |
| UP  | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply | Temperature °C                     | WS-I                    | WS-I           | Arsenic         | 340     | ---     |
|   |   |                                    | <b>acute</b>            | <b>chronic</b> | Arsenic(T)      | ---     | 0.02    |
|   |   | D.O. (mg/L)                        | varies*                 | varies*        | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |   | pH                                 | 6.0-9.0*                | ---            | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |   | pH                                 | 6.5 - 9.0               | ---            | Chromium III    | ---     | TVS     |
| Temporary Modification(s):  |   | chlorophyll a (mg/m <sup>2</sup> ) | ---                     | ---            | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid   |   | <b>E-Coli/E. coli</b> (per 100 mL) | ---                     | 126            | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024   |   |                                    | <b>Inorganic (mg/L)</b> |                | Copper          | ---     | TVS*    |
| temperature(DM/MWAT) = current condition*   |   |                                    |                         |                | Copper          | TVS*    | ---     |
| Expiration Date of 12/31/2021   |   |                                    |                         |                | Iron            | ---     | WS      |
| Discharger Specific Variance(s):  |   | Ammonia                            | TVS*                    | TVS*           | Iron(T)         | ---     | 1000    |
| Selenium(acute) = TVS: no limit   |   | Boron                              | ---                     | 0.75           | Lead            | TVS     | TVS     |
| Selenium(chronic) = TVS: 24 ug/L  |   | Chloride                           | ---                     | 250            | Lead(T)         | 50      | ---     |
| Expiration Date of 12/31/2023   |   | Chlorine                           | 0.019                   | 0.011          | Manganese       | TVS     | TVS/400 |
| *Ammonia(acute) = See section 38.6(4) for site-specific standards.  |   | Cyanide                            | 0.005                   | ---            | Mercury(T)      | ---     | 0.01    |
| *Ammonia(chronic) = See section 38.6(4) for site-specific standards.  |   | Nitrate                            | 10                      | ---            | Molybdenum(T)   | ---     | 150     |
| *Copper(acute) = Copper BLM-based FMB   |   | Nitrite                            | 1.0                     | ---            | Nickel          | TVS     | TVS     |
| Cu FMB(ac)=26.4 ug/l  |   | Phosphorus                         | ---                     | ---            | Nickel(T)       | ---     | 100     |
| Downstream of the Metro Hite WWTF outfall.  |   | Sulfate                            | ---                     | WS             | Selenium        | TVS     | TVS     |
| *Copper(chronic) = Copper BLM-based FMB   |   | Sulfide                            | ---                     | 0.002          | Silver          | TVS     | TVS     |
| Cu FMB(ch)= 18.0 ug/l   |   |                                    |                         |                | Uranium         | varies* | varies* |
| Downstream of the Metro Hite WWTF outfall.  |   |                                    |                         |                | Zinc            | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.  |   |                                    |                         |                |                 |         |         |
| *Uranium(chronic) = See 38.5(3) for details.  |   |                                    |                         |                |                 |         |         |
| *D.O. (mg/L)(acute) = See section 38.6(4) for site-specific standards.  |   |                                    |                         |                |                 |         |         |
| *D.O. (mg/L)(chronic) = See section 38.6(4) for site-specific standards.  |   |                                    |                         |                |                 |         |         |
| *pH(acute) = 6.0 - 9.0 from 64th Ave. downstream 2 miles  |   |                                    |                         |                |                 |         |         |
| *TempMod: temperature = Adopted 6/8/2009  |   |                                    |                         |                |                 |         |         |
| *Variance: Selenium = see 38.6(6) for details.  |   |                                    |                         |                |                 |         |         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 16a. Mainstem of Sand Creek from the confluence of Murphy and Coal Creek in Arapahoe County to the confluence with the Toll Gate Creek. |                 |  |                  |         |                 |         |
|---|-----------------|--|------------------|---------|-----------------|---------|
| COSPUS16A   | Classifications | Physical and Biological                    |                  |         | Metals (ug/L)   |         |
| Designation   | Agriculture     |  | DM               | MWAT    |                 |         |
| Reviewable  | Aq Life Warm 2  | Temperature °C                             | WS-II            | WS-II   | Arsenic         | 340     |
|   | Water Supply    |  | acute            | chronic | Arsenic(T)      | ---     |
|   | Recreation E    | D.O. (mg/L)                                | ---              | 5.0     | Cadmium         | TVS     |
| Qualifiers:   |                 | pH   | 6.5 - 9.0        | ---     | Cadmium(T)      | 5.0     |
| Other:  |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---              | ---     | Chromium III    | ---     |
|   |                 | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---              | 126     | Chromium III(T) | 50      |
|   |                 |  | Inorganic (mg/L) |         | Chromium VI     | TVS     |
|   |                 |  | acute            | chronic | Copper          | TVS     |
|   |                 | Ammonia                                    | TVS              | TVS     | Iron            | ---     |
|   |                 | Boron                                      | ---              | 0.75    | Iron(T)         | ---     |
|   |                 | Chloride                                   | ---              | 250     | Lead            | TVS     |
|   |                 | Chlorine                                   | 0.019            | 0.011   | Lead(T)         | 50      |
|   |                 | Cyanide                                    | 0.005            | ---     | Manganese       | TVS     |
|   |                 | Nitrate                                    | 10               | ---     | Mercury(T)      | ---     |
|   |                 | Nitrite                                    | ---              | 0.5     | Molybdenum(T)   | ---     |
|   |                 | Phosphorus                                 | ---              | ---     | Nickel          | TVS     |
|   |                 | Sulfate                                    | ---              | WS      | Nickel(T)       | ---     |
|   |                 | Sulfide                                    | ---              | 0.002   | Selenium        | TVS     |
|   |                 |  |                  |         | Silver          | TVS     |
|   |                 |  |                  |         | Uranium         | varies* |
|   |                 |  |                  |         | Zinc            | TVS     |

\*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 16b. Aurora Reservoir.   |                 |  |           |         |                 |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| COSPUS16B  | Classifications | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM   | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                             | WL        | WL      | Arsenic         | 340     | ---     |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                                | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|  | DUWS            | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| Qualifiers:  |                 | chlorophyll a (ug/L)                       | ---       | ---     | Chromium III    | ---     | TVS     |
| Other:   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | Inorganic (mg/L)                           |           |         | Chromium VI     | TVS     | TVS     |
|  |                 | acute                                      | chronic   |         | Copper          | TVS     | TVS     |
|  |                 | Ammonia                                    | TVS       | TVS     | Iron            | ---     | WS      |
|  |                 | Boron                                      | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |                 | Chloride                                   | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                                   | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                                    | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                                    | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                                    | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                                 | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                                    | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                                    | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |  |           |         | Silver          | TVS     | TVS     |
|  |                 |  |           |         | Uranium         | varies* | varies* |
|  |                 |  |           |         | Zinc            | TVS     | TVS     |

16c. All tributaries to the South Platte River, including all wetlands, from the outlet of Chatfield Reservoir, to a point immediately below the confluence with Big Dry Creek, except for listings in the subbasins of the South Platte River, and in Segments 16a, 16d, 16e, 16f, 16g, 16h, 16i, 16j, and 16k.

| COSPUS16C  | Classifications | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture     | DM   | MWAT      | acute   | chronic         |         |         |
| UP   | Aq Life Warm 2  | Temperature °C                             | WS-II     | WS-II   | Arsenic         | 340     | ---     |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 100     |
| Qualifiers:  |                 | D.O. (mg/L)                                | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | pH   | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
|  |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150*    | Chromium III(T) | ---     | 100     |
|  |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |                 | Inorganic (mg/L)                           |           |         | Copper          | TVS     | TVS     |
|  |                 | acute                                      | chronic   |         | Iron(T)         | ---     | 1000    |
|  |                 | Ammonia                                    | TVS       | TVS     | Lead            | TVS     | TVS     |
|  |                 | Boron                                      | ---       | 0.75    | Manganese       | TVS     | TVS     |
|  |                 | Chloride                                   | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Chlorine                                   | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|  |                 | Cyanide                                    | 0.005     | ---     | Nickel          | TVS     | TVS     |
|  |                 | Nitrate                                    | 100       | ---     | Selenium        | TVS     | TVS     |
|  |                 | Nitrite                                    | ---       | 0.5     | Silver          | TVS     | TVS     |
|  |                 | Phosphorus                                 | ---       | 0.17*   | Uranium         | varies* | varies* |
|  |                 | Sulfate                                    | ---       | ---     | Zinc            | TVS     | TVS     |
|  |                 | Sulfide                                    | ---       | 0.002   |                 |         |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16d. Second Creek from the source to the O'Brian Canal at 39.898789, 104.817661.

| COSPUS16D          | Classifications                | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
|--------------------|--------------------------------|--|-----------|---------|-----------------|---------|---------|
| Designation        | Agriculture                    | DM   | MWAT      | acute   | chronic         |         |         |
| UP                 | Aq Life Warm 2<br>Recreation E | Temperature °C                             | WS-III    | WS-III  | Arsenic         | 340     | ---     |
|                    |                                |  | acute     | chronic | Arsenic(T)      | ---     | 100     |
| <b>Qualifiers:</b> |                                | D.O. (mg/L)                                | ---       | 3.3*    | Cadmium         | TVS     | TVS     |
| <b>Other:</b>      |                                | pH   | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
|                    |                                | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150*    | Chromium III(T) | ---     | 100     |
|                    |                                | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|                    |                                | <b>Inorganic (mg/L)</b>                    |           |         | Copper          | TVS     | TVS     |
|                    |                                |  | acute     | chronic | Iron(T)         | ---     | 1000    |
|                    |                                | Ammonia                                    | TVS       | TVS     | Lead            | TVS     | TVS     |
|                    |                                | Boron                                      | ---       | 0.75    | Manganese       | TVS     | TVS     |
|                    |                                | Chloride                                   | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|                    |                                | Chlorine                                   | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|                    |                                | Cyanide                                    | 0.005     | ---     | Nickel          | TVS     | TVS     |
|                    |                                | Nitrate                                    | 100       | ---     | Selenium        | TVS     | TVS     |
|                    |                                | Nitrite                                    | ---       | 0.5     | Silver          | TVS     | TVS     |
|                    |                                | Phosphorus                                 | ---       | 0.17*   | Uranium         | varies* | varies* |
|                    |                                | Sulfate                                    | ---       | ---     | Zinc            | TVS     | TVS     |
|                    |                                | Sulfide                                    | ---       | 0.002   |                 |         |         |

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.  
 \*D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.

16e. Third Creek from the source to the O'Brian Canal at 39.917346, -104.784028.

| COSPUS16E          | Classifications                                | Physical and Biological                    |           |         | Metals (ug/L)   |         |                      |
|--------------------|--|--|-----------|---------|-----------------|---------|----------------------|
| Designation        | Agriculture                                    | DM   | MWAT      | acute   | chronic         |         |                      |
| UP                 | Aq Life Warm 2<br>Water Supply<br>Recreation E | Temperature °C                             | WS-III    | WS-III  | Arsenic         | 340     | ---                  |
|                    |  |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
| <b>Qualifiers:</b> |  | D.O. (mg/L)                                | ---       | 4.0*    | Cadmium         | TVS     | TVS                  |
| <b>Other:</b>      |  | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
|                    |  | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---     | Chromium III    | ---     | TVS                  |
|                    |  | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
|                    |  | <b>Inorganic (mg/L)</b>                    |           |         | Chromium VI     | TVS     | TVS                  |
|                    |  |  | acute     | chronic | Copper          | TVS     | TVS                  |
|                    |  | Ammonia                                    | TVS       | TVS     | Iron            | ---     | WS                   |
|                    |  | Boron                                      | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|                    |  | Chloride                                   | ---       | 250     | Lead            | TVS     | TVS                  |
|                    |  | Chlorine                                   | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|                    |  | Cyanide                                    | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|                    |  | Nitrate                                    | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|                    |  | Nitrite                                    | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|                    |  | Phosphorus                                 | ---       | ---     | Nickel          | TVS     | TVS                  |
|                    |  | Sulfate                                    | ---       | WS      | Nickel(T)       | ---     | 100                  |
|                    |  | Sulfide                                    | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|                    |  |  |           |         | Silver          | TVS     | TVS                  |
|                    |  |  |           |         | Uranium         | varies* | varies*              |
|                    |  |  |           |         | Zinc            | TVS     | TVS                  |

\*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.  
 \*D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m.

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 16f. Barr Lake Tributary from the source to the Denver Hudson Canal at 39.941142, -104.748387. |   |                         |            |  |               |         |
|--|---|-------------------------|------------|--|---------------|---------|
| COSPUS16F  | Classifications                               | Physical and Biological |            |  | Metals (ug/L) |         |
| Designation  | Agriculture<br>Aq Life Warm 2<br>Recreation E | DM                      | MWAT       |  | acute         | chronic |
| UP   |   | WS-III                  | WS-III     | Temperature °C                             | 340           | ---     |
|  |   | acute                   | chronic    |  | ---           | 100     |
| Qualifiers:  |   | ---                     | narrative* | D.O. (mg/L)                                | TVS           | TVS     |
| Other:   |   | 6.5 - 9.0               | ---        | pH   | TVS           | TVS     |
|  |   | ---                     | 150*       | chlorophyll a (mg/m <sup>2</sup> )         | ---           | 100     |
|  |   | ---                     | 126        | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | TVS           | TVS     |
|  |   | Inorganic (mg/L)        |            |  | TVS           | TVS     |
|  |   | acute                   | chronic    |  | ---           | 1000    |
|  |   | TVS                     | TVS        | Ammonia                                    | TVS           | TVS     |
|  |   | ---                     | 0.75       | Boron                                      | TVS           | TVS     |
|  |   | ---                     | ---        | Chloride                                   | ---           | 0.01    |
|  |   | 0.019                   | 0.011      | Chlorine                                   | ---           | 150     |
|  |   | 0.005                   | ---        | Cyanide                                    | TVS           | TVS     |
|  |   | 100                     | ---        | Nitrate                                    | TVS           | TVS     |
|  |   | ---                     | 0.5        | Nitrite                                    | TVS           | TVS     |
|  |   | ---                     | 0.17*      | Phosphorus                                 | varies*       | varies* |
|  |   | ---                     | ---        | Sulfate                                    | TVS           | TVS     |
|  |   | ---                     | 0.002      | Sulfide                                    |               |         |

| 16g. Marcy Gulch, including all wetlands from the source to the confluence with the South Platte. |   |                         |         |  |               |         |
|---|---|-------------------------|---------|--|---------------|---------|
| COSPUS16G   | Classifications                               | Physical and Biological |         |  | Metals (ug/L) |         |
| Designation   | Agriculture<br>Aq Life Warm 2<br>Recreation E | DM                      | MWAT    |  | acute         | chronic |
| UP  |   | WS-II                   | WS-II   | Temperature °C                             | 340           | ---     |
|   |   | acute                   | chronic |  | ---           | 100     |
| Qualifiers:   |   | ---                     | 5.0     | D.O. (mg/L)                                | TVS           | TVS     |
| Other:  |   | 6.5 - 9.0               | ---     | pH   | TVS           | TVS     |
|   |   | ---                     | ---     | chlorophyll a (mg/m <sup>2</sup> )         | ---           | 100     |
|   |   | ---                     | 126     | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | TVS           | TVS     |
|   |   | Inorganic (mg/L)        |         |  | ---           | TVS*    |
|   |   | acute                   | chronic |  | TVS*          | ---     |
|   |   | TVS                     | TVS     | Ammonia                                    | ---           | 1000    |
|   |   | ---                     | 0.75    | Boron                                      | TVS           | TVS     |
|   |   | ---                     | ---     | Chloride                                   | TVS           | TVS     |
|   |   | 0.019                   | 0.011   | Chlorine                                   | ---           | 0.01    |
|   |   | 0.005                   | ---     | Cyanide                                    | ---           | 150     |
|   |   | 100                     | ---     | Nitrate                                    | TVS           | TVS     |
|   |   | ---                     | 0.5     | Nitrite                                    | 21*           | 13*     |
|   |   | ---                     | ---     | Phosphorus                                 | TVS           | TVS     |
|   |   | ---                     | ---     | Sulfate                                    | varies*       | varies* |
|   |   | ---                     | 0.002   | Sulfide                                    | TVS           | TVS     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

16h. Mainstem of West Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with East Toll Gate Creek. Mainstem of East Toll Gate Creek, including all tributaries and wetlands, upstream of the confluence with West Toll Gate Creek. Mainstem of Toll Gate Creek, downstream of the confluence of East and West Toll Gate Creeks, to the confluence with Sand Creek.

| COSPUS16H   | Classifications                | Physical and Biological                   |           |            | Metals (ug/L)   |         |         |
|---|--------------------------------|---|-----------|------------|-----------------|---------|---------|
| Designation   | Agriculture                    | DM  | MWAT      | acute      | chronic         |         |         |
| Reviewable  | Aq Life Warm 2<br>Recreation E | WS-II                                     | WS-II     | arsenic    | 340             | ---     |         |
| Qualifiers:   |                                | acute                                     | chronic   | Arsenic(T) | ---             | 7.6     |         |
| Fish Ingestion Standards  |                                | D.O. (mg/L)                               | ---       | 5.0        | Cadmium         | TVS     | TVS     |
| Other:  |                                | pH  | 6.5 - 9.0 | ---        | Chromium III    | TVS     | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). |                                | chlorophyll a (mg/m <sup>2</sup> )        | ---       | 150*       | Chromium III(T) | ---     | 100     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                         |                                | <u>E-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS     | TVS     |
| *Selenium(acute) = See section 38.6(4)(b) for selenium standards and assessment locations.          |                                | Inorganic (mg/L)                          |           |            | Copper          | TVS     | TVS     |
| *Selenium(chronic) = See section 38.6(4)(b) for selenium standards and assessment locations.        |                                | acute                                     | chronic   | Iron(T)    | ---             | 1000    |         |
| *Uranium(acute) = See 38.5(3) for details.  |                                | Ammonia                                   | TVS       | TVS        | Lead            | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |                                | Boron                                     | ---       | 0.75       | Manganese       | TVS     | TVS     |
|   |                                | Chloride                                  | ---       | ---        | Mercury(T)      | ---     | 0.01    |
|   |                                | Chlorine                                  | 0.019     | 0.011      | Molybdenum(T)   | ---     | 150     |
|   |                                | Cyanide                                   | 0.005     | ---        | Nickel          | TVS     | TVS     |
|   |                                | Nitrate                                   | 100       | ---        | Selenium        | varies* | varies* |
|   |                                | Nitrite                                   | ---       | 0.5        | Silver          | TVS     | TVS     |
|   |                                | Phosphorus                                | ---       | 0.17*      | Uranium         | varies* | varies* |
|   |                                | Sulfate                                   | ---       | ---        | Zinc            | TVS     | TVS     |
|   |                                | Sulfide                                   | ---       | 0.002      |                 |         |         |

16i. Mainstem of Sand Creek from the confluence with Toll Gate Creek to the confluence with the South Platte River.

| COSPUS16I   | Classifications                | Physical and Biological                   |           |            | Metals (ug/L)   |         |         |
|---|--------------------------------|---|-----------|------------|-----------------|---------|---------|
| Designation   | Agriculture                    | DM  | MWAT      | acute      | chronic         |         |         |
| Reviewable  | Aq Life Warm 1<br>Recreation E | WS-II                                     | WS-II     | arsenic    | 340             | ---     |         |
| Qualifiers:   |                                | acute                                     | chronic   | Arsenic(T) | ---             | 7.6     |         |
| Other:  |                                | D.O. (mg/L)                               | ---       | 5.0        | Cadmium         | TVS     | TVS     |
| Discharger Specific Variance(s):  |                                | pH  | 6.5 - 9.0 | ---        | Chromium III    | TVS     | TVS     |
| Selenium(acute) = TVS: no limit   |                                | chlorophyll a (mg/m <sup>2</sup> )        | ---       | 150*       | Chromium III(T) | ---     | 100     |
| Selenium(chronic) = 9: 24 µg/L  |                                | <u>E-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2023   |                                | Inorganic (mg/L)                          |           |            | Copper          | TVS     | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).       |                                | acute                                     | chronic   | Iron(T)    | ---             | 1000    |         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                               |                                | Ammonia                                   | TVS       | TVS        | Lead            | TVS     | TVS     |
| *Mercury(T)(chronic) = 0.026 below Brighton Blvd, see section 38.6(4)(f) for mercury assessment locations |                                | Boron                                     | ---       | 0.75       | Manganese       | TVS     | TVS     |
| *Selenium(acute) = See section 38.6(4)(f) for selenium standards and assessment locations.                |                                | Chloride                                  | ---       | ---        | Mercury(T)      | ---     | 0.01    |
| *Selenium(chronic) = See section 38.6(4)(f) for selenium standards and assessment locations.              |                                | Chlorine                                  | 0.019     | 0.011      | Mercury(T)      | ---     | 0.026*  |
| *Uranium(acute) = See 38.5(3) for details.  |                                | Cyanide                                   | 0.005     | ---        | Molybdenum(T)   | ---     | 150     |
| *Uranium(chronic) = See 38.5(3) for details.  |                                | Nitrate                                   | 100       | ---        | Nickel          | TVS     | TVS     |
| *Variance: Selenium = see 38.6(6) for details.  |                                | Nitrite                                   | ---       | 0.5        | Selenium        | ---     | varies* |
|   |                                | Phosphorus                                | ---       | 0.17*      | Selenium        | varies* | ---     |
|   |                                | Sulfate                                   | ---       | ---        | Silver          | TVS     | TVS     |
|   |                                | Sulfide                                   | ---       | 0.002      | Uranium         | varies* | varies* |
|   |                                |   |           |            | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 16j. Lee Gulch, Little's Creek, Big Dry Creek (Douglas and Arapahoe Counties), and Little Dry Creek, including all wetlands from the source to the confluence with the South Platte.  |                 |  |              |                |                 |                               |         |     |
|---|-----------------|--|--------------|----------------|-----------------|-------------------------------|---------|-----|
| COSPUS16J   | Classifications | Physical and Biological  |              |                | Metals (ug/L)   |                               |         |     |
| Designation   | Agriculture     |  | DM           | MWAT           |                 | acute      chronic            |         |     |
| UP  | Aq Life Warm 2  | Temperature °C   | WS-II        | WS-II          | Arsenic         | 340      ---                  |         |     |
|   | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---      0.02-10 <sup>A</sup> |         |     |
|   | Water Supply    | D.O. (mg/L)  | ---          | 5.0            | Cadmium         | TVS      TVS                  |         |     |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0    | ---            | Cadmium(T)      | 5.0      ---                  |         |     |
| <b>Other:</b><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Selenium(acute) = See section 38.6(4)(h) for selenium standards and assessment locations.<br>*Selenium(chronic) = See section 38.6(4)(h) for selenium standards and assessment locations.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | chlorophyll a (mg/m <sup>2</sup> )   | ---          | 150*           | Chromium III    | ---                           | TVS     |     |
|   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL)   | ---          | 126            | Chromium III(T) | 50                            | ---     | --- |
|   |                 | <b>Inorganic (mg/L)</b>  |              |                |                 | Chromium VI                   | TVS     | TVS |
|   |                 |  | <b>acute</b> | <b>chronic</b> | Copper          | TVS                           | TVS     | TVS |
|   |                 | Ammonia  | TVS          | TVS            | Iron            | ---                           | WS      | --- |
|   |                 | Boron  | ---          | 0.75           | Iron(T)         | ---                           | 1000    | --- |
|   |                 | Chloride   | ---          | 250            | Lead            | TVS                           | TVS     | --- |
|   |                 | Chlorine   | 0.019        | 0.011          | Lead(T)         | 50                            | ---     | --- |
|   |                 | Cyanide  | 0.005        | ---            | Manganese       | TVS                           | TVS/WS  | --- |
|   |                 | Nitrate  | 10           | ---            | Mercury(T)      | ---                           | 0.01    | --- |
|   |                 | Nitrite  | ---          | 0.5            | Molybdenum(T)   | ---                           | 150     | --- |
|   |                 | Phosphorus   | ---          | 0.17*          | Nickel          | TVS                           | TVS     | --- |
|   |                 | Sulfate  | ---          | WS             | Nickel(T)       | ---                           | 100     | --- |
|   |                 | Sulfide  | ---          | 0.002          | Selenium        | varies*                       | varies* | --- |
|   |                 |  |              |                | Silver          | TVS                           | TVS     | --- |
|   |                 |  |              |                | Uranium         | varies*                       | varies* | --- |
|   |                 |  |              |                | Zinc            | TVS                           | TVS     | --- |
|   |                 | 16k. Mainstem of Lakewood Gulch from the source to the confluence with the South Platte. |              |                |                 |                               |         |     |
| COSPUS16K   | Classifications | Physical and Biological  |              |                | Metals (ug/L)   |                               |         |     |
| Designation   | Agriculture     |  | DM           | MWAT           |                 | acute      chronic            |         |     |
| Reviewable  | Aq Life Warm 1  | Temperature °C   | WS-II        | WS-II          | Arsenic         | 340      ---                  |         |     |
|   | Water Supply    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---      0.02                 |         |     |
|   | Recreation E    | D.O. (mg/L)  | ---          | 5.0            | Cadmium         | TVS      TVS                  |         |     |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0    | ---            | Cadmium(T)      | 5.0      ---                  |         |     |
| <b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.   |                 | chlorophyll a (mg/m <sup>2</sup> )   | ---          | 150*           | Chromium III    | ---                           | TVS     |     |
|   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL)   | ---          | 126            | Chromium III(T) | 50                            | ---     | --- |
|   |                 | <b>Inorganic (mg/L)</b>  |              |                |                 | Chromium VI                   | TVS     | TVS |
|   |                 |  | <b>acute</b> | <b>chronic</b> | Copper          | TVS                           | TVS     | --- |
|   |                 | Ammonia  | TVS          | TVS            | Iron            | ---                           | WS      | --- |
|   |                 | Boron  | ---          | 0.75           | Iron(T)         | ---                           | 1000    | --- |
|   |                 | Chloride   | ---          | 250            | Lead            | TVS                           | TVS     | --- |
|   |                 | Chlorine   | 0.019        | 0.011          | Lead(T)         | 50                            | ---     | --- |
|   |                 | Cyanide  | 0.005        | ---            | Manganese       | TVS                           | TVS/WS  | --- |
|   |                 | Nitrate  | 10           | ---            | Mercury(T)      | ---                           | 0.01    | --- |
|   |                 | Nitrite  | ---          | 0.5            | Molybdenum(T)   | ---                           | 150     | --- |
|   |                 | Phosphorus   | ---          | 0.17*          | Nickel          | TVS                           | TVS     | --- |
|   |                 | Sulfate  | ---          | WS             | Nickel(T)       | ---                           | 100     | --- |
|   |                 | Sulfide  | ---          | 0.002          | Selenium        | TVS                           | TVS     | --- |
|   |                 |  |              |                | Silver          | TVS                           | TVS     | --- |
|   |                 |  |              |                | Uranium         | varies*                       | varies* | --- |
|   |                 |  |              |                | Zinc            | TVS                           | TVS     | --- |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 17a. Washington Park Lakes, City Park Lakes, Rocky Mountain Lake, Berkely Lake. |                                |  |           |         |                 |         |         |
|---|--------------------------------|--|-----------|---------|-----------------|---------|---------|
| COSPUS17A   | Classifications                | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture                    |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Warm 1<br>Recreation E | Temperature °C                               | WL        | WL      | Arsenic         | 340     | ---     |
| Qualifiers:   |                                |  | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| Other:  |                                | D.O. (mg/L)                                  | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|   |                                | pH   | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
|   |                                | chlorophyll a (ug/L)                         | ---       | ---     | Chromium III(T) | ---     | 100     |
|   |                                | <u>E.-Coli</u> , <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |                                | Inorganic (mg/L)                             |           |         | Copper          | TVS     | TVS     |
|   |                                |  | acute     | chronic | Iron(T)         | ---     | 1000    |
|   |                                | Ammonia                                      | TVS       | TVS     | Lead            | TVS     | TVS     |
|   |                                | Boron  | ---       | 0.75    | Manganese       | TVS     | TVS     |
|   |                                | Chloride                                     | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|   |                                | Chlorine                                     | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|   |                                | Cyanide                                      | 0.005     | ---     | Nickel          | TVS     | TVS     |
|   |                                | Nitrate                                      | 100       | ---     | Selenium        | TVS     | TVS     |
|   |                                | Nitrite                                      | ---       | 0.5     | Silver          | TVS     | TVS     |
|   |                                | Phosphorus                                   | ---       | ---     | Uranium         | varies* | varies* |
|   |                                | Sulfate                                      | ---       | ---     | Zinc            | TVS     | TVS     |
|   |                                | Sulfide                                      | ---       | 0.002   |                 |         |         |
| 17b. Sloan's Lake.  |                                |  |           |         |                 |         |         |
| COSPUS17B   | Classifications                | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture                    |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Warm 1<br>Recreation E | Temperature °C                               | WL        | WL      | Arsenic         | 340     | ---     |
| Qualifiers:   |                                |  | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| Other:  |                                | D.O. (mg/L)                                  | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|   |                                | pH   | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
|   |                                | chlorophyll a (ug/L)                         | ---       | ---     | Chromium III(T) | ---     | 100     |
|   |                                | <u>E.-Coli</u> , <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |                                | Inorganic (mg/L)                             |           |         | Copper          | TVS     | TVS     |
|   |                                |  | acute     | chronic | Iron(T)         | ---     | 1000    |
|   |                                | Ammonia                                      | TVS       | TVS     | Lead            | TVS     | TVS     |
|   |                                | Boron  | ---       | 0.75    | Manganese       | TVS     | TVS     |
|   |                                | Chloride                                     | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|   |                                | Chlorine                                     | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|   |                                | Cyanide                                      | 0.005     | ---     | Nickel          | TVS     | TVS     |
|   |                                | Nitrate                                      | 100       | ---     | Selenium        | TVS     | TVS     |
|   |                                | Nitrite                                      | ---       | 0.5     | Silver          | TVS     | TVS     |
|   |                                | Phosphorus                                   | ---       | ---     | Uranium         | varies* | varies* |
|   |                                | Sulfate                                      | ---       | ---     | Zinc            | TVS     | TVS     |
|   |                                | Sulfide                                      | ---       | 0.002   |                 |         |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 17c. Bowles Lake, a.k.a. Patrick Reservoir or Bow Mar Lake.                                      |  |  |           |            |                 |         |         |
|--|--|--|-----------|------------|-----------------|---------|---------|
| COSPUS17C  | Classifications                                | Physical and Biological                    |           |            | Metals (ug/L)   |         |         |
| Designation  | Agriculture                                    | DM   | MWAT      | acute      | chronic         |         |         |
| Reviewable   | Aq Life Warm 1<br>Recreation E                 | WL   | WL        | Aluminum   | TVS             | TVS     |         |
| Qualifiers:  |  | acute                                      | chronic   | Arsenic    | 340             | ---     |         |
| Other:   |  | D.O. (mg/L)                                | ---       | 5.0        | Arsenic(T)      | ---     | 7.6     |
|  |  | D.O. (spawning)                            | ---       | 7.0        | Cadmium         | TVS     | TVS     |
|  |  | pH   | 6.5 - 9.0 | ---        | Chromium III    | TVS     | TVS     |
|  |  | chlorophyll a (ug/L)                       | ---       | ---        | Chromium III(T) | ---     | 100     |
|  |  | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS     | TVS     |
|  |  |  |           |            | Copper          | TVS     | TVS     |
|  |  | Inorganic (mg/L)                           |           |            | Iron(T)         | ---     | 1000    |
|  |  | acute                                      | chronic   | Lead       | TVS             | TVS     |         |
|  |  | Ammonia                                    | TVS       | TVS        | Manganese       | TVS     | TVS     |
|  |  | Boron                                      | ---       | 0.75       | Mercury(T)      | ---     | 0.01    |
|  |  | Chloride                                   | ---       | ---        | Molybdenum(T)   | ---     | 150     |
|  |  | Chlorine                                   | 0.019     | 0.011      | Nickel          | TVS     | TVS     |
|  |  | Cyanide                                    | 0.005     | ---        | Selenium        | TVS     | TVS     |
|  |  | Nitrate                                    | 100       | ---        | Silver          | TVS     | TVS     |
|  |  | Nitrite                                    | ---       | 0.5        | Uranium         | varies* | varies* |
|  |  | Phosphorus                                 | ---       | ---        | Zinc            | TVS     | TVS     |
|  |  | Sulfate                                    | ---       | ---        |                 |         |         |
|  |  | Sulfide                                    | ---       | 0.002      |                 |         |         |
| 18. Lakes and reservoirs within the boundaries of the Lost Creek and Mt. Evans Wilderness areas. |  |  |           |            |                 |         |         |
| COSPUS18   | Classifications                                | Physical and Biological                    |           |            | Metals (ug/L)   |         |         |
| Designation  | Agriculture                                    | DM   | MWAT      | acute      | chronic         |         |         |
| OW   | Aq Life Cold 1<br>Recreation E<br>Water Supply | CL   | CL        | Arsenic    | 340             | ---     |         |
| Qualifiers:  |  | acute                                      | chronic   | Arsenic(T) | ---             | 0.02    |         |
| Other:   |  | D.O. (mg/L)                                | ---       | 6.0        | Cadmium         | TVS     | TVS     |
|  |  | D.O. (spawning)                            | ---       | 7.0        | Cadmium(T)      | 5.0     | ---     |
|  |  | pH   | 6.5 - 9.0 | ---        | Chromium III    | ---     | TVS     |
|  |  | chlorophyll a (ug/L)                       | ---       | 8*         | Chromium III(T) | 50      | ---     |
|  |  | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS     | TVS     |
|  |  |  |           |            | Copper          | TVS     | TVS     |
|  |  | Inorganic (mg/L)                           |           |            | Iron            | ---     | WS      |
|  |  | acute                                      | chronic   | Iron(T)    | ---             | 1000    |         |
|  |  | Ammonia                                    | TVS       | TVS        | Lead            | TVS     | TVS     |
|  |  | Boron                                      | ---       | 0.75       | Lead(T)         | 50      | ---     |
|  |  | Chloride                                   | ---       | 250        | Manganese       | TVS     | TVS/WS  |
|  |  | Chlorine                                   | 0.019     | 0.011      | Mercury(T)      | ---     | 0.01    |
|  |  | Cyanide                                    | 0.005     | ---        | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrate                                    | 10        | ---        | Nickel          | TVS     | TVS     |
|  |  | Nitrite                                    | ---       | 0.05       | Nickel(T)       | ---     | 100     |
|  |  | Phosphorus                                 | ---       | 0.025*     | Selenium        | TVS     | TVS     |
|  |  | Sulfate                                    | ---       | WS         | Silver          | TVS     | TVS(tr) |
|  |  | Sulfide                                    | ---       | 0.002      | Uranium         | varies* | varies* |
|  |  |  |           |            | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

19. Lakes and reservoirs in the South Platte River system from headwaters to Chatfield Reservoir, except for listings in Segment 18. Includes Antero, Spinney Mountain, Elevenmile, Cheesman, and Strontia Springs.

| COSPUS19  | Classifications                         | Physical and Biological |           |         | Metals (ug/L)   |         |         |
|---|---|-------------------------|-----------|---------|-----------------|---------|---------|
| Designation   | Agriculture                             |                         | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1                          | Temperature °C          | varies*   | varies* | Arsenic         | 340     | ---     |
|   | Recreation E                            |                         | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply                            | D.O. (mg/L)             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|   | DUWS*                                   | D.O. (spawning)         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>  |   | pH                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>   | chlorophyll a (ug/L)                    | ---                     | 8*        | ---     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):  | <del>E. Coli</del> E. coli (per 100 mL) | ---                     | 126       | ---     | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid   |   |                         |           |         | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024   |   | <b>Inorganic (mg/L)</b> |           |         | Iron            | ---     | WS      |
|   |   |                         | acute     | chronic | Iron(T)         | ---     | 1000    |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. | Ammonia                                 | TVS                     | TVS       | ---     | Lead            | TVS     | TVS     |
| *Classification: DUWS applies to Strontia Springs and Woodland Park Reservoir only.   | Boron                                   | ---                     | 0.75      | ---     | Lead(T)         | 50      | ---     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.           | Chloride                                | ---                     | 250       | ---     | Manganese       | TVS     | TVS/WS  |
| *Uranium(acute) = See 38.5(3) for details.  | Chlorine                                | 0.019                   | 0.011     | ---     | Mercury(T)      | ---     | 0.01    |
| *Uranium(chronic) = See 38.5(3) for details.  | Cyanide                                 | 0.005                   | ---       | ---     | Molybdenum(T)   | ---     | 150     |
| *Temperature = See 38.6(4) for temperature standards.   | Nitrate                                 | 10                      | ---       | ---     | Nickel          | TVS     | TVS     |
|   | Nitrite                                 | ---                     | 0.05      | ---     | Nickel(T)       | ---     | 100     |
|   | Phosphorus                              | ---                     | 0.025*    | ---     | Selenium        | TVS     | TVS     |
|   | Sulfate                                 | ---                     | WS        | ---     | Silver          | TVS     | TVS(tr) |
|   | Sulfide                                 | ---                     | 0.002     | ---     | Uranium         | varies* | varies* |
|   |   |                         |           |         | Zinc            | TVS     | TVS     |

20. Lakes and reservoirs in the Plum Creek system within National Forest boundaries; and lakes and reservoirs in the Bear Creek drainage between the National Forest boundary and to the inlet of Perry Park Reservoir, a.k.a. Waucondah Reservoir (Douglas County).

| COSPUS20           | Classifications                         | Physical and Biological |       |         | Metals (ug/L)   |         |         |
|--------------------|---|-------------------------|-------|---------|-----------------|---------|---------|
| Designation        | Agriculture                             |                         | DM    | MWAT    |                 | acute   | chronic |
| Reviewable         | Aq Life Cold 1                          | Temperature °C          | CL    | CL      | Arsenic         | 340     | ---     |
|                    | Recreation E                            |                         | acute | chronic | Arsenic(T)      | ---     | 0.02    |
|                    | Water Supply                            | D.O. (mg/L)             | ---   | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b> |   | D.O. (spawning)         | ---   | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>      | pH                                      | 6.5 - 9.0               | ---   | ---     | Chromium III    | ---     | TVS     |
|                    | chlorophyll a (ug/L)                    | ---                     | ---   | ---     | Chromium III(T) | 50      | ---     |
|                    | <del>E. Coli</del> E. coli (per 100 mL) | ---                     | 126   | ---     | Chromium VI     | TVS     | TVS     |
|                    |   |                         |       |         | Copper          | TVS     | TVS     |
|                    | <b>Inorganic (mg/L)</b>                 |                         |       |         | Iron            | ---     | WS      |
|                    |   |                         | acute | chronic | Iron(T)         | ---     | 1000    |
|                    | Ammonia                                 | TVS                     | TVS   | ---     | Lead            | TVS     | TVS     |
|                    | Boron                                   | ---                     | 0.75  | ---     | Lead(T)         | 50      | ---     |
|                    | Chloride                                | ---                     | 250   | ---     | Manganese       | TVS     | TVS/WS  |
|                    | Chlorine                                | 0.019                   | 0.011 | ---     | Mercury(T)      | ---     | 0.01    |
|                    | Cyanide                                 | 0.005                   | ---   | ---     | Molybdenum(T)   | ---     | 150     |
|                    | Nitrate                                 | 10                      | ---   | ---     | Nickel          | TVS     | TVS     |
|                    | Nitrite                                 | ---                     | 0.05  | ---     | Nickel(T)       | ---     | 100     |
|                    | Phosphorus                              | ---                     | ---   | ---     | Selenium        | TVS     | TVS     |
|                    | Sulfate                                 | ---                     | WS    | ---     | Silver          | TVS     | TVS(tr) |
|                    | Sulfide                                 | ---                     | 0.002 | ---     | Uranium         | varies* | varies* |
|                    |   |                         |       |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 21. Lakes and reservoirs in the Plum Creek system except for listings in Segment 20. |                 |   |           |         |                 |         |                      |
|--|-----------------|---|-----------|---------|-----------------|---------|----------------------|
| COSPUS21   | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |                      |
| Designation  | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |                      |
| Reviewable   | Aq Life Warm 2  | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---                  |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS                  |
|  | DUWS*           | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
| <b>Qualifiers:</b>   |                 | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III    | ---     | TVS                  |
| <b>Other:</b>  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
|  |                 | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS     | TVS                  |
|  |                 | acute                                   | chronic   |         | Copper          | TVS     | TVS                  |
|  |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS                   |
|  |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|  |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS                  |
|  |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|  |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|  |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|  |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|  |                 | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS                  |
|  |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100                  |
|  |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|  |                 |   |           |         | Silver          | TVS     | TVS                  |
|  |                 |   |           |         | Uranium         | varies* | varies*              |
|  |                 |   |           |         | Zinc            | TVS     | TVS                  |

\*Classification: DUWS applies to Aurora Rampart only.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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

Temporary Modification(s):  
 Arsenic(chronic) = hybrid  
 Expiration Date of 12/31/2024  
 \*Classification: DUWS applies to McLellan, Quincy and Marshall Reservoir only.  
 \*Molybdenum(T)(chronic) = 210 ug/L for McLellan Reservoir  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Upper South Platte River Basin

| 22b. Lakes and reservoirs located in the Rocky Mountain Arsenal National Wildlife Refuge |                                |  |           |                 |               |         |
|--|--------------------------------|--|-----------|-----------------|---------------|---------|
| COSPUS22B  | Classifications                | Physical and Biological                      |           |                 | Metals (ug/L) |         |
| Designation  | Agriculture                    | DM   | MWAT      | acute           | chronic       |         |
| Reviewable   | Aq Life Warm 2<br>Recreation E | WL   | WL        | Arsenic         | 340           | ---     |
| Qualifiers:  |                                | acute  | chronic   | Arsenic(T)      | ---           | 100     |
| Other:   |                                | D.O. (mg/L)                                  | 5.0       | Cadmium         | TVS           | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                                | pH   | 6.5 - 9.0 | Chromium III    | TVS           | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |                                | chlorophyll a (ug/L)                         | ---       | Chromium III(T) | ---           | 100     |
|  |                                | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | 126       | Chromium VI     | TVS           | TVS     |
|  |                                | Inorganic (mg/L)                             |           | Copper          | TVS           | TVS     |
|  |                                | acute  | chronic   | Iron(T)         | ---           | 1000    |
|  |                                | Ammonia                                      | TVS       | Lead            | TVS           | TVS     |
|  |                                | Boron  | 0.75      | Manganese       | TVS           | TVS     |
|  |                                | Chloride                                     | ---       | Mercury(T)      | ---           | 0.01    |
|  |                                | Chlorine                                     | 0.019     | Molybdenum(T)   | ---           | 150     |
|  |                                | Cyanide                                      | 0.005     | Nickel          | TVS           | TVS     |
|  |                                | Nitrate                                      | 100       | Selenium        | TVS           | TVS     |
|  |                                | Nitrite                                      | 0.5       | Silver          | TVS           | TVS     |
|  |                                | Phosphorus                                   | ---       | Uranium         | varies*       | varies* |
|  |                                | Sulfate                                      | ---       | Zinc            | TVS           | TVS     |
|  |                                | Sulfide                                      | 0.002     |                 |               |         |

23. Lakes and reservoirs in watersheds tributary to the Upper South Platte River and within the City and County of Denver, except for listings in the other subbasins of the South Platte River and in Segments 17a and 17b.

| 23. Lakes and reservoirs in watersheds tributary to the Upper South Platte River and within the City and County of Denver, except for listings in the other subbasins of the South Platte River and in Segments 17a and 17b. |                                |  |           |                 |               |         |
|--|--------------------------------|--|-----------|-----------------|---------------|---------|
| COSPUS23   | Classifications                | Physical and Biological                      |           |                 | Metals (ug/L) |         |
| Designation  | Agriculture                    | DM   | MWAT      | acute           | chronic       |         |
| Reviewable   | Aq Life Warm 2<br>Recreation E | WL   | WL        | Arsenic         | 340           | ---     |
| Qualifiers:  |                                | acute  | chronic   | Arsenic(T)      | ---           | 7.6     |
| Fish Ingestion Standards   |                                | D.O. (mg/L)                                  | 5.0       | Cadmium         | TVS           | TVS     |
| Other:   |                                | pH   | 6.5 - 9.0 | Chromium III    | TVS           | TVS     |
| *See section 38.7 (Marston Forebay).   |                                | chlorophyll a (ug/L)                         | ---       | Chromium III(T) | ---           | 100     |
| *Uranium(acute) = See 38.5(3) for details.   |                                | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | 126       | Chromium VI     | TVS           | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |                                | Inorganic (mg/L)                             |           | Copper          | TVS           | TVS     |
|  |                                | acute  | chronic   | Iron(T)         | ---           | 1000    |
|  |                                | Ammonia                                      | TVS       | Lead            | TVS           | TVS     |
|  |                                | Boron  | 0.75      | Manganese       | TVS           | TVS     |
|  |                                | Chloride                                     | ---       | Mercury(T)      | ---           | 0.01    |
|  |                                | Chlorine                                     | 0.019     | Molybdenum(T)   | ---           | 150     |
|  |                                | Cyanide                                      | 0.005     | Nickel          | TVS           | TVS     |
|  |                                | Nitrate                                      | 100       | Selenium        | TVS           | TVS     |
|  |                                | Nitrite                                      | 0.5       | Silver          | TVS           | TVS     |
|  |                                | Phosphorus                                   | ---       | Uranium         | varies*       | varies* |
|  |                                | Sulfate                                      | ---       | Zinc            | TVS           | TVS     |
|  |                                | Sulfide                                      | 0.002     |                 |               |         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

| 1. Mainstem of Cherry Creek from the source of East and West Cherry Creek to the inlet of Cherry Creek Reservoir. |  |  |           |             |                 |         |         |
|---|--|--|-----------|-------------|-----------------|---------|---------|
| COSPCH01  | Classifications                                | Physical and Biological                |           |             | Metals (ug/L)   |         |         |
| Designation   | Agriculture                                    | DM                                     | MWAT      |             |                 |         |         |
| Reviewable  | Aq Life Warm 1<br>Recreation E<br>Water Supply | acute                                  | chronic   | arsenic     | acute           | chronic |         |
|   |  | Temperature °C                         | WS-II     | WS-II       | Arsenic         | 340     | ---     |
|   |  | D.O. (mg/L)                            | ---       | 5.0         | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b>  |  | pH                                     | 6.5 - 9.0 | ---         | Cadmium         | TVS     | TVS     |
| <b>Other:</b>   |  | chlorophyll a (mg/m <sup>2</sup> )     | ---       | 150*        | Cadmium(T)      | 5.0     | ---     |
| Temporary Modification(s):  |  | <del>E-Coli</del> E. coli (per 100 mL) | ---       | 126         | Chromium III    | ---     | TVS     |
| Arsenic(chronic) = hybrid   |  | Inorganic (mg/L)                       |           |             | Chromium III(T) | 50      | ---     |
| Expiration Date of 12/31/2024   |  | acute                                  | chronic   | Chromium VI | TVS             | TVS     |         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).               |  | Ammonia                                | TVS       | TVS         | Copper          | TVS     | TVS     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                                       |  | Boron                                  | ---       | 0.75        | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.  |  | Chloride                               | ---       | 250         | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details.  |  | Chlorine                               | 0.019     | 0.011       | Lead            | TVS     | TVS     |
|   |  | Cyanide                                | 0.005     | ---         | Lead(T)         | 50      | ---     |
|   |  | Nitrate                                | 10        | ---         | Manganese       | TVS     | TVS/WS  |
|   |  | Nitrite                                | ---       | 0.5         | Mercury(T)      | ---     | 0.01    |
|   |  | Phosphorus                             | ---       | 0.17*       | Molybdenum(T)   | ---     | 150     |
|   |  | Sulfate                                | ---       | WS          | Nickel          | TVS     | TVS     |
|   |  | Sulfide                                | ---       | 0.002       | Nickel(T)       | ---     | 100     |
|   |  |  |           |             | Selenium        | TVS     | TVS     |
|   |  |  |           |             | Silver          | TVS     | TVS     |
|   |  |  |           |             | Uranium         | varies* | varies* |
|   |  |  |           |             | Zinc            | TVS     | TVS     |

| 2. Cherry Creek Reservoir.   |  |  |            |         |                 |              |         |     |
|--|--|--|------------|---------|-----------------|--------------|---------|-----|
| COSPCH02   | Classifications                                | Physical and Biological                |            |         | Metals (ug/L)   |              |         |     |
| Designation  | Agriculture                                    | DM                                     | MWAT       |         |                 |              |         |     |
| Reviewable   | Aq Life Warm 1<br>Recreation E<br>Water Supply | acute                                  | chronic    | arsenic | acute           | chronic      |         |     |
|  |  | Temperature °C                         | WL         | WL      | Arsenic         | 340          | ---     |     |
|  |  | D.O. (mg/L)                            | ---        | 5.0     | Arsenic(T)      | ---          | 0.02    |     |
| <b>Qualifiers:</b>   |  | pH                                     | 6.5 - 9.0  | ---     | Cadmium         | TVS          | TVS     |     |
| <b>Other:</b>  |  | chlorophyll a (ug/L)                   | 7/1 - 9/30 | ---     | 18*             | Chromium III | ---     | TVS |
| Temporary Modification(s):   |  | <del>E-Coli</del> E. coli (per 100 mL) | ---        | 126     | Chromium III(T) | 50           | ---     |     |
| Arsenic(chronic) = hybrid  |  | Inorganic (mg/L)                       |            |         | Chromium VI     | TVS          | TVS     |     |
| Expiration Date of 12/31/2024  |  | acute                                  | chronic    | Copper  | TVS             | TVS          |         |     |
| *chlorophyll a (ug/L)(chronic) = Season mean concentration measured in the upper three meters of the water column for the months of July through September with an exceedance frequency of once in five years. |  | Ammonia                                | TVS        | TVS     | Iron            | ---          | WS      |     |
| *Uranium(acute) = See 38.5(3) for details.   |  | Boron                                  | ---        | 0.75    | Iron(T)         | ---          | 1000    |     |
| *Uranium(chronic) = See 38.5(3) for details.   |  | Chloride                               | ---        | 250     | Lead            | TVS          | TVS     |     |
|  |  | Chlorine                               | 0.019      | 0.011   | Lead(T)         | 50           | ---     |     |
|  |  | Cyanide                                | 0.005      | ---     | Manganese       | TVS          | TVS/WS  |     |
|  |  | Nitrate                                | 10         | ---     | Mercury(T)      | ---          | 0.01    |     |
|  |  | Nitrite                                | ---        | 0.5     | Molybdenum(T)   | ---          | 150     |     |
|  |  | Phosphorus                             | ---        | ---     | Nickel          | TVS          | TVS     |     |
|  |  | Sulfate                                | ---        | WS      | Nickel(T)       | ---          | 100     |     |
|  |  | Sulfide                                | ---        | 0.002   | Selenium        | TVS          | TVS     |     |
|  |  |  |            |         | Silver          | TVS          | TVS     |     |
|  |  |  |            |         | Uranium         | varies*      | varies* |     |
|  |  |  |            |         | Zinc            | TVS          | TVS     |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

| 3. Mainstem of Cherry Creek from the outlet of Cherry Creek Reservoir to the confluence with the South Platte River. |                 |   |           |         |                 |         |         |
|--|-----------------|---|-----------|---------|-----------------|---------|---------|
| COSPCH03   | Classifications | Physical and Biological                   |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM  | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                            | WS-II     | WS-II   | Arsenic         | 340     | ---     |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                               | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>   |                 | pH  | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>  |                 | chlorophyll a (mg/m <sup>2</sup> )        | ---       | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):   |                 | <u>E-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid  |                 | <b>Inorganic (mg/L)</b>                   |           |         | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024  |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Ammonia                                   | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Boron                                     | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |                 | Chloride                                  | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                                  | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                                   | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                                   | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                                   | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                                | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                                   | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                                   | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |   |           |         | Silver          | TVS     | TVS     |
|  |                 |   |           |         | Uranium         | varies* | varies* |
|  |                 |   |           |         | Zinc            | TVS     | TVS     |

4a. All tributaries to Cherry Creek, including all wetlands, from the source of East and West Cherry Creeks to the confluence with the South Platte River except for listings in Segment 4b.

| COSPCH04A   | Classifications | Physical and Biological                   |           |         | Metals (ug/L)   |         |                      |
|---|-----------------|---|-----------|---------|-----------------|---------|----------------------|
| Designation   | Agriculture     | DM  | MWAT      | acute   | chronic         |         |                      |
| UP  | Aq Life Warm 2  | Temperature °C                            | WS-II     | WS-II   | Arsenic         | 340     | ---                  |
|   | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|   | Water Supply    | D.O. (mg/L)                               | ---       | 5.0     | Cadmium         | TVS     | TVS                  |
| <b>Qualifiers:</b>  |                 | pH  | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )        | ---       | 150*    | Chromium III    | ---     | TVS                  |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). |                 | <u>E-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
| *Phosphorus(chronic) = Applies only above the facilities listed at 38.5(4).                         |                 | <b>Inorganic (mg/L)</b>                   |           |         | Chromium VI     | TVS     | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.  |                 |   | acute     | chronic | Copper          | TVS     | TVS                  |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Ammonia                                   | TVS       | TVS     | Iron            | ---     | WS                   |
|   |                 | Boron                                     | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|   |                 | Chloride                                  | ---       | 250     | Lead            | TVS     | TVS                  |
|   |                 | Chlorine                                  | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|   |                 | Cyanide                                   | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|   |                 | Nitrate                                   | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|   |                 | Nitrite                                   | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|   |                 | Phosphorus                                | ---       | 0.17*   | Nickel          | TVS     | TVS                  |
|   |                 | Sulfate                                   | ---       | WS      | Nickel(T)       | ---     | 100                  |
|   |                 | Sulfide                                   | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|   |                 |   |           |         | Silver          | TVS     | TVS                  |
|   |                 |   |           |         | Uranium         | varies* | varies*              |
|   |                 |   |           |         | Zinc            | TVS     | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cherry Creek Basin

| 4b. Cottonwood Creek, including all tributaries and wetlands, from the source to Cherry Creek Reservoir.  |                 |  |           |            |                      |            |         |         |
|---|-----------------|--|-----------|------------|----------------------|------------|---------|---------|
| COSPCH04B   | Classifications | Physical and Biological                      |           |            | Metals (ug/L)        |            |         |         |
| Designation   | Agriculture     | DM   | MWAT      | acute      | chronic              |            |         |         |
| UP  | Aq Life Warm 2  | WS-II  | WS-II     | 340        | ---                  | Arsenic    |         |         |
|   | Recreation E    | acute  | chronic   | ---        | 0.02-10 <sup>A</sup> | Arsenic(T) |         |         |
|   | Water Supply    | ---  | 5.0       | TVS        | TVS                  | Cadmium    |         |         |
| Qualifiers:   |                 | pH   | 6.5 - 9.0 | ---        | 5.0                  | Cadmium(T) |         |         |
| Other:  |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150*       | ---                  | TVS        |         |         |
| <p>*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).</p> <p>*Phosphorus(chronic) = Applies only above the facilities listed at 38.5(4).</p> <p>*Selenium(acute) = See section 38.6(4)(i) for selenium standards and assessment locations.</p> <p>*Selenium(chronic) = See section 38.6(4)(i) for selenium standards and assessment locations.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p> |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | ---                  | ---        |         |         |
|   |                 | Inorganic (mg/L)                             |           |            | TVS                  | TVS        | TVS     | TVS     |
|   |                 | acute  | chronic   | Ammonia    | TVS                  | TVS        | ---     | WS      |
|   |                 | ---  | 0.75      | Boron      | ---                  | 0.75       | ---     | 1000    |
|   |                 | ---  | 250       | Chloride   | ---                  | 250        | TVS     | TVS     |
|   |                 | 0.019  | 0.011     | Chlorine   | 0.019                | 0.011      | 50      | ---     |
|   |                 | 0.005  | ---       | Cyanide    | 0.005                | ---        | TVS     | TVS/WS  |
|   |                 | 10   | ---       | Nitrate    | 10                   | ---        | ---     | 0.01    |
|   |                 | ---  | 0.5       | Nitrite    | ---                  | 0.5        | ---     | 150     |
|   |                 | ---  | 0.17*     | Phosphorus | ---                  | 0.17*      | TVS     | TVS     |
|   |                 | ---  | WS        | Sulfate    | ---                  | WS         | ---     | 100     |
|   |                 | ---  | 0.002     | Sulfide    | ---                  | 0.002      | varies* | varies* |
|   |                 | ---  | ---       | Silver     | ---                  | ---        | TVS     | TVS     |
|   |                 | ---  | ---       | Uranium    | ---                  | ---        | varies* | varies* |
|   |                 | ---  | ---       | Zinc       | ---                  | ---        | TVS     | TVS     |

  

| 5. Lakes and reservoirs in the Cherry Creek system from the source of East and West Cherry Creeks to the confluence with the South Platte River, except for listings in Segments 2, 6 and 7.  |                 |  |           |            |               |            |         |         |
|---|-----------------|--|-----------|------------|---------------|------------|---------|---------|
| COSPCH05  | Classifications | Physical and Biological                      |           |            | Metals (ug/L) |            |         |         |
| Designation   | Agriculture     | DM   | MWAT      | acute      | chronic       |            |         |         |
| Reviewable  | Aq Life Warm 2  | WL   | WL        | 340        | ---           | Arsenic    |         |         |
|   | Recreation E    | acute  | chronic   | ---        | 0.02          | Arsenic(T) |         |         |
|   | Water Supply    | ---  | 5.0       | TVS        | TVS           | Cadmium    |         |         |
| Qualifiers:   |                 | pH   | 6.5 - 9.0 | ---        | 5.0           | Cadmium(T) |         |         |
| Water + Fish Standards  |                 | chlorophyll a (ug/L)                         | ---       | 20*        | ---           | TVS        |         |         |
| Other:  |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | 50            | ---        |         |         |
| <p>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p> |                 | Inorganic (mg/L)                             |           |            | TVS           | TVS        | TVS     |         |
|   |                 | acute  | chronic   | Ammonia    | TVS           | TVS        | ---     | WS      |
|   |                 | ---  | 0.75      | Boron      | ---           | 0.75       | ---     | 1000    |
|   |                 | ---  | 250       | Chloride   | ---           | 250        | TVS     | TVS     |
|   |                 | 0.019  | 0.011     | Chlorine   | 0.019         | 0.011      | 50      | ---     |
|   |                 | 0.005  | ---       | Cyanide    | 0.005         | ---        | TVS     | TVS/WS  |
|   |                 | 10   | ---       | Nitrate    | 10            | ---        | ---     | 0.01    |
|   |                 | ---  | 0.5       | Nitrite    | ---           | 0.5        | ---     | 150     |
|   |                 | ---  | 0.083*    | Phosphorus | ---           | 0.083*     | TVS     | TVS     |
|   |                 | ---  | WS        | Sulfate    | ---           | WS         | ---     | 100     |
|   |                 | ---  | 0.002     | Sulfide    | ---           | 0.002      | TVS     | TVS     |
|   |                 | ---  | ---       | Silver     | ---           | ---        | TVS     | TVS     |
|   |                 | ---  | ---       | Uranium    | ---           | ---        | varies* | varies* |
|   |                 | ---  | ---       | Zinc       | ---           | ---        | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 6. Lakes and reservoirs in watersheds tributary to Cherry Creek within the City and County of Denver. |                 |                                    |           |         |                 |         |         |
|---|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPCH06  | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture     | DM                                 | MWAT      |         | acute           | chronic |         |
| Reviewable  | Aq Life Warm 2  | Temperature °C                     | WL        | WL      | Arsenic         | 340     | ---     |
|   | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| <b>Qualifiers:</b>  |                 | D.O. (mg/L)                        | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Fish Ingestion Standards</b>   |                 | pH                                 | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
| <b>Other:</b>   |                 | chlorophyll a (ug/L)               | ---       | ---     | Chromium III(T) | ---     | 100     |
| *Uranium(acute) = See 38.5(3) for details.  |                 | <b>E.-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | <b>Inorganic (mg/L)</b>            |           |         | Copper          | TVS     | TVS     |
|   |                 |                                    | acute     | chronic | Iron(T)         | ---     | 1000    |
|   |                 | Ammonia                            | TVS       | TVS     | Lead            | TVS     | TVS     |
|   |                 | Boron                              | ---       | 0.75    | Manganese       | TVS     | TVS     |
|   |                 | Chloride                           | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Chlorine                           | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|   |                 | Cyanide                            | 0.005     | ---     | Nickel          | TVS     | TVS     |
|   |                 | Nitrate                            | 100       | ---     | Selenium        | TVS     | TVS     |
|   |                 | Nitrite                            | ---       | 0.5     | Silver          | TVS     | TVS     |
|   |                 | Phosphorus                         | ---       | ---     | Uranium         | varies* | varies* |
|   |                 | Sulfate                            | ---       | ---     | Zinc            | TVS     | TVS     |
|   |                 | Sulfide                            | ---       | 0.002   |                 |         |         |

| 7. Rueter-Hess Reservoir                     |                 |                                    |           |         |                 |         |         |
|--|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPCH07                                     | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation                                  | Agriculture     | DM                                 | MWAT      |         | acute           | chronic |         |
| Reviewable                                   | Aq Life Warm 1  | Temperature °C                     | WL        | WL      | Arsenic         | 340     | ---     |
|  | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                        | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|  | DUWS            | pH                                 | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>                           |                 | chlorophyll a (ug/L)               | ---       | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>                                |                 | <b>E.-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):                   |                 | <b>Inorganic (mg/L)</b>            |           |         | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid                    |                 |                                    | acute     | chronic | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024                |                 | Ammonia                            | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Boron                              | ---       | 0.75    | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details. |                 | Chloride                           | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                           | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                            | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                            | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                            | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                         | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                            | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                            | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |                                    |           |         | Silver          | TVS     | TVS     |
|  |                 |                                    |           |         | Uranium         | varies* | varies* |
|  |                 |                                    |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 1a. Mainstem of Bear Creek from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake. |  |                         |                 |                    |               |      |     |
|---|--|-------------------------|-----------------|--------------------|---------------|------|-----|
| COSPBE01A   | Classifications  | Physical and Biological |                 |                    | Metals (ug/L) |      |     |
| Designation   | Agriculture  | DM                      | MWAT            | acute      chronic |               |      |     |
| Reviewable  | Aq Life Cold 1<br>Recreation E<br>Water Supply   | Temperature °C          | CS-I            | CS-I               | Arsenic       | 340  | --- |
| Qualifiers:   |  | acute                   | chronic         | Arsenic(T)         | ---           | 0.02 |     |
| Other:  | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | D.O. (mg/L)             | ---             | 6.0                | Cadmium       | TVS  | TVS |
| pH  | 6.5 - 9.0  | ---                     | ---             | Cadmium(T)         | 5.0           | ---  |     |
| chlorophyll a (mg/m <sup>2</sup> )  | ---  | 150*                    | Chromium III    | ---                | TVS           |      |     |
| E.-ColiE. coli (per 100 mL)   | ---  | 126                     | Chromium III(T) | 50                 | ---           |      |     |
| Inorganic (mg/L)  |  | acute                   | chronic         | Chromium VI        | TVS           | TVS  |     |
| Ammonia   | TVS  | TVS                     | Copper          | TVS                | TVS           |      |     |
| Boron   | ---  | 0.75                    | Iron            | ---                | WS            |      |     |
| Chloride  | ---  | 250                     | Iron(T)         | ---                | 1000          |      |     |
| Chlorine  | 0.019  | 0.011                   | Lead            | TVS                | TVS           |      |     |
| Cyanide   | 0.005  | ---                     | Lead(T)         | 50                 | ---           |      |     |
| Nitrate   | 10   | ---                     | Manganese       | TVS                | TVS/WS        |      |     |
| Nitrite   | ---  | 0.05                    | Mercury(T)      | ---                | 0.01          |      |     |
| Phosphorus  | ---  | 0.11*                   | Molybdenum(T)   | ---                | 150           |      |     |
| Sulfate   | ---  | WS                      | Nickel          | TVS                | TVS           |      |     |
| Sulfide   | ---  | 0.002                   | Nickel(T)       | ---                | 100           |      |     |
| Selenium  | TVS  | TVS                     | Silver          | TVS                | TVS(tr)       |      |     |
| Silver  | TVS  | TVS(tr)                 | Uranium         | varies*            | varies*       |      |     |
| Uranium   | varies*  | varies*                 | Zinc            | TVS                | TVS           |      |     |
| Zinc  | TVS  | TVS                     |                 |                    |               |      |     |
| 1b. Mainstem of Bear Creek from Harriman Ditch to the inlet of Bear Creek Reservoir.                          |  |                         |                 |                    |               |      |     |
| COSPBE01B   | Classifications  | Physical and Biological |                 |                    | Metals (ug/L) |      |     |
| Designation   | Agriculture  | DM                      | MWAT            | acute      chronic |               |      |     |
| Reviewable  | Aq Life Cold 1<br>Recreation E<br>Water Supply   | Temperature °C          | varies*         | varies*            | Arsenic       | 340  | --- |
| Qualifiers:   |  | acute                   | chronic         | Arsenic(T)         | ---           | 0.02 |     |
| Water + Fish Standards  | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Temperature =<br>DM=CS-II and MWAT=CS-II from 11/1-3/31<br>DM=CS-II and MWAT= 19.3 from 4/1-10/31   | D.O. (mg/L)             | ---             | 6.0                | Cadmium       | TVS  | TVS |
| pH  | 6.5 - 9.0  | ---                     | ---             | Cadmium(T)         | 5.0           | ---  |     |
| chlorophyll a (mg/m <sup>2</sup> )  | ---  | ---                     | Chromium III    | ---                | TVS           |      |     |
| E.-ColiE. coli (per 100 mL)   | ---  | 126                     | Chromium III(T) | 50                 | ---           |      |     |
| Inorganic (mg/L)  |  | acute                   | chronic         | Chromium VI        | TVS           | TVS  |     |
| Ammonia   | TVS  | TVS                     | Copper          | TVS                | TVS           |      |     |
| Boron   | ---  | 0.75                    | Iron            | ---                | WS            |      |     |
| Chloride  | ---  | 250                     | Iron(T)         | ---                | 1000          |      |     |
| Chlorine  | 0.019  | 0.011                   | Lead            | TVS                | TVS           |      |     |
| Cyanide   | 0.005  | ---                     | Lead(T)         | 50                 | ---           |      |     |
| Nitrate   | 10   | ---                     | Manganese       | TVS                | TVS/WS        |      |     |
| Nitrite   | ---  | 0.05                    | Mercury(T)      | ---                | 0.01          |      |     |
| Phosphorus  | ---  | ---                     | Molybdenum(T)   | ---                | 150           |      |     |
| Sulfate   | ---  | WS                      | Nickel          | TVS                | TVS           |      |     |
| Sulfide   | ---  | 0.002                   | Nickel(T)       | ---                | 100           |      |     |
| Selenium  | TVS  | TVS                     | Silver          | TVS                | TVS(tr)       |      |     |
| Silver  | TVS  | TVS(tr)                 | Uranium         | varies*            | varies*       |      |     |
| Uranium   | varies*  | varies*                 | Zinc            | TVS                | TVS           |      |     |
| Zinc  | TVS  | TVS                     |                 |                    |               |      |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 1c. Bear Creek Reservoir.   |                 |                                   |            |         |               |                 |         |     |
|---|-----------------|-----------------------------------|------------|---------|---------------|-----------------|---------|-----|
| COSPBE01C   | Classifications | Physical and Biological           |            |         | Metals (ug/L) |                 |         |     |
| Designation   | Agriculture     |                                   | DM         | MWAT    |               | acute           | chronic |     |
| Reviewable  | Aq Life Cold 1  | Temperature °C                    | varies*    | varies* | Arsenic       | 340             | ---     |     |
|   | Recreation E    |                                   | acute      | chronic | Arsenic(T)    | ---             | 0.02    |     |
|   | Water Supply    | D.O. (mg/L)                       | ---        | 6.0     | Cadmium       | TVS             | TVS     |     |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                   | ---        | 7.0     | Cadmium(T)    | 5.0             | ---     |     |
| <b>Other:</b>   |                 | pH                                | 6.5 - 9.0  | ---     | Chromium III  | ---             | TVS     |     |
| Temporary Modification(s):  |                 | chlorophyll a (ug/L)              | 7/1 - 9/30 | ---     | 12.2*         | Chromium III(T) | 50      | --- |
| Arsenic(chronic) = hybrid   |                 | <b>E-ColiE. coli</b> (per 100 mL) | ---        | 126     | Chromium VI   | TVS             | TVS     |     |
| Expiration Date of 12/31/2024   |                 |                                   |            |         | Copper        | TVS             | TVS     |     |
| *chlorophyll a (ug/L)(chronic) = mean concentration measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years.<br>*Phosphorus(chronic) = mean concentration measured through collection of samples that are representative of the mixed layer during summer months (July, August, September) and with an exceedance frequency of once in five years.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Temperature =<br>DM=CLL and MWAT=CLL from 1/1-3/31<br>DM=CLL and MWAT= 23.3 from 4/1-12/31 |                 | Inorganic (mg/L)                  |            |         | Iron          | ---             | WS      |     |
|   |                 |                                   | acute      | chronic | Iron(T)       | ---             | 1000    |     |
|   |                 | Ammonia                           | TVS        | TVS     | Lead          | TVS             | TVS     |     |
|   |                 | Boron                             | ---        | 0.75    | Lead(T)       | 50              | ---     |     |
|   |                 | Chloride                          | ---        | 250     | Manganese     | TVS             | TVS/WS  |     |
|   |                 | Chlorine                          | 0.019      | 0.011   | Mercury(T)    | ---             | 0.01    |     |
|   |                 | Cyanide                           | 0.005      | ---     | Molybdenum(T) | ---             | 150     |     |
|   |                 | Nitrate                           | 10         | ---     | Nickel        | TVS             | TVS     |     |
|   |                 | Nitrite                           | ---        | 0.05    | Nickel(T)     | ---             | 100     |     |
|   |                 | Phosphorus                        | 7/1 - 9/30 | ---     | 22.2*         | Selenium        | TVS     | TVS |
|   |                 | Sulfate                           | ---        | WS      | Silver        | TVS             | TVS(tr) |     |
|   |                 | Sulfide                           | ---        | 0.002   | Uranium       | varies*         | varies* |     |
|   |                 |                                   |            |         | Zinc          | TVS             | TVS     |     |

  

| 1d. Evergreen Lake.  |                 |                                   |           |         |               |         |         |
|--|-----------------|-----------------------------------|-----------|---------|---------------|---------|---------|
| COSPBE01D  | Classifications | Physical and Biological           |           |         | Metals (ug/L) |         |         |
| Designation  | Agriculture     |                                   | DM        | MWAT    |               | acute   | chronic |
| Reviewable   | Aq Life Cold 1  | Temperature °C                    | CLL       | CLL     | Arsenic       | 340     | ---     |
|  | Recreation E    |                                   | acute     | chronic | Arsenic(T)    | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                       | ---       | 6.0     | Cadmium       | TVS     | TVS     |
|  | DUWS            | D.O. (spawning)                   | ---       | 7.0     | Cadmium(T)    | 5.0     | ---     |
| <b>Qualifiers:</b>   |                 | pH                                | 6.5 - 9.0 | ---     | Chromium III  | ---     | TVS     |
| <b>Other:</b>  |                 | chlorophyll a (ug/L)              | ---       | ---     | 50            | ---     |         |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <b>E-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium VI   | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |                 |                                   |           |         | Copper        | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | Inorganic (mg/L)                  |           |         | Iron          | ---     | WS      |
|  |                 |                                   | acute     | chronic | Iron(T)       | ---     | 1000    |
|  |                 | Ammonia                           | TVS       | TVS     | Lead          | TVS     | TVS     |
|  |                 | Boron                             | ---       | 0.75    | Lead(T)       | 50      | ---     |
|  |                 | Chloride                          | ---       | 250     | Manganese     | TVS     | TVS/WS  |
|  |                 | Chlorine                          | 0.019     | 0.011   | Mercury(T)    | ---     | 0.01    |
|  |                 | Cyanide                           | 0.005     | ---     | Molybdenum(T) | ---     | 150     |
|  |                 | Nitrate                           | 10        | ---     | Nickel        | TVS     | TVS     |
|  |                 | Nitrite                           | ---       | 0.05    | Nickel(T)     | ---     | 100     |
|  |                 | Phosphorus                        | ---       | ---     | Selenium      | TVS     | TVS     |
|  |                 | Sulfate                           | ---       | WS      | Silver        | TVS     | TVS(tr) |
|  |                 | Sulfide                           | ---       | 0.002   | Uranium       | varies* | varies* |
|  |                 |                                   |           |         | Zinc          | TVS     | TVS     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 1e. Mainstem of Bear Creek from the outlet of Evergreen Lake to the Harriman Ditch.   |                                    |                         |          |                 |               |        |      |
|---|------------------------------------|-------------------------|----------|-----------------|---------------|--------|------|
| COSPBE01E   | Classifications                    | Physical and Biological |          |                 | Metals (ug/L) |        |      |
| Designation   | Agriculture                        | DM                      | MWAT     | acute           | chronic       |        |      |
| Reviewable  | Aq Life Cold 1                     | Temperature °C          | varies*  | varies*         | Arsenic       | 340    | ---  |
|   | Recreation E                       |                         | acute    | chronic         | Arsenic(T)    | ---    | 0.02 |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Temperature =<br>DM=CS-II and MWAT=CS-II from 11/1-3/31<br>DM=CS-II and MWAT= 19.3 from 4/1-10/31 | Water Supply                       | D.O. (mg/L)             | ---      | 6.0             | Cadmium       | TVS    | TVS  |
|   | D.O. (spawning)                    | ---                     | 7.0      | Cadmium(T)      | 5.0           | ---    |      |
|   | pH                                 | 6.5 - 9.0               | ---      | Chromium III    | ---           | TVS    |      |
|   | chlorophyll a (mg/m <sup>2</sup> ) | ---                     | ---      | Chromium III(T) | 50            | ---    |      |
|   | <b>E.-ColiE. coli</b> (per 100 mL) | ---                     | 126      | Chromium VI     | TVS           | TVS    |      |
|   | Inorganic (mg/L)                   |                         |          | Copper          | TVS           | TVS    |      |
|   | acute                              | chronic                 | Iron     | ---             | WS            |        |      |
|   | Ammonia                            | TVS                     | TVS      | Iron(T)         | ---           | 1000   |      |
|   | Boron                              | ---                     | 0.75     | Lead            | TVS           | TVS    |      |
|   | Chloride                           | ---                     | 250      | Lead(T)         | 50            | ---    |      |
|   | Chlorine                           | 0.019                   | 0.011    | Manganese       | TVS           | TVS/WS |      |
|   | Cyanide                            | 0.005                   | ---      | Mercury(T)      | ---           | 0.01   |      |
|   | Nitrate                            | 10                      | ---      | Molybdenum(T)   | ---           | 150    |      |
|   | Nitrite                            | ---                     | 0.05     | Nickel          | TVS           | TVS    |      |
|   | Phosphorus                         | ---                     | ---      | Nickel(T)       | ---           | 100    |      |
| Sulfate   | ---                                | WS                      | Selenium | TVS             | TVS           |        |      |
| Sulfide   | ---                                | 0.002                   | Silver   | TVS             | TVS(tr)       |        |      |
|   |                                    |                         | Uranium  | varies*         | varies*       |        |      |
|   |                                    |                         | Zinc     | TVS             | TVS           |        |      |

  

| 2. Mainstem of Bear Creek from the outlet of Bear Creek Reservoir to the confluence with the South Platte River.  |                                    |                         |          |                 |               |        |      |
|---|------------------------------------|-------------------------|----------|-----------------|---------------|--------|------|
| COSPBE02  | Classifications                    | Physical and Biological |          |                 | Metals (ug/L) |        |      |
| Designation   | Agriculture                        | DM                      | MWAT     | acute           | chronic       |        |      |
| Reviewable  | Aq Life Warm 1                     | Temperature °C          | WS-II    | WS-II           | Arsenic       | 340    | ---  |
|   | Recreation E                       |                         | acute    | chronic         | Arsenic(T)    | ---    | 0.02 |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply                       | D.O. (mg/L)             | ---      | 5.0             | Cadmium       | TVS    | TVS  |
|   | pH                                 | 6.5 - 9.0               | ---      | ---             | Cadmium(T)    | 5.0    | ---  |
|   | chlorophyll a (mg/m <sup>2</sup> ) | ---                     | ---      | Chromium III    | ---           | TVS    |      |
|   | <b>E.-ColiE. coli</b> (per 100 mL) | ---                     | 126      | Chromium III(T) | 50            | ---    |      |
|   | Inorganic (mg/L)                   |                         |          | Chromium VI     | TVS           | TVS    |      |
|   | acute                              | chronic                 | Copper   | TVS             | TVS           |        |      |
|   | Ammonia                            | TVS                     | TVS      | Iron            | ---           | WS     |      |
|   | Boron                              | ---                     | 0.75     | Iron(T)         | ---           | 1000   |      |
|   | Chloride                           | ---                     | 250      | Lead            | TVS           | TVS    |      |
|   | Chlorine                           | 0.019                   | 0.011    | Lead(T)         | 50            | ---    |      |
|   | Cyanide                            | 0.005                   | ---      | Manganese       | TVS           | TVS/WS |      |
|   | Nitrate                            | 10                      | ---      | Mercury(T)      | ---           | 0.01   |      |
|   | Nitrite                            | ---                     | 0.5      | Molybdenum(T)   | ---           | 150    |      |
|   | Phosphorus                         | ---                     | ---      | Nickel          | TVS           | TVS    |      |
|   | Sulfate                            | ---                     | WS       | Nickel(T)       | ---           | 100    |      |
| Sulfide   | ---                                | 0.002                   | Selenium | TVS             | TVS           |        |      |
|   |                                    |                         | Silver   | TVS             | TVS           |        |      |
|   |                                    |                         | Uranium  | varies*         | varies*       |        |      |
|   |                                    |                         | Zinc     | TVS             | TVS           |        |      |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 3. All tributaries to Bear Creek, including all wetlands, from the source to the outlet of Evergreen Lake, except for listings in Segment 7. |  |                         |                 |                    |               |      |     |
|--|--|-------------------------|-----------------|--------------------|---------------|------|-----|
| COSPBE03   | Classifications  | Physical and Biological |                 |                    | Metals (ug/L) |      |     |
| Designation  | Agriculture  | DM                      | MWAT            | acute      chronic |               |      |     |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply   | Temperature °C          | CS-I            | CS-I               | Arsenic       | 340  | --- |
| Qualifiers:  |  | acute                   | chronic         | Arsenic(T)         | ---           | 0.02 |     |
| Other:   | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | D.O. (mg/L)             | ---             | 6.0                | Cadmium       | TVS  | TVS |
| pH   | 6.5 - 9.0  | ---                     | 7.0             | Cadmium(T)         | 5.0           | ---  |     |
| chlorophyll a (mg/m <sup>2</sup> )   | ---  | 150*                    | Chromium III    | ---                | TVS           |      |     |
| E.-ColiE.coli (per 100 mL)   | ---  | 126                     | Chromium III(T) | 50                 | ---           |      |     |
| Inorganic (mg/L)   |  | acute                   | chronic         | Chromium VI        | TVS           | TVS  |     |
| Ammonia  | TVS  | TVS                     | Copper          | TVS                | TVS           |      |     |
| Boron  | ---  | 0.75                    | Iron            | ---                | WS            |      |     |
| Chloride   | ---  | 250                     | Iron(T)         | ---                | 1000          |      |     |
| Chlorine   | 0.019  | 0.011                   | Lead            | TVS                | TVS           |      |     |
| Cyanide  | 0.005  | ---                     | Lead(T)         | 50                 | ---           |      |     |
| Nitrate  | 10   | ---                     | Manganese       | TVS                | TVS/WS        |      |     |
| Nitrite  | ---  | 0.05                    | Mercury(T)      | ---                | 0.01          |      |     |
| Phosphorus   | ---  | 0.11*                   | Molybdenum(T)   | ---                | 150           |      |     |
| Sulfate  | ---  | WS                      | Nickel          | TVS                | TVS           |      |     |
| Sulfide  | ---  | 0.002                   | Nickel(T)       | ---                | 100           |      |     |
|  |  |                         | Selenium        | TVS                | TVS           |      |     |
|  |  |                         | Silver          | TVS                | TVS(tr)       |      |     |
|  |  |                         | Uranium         | varies*            | varies*       |      |     |
|  |  |                         | Zinc            | TVS                | TVS           |      |     |

  

| 4. All tributaries to Bear Creek, including all wetlands, from the outlet of Evergreen Lake to the confluence with the South Platte River, except for specific listings in Segments 5, 6a, and 6b. |  |                         |                 |                    |               |      |     |
|--|--|-------------------------|-----------------|--------------------|---------------|------|-----|
| COSPBE04   | Classifications  | Physical and Biological |                 |                    | Metals (ug/L) |      |     |
| Designation  | Agriculture  | DM                      | MWAT            | acute      chronic |               |      |     |
| Reviewable   | Aq Life Warm 2<br>Recreation E<br>Water Supply   | Temperature °C          | WS-I            | WS-I               | Arsenic       | 340  | --- |
| Qualifiers:  |  | acute                   | chronic         | Arsenic(T)         | ---           | 0.02 |     |
| Water + Fish Standards   | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | D.O. (mg/L)             | ---             | 5.0                | Cadmium       | TVS  | TVS |
| pH   | 6.5 - 9.0  | ---                     | 5.0             | Cadmium(T)         | 5.0           | ---  |     |
| chlorophyll a (mg/m <sup>2</sup> )   | ---  | ---                     | Chromium III    | ---                | TVS           |      |     |
| E.-ColiE.coli (per 100 mL)   | ---  | 126                     | Chromium III(T) | 50                 | ---           |      |     |
| Inorganic (mg/L)   |  | acute                   | chronic         | Chromium VI        | TVS           | TVS  |     |
| Ammonia  | TVS  | TVS                     | Copper          | TVS                | TVS           |      |     |
| Boron  | ---  | 0.75                    | Iron            | ---                | WS            |      |     |
| Chloride   | ---  | 250                     | Iron(T)         | ---                | 1000          |      |     |
| Chlorine   | 0.019  | 0.011                   | Lead            | TVS                | TVS           |      |     |
| Cyanide  | 0.005  | ---                     | Lead(T)         | 50                 | ---           |      |     |
| Nitrate  | 10   | ---                     | Manganese       | TVS                | TVS/WS        |      |     |
| Nitrite  | ---  | 0.5                     | Mercury(T)      | ---                | 0.01          |      |     |
| Phosphorus   | ---  | ---                     | Molybdenum(T)   | ---                | 150           |      |     |
| Sulfate  | ---  | WS                      | Nickel          | TVS                | TVS           |      |     |
| Sulfide  | ---  | 0.002                   | Nickel(T)       | ---                | 100           |      |     |
|  |  |                         | Selenium        | TVS                | TVS           |      |     |
|  |  |                         | Silver          | TVS                | TVS           |      |     |
|  |  |                         | Uranium         | varies*            | varies*       |      |     |
|  |  |                         | Zinc            | TVS                | TVS           |      |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 5. Swede, Kerr, Sawmill, Troublesome, and Cold Springs Gulches, and mainstem of Cub Creek from the source to the confluence with Bear Creek. |  |                                    |           |         |                 |         |         |
|--|--|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPBE05   | Classifications  | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture  | DM                                 | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Cold 2   | Temperature °C                     | CS-II     | CS-II   | Arsenic         | 340     | ---     |
|  | Recreation E   |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |  | D.O. (mg/L)                        | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |  | D.O. (spawning)                    | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |  | pH                                 | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Water + Fish Standards</b>  |  | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150*    | Chromium III(T) | 50      | ---     |
| <b>Other:</b>  | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024 | <u>E. Coli</u> (per 100 mL)        | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |  |                                    |           |         | Copper          | TVS     | TVS     |
|  |  | Inorganic (mg/L)                   |           |         | Iron            | ---     | WS      |
|  |  | acute                              | chronic   | Iron(T) | ---             | 1000    |         |
|  |  | Ammonia                            | TVS       | TVS     | Lead            | TVS     | TVS     |
|  |  | Boron                              | ---       | 0.75    | Lead(T)         | 50      | ---     |
|  |  | Chloride                           | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|  |  | Chlorine                           | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|  |  | Cyanide                            | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrate                            | 10        | ---     | Nickel          | TVS     | TVS     |
|  |  | Nitrite                            | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|  |  | Phosphorus                         | ---       | 0.11*   | Selenium        | TVS     | TVS     |
|  |  | Sulfate                            | ---       | WS      | Silver          | TVS     | TVS(tr) |
|  |  | Sulfide                            | ---       | 0.002   | Uranium         | varies* | varies* |
|  |  |                                    |           |         | Zinc            | TVS     | TVS     |

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).  
\*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  
\*Uranium(acute) = See 38.5(3) for details.  
\*Uranium(chronic) = See 38.5(3) for details.

### 6a. Turkey Creek system, including all tributaries and wetlands, from the source to the inlet of Bear Creek Reservoir, except for listings in Segment 6b.

| COSPBE06A                     | Classifications  | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
|-------------------------------|--|------------------------------------|-----------|---------|-----------------|---------|---------|
| Designation                   | Agriculture  | DM                                 | MWAT      | acute   | chronic         |         |         |
| Reviewable                    | Aq Life Cold 2   | Temperature °C                     | CS-II     | CS-II   | Arsenic         | 340     | ---     |
|                               | Recreation E   |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply                  |  | D.O. (mg/L)                        | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|                               |  | D.O. (spawning)                    | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>            |  | pH                                 | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Water + Fish Standards</b> |  | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150*    | Chromium III(T) | 50      | ---     |
| <b>Other:</b>                 | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024 | <u>E. Coli</u> (per 100 mL)        | ---       | 126     | Chromium VI     | TVS     | TVS     |
|                               |  |                                    |           |         | Copper          | TVS     | TVS     |
|                               |  | Inorganic (mg/L)                   |           |         | Iron            | ---     | WS      |
|                               |  | acute                              | chronic   | Iron(T) | ---             | 1000    |         |
|                               |  | Ammonia                            | TVS       | TVS     | Lead            | TVS     | TVS     |
|                               |  | Boron                              | ---       | 0.75    | Lead(T)         | 50      | ---     |
|                               |  | Chloride                           | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|                               |  | Chlorine                           | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|                               |  | Cyanide                            | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|                               |  | Nitrate                            | 10        | ---     | Nickel          | TVS     | TVS     |
|                               |  | Nitrite                            | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|                               |  | Phosphorus                         | ---       | 0.11*   | Selenium        | TVS     | TVS     |
|                               |  | Sulfate                            | ---       | WS      | Silver          | TVS     | TVS(tr) |
|                               |  | Sulfide                            | ---       | 0.002   | Uranium         | varies* | varies* |
|                               |  |                                    |           |         | Zinc            | TVS     | TVS     |

\*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).  
\*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  
\*Uranium(acute) = See 38.5(3) for details.  
\*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 6b. Mainstem of North Turkey Creek, from the source to the confluence with Turkey Creek. |  |   |           |         |                 |         |         |
|--|--|---|-----------|---------|-----------------|---------|---------|
| COSPBE06B  | Classifications                                | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture                                    |   | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                          | CS-I      | CS-I    | Arsenic         | 340     | ---     |
| Qualifiers:  |  |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:   |  | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| Temporary Modification(s):   |  | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| Arsenic(chronic) = hybrid  |  | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| Expiration Date of 12/31/2024  |  | chlorophyll a (mg/m <sup>2</sup> )      | ---       | ---     | Chromium III(T) | 50      | ---     |
| *Uranium(acute) = See 38.5(3) for details.   |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |  | Inorganic (mg/L)                        |           |         | Copper          | TVS     | TVS     |
|  |  |   | acute     | chronic | Iron            | ---     | WS      |
|  |  | Ammonia                                 | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|  |  | Boron                                   | ---       | 0.75    | Lead            | TVS     | TVS     |
|  |  | Chloride                                | ---       | 250     | Lead(T)         | 50      | ---     |
|  |  | Chlorine                                | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|  |  | Cyanide                                 | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|  |  | Nitrate                                 | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrite                                 | ---       | 0.05    | Nickel          | TVS     | TVS     |
|  |  | Phosphorus                              | ---       | ---     | Nickel(T)       | ---     | 100     |
|  |  | Sulfate                                 | ---       | WS      | Selenium        | TVS     | TVS     |
|  |  | Sulfide                                 | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|  |  |   |           |         | Uranium         | varies* | varies* |
|  |  |   |           |         | Zinc            | TVS     | TVS     |

  

| 7. Mainstem and all tributaries to Bear Creek, including wetlands, within the Mt. Evans Wilderness Area. |  |   |           |         |                 |         |         |
|--|--|---|-----------|---------|-----------------|---------|---------|
| COSPBE07   | Classifications                                | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture                                    |   | DM        | MWAT    |                 | acute   | chronic |
| OW   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                          | CS-I      | CS-I    | Arsenic         | 340     | ---     |
| Qualifiers:  |  |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:   |  | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |  | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| *Uranium(chronic) = See 38.5(3) for details.   |  | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|  |  | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150     | Chromium III(T) | 50      | ---     |
|  |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |  | Inorganic (mg/L)                        |           |         | Copper          | TVS     | TVS     |
|  |  |   | acute     | chronic | Iron            | ---     | WS      |
|  |  | Ammonia                                 | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|  |  | Boron                                   | ---       | 0.75    | Lead            | TVS     | TVS     |
|  |  | Chloride                                | ---       | 250     | Lead(T)         | 50      | ---     |
|  |  | Chlorine                                | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|  |  | Cyanide                                 | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|  |  | Nitrate                                 | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrite                                 | ---       | 0.05    | Nickel          | TVS     | TVS     |
|  |  | Phosphorus                              | ---       | 0.11    | Nickel(T)       | ---     | 100     |
|  |  | Sulfate                                 | ---       | WS      | Selenium        | TVS     | TVS     |
|  |  | Sulfide                                 | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|  |  |   |           |         | Uranium         | varies* | varies* |
|  |  |   |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Bear Creek Basin

| 8. Lakes and reservoirs in the Bear Creek system from the sources to the boundary of the Mt. Evans Wilderness area. |  |                             |           |         |                 |         |         |
|---|--|-----------------------------|-----------|---------|-----------------|---------|---------|
| COSPBE08  | Classifications                                | Physical and Biological     |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture                                    |                             | DM        | MWAT    |                 | acute   | chronic |
| OW  | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C              | CL        | CL      | Arsenic         | 340     | ---     |
|   |  |                             | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   |  | D.O. (mg/L)                 | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |  | D.O. (spawning)             | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |  | pH                          | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.            |  | chlorophyll a (ug/L)        | ---       | 8*      | Chromium III(T) | 50      | ---     |
| *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.                      |  | <u>E.-Coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.  |  | <b>Inorganic (mg/L)</b>     |           |         | Copper          | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |  |                             |           |         | Iron            | ---     | WS      |
|   |  |                             | acute     | chronic | Iron(T)         | ---     | 1000    |
|   |  | Ammonia                     | TVS       | TVS     | Lead            | TVS     | TVS     |
|   |  | Boron                       | ---       | 0.75    | Lead(T)         | 50      | ---     |
|   |  | Chloride                    | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|   |  | Chlorine                    | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|   |  | Cyanide                     | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|   |  | Nitrate                     | 10        | ---     | Nickel          | TVS     | TVS     |
|   |  | Nitrite                     | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|   |  | Phosphorus                  | ---       | 0.025*  | Selenium        | TVS     | TVS     |
|   |  | Sulfate                     | ---       | WS      | Silver          | TVS     | TVS(tr) |
|   |  | Sulfide                     | ---       | 0.002   | Uranium         | varies* | varies* |
|   |  |                             |           |         | Zinc            | TVS     | TVS     |

  

| 9. Lakes and reservoirs in the Bear Creek system from the boundary of the Mt. Evans Wilderness area to the inlet of Evergreen Lake; includes Summit Lake.     |  |                             |           |         |                 |         |         |
|---|--|-----------------------------|-----------|---------|-----------------|---------|---------|
| COSPBE09  | Classifications                                | Physical and Biological     |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture                                    |                             | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C              | CL        | CL      | Arsenic         | 340     | ---     |
|   |  |                             | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   |  | D.O. (mg/L)                 | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |  | D.O. (spawning)             | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |  | pH                          | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. |  | chlorophyll a (ug/L)        | ---       | 8*      | Chromium III(T) | 50      | ---     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.           |  | <u>E.-Coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.  |  | <b>Inorganic (mg/L)</b>     |           |         | Copper          | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |  |                             |           |         | Iron            | ---     | WS      |
|   |  |                             | acute     | chronic | Iron(T)         | ---     | 1000    |
|   |  | Ammonia                     | TVS       | TVS     | Lead            | TVS     | TVS     |
|   |  | Boron                       | ---       | 0.75    | Lead(T)         | 50      | ---     |
|   |  | Chloride                    | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|   |  | Chlorine                    | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|   |  | Cyanide                     | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|   |  | Nitrate                     | 10        | ---     | Nickel          | TVS     | TVS     |
|   |  | Nitrite                     | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|   |  | Phosphorus                  | ---       | 0.025*  | Selenium        | TVS     | TVS     |
|   |  | Sulfate                     | ---       | WS      | Silver          | TVS     | TVS(tr) |
|   |  | Sulfide                     | ---       | 0.002   | Uranium         | varies* | varies* |
|   |  |                             |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.







# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 2b. Mainstem of Clear Creek, including all tributaries and wetlands, from the confluence with West Fork Clear Creek to a point just below the confluence with Mill Creek, except for listings in Segments 4 through 8.       |                 |   |           |         |                         |                      |
|--|-----------------|---|-----------|---------|-------------------------|----------------------|
| COSPCL02B  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)           |                      |
| Designation  | Agriculture     |   | DM        | MWAT    |                         | acute      chronic   |
| Reviewable*  | Aq Life Cold 1  | Temperature °C                          | CS-I      | CS-I    | Arsenic                 | 340      ---         |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)              | ---      0.02        |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 6.0     | Cadmium                 | TVS      TVS         |
| Qualifiers:  |                 | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)              | 5.0      ---         |
| Other:   |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III            | ---      TVS         |
| Temporary Modification(s):   |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*    | Chromium III(T)         | 50      ---          |
| Arsenic(chronic) = hybrid  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI             | TVS      TVS         |
| Expiration Date of 12/31/2024  |                 |   |           |         | Copper                  | TVS      TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |                 |   |           |         | Iron                    | ---      WS          |
| *Designation: 9/30/00 Baseline does not apply  |                 |   |           |         | <b>Inorganic (mg/L)</b> |                      |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |                 |   |           |         |                         | acute      chronic   |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Ammonia                                 | TVS       | TVS     | Lead                    | TVS      TVS         |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Boron                                   | ---       | 0.75    | Lead(T)                 | 50      ---          |
|  |                 | Chloride                                | ---       | 250     | Manganese               | TVS      TVS/WS      |
|  |                 | Chlorine                                | 0.019     | 0.011   | Mercury(T)              | ---      0.01        |
|  |                 | Cyanide                                 | 0.005     | ---     | Molybdenum(T)           | ---      150         |
|  |                 | Nitrate                                 | 10        | ---     | Nickel                  | TVS      TVS         |
|  |                 | Nitrite                                 | ---       | 0.05    | Nickel(T)               | ---      100         |
|  |                 | Phosphorus                              | ---       | 0.11*   | Selenium                | TVS      TVS         |
|  |                 | Sulfate                                 | ---       | WS      | Silver                  | TVS      TVS(tr)     |
|  |                 | Sulfide                                 | ---       | 0.002   | Uranium                 | varies*      varies* |
|  |                 |   |           |         | Zinc                    | TVS      TVS         |
| 2c. Mainstem of Clear Creek, including all tributaries and wetlands, from a point just below the confluence with Mill Creek to a point just above the Argo Tunnel discharge, except for listings in Segments 9a, 9b, and 10. |                 |   |           |         |                         |                      |
| COSPCL02C  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)           |                      |
| Designation  | Agriculture     |   | DM        | MWAT    |                         | acute      chronic   |
| Reviewable*  | Aq Life Cold 1  | Temperature °C                          | CS-I      | CS-I    | Arsenic                 | 340      ---         |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)              | ---      0.02        |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 6.0     | Cadmium                 | TVS      TVS         |
| Qualifiers:  |                 | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)              | 5.0      ---         |
| Other:   |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III            | ---      TVS         |
| Temporary Modification(s):   |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*    | Chromium III(T)         | 50      ---          |
| Arsenic(chronic) = hybrid  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI             | TVS      TVS         |
| Expiration Date of 12/31/2024  |                 |   |           |         | Copper                  | TVS      TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |                 |   |           |         | Iron                    | ---      WS          |
| *Designation: 9/30/00 Baseline does not apply  |                 |   |           |         | <b>Inorganic (mg/L)</b> |                      |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |                 |   |           |         |                         | acute      chronic   |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Ammonia                                 | TVS       | TVS     | Lead                    | TVS      TVS         |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Boron                                   | ---       | 0.75    | Lead(T)                 | 50      ---          |
| *Zinc(acute) = 0.978e^(0.8537[ln(hardness)]+1.9467)  |                 | Chloride                                | ---       | 250     | Manganese               | TVS      TVS/WS      |
| *Zinc(chronic) = 0.986e^(0.8537[ln(hardness)]+1.8032)  |                 | Chlorine                                | 0.019     | 0.011   | Mercury(T)              | ---      0.01        |
|  |                 | Cyanide                                 | 0.005     | ---     | Molybdenum(T)           | ---      150         |
|  |                 | Nitrate                                 | 10        | ---     | Nickel                  | TVS      TVS         |
|  |                 | Nitrite                                 | ---       | 0.05    | Nickel(T)               | ---      100         |
|  |                 | Phosphorus                              | ---       | 0.11*   | Selenium                | TVS      TVS         |
|  |                 | Sulfate                                 | ---       | WS      | Silver                  | TVS      TVS(tr)     |
|  |                 | Sulfide                                 | ---       | 0.002   | Uranium                 | varies*      varies* |
|  |                 |   |           |         | Zinc                    | ---      SSE*        |
|  |                 |   |           |         | Zinc                    | SSE*      ---        |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 3a. Mainstem of South Clear Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for the listings in Segments 3b and 19.   |  |                         |         |  |                 |         |         |
|---|--|-------------------------|---------|--|-----------------|---------|---------|
| COSPCL03A   | Classifications                                | Physical and Biological |         |  | Metals (ug/L)   |         |         |
| Designation   | Agriculture                                    | DM                      | MWAT    |  | acute           | chronic |         |
| Reviewable*   | Aq Life Cold 1<br>Recreation E<br>Water Supply | CS-I                    | CS-I    | Temperature °C                             | Arsenic         | 340     | ---     |
|   |  | acute                   | chronic |  | Arsenic(T)      | ---     | 0.02    |
|   |  |                         |         | D.O. (mg/L)                                | Cadmium         | TVS     | TVS     |
| Qualifiers:   |  |                         |         | D.O. (spawning)                            | Cadmium(T)      | 5.0     | ---     |
| Other:  |  | 6.5 - 9.0               | ---     | pH   | Chromium III    | ---     | TVS     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024  |  |                         |         | chlorophyll a (mg/m <sup>2</sup> )         | Chromium III(T) | 50      | ---     |
|   |  |                         |         | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | Chromium VI     | TVS     | TVS     |
|   |  | Inorganic (mg/L)        |         |  | Copper          | TVS     | TVS     |
|   |  | acute                   | chronic |  | Iron            | ---     | WS      |
| *Designation: 9/30/00 Baseline does not apply<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Zinc(acute) =<br>0.978e^(0.8537[ln(hardness)]+1.9467)<br>*Zinc(chronic) =<br>0.986e^(0.8537[ln(hardness)]+1.8032) |  |                         |         |  | Iron(T)         | ---     | 1000    |
|   |  |                         |         | Ammonia                                    | Lead            | TVS     | TVS     |
|   |  |                         |         | Boron                                      | Lead(T)         | 50      | ---     |
|   |  |                         |         | Chloride                                   | Manganese       | TVS     | TVS/WS  |
|   |  |                         |         | Chlorine                                   | Mercury(T)      | ---     | 0.01    |
|   |  |                         |         | Cyanide                                    | Molybdenum(T)   | ---     | 150     |
|   |  |                         |         | Nitrate                                    | Nickel          | TVS     | TVS     |
|   |  |                         |         | Nitrite                                    | Nickel(T)       | ---     | 100     |
|   |  |                         |         | Phosphorus                                 | Selenium        | TVS     | TVS     |
|   |  |                         |         | Sulfate                                    | Silver          | TVS     | TVS(tr) |
|   |  |                         |         | Sulfide                                    | Uranium         | varies* | varies* |
|   |  |                         |         |  | Zinc            | ---     | SSE*    |
|   |  |                         |         |  | Zinc            | SSE*    | ---     |

  

| 3b. Mainstem of Leavenworth Creek from source to confluence with South Clear Creek.   |  |                         |         |  |                 |         |         |
|---|--|-------------------------|---------|--|-----------------|---------|---------|
| COSPCL03B   | Classifications                                | Physical and Biological |         |  | Metals (ug/L)   |         |         |
| Designation   | Agriculture                                    | DM                      | MWAT    |  | acute           | chronic |         |
| Reviewable*   | Aq Life Cold 2<br>Recreation E<br>Water Supply | CS-I                    | CS-I    | Temperature °C                             | Arsenic         | 340     | ---     |
|   |  | acute                   | chronic |  | Arsenic(T)      | ---     | 0.02    |
|   |  |                         |         | D.O. (mg/L)                                | Cadmium         | TVS     | TVS     |
| Qualifiers:   |  |                         |         | D.O. (spawning)                            | Cadmium(T)      | 5.0     | ---     |
| Water + Fish Standards  |  | 6.5 - 9.0               | ---     | pH   | Chromium III    | ---     | TVS     |
| Other:  |  |                         |         | chlorophyll a (mg/m <sup>2</sup> )         | Chromium III(T) | 50      | ---     |
| *Designation: 9/30/00 Baseline does not apply<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Zinc(acute) =<br>0.978e^(0.8537[ln(hardness)]+1.9467)<br>*Zinc(chronic) =<br>0.986e^(0.8537[ln(hardness)]+1.8032) |  |                         |         | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | Chromium VI     | TVS     | TVS     |
|   |  | Inorganic (mg/L)        |         |  | Copper          | TVS     | TVS     |
|   |  | acute                   | chronic |  | Iron            | ---     | WS      |
|   |  |                         |         |  | Iron(T)         | ---     | 1000    |
|   |  |                         |         | Ammonia                                    | Lead            | TVS     | TVS     |
|   |  |                         |         | Boron                                      | Lead(T)         | 50      | ---     |
|   |  |                         |         | Chloride                                   | Manganese       | TVS     | TVS/WS  |
|   |  |                         |         | Chlorine                                   | Mercury(T)      | ---     | 0.01    |
|   |  |                         |         | Cyanide                                    | Molybdenum(T)   | ---     | 150     |
|   |  |                         |         | Nitrate                                    | Nickel          | TVS     | TVS     |
|   |  |                         |         | Nitrite                                    | Nickel(T)       | ---     | 100     |
|   |  |                         |         | Phosphorus                                 | Selenium        | TVS     | TVS     |
|   |  |                         |         | Sulfate                                    | Silver          | TVS     | TVS(tr) |
|   |  |                         |         | Sulfide                                    | Uranium         | varies* | varies* |
|   |  |                         |         |  | Zinc            | ---     | SSE*    |
|   |  |                         |         |  | Zinc            | SSE*    | ---     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 4. Mainstem of West Fork Clear Creek from the source to the confluence with Woods Creek.   |                 |   |           |                  |                 |         |        |
|--|-----------------|---|-----------|------------------|-----------------|---------|--------|
| COSPCL04   | Classifications | Physical and Biological                 |           |                  | Metals (ug/L)   |         |        |
| Designation  | Agriculture     | DM                                      | MWAT      | acute            |                 | chronic |        |
| Reviewable*  | Aq Life Cold 1  | Temperature °C                          | CS-I      | CS-I             | Arsenic         | 340     | ---    |
|  | Recreation E    |   | acute     | chronic          | Arsenic(T)      | ---     | 0.02   |
| <b>Qualifiers:</b><br><br><b>Other:</b><br><br>*Designation: 9/30/00 Baseline does not apply<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                             | ---       | 6.0              | Cadmium         | TVS     | TVS    |
|  |                 | D.O. (spawning)                         | ---       | 7.0              | Cadmium(T)      | 5.0     | ---    |
|  |                 | pH                                      | 6.5 - 9.0 | ---              | Chromium III    | ---     | TVS    |
|  |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150              | Chromium III(T) | 50      | ---    |
|  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126              | Chromium VI     | TVS     | TVS    |
|  |                 |   |           |                  | Copper          | TVS     | TVS    |
|  |                 |   |           |                  | Iron            | ---     | WS     |
|  |                 |   |           |                  | Iron(T)         | ---     | 1000   |
|  |                 |   |           |                  | Lead            | TVS     | TVS    |
|  |                 |   |           |                  | Lead(T)         | 50      | ---    |
|  |                 |   |           |                  | Manganese       | TVS     | TVS/WS |
|  |                 |   |           |                  | Mercury(T)      | ---     | 0.01   |
|  |                 |   |           |                  | Molybdenum(T)   | ---     | 210    |
|  |                 |   |           |                  | Nickel          | TVS     | TVS    |
|  |                 |   |           |                  | Nickel(T)       | ---     | 100    |
|  |                 |   |           | Selenium         | TVS             | TVS     |        |
|  |                 |   |           | Silver           | TVS             | TVS(tr) |        |
|  |                 |   |           | Uranium          | varies*         | varies* |        |
|  |                 |   |           | Zinc             | TVS             | TVS     |        |
|  |                 |   |           | Inorganic (mg/L) |                 |         |        |
|  |                 |   | acute     | chronic          |                 |         |        |
|  |                 | Ammonia                                 | TVS       | TVS              |                 |         |        |
|  |                 | Boron                                   | ---       | 0.75             |                 |         |        |
|  |                 | Chloride                                | ---       | 250              |                 |         |        |
|  |                 | Chlorine                                | 0.019     | 0.011            |                 |         |        |
|  |                 | Cyanide                                 | 0.005     | ---              |                 |         |        |
|  |                 | Nitrate                                 | 10        | ---              |                 |         |        |
|  |                 | Nitrite                                 | ---       | 0.05             |                 |         |        |
|  |                 | Phosphorus                              | ---       | 0.11             |                 |         |        |
|  |                 | Sulfate                                 | ---       | WS               |                 |         |        |
|  |                 | Sulfide                                 | ---       | 0.002            |                 |         |        |

  

| 5. Mainstem of West Fork Clear Creek from the confluence with Woods Creek to the confluence with Clear Creek.  |                 |   |           |          |                 |         |         |
|--|-----------------|---|-----------|----------|-----------------|---------|---------|
| COSPCL05   | Classifications | Physical and Biological                 |           |          | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                      | MWAT      | acute    |                 | chronic |         |
| Reviewable   | Aq Life Cold 1  | Temperature °C                          | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|  | Recreation E    |   | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Manganese(chronic) = 393 ug/L at the mouth of West Fork, and 1480 ug/L below Woods Creek, see section 38.6(4)(j) for manganese assessment locations. Chronic TVS applies throughout segment.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Zinc(acute) = e^(0.8404[ln(hardness)]+1.8810)<br>*Zinc(chronic) = e^(0.8404[ln(hardness)]+1.5127) | Water Supply    | D.O. (mg/L)                             | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|  |                 | D.O. (spawning)                         | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|  |                 | pH                                      | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|  |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*     | Chromium III(T) | 50      | ---     |
|  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|  |                 |   |           |          | Copper          | TVS     | TVS     |
|  |                 |   |           |          | Iron            | ---     | WS      |
|  |                 |   |           |          | Iron(T)         | ---     | 1000    |
|  |                 |   |           |          | Lead            | TVS     | TVS     |
|  |                 |   |           |          | Lead(T)         | 50      | ---     |
|  |                 |   |           |          | Manganese       | TVS     | varies* |
|  |                 |   |           |          | Mercury(T)      | ---     | 0.01    |
|  |                 |   |           |          | Molybdenum(T)   | ---     | 210     |
|  |                 |   |           |          | Nickel          | TVS     | TVS     |
|  |                 |   |           |          | Nickel(T)       | ---     | 100     |
|  |                 |   |           | Selenium | TVS             | TVS     |         |
|  |                 |   |           | Silver   | TVS             | TVS(tr) |         |
|  |                 |   |           | Uranium  | varies*         | varies* |         |
|  |                 |   |           | Zinc     | ---             | SSE*    |         |
|  |                 |   |           | Zinc     | SSE*            | ---     |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.





# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 9a. Mainstem of Fall River, including all tributaries and wetlands, from the source to the confluence with Clear Creek.  |  |                         |          |                 |               |        |      |
|--|--|-------------------------|----------|-----------------|---------------|--------|------|
| COSPCL09A  | Classifications                              | Physical and Biological |          |                 | Metals (ug/L) |        |      |
| Designation  | Agriculture                                  | DM                      | MWAT     | acute           | chronic       |        |      |
| Reviewable*  | Aq Life Cold 1                               | Temperature °C          | CS-I     | CS-I            | Arsenic       | 340    | ---  |
|  | Recreation E                                 |                         | acute    | chronic         | Arsenic(T)    | ---    | 0.02 |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Designation: 9/30/00 Baseline does not apply<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply                                 | D.O. (mg/L)             | ---      | 6.0             | Cadmium       | TVS    | TVS  |
|  | D.O. (spawning)                              | ---                     | 7.0      | Cadmium(T)      | 5.0           | ---    |      |
|  | pH   | 6.5 - 9.0               | ---      | Chromium III    | ---           | TVS    |      |
|  | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | 150*     | Chromium III(T) | 50            | ---    |      |
|  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---                     | 126      | Chromium VI     | TVS           | TVS    |      |
|  | Inorganic (mg/L)                             |                         |          | Copper          | TVS           | TVS    |      |
|  | acute  | chronic                 | Iron     | ---             | WS            |        |      |
|  | Ammonia                                      | TVS                     | TVS      | Iron(T)         | ---           | 1000   |      |
|  | Boron  | ---                     | 0.75     | Lead            | TVS           | TVS    |      |
|  | Chloride                                     | ---                     | 250      | Lead(T)         | 50            | ---    |      |
|  | Chlorine                                     | 0.019                   | 0.011    | Manganese       | TVS           | TVS/WS |      |
|  | Cyanide                                      | 0.005                   | ---      | Mercury(T)      | ---           | 0.01   |      |
|  | Nitrate                                      | 10                      | ---      | Molybdenum(T)   | ---           | 150    |      |
|  | Nitrite                                      | ---                     | 0.05     | Nickel          | TVS           | TVS    |      |
|  | Phosphorus                                   | ---                     | 0.11*    | Nickel(T)       | ---           | 100    |      |
| Sulfate  | ---  | WS                      | Selenium | TVS             | TVS           |        |      |
| Sulfide  | ---  | 0.002                   | Silver   | TVS             | TVS(tr)       |        |      |
|  |  |                         | Uranium  | varies*         | varies*       |        |      |
|  |  |                         | Zinc     | TVS             | TVS           |        |      |

  

| 9b. Mainstem of Trail Creek, including all tributaries and wetlands from the source to the confluence with Clear Creek.  |  |                         |          |                 |               |        |      |
|--|--|-------------------------|----------|-----------------|---------------|--------|------|
| COSPCL09B  | Classifications                              | Physical and Biological |          |                 | Metals (ug/L) |        |      |
| Designation  | Agriculture                                  | DM                      | MWAT     | acute           | chronic       |        |      |
| Reviewable*  | Aq Life Cold 1                               | Temperature °C          | CS-I     | CS-I            | Arsenic       | 340    | ---  |
|  | Recreation E                                 |                         | acute    | chronic         | Arsenic(T)    | ---    | 0.02 |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>*Designation: 9/30/00 Baseline does not apply<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply                                 | D.O. (mg/L)             | ---      | 6.0             | Cadmium       | TVS    | TVS  |
|  | D.O. (spawning)                              | ---                     | 7.0      | Cadmium(T)      | 5.0           | ---    |      |
|  | pH   | 6.5 - 9.0               | ---      | Chromium III    | ---           | TVS    |      |
|  | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | 150      | Chromium III(T) | 50            | ---    |      |
|  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---                     | 126      | Chromium VI     | TVS           | TVS    |      |
|  | Inorganic (mg/L)                             |                         |          | Copper          | TVS           | TVS    |      |
|  | acute  | chronic                 | Iron     | ---             | WS            |        |      |
|  | Ammonia                                      | TVS                     | TVS      | Iron(T)         | ---           | 1000   |      |
|  | Boron  | ---                     | 0.75     | Lead            | TVS           | TVS    |      |
|  | Chloride                                     | ---                     | 250      | Lead(T)         | 50            | ---    |      |
|  | Chlorine                                     | 0.019                   | 0.011    | Manganese       | TVS           | TVS/WS |      |
|  | Cyanide                                      | 0.005                   | ---      | Mercury(T)      | ---           | 0.01   |      |
|  | Nitrate                                      | 10                      | ---      | Molybdenum(T)   | ---           | 150    |      |
|  | Nitrite                                      | ---                     | 0.05     | Nickel          | TVS           | TVS    |      |
|  | Phosphorus                                   | ---                     | 0.11     | Nickel(T)       | ---           | 100    |      |
| Sulfate  | ---  | WS                      | Selenium | TVS             | TVS           |        |      |
| Sulfide  | ---  | 0.002                   | Silver   | TVS             | TVS(tr)       |        |      |
|  |  |                         | Uranium  | varies*         | varies*       |        |      |
|  |  |                         | Zinc     | TVS             | 200           |        |      |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 10. Mainstem of Chicago Creek, including all tributaries and wetlands, from the source to the confluence with Clear Creek, except for listings in Segment 19.   |  |                         |         |                                    |               |         |
|---|--|-------------------------|---------|------------------------------------|---------------|---------|
| COSPCL10  | Classifications                                | Physical and Biological |         |                                    | Metals (ug/L) |         |
| Designation   | Agriculture                                    | DM                      | MWAT    |                                    | acute         | chronic |
| Reviewable*   | Aq Life Cold 1<br>Recreation E<br>Water Supply | CS-I                    | CS-I    | Temperature °C                     | 340           | ---     |
|   |  | acute                   | chronic |                                    | ---           | 0.02    |
| Qualifiers:   |  | ---                     | 6.0     | D.O. (mg/L)                        | TVS           | TVS     |
| Other:  |  | ---                     | 7.0     | D.O. (spawning)                    | 5.0           | ---     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024  |  | 6.5 - 9.0               | ---     | pH                                 | ---           | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Designation: 9/30/00 Baseline does not apply<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | ---                     | 150*    | chlorophyll a (mg/m <sup>2</sup> ) | 50            | ---     |
|   |  | ---                     | 126     | E-ColiE. coli (per 100 mL)         | TVS           | TVS     |
|   |  | Inorganic (mg/L)        |         |                                    | TVS           | TVS     |
|   |  | acute                   | chronic |                                    | ---           | WS      |
|   |  | TVS                     | TVS     | Ammonia                            | ---           | 1000    |
|   |  | ---                     | 0.75    | Boron                              | TVS           | TVS     |
|   |  | ---                     | 250     | Chloride                           | 50            | ---     |
|   |  | 0.019                   | 0.011   | Chlorine                           | TVS           | TVS/WS  |
|   |  | 0.005                   | ---     | Cyanide                            | ---           | 0.01    |
|   |  | 10                      | ---     | Nitrate                            | ---           | 150     |
|   |  | ---                     | 0.05    | Nitrite                            | TVS           | TVS     |
|   |  | ---                     | 0.11*   | Phosphorus                         | ---           | 100     |
|   |  | ---                     | WS      | Sulfate                            | TVS           | TVS     |
|   |  | ---                     | 0.002   | Sulfide                            | TVS           | TVS(tr) |
|   |  |                         |         | Uranium                            | varies*       | varies* |
|   |  |                         |         | Zinc                               | TVS           | TVS     |
| 11. Mainstem of Clear Creek from a point just above the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado.  |  |                         |         |                                    |               |         |
| COSPCL11  | Classifications                                | Physical and Biological |         |                                    | Metals (ug/L) |         |
| Designation   | Agriculture                                    | DM                      | MWAT    |                                    | acute         | chronic |
| UP  | Aq Life Cold 1<br>Recreation E<br>Water Supply | CS-I                    | CS-I    | Temperature °C                     | 340           | ---     |
|   |  | acute                   | chronic |                                    | ---           | 0.02    |
| Qualifiers:   |  | ---                     | 6.0     | D.O. (mg/L)                        | TVS           | TVS     |
| Other:  |  | ---                     | 7.0     | D.O. (spawning)                    | 5.0           | ---     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024  |  | 6.5 - 9.0               | ---     | pH                                 | ---           | TVS     |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.<br>*Zinc(acute) = $0.978e^{(0.8537[\ln(\text{hardness}))+1.9467]}$<br>*Zinc(chronic) = $0.986e^{(0.8537[\ln(\text{hardness}))+1.8032]}$  |  | ---                     | ---     | chlorophyll a (mg/m <sup>2</sup> ) | 50            | ---     |
|   |  | ---                     | 126     | E-ColiE. coli (per 100 mL)         | TVS           | TVS     |
|   |  | Inorganic (mg/L)        |         |                                    | TVS           | TVS     |
|   |  | acute                   | chronic |                                    | ---           | 17      |
|   |  | TVS                     | TVS     | Ammonia                            | ---           | WS      |
|   |  | ---                     | 0.75    | Boron                              | ---           | 1000    |
|   |  | ---                     | 250     | Chloride                           | TVS           | TVS     |
|   |  | 0.019                   | 0.011   | Chlorine                           | 50            | ---     |
|   |  | 0.005                   | ---     | Cyanide                            | TVS           | TVS/WS  |
|   |  | 10                      | ---     | Nitrate                            | ---           | 0.01    |
|   |  | ---                     | 0.05    | Nitrite                            | ---           | 150     |
|   |  | ---                     | ---     | Phosphorus                         | TVS           | TVS     |
|   |  | ---                     | WS      | Sulfate                            | ---           | 100     |
|   |  | ---                     | 0.002   | Sulfide                            | TVS           | TVS     |
|   |  |                         |         | Uranium                            | varies*       | varies* |
|   |  |                         |         | Zinc                               | ---           | SSE*    |
|   |  |                         |         | Zinc                               | SSE*          | ---     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

12a. All tributaries to Clear Creek, including all wetlands, from the Argo Tunnel discharge to the Farmers Highline Canal diversion in Golden, Colorado, except for listings in Segments 12b, 13a and 13b.

| COSPCL12A   | Classifications                                | Physical and Biological                      |           |         | Metals (ug/L)   |         |                      |
|-------------|--|--|-----------|---------|-----------------|---------|----------------------|
| Designation | Agriculture                                    |  | DM        | MWAT    |                 | acute   | chronic              |
| Reviewable* | Aq Life Cold 2<br>Recreation E<br>Water Supply | Temperature °C                               | CS-II     | CS-II   | Arsenic         | 340     | ---                  |
| Qualifiers: |  |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
| Other:      |  | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS                  |
|             |  | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---                  |
|             |  | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS                  |
|             |  | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150*    | Chromium III(T) | 50      | ---                  |
|             |  | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS                  |
|             |  |  |           |         | Copper          | TVS     | TVS                  |
|             |  | Inorganic (mg/L)                             |           |         | Iron            | ---     | WS                   |
|             |  |  | acute     | chronic | Iron(T)         | ---     | 1000                 |
|             |  | Ammonia                                      | TVS       | TVS     | Lead            | TVS     | TVS                  |
|             |  | Boron  | ---       | 0.75    | Lead(T)         | 50      | ---                  |
|             |  | Chloride                                     | ---       | 250     | Manganese       | TVS     | TVS/WS               |
|             |  | Chlorine                                     | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01                 |
|             |  | Cyanide                                      | 0.005     | ---     | Molybdenum(T)   | ---     | 150                  |
|             |  | Nitrate                                      | 10        | ---     | Nickel          | TVS     | TVS                  |
|             |  | Nitrite                                      | ---       | 0.05    | Nickel(T)       | ---     | 100                  |
|             |  | Phosphorus                                   | ---       | 0.11*   | Selenium        | TVS     | TVS                  |
|             |  | Sulfate                                      | ---       | WS      | Silver          | TVS     | TVS(tr)              |
|             |  | Sulfide                                      | ---       | 0.002   | Uranium         | varies* | varies*              |
|             |  |  |           |         | Zinc            | TVS     | TVS                  |

12b. Beaver Brook, from the source to the confluence with Soda Creek, and Soda Creek, from the source to the confluence with Clear Creek.

| COSPCL12B   | Classifications                                | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
|-------------|--|--|-----------|---------|-----------------|---------|---------|
| Designation | Agriculture                                    |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable* | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                               | CS-I      | CS-I    | Arsenic         | 340     | ---     |
| Qualifiers: |  |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:      |  | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|             |  | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
|             |  | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|             |  | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150*    | Chromium III(T) | 50      | ---     |
|             |  | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|             |  |  |           |         | Copper          | TVS     | TVS     |
|             |  | Inorganic (mg/L)                             |           |         | Iron            | ---     | WS      |
|             |  |  | acute     | chronic | Iron(T)         | ---     | 1000    |
|             |  | Ammonia                                      | TVS       | TVS     | Lead            | TVS     | TVS     |
|             |  | Boron  | ---       | 0.75    | Lead(T)         | 50      | ---     |
|             |  | Chloride                                     | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|             |  | Chlorine                                     | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|             |  | Cyanide                                      | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|             |  | Nitrate                                      | 10        | ---     | Nickel          | TVS     | TVS     |
|             |  | Nitrite                                      | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|             |  | Phosphorus                                   | ---       | 0.11*   | Selenium        | TVS     | TVS     |
|             |  | Sulfate                                      | ---       | WS      | Silver          | TVS     | TVS(tr) |
|             |  | Sulfide                                      | ---       | 0.002   | Uranium         | varies* | varies* |
|             |  |  |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 13a. Mainstem of North Clear Creek, including all tributaries and wetlands, from its source to its confluence with Chase Gulch, and Four Mile Gulch, including all tributaries and wetlands, from their sources to their confluence with North Clear Creek and Eureka Gulch, including all tributaries and wetlands, from its source to its confluence with Gregory Gulch. |  |  |              |                |                 |                      |
|--|--|--|--------------|----------------|-----------------|----------------------|
| COSPCL13A  | Classifications                                | Physical and Biological                      |              |                | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    |  | DM           | MWAT           |                 | acute      chronic   |
| Reviewable*  | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                               | CS-I         | CS-I           | Arsenic         | 340      ---         |
|  |  |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---      0.02        |
|  |  | D.O. (mg/L)                                  | ---          | 6.0            | Cadmium         | TVS      TVS         |
| Qualifiers:  |  | D.O. (spawning)                              | ---          | 7.0            | Cadmium(T)      | 5.0      ---         |
| Other:   |  | pH   | 6.5 - 9.0    | ---            | Chromium III    | ---      TVS         |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024   |  | chlorophyll a (mg/m <sup>2</sup> )           | ---          | 150            | Chromium III(T) | 50      ---          |
|  |  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium VI     | TVS      TVS         |
|  |  |  |              |                | Copper          | TVS      TVS         |
|  |  | Inorganic (mg/L)                             |              |                | Iron            | ---      WS          |
|  |  |  | <b>acute</b> | <b>chronic</b> | Iron(T)         | ---      1000        |
| *Designation: 9/30/00 Baseline does not apply<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.  |  | Ammonia                                      | TVS          | TVS            | Lead            | TVS      TVS         |
|  |  | Boron  | ---          | 0.75           | Lead(T)         | 50      ---          |
|  |  | Chloride                                     | ---          | 250            | Manganese       | TVS      TVS/WS      |
|  |  | Chlorine                                     | 0.019        | 0.011          | Mercury(T)      | ---      0.01        |
|  |  | Cyanide                                      | 0.005        | ---            | Molybdenum(T)   | ---      150         |
|  |  | Nitrate                                      | 10           | ---            | Nickel          | TVS      TVS         |
|  |  | Nitrite                                      | ---          | 0.05           | Nickel(T)       | ---      100         |
|  |  | Phosphorus                                   | ---          | 0.11           | Selenium        | TVS      TVS         |
|  |  | Sulfate                                      | ---          | WS             | Silver          | TVS      TVS(tr)     |
|  |  | Sulfide                                      | ---          | 0.002          | Uranium         | varies*      varies* |
|  |  |  |              |                | Zinc            | TVS      TVS         |

  

| 13b. Mainstem of North Clear Creek including all tributaries and wetlands from a point just below the confluence with Chase Gulch to the confluence with Clear Creek, except for the listings in Segment 13a.  |  |  |              |                |                 |                      |
|--|--|--|--------------|----------------|-----------------|----------------------|
| COSPCL13B  | Classifications                                | Physical and Biological                      |              |                | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    |  | DM           | MWAT           |                 | acute      chronic   |
| UP   | Aq Life Cold 2<br>Water Supply<br>Recreation E | Temperature °C                               | CS-I         | CS-I           | Arsenic         | 340      ---         |
|  |  |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---      0.02        |
|  |  | D.O. (mg/L)                                  | ---          | 6.0            | Cadmium         | TVS      TVS         |
| Qualifiers:  |  | D.O. (spawning)                              | ---          | 7.0            | Cadmium(T)      | 5.0      ---         |
| Water + Fish Standards   |  | pH   | 6.5 - 9.0    | ---            | Chromium III    | ---      TVS         |
| Other:   |  | chlorophyll a (mg/m <sup>2</sup> )           | ---          | 150*           | Chromium III(T) | 50      ---          |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024   |  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium VI     | TVS      TVS         |
|  |  |  |              |                | Copper          | ---      64          |
|  |  | Inorganic (mg/L)                             |              |                | Iron            | ---      WS          |
|  |  |  | <b>acute</b> | <b>chronic</b> | Iron(T)         | ---      5400        |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | Ammonia                                      | TVS          | TVS            | Lead            | TVS      TVS         |
|  |  | Boron  | ---          | 0.75           | Lead(T)         | 50      ---          |
|  |  | Chloride                                     | ---          | 250            | Manganese       | TVS      TVS/WS      |
|  |  | Chlorine                                     | 0.019        | 0.011          | Mercury(T)      | ---      0.01        |
|  |  | Cyanide                                      | 0.005        | ---            | Molybdenum(T)   | ---      150         |
|  |  | Nitrate                                      | 10           | ---            | Nickel          | TVS      TVS         |
|  |  | Nitrite                                      | ---          | 0.05           | Nickel(T)       | ---      100         |
|  |  | Phosphorus                                   | ---          | 0.11*          | Selenium        | TVS      TVS         |
|  |  | Sulfate                                      | ---          | WS             | Silver          | TVS      TVS(tr)     |
|  |  | Sulfide                                      | ---          | 0.002          | Uranium         | varies*      varies* |
|  |  |  |              |                | Zinc            | ---      740         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 14a. Mainstem of Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the Denver Water conduit #16 crossing. |                 |                         |         |                                     |               |                      |
|--|-----------------|-------------------------|---------|-------------------------------------|---------------|----------------------|
| COSPCL14A  | Classifications | Physical and Biological |         |                                     | Metals (ug/L) |                      |
| Designation  | Agriculture     | DM                      | MWAT    |                                     | acute         | chronic              |
| UP   | Aq Life Warm 2  | WS-II                   | WS-II   | Temperature °C                      | 340           | ---                  |
|  | Recreation N    | acute                   | chronic |                                     | ---           | 0.02-10 <sup>A</sup> |
|  | Water Supply    | ---                     | 5.0     | D.O. (mg/L)                         | TVS           | TVS                  |
| <b>Qualifiers:</b>   |                 | 6.5 - 9.0               | ---     | pH                                  | 5.0           | ---                  |
| <b>Other:</b>  |                 | ---                     | ---     | chlorophyll a (mg/m <sup>2</sup> )  | ---           | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.   |                 | ---                     | 630     | <u>E.-Coli</u> E. coli (per 100 mL) | 50            | ---                  |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Inorganic (mg/L)        |         |                                     | TVS           | TVS                  |
|  |                 | acute                   | chronic |                                     | TVS           | TVS                  |
|  |                 | TVS                     | TVS     | Ammonia                             | ---           | WS                   |
|  |                 | ---                     | 0.75    | Boron                               | ---           | 1000                 |
|  |                 | ---                     | 250     | Chloride                            | TVS           | TVS                  |
|  |                 | 0.019                   | 0.011   | Chlorine                            | 50            | ---                  |
|  |                 | 0.005                   | ---     | Cyanide                             | TVS           | 244                  |
|  |                 | 10                      | ---     | Nitrate                             | ---           | 0.01                 |
|  |                 | ---                     | 0.5     | Nitrite                             | ---           | 150                  |
|  |                 | ---                     | ---     | Phosphorus                          | TVS           | TVS                  |
|  |                 | ---                     | WS      | Sulfate                             | ---           | 100                  |
|  |                 | ---                     | 0.002   | Sulfide                             | TVS           | TVS                  |
|  |                 |                         |         |                                     | TVS           | TVS                  |
|  |                 |                         |         |                                     | varies*       | varies*              |
|  |                 |                         |         |                                     | TVS           | TVS                  |

  

| 14b. Mainstem of Clear Creek from the Denver Water conduit #16 crossing to a point just below Youngfield Street in Wheat Ridge, Colorado. |                 |                         |         |                                     |               |         |
|---|-----------------|-------------------------|---------|-------------------------------------|---------------|---------|
| COSPCL14B   | Classifications | Physical and Biological |         |                                     | Metals (ug/L) |         |
| Designation   | Agriculture     | DM                      | MWAT    |                                     | acute         | chronic |
| UP  | Aq Life Warm 2  | WS-II                   | WS-II   | Temperature °C                      | 340           | ---     |
|   | Recreation E    | acute                   | chronic |                                     | ---           | 0.02    |
|   | Water Supply    | ---                     | 5.0     | D.O. (mg/L)                         | TVS           | TVS     |
| <b>Qualifiers:</b>  |                 | 6.5 - 9.0               | ---     | pH                                  | 5.0           | ---     |
| <b>Water + Fish Standards</b>   |                 | ---                     | ---     | chlorophyll a (mg/m <sup>2</sup> )  | ---           | TVS     |
| <b>Other:</b>   |                 | ---                     | 126     | <u>E.-Coli</u> E. coli (per 100 mL) | 50            | ---     |
| Temporary Modification(s):  |                 | Inorganic (mg/L)        |         |                                     | TVS           | TVS     |
| Arsenic(chronic) = hybrid   |                 | acute                   | chronic |                                     | TVS           | TVS     |
| Expiration Date of 12/31/2024   |                 | TVS                     | TVS     | Ammonia                             | ---           | WS      |
| *Uranium(acute) = See 38.5(3) for details.  |                 | ---                     | 0.75    | Boron                               | ---           | 1000    |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | ---                     | 250     | Chloride                            | TVS           | TVS     |
|   |                 | 0.019                   | 0.011   | Chlorine                            | 50            | ---     |
|   |                 | 0.005                   | ---     | Cyanide                             | TVS           | 244     |
|   |                 | 10                      | ---     | Nitrate                             | ---           | 0.01    |
|   |                 | ---                     | 0.5     | Nitrite                             | ---           | 150     |
|   |                 | ---                     | ---     | Phosphorus                          | TVS           | TVS     |
|   |                 | ---                     | WS      | Sulfate                             | ---           | 100     |
|   |                 | ---                     | 0.002   | Sulfide                             | TVS           | TVS     |
|   |                 |                         |         |                                     | TVS           | TVS     |
|   |                 |                         |         |                                     | varies*       | varies* |
|   |                 |                         |         |                                     | TVS           | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 15. Mainstem of Clear Creek from Youngfield Street in Wheat Ridge, Colorado, to the confluence with the South Platte River. |   |                         |         |                 |               |         |         |
|---|---|-------------------------|---------|-----------------|---------------|---------|---------|
| COSPCL15  | Classifications   | Physical and Biological |         |                 | Metals (ug/L) |         |         |
| Designation   | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply |                         | DM      | MWAT            |               | acute   | chronic |
| UP  |   | Temperature °C          | WS-II   | WS-II           | Arsenic       | 340     | ---     |
|   |   |                         | acute   | chronic         | Arsenic(T)    | ---     | 0.02    |
| <b>Qualifiers:</b>  | D.O. (mg/L)   | ---                     | 5.0     | Cadmium         | TVS           | TVS     |         |
| <b>Other:</b>   | pH  | 6.5 - 9.0               | ---     | Cadmium(T)      | 5.0           | ---     |         |
| Temporary Modification(s):  | chlorophyll a (mg/m <sup>2</sup> )                            | ---                     | ---     | Chromium III    | ---           | TVS     |         |
| Arsenic(chronic) = hybrid   | <u>E.-Coli</u> E. coli (per 100 mL)                           | ---                     | 126     | Chromium III(T) | 50            | ---     |         |
| Expiration Date of 12/31/2024   |   | Inorganic (mg/L)        |         | Chromium VI     | TVS           | TVS     |         |
| *Uranium(acute) = See 38.5(3) for details.  |   | acute                   | chronic | Copper          | TVS           | TVS     |         |
| *Uranium(chronic) = See 38.5(3) for details.  | Ammonia   | TVS                     | TVS     | Iron            | ---           | WS      |         |
|   | Boron   | ---                     | 0.75    | Iron(T)         | ---           | 1000    |         |
|   | Chloride  | ---                     | 250     | Lead            | TVS           | TVS     |         |
|   | Chlorine  | 0.019                   | 0.011   | Lead(T)         | 50            | ---     |         |
|   | Cyanide   | 0.005                   | ---     | Manganese       | TVS           | TVS/WS  |         |
|   | Nitrate   | 10                      | ---     | Mercury(T)      | ---           | 0.01    |         |
|   | Nitrite   | ---                     | 0.5     | Molybdenum(T)   | ---           | 150     |         |
|   | Phosphorus  | ---                     | ---     | Nickel          | TVS           | TVS     |         |
|   | Sulfate   | ---                     | WS      | Nickel(T)       | ---           | 100     |         |
|   | Sulfide   | ---                     | 0.002   | Selenium        | TVS           | TVS     |         |
|   |   |                         |         | Silver          | TVS           | TVS     |         |
|   |   |                         |         | Uranium         | varies*       | varies* |         |
|   |   |                         |         | Zinc            | TVS           | TVS     |         |

  

| 16a. Mainstem of Lena Gulch including all tributaries and wetlands from its source to the inlet of Maple Grove Reservoir. |   |                         |         |                 |               |         |                      |
|---|---|-------------------------|---------|-----------------|---------------|---------|----------------------|
| COSPCL16A   | Classifications   | Physical and Biological |         |                 | Metals (ug/L) |         |                      |
| Designation   | Agriculture<br>Aq Life Warm 2<br>Recreation E<br>Water Supply |                         | DM      | MWAT            |               | acute   | chronic              |
| UP  |   | Temperature °C          | WS-II   | WS-II           | Arsenic       | 340     | ---                  |
|   |   |                         | acute   | chronic         | Arsenic(T)    | ---     | 0.02-10 <sup>A</sup> |
| <b>Qualifiers:</b>  | D.O. (mg/L)   | ---                     | 5.0     | Cadmium         | TVS           | TVS     |                      |
| <b>Other:</b>   | pH  | 6.5 - 9.0               | ---     | Cadmium(T)      | 5.0           | ---     |                      |
| Temporary Modification(s):  | chlorophyll a (mg/m <sup>2</sup> )                            | ---                     | 150     | Chromium III    | ---           | TVS     |                      |
| Arsenic(chronic) = hybrid   | <u>E.-Coli</u> E. coli (per 100 mL)                           | ---                     | 126     | Chromium III(T) | 50            | ---     |                      |
| Expiration Date of 12/31/2024   |   | Inorganic (mg/L)        |         | Chromium VI     | TVS           | TVS     |                      |
| *Uranium(acute) = See 38.5(3) for details.  |   | acute                   | chronic | Copper          | TVS           | TVS     |                      |
| *Uranium(chronic) = See 38.5(3) for details.  | Ammonia   | TVS                     | TVS     | Iron            | ---           | WS      |                      |
|   | Boron   | ---                     | 0.75    | Iron(T)         | ---           | 1000    |                      |
|   | Chloride  | ---                     | 250     | Lead            | TVS           | TVS     |                      |
|   | Chlorine  | 0.019                   | 0.011   | Lead(T)         | 50            | ---     |                      |
|   | Cyanide   | 0.005                   | ---     | Manganese       | TVS           | TVS/WS  |                      |
|   | Nitrate   | 10                      | ---     | Mercury(T)      | ---           | 0.01    |                      |
|   | Nitrite   | ---                     | 0.05    | Molybdenum(T)   | ---           | 150     |                      |
|   | Phosphorus  | ---                     | 0.17    | Nickel          | TVS           | TVS     |                      |
|   | Sulfate   | ---                     | WS      | Nickel(T)       | ---           | 100     |                      |
|   | Sulfide   | ---                     | 0.002   | Selenium        | TVS           | TVS     |                      |
|   |   |                         |         | Silver          | TVS           | TVS     |                      |
|   |   |                         |         | Uranium         | varies*       | varies* |                      |
|   |   |                         |         | Zinc            | TVS           | TVS     |                      |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

16b. All tributaries to Clear Creek from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for listings in Segments 16a, 17b, 18a and 18b.

| COSPCL16B          | Classifications | Physical and Biological                      |                         |         | Metals (ug/L)   |         |         |
|--------------------|-----------------|--|-------------------------|---------|-----------------|---------|---------|
| Designation        | Agriculture     |  | DM                      | MWAT    |                 | acute   | chronic |
| UP                 | Aq Life Warm 2  | Temperature °C                               | WS-II                   | WS-II   | Arsenic         | 340     | ---     |
|                    | Recreation E    |  | acute                   | chronic | Arsenic(T)      | ---     | 100     |
| <b>Qualifiers:</b> |                 | D.O. (mg/L)                                  | ---                     | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Other:</b>      |                 | pH   | 6.5 - 9.0               | ---     | Chromium III    | TVS     | TVS     |
|                    |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | 150     | Chromium III(T) | ---     | 100     |
|                    |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---                     | 126     | Chromium VI     | TVS     | TVS     |
|                    |                 |  | <b>Inorganic (mg/L)</b> |         | Copper          | TVS     | TVS     |
|                    |                 |  | acute                   | chronic | Iron(T)         | ---     | 1000    |
|                    |                 | Ammonia                                      | TVS                     | TVS     | Lead            | TVS     | TVS     |
|                    |                 | Boron  | ---                     | 0.75    | Manganese       | TVS     | TVS     |
|                    |                 | Chloride                                     | ---                     | ---     | Mercury(T)      | ---     | 0.01    |
|                    |                 | Chlorine                                     | 0.019                   | 0.011   | Molybdenum(T)   | ---     | 150     |
|                    |                 | Cyanide                                      | 0.005                   | ---     | Nickel          | TVS     | TVS     |
|                    |                 | Nitrate                                      | 100                     | ---     | Selenium        | TVS     | TVS     |
|                    |                 | Nitrite                                      | ---                     | 0.5     | Silver          | TVS     | TVS     |
|                    |                 | Phosphorus                                   | ---                     | 0.17    | Uranium         | varies* | varies* |
|                    |                 | Sulfate                                      | ---                     | ---     | Zinc            | TVS     | TVS     |
|                    |                 | Sulfide                                      | ---                     | 0.002   |                 |         |         |

\*Uranium(acute) = See 38.5(3) for details.  
\*Uranium(chronic) = See 38.5(3) for details.

17a. Arvada Reservoir.

| COSPCL17A                     | Classifications | Physical and Biological                      |                         |         | Metals (ug/L)   |         |         |
|-------------------------------|-----------------|--|-------------------------|---------|-----------------|---------|---------|
| Designation                   | Agriculture     |  | DM                      | MWAT    |                 | acute   | chronic |
| UP                            | Aq Life Cold 2  | Temperature °C                               | CLL                     | CLL     | Arsenic         | 340     | ---     |
|                               | Recreation E    |  | acute                   | chronic | Arsenic(T)      | ---     | 0.02    |
|                               | Water Supply    | D.O. (mg/L)                                  | ---                     | 6.0     | Cadmium         | TVS     | TVS     |
|                               | DUWS            | D.O. (spawning)                              | ---                     | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>            |                 | pH   | 6.5 - 9.0               | ---     | Chromium III    | ---     | TVS     |
| <b>Water + Fish Standards</b> |                 | chlorophyll a (ug/L)                         | ---                     | 8       | Chromium III(T) | 50      | ---     |
| <b>Other:</b>                 |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---                     | 126     | Chromium VI     | TVS     | TVS     |
|                               |                 |  | <b>Inorganic (mg/L)</b> |         | Copper          | TVS     | TVS     |
|                               |                 |  | acute                   | chronic | Iron            | ---     | WS      |
|                               |                 | Ammonia                                      | TVS                     | TVS     | Iron(T)         | ---     | 1000    |
|                               |                 | Boron  | ---                     | 0.75    | Lead            | TVS     | TVS     |
|                               |                 | Chloride                                     | ---                     | 250     | Lead(T)         | 50      | ---     |
|                               |                 | Chlorine                                     | 0.019                   | 0.011   | Manganese       | TVS     | TVS/WS  |
|                               |                 | Cyanide                                      | 0.005                   | ---     | Mercury(T)      | ---     | 0.01    |
|                               |                 | Nitrate                                      | 10                      | ---     | Molybdenum(T)   | ---     | 150     |
|                               |                 | Nitrite                                      | ---                     | 0.05    | Nickel          | TVS     | TVS     |
|                               |                 | Phosphorus                                   | ---                     | 0.025   | Nickel(T)       | ---     | 100     |
|                               |                 | Sulfate                                      | ---                     | WS      | Selenium        | TVS     | TVS     |
|                               |                 | Sulfide                                      | ---                     | 0.002   | Silver          | TVS     | TVS(tr) |
|                               |                 |  |                         |         | Uranium         | varies* | varies* |
|                               |                 |  |                         |         | Zinc            | TVS     | TVS     |

\*Uranium(acute) = See 38.5(3) for details.  
\*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 17b. Mainstem of Ralston Creek, including all tributaries and wetlands, from the source to the inlet of Arvada Reservoir.  |  |                                    |           |         |                 |         |         |
|--|--|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPCL17B  | Classifications                                | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture                                    |                                    | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 2<br>Recreation E<br>Water Supply | Temperature °C                     | CS-II     | CS-II   | Arsenic         | 340     | ---     |
| Qualifiers:  |  | D.O. (mg/L)                        | ---       | 6.0     | Arsenic(T)      | ---     | 0.02    |
| Water + Fish Standards   |  | D.O. (spawning)                    | ---       | 7.0     | Cadmium         | TVS     | TVS     |
| Other:   |  | pH                                 | 6.5 - 9.0 |         | Cadmium(T)      | 5.0     | ---     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150     | Chromium III    | ---     | TVS     |
|  |  | E-ColiE. coli (per 100 mL)         | ---       | 126     | Chromium III(T) | 50      | ---     |
|  |  | Inorganic (mg/L)                   |           |         | Chromium VI     | TVS     | TVS     |
|  |  | Ammonia                            | acute     | chronic | Copper          | TVS     | TVS     |
|  |  | Boron                              | ---       | 0.75    | Iron            | ---     | WS      |
|  |  | Chloride                           | ---       | 250     | Iron(T)         | ---     | 1000    |
|  |  | Chlorine                           | 0.019     | 0.011   | Lead            | TVS     | TVS     |
|  |  | Cyanide                            | 0.005     | ---     | Lead(T)         | 50      | ---     |
|  |  | Nitrate                            | 10        | ---     | Manganese       | TVS     | TVS/WS  |
|  |  | Nitrite                            | ---       | 0.05    | Mercury(T)      | ---     | 0.01    |
|  |  | Phosphorus                         | ---       | 0.11    | Molybdenum(T)   | ---     | 150     |
|  |  | Sulfate                            | ---       | WS      | Nickel          | TVS     | TVS     |
|  |  | Sulfide                            | ---       | 0.002   | Nickel(T)       | ---     | 100     |
|  |  |                                    |           |         | Selenium        | TVS     | TVS     |
|  |  |                                    |           |         | Silver          | TVS     | TVS(tr) |
|  |  |                                    |           |         | Uranium         | varies* | varies* |
|  |  |                                    |           |         | Zinc            | TVS     | TVS     |

  

| 18a. Mainstem of Ralston Creek, including all tributaries and wetlands, from the outlet of Arvada Reservoir to the confluence with Clear Creek.  |  |                                    |           |         |                 |         |         |
|--|--|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPCL18A  | Classifications                                | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture                                    |                                    | DM        | MWAT    |                 | acute   | chronic |
| UP   | Aq Life Warm 1<br>Recreation E<br>Water Supply | Temperature °C                     | WS-II     | WS-II   | Arsenic         | 340     | ---     |
| Qualifiers:  |  | D.O. (mg/L)                        | ---       | 5.0     | Arsenic(T)      | ---     | 0.02    |
| Other:   |  | pH                                 | 6.5 - 9.0 |         | Cadmium         | TVS     | TVS     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150     | Cadmium(T)      | 5.0     | ---     |
|  |  | E-ColiE. coli (per 100 mL)         | ---       | 126     | Chromium III    | ---     | TVS     |
|  |  | Inorganic (mg/L)                   |           |         | Chromium III(T) | 50      | ---     |
|  |  | Ammonia                            | acute     | chronic | Chromium VI     | TVS     | TVS     |
|  |  | Boron                              | ---       | 0.75    | Copper          | TVS     | TVS     |
|  |  | Chloride                           | ---       | 250     | Iron            | ---     | WS      |
|  |  | Chlorine                           | 0.019     | 0.011   | Iron(T)         | ---     | 1000    |
|  |  | Cyanide                            | 0.005     | ---     | Lead            | TVS     | TVS     |
|  |  | Nitrate                            | 10        | ---     | Lead(T)         | 50      | ---     |
|  |  | Nitrite                            | ---       | 0.5     | Manganese       | TVS     | TVS/WS  |
|  |  | Phosphorus                         | ---       | 0.17    | Mercury(T)      | ---     | 0.01    |
|  |  | Sulfate                            | ---       | WS      | Molybdenum(T)   | ---     | 150     |
|  |  | Sulfide                            | ---       | 0.002   | Nickel          | TVS     | TVS     |
|  |  |                                    |           |         | Nickel(T)       | ---     | 100     |
|  |  |                                    |           |         | Selenium        | TVS     | TVS     |
|  |  |                                    |           |         | Silver          | TVS     | TVS     |
|  |  |                                    |           |         | Uranium         | varies* | varies* |
|  |  |                                    |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 18b. Mainstem of Leyden Creek and Van Bibber Creek from their source to their confluence with Ralston Creek. Mainstem of Little Dry Creek from its source to its confluence with Clear Creek. |   |  |           |       |               |                      |
|---|---|--|-----------|-------|---------------|----------------------|
| COSPCL18B   | Classifications   | Physical and Biological                      |           |       | Metals (ug/L) |                      |
| Designation   | Agriculture<br>Aq Life Warm 2<br>Recreation E<br>Water Supply | DM   | MWAT      | acute | chronic       |                      |
| UP  |   |  | WS-II     | WS-II | ---           | ---                  |
| <b>Qualifiers:</b>  |   | Temperature °C                               | ---       | 5.0   | ---           | ---                  |
| <b>Other:</b>   |   | D.O. (mg/L)                                  | ---       | 5.0   | ---           | ---                  |
| *Uranium(acute) = See 38.5(3) for details.  |   | pH   | 6.5 - 9.0 | ---   | ---           | ---                  |
| *Uranium(chronic) = See 38.5(3) for details.  |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150   | ---           | 0.02-10 <sup>A</sup> |
|   |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126   | ---           | ---                  |
|   |   | Inorganic (mg/L)                             |           |       | ---           | ---                  |
|   |   | acute  | chronic   | ---   | ---           | ---                  |
|   |   | Ammonia                                      | TVS       | TVS   | ---           | ---                  |
|   |   | Boron  | ---       | 0.75  | ---           | ---                  |
|   |   | Chloride                                     | ---       | 250   | ---           | ---                  |
|   |   | Chlorine                                     | 0.019     | 0.011 | ---           | ---                  |
|   |   | Cyanide                                      | 0.005     | ---   | ---           | ---                  |
|   |   | Nitrate                                      | 10        | ---   | ---           | ---                  |
|   |   | Nitrite                                      | ---       | 0.5   | ---           | ---                  |
|   |   | Phosphorus                                   | ---       | 0.17  | ---           | ---                  |
|   |   | Sulfate                                      | ---       | WS    | ---           | ---                  |
|   |   | Sulfide                                      | ---       | 0.002 | ---           | ---                  |
|   |   | Arsenic                                      | ---       | ---   | ---           | ---                  |
|   |   | Arsenic(T)                                   | ---       | ---   | ---           | ---                  |
|   |   | Cadmium                                      | ---       | ---   | ---           | ---                  |
|   |   | Cadmium(T)                                   | ---       | ---   | ---           | ---                  |
|   |   | Chromium III                                 | ---       | ---   | ---           | ---                  |
|   |   | Chromium III(T)                              | ---       | ---   | ---           | ---                  |
|   |   | Chromium VI                                  | ---       | ---   | ---           | ---                  |
|   |   | Copper                                       | ---       | ---   | ---           | ---                  |
|   |   | Iron   | ---       | ---   | ---           | ---                  |
|   |   | Iron(T)                                      | ---       | ---   | ---           | ---                  |
|   |   | Lead   | ---       | ---   | ---           | ---                  |
|   |   | Lead(T)                                      | ---       | ---   | ---           | ---                  |
|   |   | Manganese                                    | ---       | ---   | ---           | ---                  |
|   |   | Mercury(T)                                   | ---       | ---   | ---           | ---                  |
|   |   | Molybdenum(T)                                | ---       | ---   | ---           | ---                  |
|   |   | Nickel                                       | ---       | ---   | ---           | ---                  |
|   |   | Nickel(T)                                    | ---       | ---   | ---           | ---                  |
|   |   | Selenium                                     | ---       | ---   | ---           | ---                  |
|   |   | Silver                                       | ---       | ---   | ---           | ---                  |
|   |   | Uranium                                      | ---       | ---   | ---           | ---                  |
|   |   | Zinc   | ---       | ---   | ---           | ---                  |

  

| 19. All tributaries to Clear Creek, including wetlands, within the Mt. Evans Wilderness Area. |   |  |           |       |               |     |
|---|---|--|-----------|-------|---------------|-----|
| COSPCL19  | Classifications   | Physical and Biological                      |           |       | Metals (ug/L) |     |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute | chronic       |     |
| OW  |   |  | CS-I      | CS-I  | ---           | --- |
| <b>Qualifiers:</b>  |   | Temperature °C                               | ---       | 6.0   | ---           | --- |
| <b>Other:</b>   |   | D.O. (mg/L)                                  | ---       | 6.0   | ---           | --- |
| *Uranium(acute) = See 38.5(3) for details.  |   | D.O. (spawning)                              | ---       | 7.0   | ---           | --- |
| *Uranium(chronic) = See 38.5(3) for details.  |   | pH   | 6.5 - 9.0 | ---   | ---           | --- |
|   |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150   | ---           | --- |
|   |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126   | ---           | --- |
|   |   | Inorganic (mg/L)                             |           |       | ---           | --- |
|   |   | acute  | chronic   | ---   | ---           | --- |
|   |   | Ammonia                                      | TVS       | TVS   | ---           | --- |
|   |   | Boron  | ---       | 0.75  | ---           | --- |
|   |   | Chloride                                     | ---       | 250   | ---           | --- |
|   |   | Chlorine                                     | 0.019     | 0.011 | ---           | --- |
|   |   | Cyanide                                      | 0.005     | ---   | ---           | --- |
|   |   | Nitrate                                      | 10        | ---   | ---           | --- |
|   |   | Nitrite                                      | ---       | 0.05  | ---           | --- |
|   |   | Phosphorus                                   | ---       | 0.11  | ---           | --- |
|   |   | Sulfate                                      | ---       | 250   | ---           | --- |
|   |   | Sulfide                                      | ---       | 0.002 | ---           | --- |
|   |   | Arsenic                                      | ---       | ---   | ---           | --- |
|   |   | Arsenic(T)                                   | ---       | ---   | ---           | --- |
|   |   | Cadmium                                      | ---       | ---   | ---           | --- |
|   |   | Cadmium(T)                                   | ---       | ---   | ---           | --- |
|   |   | Chromium III                                 | ---       | ---   | ---           | --- |
|   |   | Chromium III(T)                              | ---       | ---   | ---           | --- |
|   |   | Chromium VI                                  | ---       | ---   | ---           | --- |
|   |   | Copper                                       | ---       | ---   | ---           | --- |
|   |   | Iron   | ---       | ---   | ---           | --- |
|   |   | Iron(T)                                      | ---       | ---   | ---           | --- |
|   |   | Lead   | ---       | ---   | ---           | --- |
|   |   | Lead(T)                                      | ---       | ---   | ---           | --- |
|   |   | Manganese                                    | ---       | ---   | ---           | --- |
|   |   | Mercury(T)                                   | ---       | ---   | ---           | --- |
|   |   | Molybdenum(T)                                | ---       | ---   | ---           | --- |
|   |   | Nickel                                       | ---       | ---   | ---           | --- |
|   |   | Nickel(T)                                    | ---       | ---   | ---           | --- |
|   |   | Selenium                                     | ---       | ---   | ---           | --- |
|   |   | Silver                                       | ---       | ---   | ---           | --- |
|   |   | Uranium                                      | ---       | ---   | ---           | --- |
|   |   | Zinc   | ---       | ---   | ---           | --- |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

| 20. Lakes and reservoirs in the Clear Creek system that are within the boundary of the Mt. Evans Wilderness Area.   |                 |  |              |                |                 |                      |              |
|---|-----------------|--|--------------|----------------|-----------------|----------------------|--------------|
| COSPCL20  | Classifications | Physical and Biological                    |              |                | Metals (ug/L)   |                      |              |
| Designation   | Agriculture     |  | DM           | MWAT           |                 | acute      chronic   |              |
| OW  | Aq Life Cold 1  | Temperature °C                             | CL           | CL             | Arsenic         | 340      ---         |              |
|   | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---      0.02        |              |
|   | Water Supply    | D.O. (mg/L)                                | ---          | 6.0            | Cadmium         | TVS      TVS         |              |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                            | ---          | 7.0            | Cadmium(T)      | 5.0      ---         |              |
| <b>Other:</b>   |                 | pH   | 6.5 - 9.0    | ---            | Chromium III    | ---      TVS         |              |
| <p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p> |                 | chlorophyll a (ug/L)                       | ---          | 8*             | Chromium III(T) | 50      ---          |              |
|   |                 | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium VI     | TVS      TVS         |              |
|   |                 | <b>Inorganic (mg/L)</b>                    |              |                |                 | Copper               | TVS      TVS |
|   |                 |  | <b>acute</b> | <b>chronic</b> |                 | Iron                 | ---      WS  |
|   |                 | Ammonia                                    | TVS          | TVS            | Iron(T)         | ---      1000        |              |
|   |                 | Boron                                      | ---          | 0.75           | Lead            | TVS      TVS         |              |
|   |                 | Chloride                                   | ---          | 250            | Lead(T)         | 50      ---          |              |
|   |                 | Chlorine                                   | 0.019        | 0.011          | Manganese       | TVS      TVS/WS      |              |
|   |                 | Cyanide                                    | 0.005        | ---            | Mercury(T)      | ---      0.01        |              |
|   |                 | Nitrate                                    | 10           | ---            | Molybdenum(T)   | ---      150         |              |
|   |                 | Nitrite                                    | ---          | 0.05           | Nickel          | TVS      TVS         |              |
|   |                 | Phosphorus                                 | ---          | 0.025*         | Nickel(T)       | ---      100         |              |
|   |                 | Sulfate                                    | ---          | 250            | Selenium        | TVS      TVS         |              |
|   |                 | Sulfide                                    | ---          | 0.002          | Silver          | TVS      TVS(tr)     |              |
|   |                 |  |              |                | Uranium         | varies*      varies* |              |
|   |                 |  | Zinc         | TVS      TVS   |                 |                      |              |

  

| 21. Lakes and reservoirs in the Clear Creek system from sources to the Farmer's Highline Canal diversion in Golden, CO, except for listings in Segments 7b, 20, 22, and 25. Upper Long Lake.   |                 |  |              |                |                 |                      |              |
|--|-----------------|--|--------------|----------------|-----------------|----------------------|--------------|
| COSPCL21   | Classifications | Physical and Biological                    |              |                | Metals (ug/L)   |                      |              |
| Designation  | Agriculture     |  | DM           | MWAT           |                 | acute      chronic   |              |
| Reviewable*  | Aq Life Cold 1  | Temperature °C                             | varies*      | varies*        | Arsenic         | 340      ---         |              |
|  | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---      0.02        |              |
|  | Water Supply    | D.O. (mg/L)                                | ---          | 6.0            | Cadmium         | TVS      TVS         |              |
|  | DUWS*           | D.O. (spawning)                            | ---          | 7.0            | Cadmium(T)      | 5.0      ---         |              |
| <b>Qualifiers:</b>   |                 | pH   | 6.5 - 9.0    | ---            | Chromium III    | ---      TVS         |              |
| <b>Other:</b>  |                 | chlorophyll a (ug/L)                       | ---          | 8*             | Chromium III(T) | 50      ---          |              |
| <p>Temporary Modification(s):</p> <p>Arsenic(chronic) = hybrid</p> <p>Expiration Date of 12/31/2024</p> <p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Classification: DUWS applies to Hole in the Ground Reservoir, Chase Gulch Reservoir, and Beaver Brook Reservoir No 2 only.</p> <p>*Designation: 9/30/00 Baseline does not apply</p> <p>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.</p> <p>*Uranium(acute) = See 38.5(3) for details.</p> <p>*Uranium(chronic) = See 38.5(3) for details.</p> <p>*Temperature = DM and MWAT=CL from 1/1-3/31 Chase Gulch Reservoir DM=CL and MWAT=16.6 from 4/1-12/31 All others DM and MWAT=CL from 4/1-12/31</p> |                 | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium VI     | TVS      TVS         |              |
|  |                 | <b>Inorganic (mg/L)</b>                    |              |                |                 | Copper               | TVS      TVS |
|  |                 |  | <b>acute</b> | <b>chronic</b> |                 | Iron                 | ---      WS  |
|  |                 | Ammonia                                    | TVS          | TVS            | Iron(T)         | ---      1000        |              |
|  |                 | Boron                                      | ---          | 0.75           | Lead            | TVS      TVS         |              |
|  |                 | Chloride                                   | ---          | 250            | Lead(T)         | 50      ---          |              |
|  |                 | Chlorine                                   | 0.019        | 0.011          | Manganese       | TVS      TVS/WS      |              |
|  |                 | Cyanide                                    | 0.005        | ---            | Mercury(T)      | ---      0.01        |              |
|  |                 | Nitrate                                    | 10           | ---            | Molybdenum(T)   | ---      150         |              |
|  |                 | Nitrite                                    | ---          | 0.05           | Nickel          | TVS      TVS         |              |
|  |                 | Phosphorus                                 | ---          | 0.025*         | Nickel(T)       | ---      100         |              |
|  |                 | Sulfate                                    | ---          | WS             | Selenium        | TVS      TVS         |              |
|  |                 | Sulfide                                    | ---          | 0.002          | Silver          | TVS      TVS(tr)     |              |
|  |                 |  |              |                | Uranium         | varies*      varies* |              |
|  |                 |  |              |                | Zinc            | TVS      TVS         |              |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 22. Lakes and reservoirs in the North Clear Creek drainage from a point just below the confluence with Chase Gulch to the confluence with Clear Creek. |  |  |           |         |                 |         |         |
|--|--|--|-----------|---------|-----------------|---------|---------|
| COSPCL22   | Classifications  | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture  |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable*  | Aq Life Cold 1<br>Recreation E                         | Temperature °C                             | CL        | CL      | Arsenic         | 340     | ---     |
| Qualifiers:  |  |  | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| Other:   |  | D.O. (mg/L)                                | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |  | D.O. (spawning)                            | ---       | 7.0     | Chromium III    | TVS     | TVS     |
|  |  | pH   | 6.5 - 9.0 | ---     | Chromium III(T) | ---     | 100     |
|  |  | chlorophyll a (ug/L)                       | ---       | 8*      | Chromium VI     | TVS     | TVS     |
|  |  | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Copper          | TVS     | TVS     |
|  |  |  |           |         | Iron(T)         | ---     | 1000    |
|  |  | Inorganic (mg/L)                           |           |         | Lead            | TVS     | TVS     |
|  |  |  | acute     | chronic | Manganese       | TVS     | TVS     |
|  |  | Ammonia                                    | TVS       | TVS     | Mercury(T)      | ---     | 0.01    |
|  |  | Boron                                      | ---       | 0.75    | Molybdenum(T)   | ---     | 150     |
|  |  | Chloride                                   | ---       | ---     | Nickel          | TVS     | TVS     |
|  |  | Chlorine                                   | 0.019     | 0.011   | Selenium        | TVS     | TVS     |
|  |  | Cyanide                                    | 0.005     | ---     | Silver          | TVS     | TVS(tr) |
|  |  | Nitrate                                    | 100       | ---     | Uranium         | varies* | varies* |
|  |  | Nitrite                                    | ---       | 0.05    | Zinc            | TVS     | TVS     |
|  |  | Phosphorus                                 | ---       | 0.025*  |                 |         |         |
|  |  | Sulfate                                    | ---       | ---     |                 |         |         |
|  |  | Sulfide                                    | ---       | 0.002   |                 |         |         |
| 23. Ralston Reservoir  |  |  |           |         |                 |         |         |
| COSPCL23   | Classifications  | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture  |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 2<br>Recreation U<br>Water Supply<br>DUWS | Temperature °C                             | CLL       | CLL     | Arsenic         | 340     | ---     |
| Qualifiers:  |  |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water + Fish Standards   |  | D.O. (mg/L)                                | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| Other:   |  | D.O. (spawning)                            | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
|  |  | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|  |  | chlorophyll a (ug/L)                       | ---       | 8*      | Chromium III(T) | 50      | ---     |
|  |  | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |  |  |           |         | Copper          | TVS     | TVS     |
|  |  | Inorganic (mg/L)                           |           |         | Iron            | ---     | WS      |
|  |  |  | acute     | chronic | Iron(T)         | ---     | 1000    |
|  |  | Ammonia                                    | TVS       | TVS     | Lead            | TVS     | TVS     |
|  |  | Boron                                      | ---       | 0.75    | Lead(T)         | 50      | ---     |
|  |  | Chloride                                   | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|  |  | Chlorine                                   | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|  |  | Cyanide                                    | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrate                                    | 10        | ---     | Nickel          | TVS     | TVS     |
|  |  | Nitrite                                    | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|  |  | Phosphorus                                 | ---       | 0.025*  | Selenium        | TVS     | TVS     |
|  |  | Sulfate                                    | ---       | WS      | Silver          | TVS     | TVS(tr) |
|  |  | Sulfide                                    | ---       | 0.002   | Uranium         | varies* | varies* |
|  |  |  |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Clear Creek Basin

24. Lakes and reservoirs in the Clear Creek system from the Farmers Highline Canal diversion in Golden, Colorado to the confluence with the South Platte River, except for listings in Segments 17a, 21 and 23.

| COSPCL24  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|---|-----------------|---|-----------|---------|-----------------|---------|---------|
| Designation   | Agriculture     |   | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Warm 1  | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---     |
|   | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|   | DUWS*           | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| Qualifiers:   |                 | chlorophyll a (ug/L)                    | ---       | 20*     | Chromium III    | ---     | TVS     |
| Other:  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):  |                 | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid   |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024   |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
| *Classification: DUWS applies to Maple Grove Reservoir only.  |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.           |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|   |                 | Phosphorus                              | ---       | 0.083*  | Nickel          | TVS     | TVS     |
|   |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|   |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|   |                 |   |           |         | Silver          | TVS     | TVS     |
|   |                 |   |           |         | Uranium         | varies* | varies* |
|   |                 |   |           |         | Zinc            | TVS     | TVS     |

25. Guanella Reservoir (near Town of Empire, 39.758,-105.700)

| COSPCL25   | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|--|-----------------|---|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture     |   | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 1  | Temperature °C                          | CL        | CL      | Arsenic         | 340     | ---     |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| Qualifiers:  |                 | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| Other:   |                 | D.O. (spawning)                         | ---       | 7.0     | Chromium III    | TVS     | TVS     |
| *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III(T) | ---     | 100     |
| *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.           |                 | chlorophyll a (ug/L)                    | ---       | 8*      | Chromium VI     | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Copper          | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Inorganic (mg/L)                        |           |         | Iron(T)         | ---     | 1000    |
|  |                 |   | acute     | chronic | Lead            | TVS     | TVS     |
|  |                 | Ammonia                                 | TVS       | TVS     | Manganese       | TVS     | TVS     |
|  |                 | Boron                                   | ---       | 0.75    | Mercury(T)      | ---     | 0.01    |
|  |                 | Chloride                                | ---       | ---     | Molybdenum(T)   | ---     | ---     |
|  |                 | Chlorine                                | 0.019     | 0.011   | Nickel          | TVS     | TVS     |
|  |                 | Cyanide                                 | 0.005     | ---     | Selenium        | TVS     | TVS     |
|  |                 | Nitrate                                 | 100       | ---     | Silver          | TVS     | TVS(tr) |
|  |                 | Nitrite                                 | ---       | 0.05    | Uranium         | varies* | varies* |
|  |                 | Phosphorus                              | ---       | 0.025*  | Zinc            | TVS     | TVS     |
|  |                 | Sulfate                                 | ---       | ---     |                 |         |         |
|  |                 | Sulfide                                 | ---       | 0.002   |                 |         |         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Dry Creek Basin

1. Mainstem of Big Dry Creek, including all tributaries and wetlands, from the outlet of Standley Lake to the confluence with the South Platte River. Walnut Creek, including tributaries and wetlands, from the outlet of Great Western Reservoir to the confluence with Big Dry Creek.

| COSPBD01   | Classifications | Physical and Biological                 |              |                | Metals (ug/L)   |              |                      |
|--|-----------------|---|--------------|----------------|-----------------|--------------|----------------------|
| Designation  | Agriculture     |   | <b>DM</b>    | <b>MWAT</b>    |                 | <b>acute</b> | <b>chronic</b>       |
| UP   | Aq Life Warm 1  | Temperature °C                          | WS-I         | WS-I           | Arsenic         | 340          | ---                  |
|  | Water Supply    |   | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---          | 0.02-10 <sup>A</sup> |
|  | Recreation E    | D.O. (mg/L)                             | ---          | 5.0            | Beryllium(T)    | ---          | 100                  |
| <b>Qualifiers:</b>   |                 | pH                                      | 6.5 - 9.0    | ---            | Cadmium         | TVS          | TVS                  |
| <b>Fish Ingestion Standards Do Not Apply</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---          | 150*           | Cadmium(T)      | 5.0          | ---                  |
| <b>Other:</b>  |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---          | 126            | Chromium III    | ---          | TVS                  |
| <p>*chlorophyll a (mg/m<sup>2</sup>)(chronic) = applies only above the facilities listed at 38.5(4).<br/>                     *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br/>                     *Selenium(acute) = 19.1 ug/L from 11/1 - 3/31 TVS from 4/1 - 10/31.<br/>                     Refer to Section 38.6(4)(d).<br/>                     *Selenium(chronic) = 15 ug/L from 11/1 - 3/31 7.4 ug/L from 4/1 - 10/31.<br/>                     Refer to Section 38.6(4)(d).<br/>                     *Uranium(acute) = See 38.5(3) for details.<br/>                     *Uranium(chronic) = See 38.5(3) for details.</p> |                 | <b>Inorganic (mg/L)</b>                 |              |                | Chromium III(T) | 50           | ---                  |
|  |                 |   | <b>acute</b> | <b>chronic</b> | Chromium VI     | TVS          | TVS                  |
|  |                 | Ammonia                                 | TVS          | TVS            | Copper          | TVS          | TVS                  |
|  |                 | Boron                                   | ---          | 0.75           | Iron            | ---          | WS                   |
|  |                 | Chloride                                | ---          | 250            | Iron(T)         | ---          | 1000                 |
|  |                 | Chlorine                                | 0.019        | 0.011          | Lead            | TVS          | TVS                  |
|  |                 | Cyanide                                 | 0.005        | ---            | Lead(T)         | 50           | ---                  |
|  |                 | Nitrate                                 | 10           | ---            | Manganese       | TVS          | TVS/WS               |
|  |                 | Nitrite                                 | ---          | 4.5            | Mercury(T)      | ---          | 0.01                 |
|  |                 | Phosphorus                              | ---          | 0.17*          | Molybdenum(T)   | ---          | 150                  |
|  |                 | Sulfate                                 | ---          | WS             | Nickel          | TVS          | TVS                  |
|  |                 | Sulfide                                 | ---          | 0.002          | Nickel(T)       | ---          | 100                  |
|  |                 |   |              |                | Selenium        | ---          | varies*              |
|  |                 |   |              |                | Selenium        | varies*      | ---                  |
|  |                 |   |              |                | Silver          | TVS          | TVS                  |
|  |                 |   | Uranium      | varies*        | varies*         |              |                      |
|  |                 |   | Zinc         | TVS            | TVS             |              |                      |

2. Standley Lake.

| COSPBD02  | Classifications | Physical and Biological                 |              |                | Metals (ug/L)   |              |                |
|---|-----------------|---|--------------|----------------|-----------------|--------------|----------------|
| Designation   | Agriculture     |   | <b>DM</b>    | <b>MWAT</b>    |                 | <b>acute</b> | <b>chronic</b> |
| Reviewable  | Aq Life Warm 1  | Temperature °C                          | WL           | WL             | Arsenic         | 340          | ---            |
|   | Recreation E    |   | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---          | 0.02           |
|   | Water Supply    | D.O. (mg/L)                             | ---          | 5.0            | Beryllium(T)    | ---          | 4.0            |
|   | DUWS            | pH                                      | 6.5 - 9.0    | ---            | Cadmium         | TVS          | TVS            |
| <b>Qualifiers:</b>  |                 | chlorophyll a (ug/L)                    | ---          | 4.0*           | Cadmium(T)      | 5.0          | ---            |
| <b>Other:</b>   |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---          | 126            | Chromium III    | ---          | TVS            |
| <p>Temporary Modification(s):<br/>                     Arsenic(chronic) = hybrid<br/>                     Expiration Date of 12/31/2024</p> <p>*chlorophyll a (ug/L)(chronic) = The trophic status of Standley Lake shall be maintained as mesotrophic as measured by a combination of common indicator parameters such as total phosphorus, chlorophyll a, secchi depth, and dissolved oxygen. Refer to Section 38.6(4)(e).<br/>                     *Uranium(acute) = See 38.5(3) for details.<br/>                     *Uranium(T)(chronic) = 3(t) Picocuries/Liter. See 38.6(4) for additional standards for segment 2.</p> |                 | <b>Inorganic (mg/L)</b>                 |              |                | Chromium III(T) | 50           | ---            |
|   |                 |   | <b>acute</b> | <b>chronic</b> | Chromium VI     | TVS          | TVS            |
|   |                 | Ammonia                                 | TVS          | TVS            | Copper          | TVS          | TVS            |
|   |                 | Boron                                   | ---          | 0.75           | Iron            | ---          | WS             |
|   |                 | Chloride                                | ---          | 250            | Iron(T)         | ---          | 1000           |
|   |                 | Chlorine                                | 0.019        | 0.011          | Lead            | TVS          | TVS            |
|   |                 | Cyanide                                 | 0.005        | ---            | Lead(T)         | 50           | ---            |
|   |                 | Nitrate                                 | 10           | ---            | Manganese       | TVS          | TVS/WS         |
|   |                 | Nitrite                                 | ---          | 0.5            | Mercury(T)      | ---          | 0.01           |
|   |                 | Phosphorus                              | ---          | ---            | Molybdenum(T)   | ---          | 150            |
|   |                 | Sulfate                                 | ---          | WS             | Nickel          | TVS          | TVS            |
|   |                 | Sulfide                                 | ---          | 0.002          | Nickel(T)       | ---          | 100            |
|   |                 |   |              |                | Selenium        | TVS          | TVS            |
|   |                 |   |              |                | Silver          | TVS          | TVS            |
|   |                 |   |              |                | Uranium         | varies*      | ---            |
|   |                 |   | Uranium(T)   | ---            | 3*              |              |                |
|   |                 |   | Zinc         | TVS            | TVS             |              |                |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

| 3. Great Western Reservoir.  |                 |   |              |                |                 |             |      |     |
|--|-----------------|---|--------------|----------------|-----------------|-------------|------|-----|
| COSPBD03   | Classifications | Physical and Biological                   |              |                | Metals (ug/L)   |             |      |     |
| Designation  | Agriculture     | DM  | MWAT         | acute          | chronic         |             |      |     |
| UP   | Aq Life Warm 2  | Temperature °C                            | WL           | WL             | Arsenic         | 340         | ---  |     |
|  | Recreation N    |   | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---         | 100  |     |
|  | Water Supply    | D.O. (mg/L)                               | ---          | 5.0            | Beryllium(T)    | ---         | 100  |     |
| <b>Qualifiers:</b>   |                 | pH  | 6.5 - 9.0    | ---            | Cadmium         | TVS         | TVS  |     |
| <b>Other:</b><br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(T)(chronic) = 4(t) Picocuries/Liter. See 38.6(4) for additional standards for segment 3. |                 | chlorophyll a (ug/L)                      | ---          | ---            | Chromium III    | TVS         | TVS  |     |
|  |                 | <u>E-Coli</u> <u>E. coli</u> (per 100 mL) | ---          | 630            | Chromium III(T) | ---         | 100  |     |
|  |                 | <b>Inorganic (mg/L)</b>                   |              |                |                 | Chromium VI | TVS  | TVS |
|  |                 |   | <b>acute</b> | <b>chronic</b> | Copper          | TVS         | TVS  |     |
|  |                 | Ammonia                                   | TVS          | TVS            | Iron(T)         | ---         | 1000 |     |
|  |                 | Boron                                     | ---          | 0.75           | Lead            | TVS         | TVS  |     |
|  |                 | Chloride                                  | ---          | ---            | Manganese       | TVS         | TVS  |     |
|  |                 | Chlorine                                  | 0.019        | 0.011          | Mercury(T)      | ---         | 0.01 |     |
|  |                 | Cyanide                                   | 0.005        | ---            | Molybdenum(T)   | ---         | 150  |     |
|  |                 | Nitrate                                   | 100          | ---            | Nickel          | TVS         | TVS  |     |
|  |                 | Nitrite                                   | ---          | 2.7            | Selenium        | TVS         | TVS  |     |
|  |                 | Phosphorus                                | ---          | ---            | Silver          | TVS         | TVS  |     |
|  |                 | Sulfate                                   | ---          | ---            | Uranium         | varies*     | ---  |     |
|  |                 | Sulfide                                   | ---          | 0.002          | Uranium(T)      | ---         | 4*   |     |
|  |                 |   |              |                | Zinc            | TVS         | TVS  |     |

  

| 4a. Mainstem and all tributaries to Woman and Walnut Creeks from sources to Standley Lake and Great Western Reservoir, respectively, except for listings in Segments 4b and 5a. |                 |   |              |                |               |                 |                      |     |
|---|-----------------|---|--------------|----------------|---------------|-----------------|----------------------|-----|
| COSPBD04A   | Classifications | Physical and Biological                   |              |                | Metals (ug/L) |                 |                      |     |
| Designation   | Agriculture     | DM  | MWAT         | acute          | chronic       |                 |                      |     |
| UP  | Aq Life Warm 2  | Temperature °C                            | WS-I         | WS-I           | Arsenic       | 340             | ---                  |     |
|   | Recreation E    |   | <b>acute</b> | <b>chronic</b> | Arsenic(T)    | ---             | 0.02-10 <sup>A</sup> |     |
|   | Water Supply    | D.O. (mg/L)                               | ---          | 5.0            | Beryllium(T)  | ---             | 4.0                  |     |
| <b>Qualifiers:</b>  |                 | pH  | 6.5 - 9.0    | ---            | Cadmium       | TVS             | TVS                  |     |
| <b>Other:</b><br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 4a.                                  |                 | chlorophyll a (mg/m <sup>2</sup> )        | ---          | 150            | Cadmium(T)    | 5.0             | ---                  |     |
|   |                 | <u>E-Coli</u> <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium III  | ---             | TVS                  |     |
|   |                 | <b>Inorganic (mg/L)</b>                   |              |                |               | Chromium III(T) | 50                   | --- |
|   |                 |   | <b>acute</b> | <b>chronic</b> | Chromium VI   | TVS             | TVS                  |     |
|   |                 | Ammonia                                   | TVS          | TVS            | Copper        | TVS             | TVS                  |     |
|   |                 | Boron                                     | ---          | 0.75           | Iron(T)       | ---             | 1000                 |     |
|   |                 | Chloride                                  | ---          | ---            | Lead          | TVS             | TVS                  |     |
|   |                 | Chlorine                                  | 0.019        | 0.011          | Lead(T)       | 50              | ---                  |     |
|   |                 | Cyanide                                   | 0.005        | ---            | Manganese     | TVS             | TVS                  |     |
|   |                 | Nitrate                                   | 10           | ---            | Mercury(T)    | ---             | 0.01                 |     |
|   |                 | Nitrite                                   | ---          | 0.5            | Molybdenum(T) | ---             | 150                  |     |
|   |                 | Phosphorus                                | ---          | 0.17           | Nickel        | TVS             | TVS                  |     |
|   |                 | Sulfate                                   | ---          | ---            | Nickel(T)     | ---             | 100                  |     |
|   |                 | Sulfide                                   | ---          | 0.002          | Selenium      | TVS             | TVS                  |     |
|   |                 |   |              |                | Silver        | TVS             | TVS                  |     |
|   |                 |   | Uranium      | varies*        | ---           |                 |                      |     |
|   |                 |   | Uranium(T)   | ---            | 16.8*         |                 |                      |     |
|   |                 |   | Zinc         | TVS            | TVS           |                 |                      |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

4b. North Walnut Creek from its source to the western edge of the Central Operable Unit. North and South Walnut Creek and Walnut Creek, from the eastern edge of the Central Operable Unit on Rocky Flats Property to Indiana Street.

| COSPBD04B   | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |         |                      |
|---|-----------------|--|-----------|---------|-----------------|---------|----------------------|
| Designation   |                 |  | DM        | MWAT    |                 | acute   | chronic              |
| UP  | Agriculture     |  |           |         |                 |         |                      |
|   | Aq Life Warm 2  | Temperature °C                                 | WS-II     | WS-II   | Arsenic         | 340     | ---                  |
|   | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|   | Water Supply    | D.O. (mg/L)                                    | ---       | 5.0     | Beryllium(T)    | ---     | 4.0                  |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium         | TVS     | TVS                  |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | 150     | Cadmium(T)      | 5.0     | ---                  |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 4b. |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III    | ---     | TVS                  |
|   |                 | <b>Inorganic (mg/L)</b>                        |           |         | Chromium III(T) | 50      | ---                  |
|   |                 |  | acute     | chronic | Chromium VI     | TVS     | TVS                  |
|   |                 | Ammonia  | TVS       | TVS     | Copper          | TVS     | TVS                  |
|   |                 | Boron  | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|   |                 | Chloride                                       | ---       | ---     | Lead            | TVS     | TVS                  |
|   |                 | Chlorine                                       | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|   |                 | Cyanide  | 0.005     | ---     | Manganese       | TVS     | TVS                  |
|   |                 | Nitrate  | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|   |                 | Nitrite  | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|   |                 | Phosphorus                                     | ---       | 0.17    | Nickel          | TVS     | TVS                  |
|   |                 | Sulfate  | ---       | ---     | Nickel(T)       | ---     | 100                  |
|   |                 | Sulfide  | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|   |                 |  |           |         | Silver          | TVS     | TVS                  |
|   |                 |  |           |         | Uranium         | varies* | ---                  |
|   |                 |  |           |         | Uranium(T)      | ---     | 16.8*                |
|   |                 |  |           |         | Zinc            | TVS     | TVS                  |

5a. North Walnut Creek from the western edge of the Central Operable Unit and South Walnut Creek from its source, including all tributaries and wetlands, to the eastern boundary of the Central Operable Unit.

| COSPBD05A   | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |         |                      |
|---|-----------------|--|-----------|---------|-----------------|---------|----------------------|
| Designation   |                 |  | DM        | MWAT    |                 | acute   | chronic              |
| UP  | Agriculture     |  |           |         |                 |         |                      |
|   | Aq Life Warm 2  | Temperature °C                                 | WS-II     | WS-II   | Arsenic         | 340     | ---                  |
|   | Recreation N    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|   | Water Supply    | D.O. (mg/L)                                    | ---       | 5.0     | Beryllium(T)    | ---     | 4.0                  |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium         | TVS     | TVS                  |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | ---     | Cadmium(T)      | 5.0     | ---                  |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 5a. |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 630     | Chromium III    | ---     | TVS                  |
|   |                 | <b>Inorganic (mg/L)</b>                        |           |         | Chromium III(T) | 50      | ---                  |
|   |                 |  | acute     | chronic | Chromium VI     | TVS     | TVS                  |
|   |                 | Ammonia  | TVS       | TVS     | Copper          | TVS     | TVS                  |
|   |                 | Boron  | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|   |                 | Chloride                                       | ---       | ---     | Lead            | TVS     | TVS                  |
|   |                 | Chlorine                                       | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|   |                 | Cyanide  | 0.005     | ---     | Manganese       | TVS     | TVS                  |
|   |                 | Nitrate  | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|   |                 | Nitrite  | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|   |                 | Phosphorus                                     | ---       | 0.17    | Nickel          | TVS     | TVS                  |
|   |                 | Sulfate  | ---       | ---     | Nickel(T)       | ---     | 100                  |
|   |                 | Sulfide  | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|   |                 |  |           |         | Silver          | TVS     | TVS                  |
|   |                 |  |           |         | Uranium         | varies* | ---                  |
|   |                 |  |           |         | Uranium(T)      | ---     | 16.8*                |
|   |                 |  |           |         | Zinc            | TVS     | TVS                  |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

5b. All lakes and reservoirs from the western edge of the Central Operable Unit to the eastern boundary of the Central Operable Unit and Pond C-2 on Woman Creek.

| COSPBD05B  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |                      |
|--|-----------------|---|-----------|---------|-----------------|---------|----------------------|
|  |                 |   | DM        | MWAT    |                 | acute   | chronic              |
| UP   | Agriculture     |   |           |         |                 |         |                      |
|  | Aq Life Warm 2  | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---                  |
|  | Recreation N    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
| Water Supply   |                 | D.O. (mg/L)                             | ---       | 5.0     | Beryllium(T)    | ---     | 4.0                  |
|  |                 | pH                                      | 6.5 - 9.0 | ---     | Cadmium         | TVS     | TVS                  |
| <b>Qualifiers:</b>   |                 | chlorophyll a (ug/L)                    | ---       | 20*     | Cadmium(T)      | 5.0     | ---                  |
| <b>Other:</b><br><br>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(T)(chronic) = See 38.6(4) for additional standards for segment 5b. |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 630     | Chromium III    | ---     | TVS                  |
|  |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium III(T) | 50      | ---                  |
|  |                 |   | acute     | chronic | Chromium VI     | TVS     | TVS                  |
|  |                 | Ammonia                                 | TVS       | TVS     | Copper          | TVS     | TVS                  |
|  |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|  |                 | Chloride                                | ---       | ---     | Lead            | TVS     | TVS                  |
|  |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|  |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS                  |
|  |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|  |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|  |                 | Phosphorus                              | ---       | 0.083*  | Nickel          | TVS     | TVS                  |
|  |                 | Sulfate                                 | ---       | ---     | Nickel(T)       | ---     | 100                  |
|  |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|  |                 |   |           |         | Silver          | TVS     | TVS                  |
|  |                 |   |           |         | Uranium         | varies* | ---                  |
|  |                 |   |           |         | Uranium(T)      | ---     | 16.8*                |
|  |                 |   |           |         | Zinc            | TVS     | TVS                  |

6. Upper Big Dry Creek and South Upper Big Dry Creek, from their source to Standley Lake.

| COSPBD06  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |                      |
|---|-----------------|---|-----------|---------|-----------------|---------|----------------------|
|   |                 |   | DM        | MWAT    |                 | acute   | chronic              |
| UP  | Agriculture     |   |           |         |                 |         |                      |
|   | Aq Life Warm 2  | Temperature °C                          | WS-I      | WS-I    | Arsenic         | 340     | ---                  |
|   | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
| Water Supply  |                 | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS                  |
| <b>Qualifiers:</b>  |                 | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
| <b>Other:</b><br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150     | Chromium III    | ---     | TVS                  |
|   |                 | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
|   |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS     | TVS                  |
|   |                 |   | acute     | chronic | Copper          | TVS     | TVS                  |
|   |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS                   |
|   |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|   |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS                  |
|   |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|   |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|   |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|   |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|   |                 | Phosphorus                              | ---       | 0.17    | Nickel          | TVS     | TVS                  |
|   |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100                  |
|   |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|   |                 |   |           |         | Silver          | TVS     | TVS                  |
|   |                 |   |           |         | Uranium         | varies* | varies*              |
|   |                 |   |           |         | Zinc            | TVS     | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 7. Lakes and reservoirs in the Big Dry Creek system from the source to the confluence with the South Platte River, except for listings in Segments 2, 3, and 5b. |                 |   |           |         |                 |         |
|--|-----------------|---|-----------|---------|-----------------|---------|
| COSPBD07   | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |
| Designation  |                 |   | DM        | MWAT    |                 |         |
| Reviewable   |                 |   | WL        | WL      | acute           | chronic |
|  | Agriculture     |   |           |         |                 |         |
|  | Aq Life Warm 2  | Temperature °C                          |           |         | Arsenic         | 340     |
|  | Recreation P    |   | acute     | chronic | Arsenic(T)      | ---     |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Beryllium(T)    | ---     |
|  | DUWS*           | pH                                      | 6.5 - 9.0 | ---     | Cadmium         | TVS     |
|  |                 | chlorophyll a (ug/L)                    | ---       | 20*     | Cadmium(T)      | 5.0     |
|  |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 205     | Chromium III    | ---     |
|  |                 |   |           |         | Chromium III(T) | 50      |
|  |                 |   |           |         | Chromium VI     | TVS     |
|  |                 |   |           |         | Copper          | TVS     |
|  |                 |   |           |         | Iron            | ---     |
|  |                 |   |           |         | Iron(T)         | ---     |
|  |                 |   |           |         | Lead            | TVS     |
|  |                 |   |           |         | Lead(T)         | 50      |
|  |                 |   |           |         | Manganese       | TVS     |
|  |                 |   |           |         | Mercury(T)      | ---     |
|  |                 |   |           |         | Molybdenum(T)   | ---     |
|  |                 |   |           |         | Nickel          | TVS     |
|  |                 |   |           |         | Nickel(T)       | ---     |
|  |                 |   |           |         | Selenium        | TVS     |
|  |                 |   |           |         | Silver          | TVS     |
|  |                 |   |           |         | Uranium         | varies* |
|  |                 |   |           |         | Zinc            | TVS     |

**Qualifiers:**

**Water + Fish Standards**

**Other:**

\*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.

\*Classification: DUWS applies to Welton Reservoir only.

\*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.

\*Uranium(acute) = See 38.5(3) for details.

\*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

1. All tributaries to Boulder Creek, including all wetlands, within the Indian Peaks and James Peak Wilderness Areas.

| COSPBO01  | Classifications | Physical and Biological                        |           |          | Metals (ug/L)   |         |         |
|---|-----------------|--|-----------|----------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM        | MWAT     |                 | acute   | chronic |
| OW  | Aq Life Cold 1  | Temperature °C                                 | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                                    | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                                | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|   |                 | pH   | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | 150      | Chromium III(T) | 50      | ---     |
|   |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|   |                 |  |           |          | Copper          | TVS     | TVS     |
|   |                 |  |           |          | Iron            | ---     | WS      |
|   |                 |  |           |          | Iron(T)         | ---     | 1000    |
|   |                 |  |           |          | Lead            | TVS     | TVS     |
|   |                 |  |           |          | Lead(T)         | 50      | ---     |
|   |                 |  |           |          | Manganese       | TVS     | TVS/WS  |
|   |                 |  |           |          | Mercury(T)      | ---     | 0.01    |
|   |                 |  |           |          | Molybdenum(T)   | ---     | 150     |
|   |                 |  |           |          | Nickel          | TVS     | TVS     |
|   |                 |  |           |          | Nickel(T)       | ---     | 100     |
|   |                 |  |           | Selenium | TVS             | TVS     |         |
|   |                 |  |           | Silver   | TVS             | TVS(tr) |         |
|   |                 |  |           | Uranium  | varies*         | varies* |         |
|   |                 |  |           | Zinc     | TVS             | TVS     |         |

2a. Mainstem of Boulder Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area to a point immediately below the confluence with North Boulder Creek, except for the specific listings in Segment 3.

| COSPBO02A   | Classifications | Physical and Biological                        |           |          | Metals (ug/L)   |         |         |
|---|-----------------|--|-----------|----------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM        | MWAT     |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1  | Temperature °C                                 | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                                    | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                                | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|   |                 | pH   | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | 150*     | Chromium III(T) | 50      | ---     |
|   |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|   |                 |  |           |          | Copper          | TVS     | TVS     |
|   |                 |  |           |          | Iron            | ---     | WS      |
|   |                 |  |           |          | Iron(T)         | ---     | 1000    |
|   |                 |  |           |          | Lead            | TVS     | TVS     |
|   |                 |  |           |          | Lead(T)         | 50      | ---     |
|   |                 |  |           |          | Manganese       | TVS     | TVS/WS  |
|   |                 |  |           |          | Mercury(T)      | ---     | 0.01    |
|   |                 |  |           |          | Molybdenum(T)   | ---     | 150     |
|   |                 |  |           |          | Nickel          | TVS     | TVS     |
|   |                 |  |           |          | Nickel(T)       | ---     | 100     |
|   |                 |  |           | Selenium | TVS             | TVS     |         |
|   |                 |  |           | Silver   | TVS             | TVS(tr) |         |
|   |                 |  |           | Uranium  | varies*         | varies* |         |
|   |                 |  |           | Zinc     | TVS             | TVS     |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

| 2b. Mainstem of Boulder Creek, including all tributaries and wetlands, from a point immediately below the confluence with North Boulder Creek to a point immediately above the confluence with South Boulder Creek. |   |                                    |           |       |                 |                 |
|---|---|------------------------------------|-----------|-------|-----------------|-----------------|
| COSPBO02B   | Classifications   | Physical and Biological            |           |       | Metals (ug/L)   |                 |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                                 | MWAT      | acute | chronic         |                 |
| Reviewable  |   | acute                              | chronic   |       |                 |                 |
|   |   | Temperature °C                     | CS-II     | CS-II | Arsenic         | 340 ---         |
|   |   | D.O. (mg/L)                        | ---       | 6.0   | Arsenic(T)      | --- 0.02        |
|   |   | D.O. (spawning)                    | ---       | 7.0   | Cadmium         | TVS TVS         |
| <b>Qualifiers:</b>  |   | pH                                 | 6.5 - 9.0 | ---   | Cadmium(T)      | 5.0 ---         |
| <b>Other:</b>   |   | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150*  | Chromium III    | --- TVS         |
| Temporary Modification(s):  |   | <u>E.-ColiE. coli</u> (per 100 mL) | ---       | 126   | Chromium III(T) | 50 ---          |
| Arsenic(chronic) = hybrid   |   | <b>Inorganic (mg/L)</b>            |           |       | Chromium VI     | TVS TVS         |
| Expiration Date of 12/31/2024   |   | Ammonia                            | TVS       | TVS   | Copper          | TVS TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).   |   | Boron                              | ---       | 0.75  | Iron            | --- WS          |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).   |   | Chloride                           | ---       | 250   | Iron(T)         | --- 1000        |
| *Uranium(acute) = See 38.5(3) for details.  |   | Chlorine                           | 0.019     | 0.011 | Lead            | TVS TVS         |
| *Uranium(chronic) = See 38.5(3) for details.  |   | Cyanide                            | 0.005     | ---   | Lead(T)         | 50 ---          |
|   |   | Nitrate                            | 10        | ---   | Manganese       | TVS TVS/WS      |
|   |   | Nitrite                            | ---       | 0.05  | Mercury(T)      | --- 0.01        |
|   |   | Phosphorus                         | ---       | 0.11* | Molybdenum(T)   | --- 150         |
|   |   | Sulfate                            | ---       | WS    | Nickel          | TVS TVS         |
|   |   | Sulfide                            | ---       | 0.002 | Nickel(T)       | --- 100         |
|   |   |                                    |           |       | Selenium        | TVS TVS         |
|   |   |                                    |           |       | Silver          | TVS TVS(tr)     |
|   |   |                                    |           |       | Uranium         | varies* varies* |
|   |   |                                    |           |       | Zinc            | TVS TVS         |

  

| 3. Mainstem of Middle Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Barker Reservoir, except for specific listings in Segment 1. |   |                                    |           |       |                 |                 |
|--|---|------------------------------------|-----------|-------|-----------------|-----------------|
| COSPBO03   | Classifications   | Physical and Biological            |           |       | Metals (ug/L)   |                 |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                                 | MWAT      | acute | chronic         |                 |
| Reviewable   |   | acute                              | chronic   |       |                 |                 |
|  |   | Temperature °C                     | CS-I      | CS-I  | Arsenic         | 340 ---         |
|  |   | D.O. (mg/L)                        | ---       | 6.0   | Arsenic(T)      | --- 0.02        |
|  |   | D.O. (spawning)                    | ---       | 7.0   | Cadmium         | TVS TVS         |
| <b>Qualifiers:</b>   |   | pH                                 | 6.5 - 9.0 | ---   | Cadmium(T)      | 5.0 ---         |
| <b>Other:</b>  |   | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150*  | Chromium III    | --- TVS         |
| Temporary Modification(s):   |   | <u>E.-ColiE. coli</u> (per 100 mL) | ---       | 126   | Chromium III(T) | 50 ---          |
| Arsenic(chronic) = hybrid  |   | <b>Inorganic (mg/L)</b>            |           |       | Chromium VI     | TVS TVS         |
| Expiration Date of 12/31/2024  |   | Ammonia                            | TVS       | TVS   | Copper          | TVS TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |   | Boron                              | ---       | 0.75  | Iron            | --- WS          |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |   | Chloride                           | ---       | 250   | Iron(T)         | --- 1000        |
| *Uranium(acute) = See 38.5(3) for details.   |   | Chlorine                           | 0.019     | 0.011 | Lead            | TVS TVS         |
| *Uranium(chronic) = See 38.5(3) for details.   |   | Cyanide                            | 0.005     | ---   | Lead(T)         | 50 ---          |
|  |   | Nitrate                            | 10        | ---   | Manganese       | TVS TVS/WS      |
|  |   | Nitrite                            | ---       | 0.05  | Mercury(T)      | --- 0.01        |
|  |   | Phosphorus                         | ---       | 0.11* | Molybdenum(T)   | --- 150         |
|  |   | Sulfate                            | ---       | WS    | Nickel          | TVS TVS         |
|  |   | Sulfide                            | ---       | 0.002 | Nickel(T)       | --- 100         |
|  |   |                                    |           |       | Selenium        | TVS TVS         |
|  |   |                                    |           |       | Silver          | TVS TVS(tr)     |
|  |   |                                    |           |       | Uranium         | varies* varies* |
|  |   |                                    |           |       | Zinc            | TVS TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 4a. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the source to the outlet of Gross Reservoir except for specific listings in Segment 1.                   |   |  |           |            |                 |      |        |
|--|---|--|-----------|------------|-----------------|------|--------|
| COSPBO04A  | Classifications   | Physical and Biological                      |           |            | Metals (ug/L)   |      |        |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute      | chronic         |      |        |
| Reviewable   |   | Temperature °C                               | CS-I      | CS-I       | Arsenic         | 340  | ---    |
| Qualifiers:  |   | acute  | chronic   | Arsenic(T) | ---             | 0.02 |        |
| Other:   |   | D.O. (mg/L)                                  | ---       | 6.0        | Cadmium         | TVS  | TVS    |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | D.O. (spawning)                              | ---       | 7.0        | Cadmium(T)      | 5.0  | ---    |
|  |   | pH   | 6.5 - 9.0 | ---        | Chromium III    | ---  | TVS    |
|  |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150        | Chromium III(T) | 50   | ---    |
|  |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS  | TVS    |
|  |   | Inorganic (mg/L)                             |           |            | Copper          | TVS  | TVS    |
|  |   | acute  | chronic   | Iron       | ---             | WS   |        |
|  |   | Ammonia                                      | TVS       | TVS        | Iron(T)         | ---  | 1000   |
|  |   | Boron  | ---       | 0.75       | Lead            | TVS  | TVS    |
|  |   | Chloride                                     | ---       | 250        | Lead(T)         | 50   | ---    |
|  |   | Chlorine                                     | 0.019     | 0.011      | Manganese       | TVS  | TVS/WS |
|  |   | Cyanide                                      | 0.005     | ---        | Mercury(T)      | ---  | 0.01   |
|  |   | Nitrate                                      | 10        | ---        | Molybdenum(T)   | ---  | 150    |
|  |   | Nitrite                                      | ---       | 0.05       | Nickel          | TVS  | TVS    |
|  |   | Phosphorus                                   | ---       | 0.11       | Nickel(T)       | ---  | 100    |
|  |   | Sulfate                                      | ---       | WS         | Selenium        | TVS  | TVS    |
| Sulfide  | ---   | 0.002  | Silver    | TVS        | TVS(tr)         |      |        |
|  |   |  | Uranium   | varies*    | varies*         |      |        |
|  |   |  | Zinc      | TVS        | TVS             |      |        |

4b. Mainstem of South Boulder Creek, including all tributaries and wetlands, from the outlet of Gross Reservoir to South Boulder Road, except for specific listings in Segments 4c and 4d.

| COSPBO04B  | Classifications   | Physical and Biological                      |           |            | Metals (ug/L)   |      |        |
|--|---|--|-----------|------------|-----------------|------|--------|
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute      | chronic         |      |        |
| Reviewable   |   | Temperature °C                               | CS-II     | CS-II      | Arsenic         | 340  | ---    |
| Qualifiers:  |   | acute  | chronic   | Arsenic(T) | ---             | 0.02 |        |
| Other:   |   | D.O. (mg/L)                                  | ---       | 6.0        | Cadmium         | TVS  | TVS    |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | D.O. (spawning)                              | ---       | 7.0        | Cadmium(T)      | 5.0  | ---    |
|  |   | pH   | 6.5 - 9.0 | ---        | Chromium III    | ---  | TVS    |
|  |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150*       | Chromium III(T) | 50   | ---    |
|  |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS  | TVS    |
|  |   | Inorganic (mg/L)                             |           |            | Copper          | TVS  | TVS    |
|  |   | acute  | chronic   | Iron       | ---             | WS   |        |
|  |   | Ammonia                                      | TVS       | TVS        | Iron(T)         | ---  | 1000   |
|  |   | Boron  | ---       | 0.75       | Lead            | TVS  | TVS    |
|  |   | Chloride                                     | ---       | 250        | Lead(T)         | 50   | ---    |
|  |   | Chlorine                                     | 0.019     | 0.011      | Manganese       | TVS  | TVS/WS |
|  |   | Cyanide                                      | 0.005     | ---        | Mercury(T)      | ---  | 0.01   |
|  |   | Nitrate                                      | 10        | ---        | Molybdenum(T)   | ---  | 150    |
|  |   | Nitrite                                      | ---       | 0.05       | Nickel          | TVS  | TVS    |
|  |   | Phosphorus                                   | ---       | 0.11*      | Nickel(T)       | ---  | 100    |
|  |   | Sulfate                                      | ---       | WS         | Selenium        | TVS  | TVS    |
| Sulfide  | ---   | 0.002  | Silver    | TVS        | TVS(tr)         |      |        |
|  |   |  | Uranium   | varies*    | varies*         |      |        |
|  |   |  | Zinc      | TVS        | TVS             |      |        |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



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

| 4c. Mainstem of Cowdrey Drainage from the source below Cowdrey Reservoir #2 to the Davidson Ditch.                             |   |   |           |         |                 |              |                      |
|--|---|---|-----------|---------|-----------------|--------------|----------------------|
| COSPBO04C  | Classifications   | Physical and Biological                 |           |         | Metals (ug/L)   |              |                      |
| Designation  |   |   | DM        | MWAT    |                 |              |                      |
| UP   | Agriculture<br>Aq Life Warm 2<br>Recreation E<br>Water Supply | Temperature °C                          | WS-II     | WS-II   | Arsenic         | acute<br>340 | chronic<br>---       |
| Qualifiers:  |   |   | acute     | chronic | Arsenic(T)      | ---          | 0.02-10 <sup>A</sup> |
| Other:   |   | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS          | TVS                  |
|  |   | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0          | ---                  |
|  |   | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150     | Chromium III    | ---          | TVS                  |
|  |   | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50           | ---                  |
|  |   | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS          | TVS                  |
|  |   |   | acute     | chronic | Copper          | TVS          | TVS                  |
|  |   | Ammonia                                 | TVS       | TVS     | Iron            | ---          | WS                   |
|  |   | Boron                                   | ---       | 0.75    | Iron(T)         | ---          | 1000                 |
|  |   | Chloride                                | ---       | 250     | Lead            | TVS          | TVS                  |
|  |   | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50           | ---                  |
|  |   | Cyanide                                 | 0.005     | ---     | Manganese       | TVS          | TVS/WS               |
|  |   | Nitrate                                 | 10        | ---     | Mercury(T)      | ---          | 0.01                 |
|  |   | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---          | 150                  |
|  |   | Phosphorus                              | ---       | 0.17    | Nickel          | TVS          | TVS                  |
|  |   | Sulfate                                 | ---       | WS      | Nickel(T)       | ---          | 100                  |
|  |   | Sulfide                                 | ---       | 0.002   | Selenium        | TVS          | TVS                  |
|  |   |   |           |         | Silver          | TVS          | TVS                  |
|  |   |   |           |         | Uranium         | varies*      | varies*              |
|  |   |   |           |         | Zinc            | TVS          | TVS                  |
| 4d. Mainstem of Cowdrey Drainage from immediately downstream of the Davidson Ditch to the confluence with South Boulder Creek. |   |   |           |         |                 |              |                      |
| COSPBO04D  | Classifications   | Physical and Biological                 |           |         | Metals (ug/L)   |              |                      |
| Designation  | Agriculture   |   | DM        | MWAT    |                 |              |                      |
| UP   | Aq Life Warm 2<br>Recreation E<br>Water Supply                | Temperature °C                          | WS-II     | WS-II   | Arsenic         | acute<br>340 | chronic<br>---       |
| Qualifiers:  |   |   | acute     | chronic | Arsenic(T)      | ---          | 0.02-10 <sup>A</sup> |
| Other:   |   | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS          | TVS                  |
|  |   | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0          | ---                  |
|  |   | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150     | Chromium III    | ---          | TVS                  |
|  |   | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50           | ---                  |
|  |   | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS          | TVS                  |
|  |   |   | acute     | chronic | Copper          | TVS          | TVS                  |
|  |   | Ammonia                                 | TVS       | TVS     | Iron            | ---          | WS                   |
|  |   | Boron                                   | ---       | 0.75    | Iron(T)         | ---          | 1000                 |
|  |   | Chloride                                | ---       | 250     | Lead            | TVS          | TVS                  |
|  |   | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50           | ---                  |
|  |   | Cyanide                                 | 0.005     | ---     | Manganese       | TVS          | TVS/WS               |
|  |   | Nitrate                                 | 10        | ---     | Mercury(T)      | ---          | 0.01                 |
|  |   | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---          | 150                  |
|  |   | Phosphorus                              | ---       | 0.17    | Nickel          | TVS          | TVS                  |
|  |   | Sulfate                                 | ---       | WS      | Nickel(T)       | ---          | 100                  |
|  |   | Sulfide                                 | ---       | 0.002   | Selenium        | TVS          | TVS                  |
|  |   |   |           |         | Silver          | TVS          | TVS                  |
|  |   |   |           |         | Uranium         | varies*      | varies*              |
|  |   |   |           |         | Zinc            | TVS          | TVS                  |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

| 5. Mainstem of South Boulder Creek from South Boulder Road to the confluence with Boulder Creek. |                 |   |           |         |                 |         |         |
|--|-----------------|---|-----------|---------|-----------------|---------|---------|
| COSPBO05   | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                          | WS-II     | WS-II   | Arsenic         | 340     | ---     |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>   |                 | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>  |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):   |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid  |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024  |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |   |           |         | Silver          | TVS     | TVS     |
|  |                 |   |           |         | Uranium         | varies* | varies* |
|  |                 |   |           |         | Zinc            | TVS     | TVS     |

  

| 6. Mainstem of Coal Creek, including all tributaries and wetlands, from the source to Highway 93. |                 |   |           |         |                 |         |                      |
|---|-----------------|---|-----------|---------|-----------------|---------|----------------------|
| COSPBO06  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |                      |
| Designation   | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |                      |
| Reviewable  | Aq Life Cold 2  | Temperature °C                          | CS-II     | CS-II   | Arsenic         | 340     | ---                  |
|   | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|   | Water Supply    | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS                  |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---                  |
| <b>Other:</b>   |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.  |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150     | Chromium III(T) | 50      | ---                  |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS                  |
|   |                 | <b>Inorganic (mg/L)</b>                 |           |         | Copper          | TVS     | TVS                  |
|   |                 |   | acute     | chronic | Iron            | ---     | WS                   |
|   |                 | Ammonia                                 | TVS       | TVS     | Iron(T)         | ---     | 1000                 |
|   |                 | Boron                                   | ---       | 0.75    | Lead            | TVS     | TVS                  |
|   |                 | Chloride                                | ---       | 250     | Lead(T)         | 50      | ---                  |
|   |                 | Chlorine                                | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS               |
|   |                 | Cyanide                                 | 0.005     | ---     | Mercury(T)      | ---     | 0.01                 |
|   |                 | Nitrate                                 | 10        | ---     | Molybdenum(T)   | ---     | 150                  |
|   |                 | Nitrite                                 | ---       | 0.05    | Nickel          | TVS     | TVS                  |
|   |                 | Phosphorus                              | ---       | 0.11    | Nickel(T)       | ---     | 100                  |
|   |                 | Sulfate                                 | ---       | WS      | Selenium        | TVS     | TVS                  |
|   |                 | Sulfide                                 | ---       | 0.002   | Silver          | TVS     | TVS(tr)              |
|   |                 |   |           |         | Uranium         | varies* | varies*              |
|   |                 |   |           |         | Zinc            | TVS     | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 7a. Mainstem of Coal Creek from Highway 93 to Highway 36 (Boulder Turnpike). |  |  |                         |         |                 |         |         |
|--|--|--|-------------------------|---------|-----------------|---------|---------|
| COSPBO07A  | Classifications  | Physical and Biological                      |                         |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture  | DM   | MWAT                    | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1   | Temperature °C                               | WS-II                   | WS-II   | Arsenic         | 340     | ---     |
|  | Recreation E   |  | acute                   | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |  | D.O. (mg/L)                                  | ---                     | 5.0     | Cadmium         | TVS     | TVS     |
|  |  | pH   | 6.5 - 9.0               | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |  | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | 150     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | <b>E. Coli</b> , <b>E. coli</b> (per 100 mL) | ---                     | 126     | Chromium III(T) | 50      | ---     |
|  |  |  | <b>Inorganic (mg/L)</b> |         | Chromium VI     | TVS     | TVS     |
|  |  |  | acute                   | chronic | Copper          | TVS     | TVS     |
|  |  | Ammonia                                      | TVS                     | TVS     | Iron            | ---     | WS      |
|  |  | Boron  | ---                     | 0.75    | Iron(T)         | ---     | 1000    |
|  |  | Chloride                                     | ---                     | 250     | Lead            | TVS     | TVS     |
|  |  | Chlorine                                     | 0.019                   | 0.011   | Lead(T)         | 50      | ---     |
|  |  | Cyanide                                      | 0.005                   | ---     | Manganese       | TVS     | TVS/WS  |
|  |  | Nitrate                                      | 10                      | ---     | Mercury(T)      | ---     | 0.01    |
|  |  | Nitrite                                      | ---                     | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |  | Phosphorus                                   | ---                     | 0.17    | Nickel          | TVS     | TVS     |
|  |  | Sulfate                                      | ---                     | WS      | Nickel(T)       | ---     | 100     |
|  |  | Sulfide                                      | ---                     | 0.002   | Selenium        | TVS     | TVS     |
|  |  |  |                         |         | Silver          | TVS     | TVS     |
|  |  |  |                         |         | Uranium         | varies* | varies* |
|  |  |  |                         |         | Zinc            | TVS     | TVS     |

| 7b. Mainstem of Coal Creek from Highway 36 to the confluence with Boulder Creek. |  |  |                         |         |                 |         |         |
|--|--|--|-------------------------|---------|-----------------|---------|---------|
| COSPBO07B  | Classifications  | Physical and Biological                      |                         |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture  | DM   | MWAT                    | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1   | Temperature °C                               | WS-I                    | WS-I    | Arsenic         | 340     | ---     |
|  | Recreation E   |  | acute                   | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |  | D.O. (mg/L)                                  | ---                     | 5.0     | Cadmium         | TVS     | TVS     |
|  |  | pH   | 6.5 - 9.0               | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |  | chlorophyll a (mg/m <sup>2</sup> )           | ---                     | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | <b>E. Coli</b> , <b>E. coli</b> (per 100 mL) | ---                     | 126     | Chromium III(T) | 50      | ---     |
|  |  |  | <b>Inorganic (mg/L)</b> |         | Chromium VI     | TVS     | TVS     |
|  |  |  | acute                   | chronic | Copper          | TVS     | TVS     |
|  |  | Ammonia                                      | TVS                     | TVS     | Iron            | ---     | WS      |
|  |  | Boron  | ---                     | 0.75    | Iron(T)         | ---     | 1000    |
|  |  | Chloride                                     | ---                     | 250     | Lead            | TVS     | TVS     |
|  |  | Chlorine                                     | 0.019                   | 0.011   | Lead(T)         | 50      | ---     |
|  |  | Cyanide                                      | 0.005                   | ---     | Manganese       | TVS     | TVS/WS  |
|  |  | Nitrate                                      | 10                      | ---     | Mercury(T)      | ---     | 0.01    |
|  |  | Nitrite                                      | ---                     | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |  | Phosphorus                                   | ---                     | ---     | Nickel          | TVS     | TVS     |
|  |  | Sulfate                                      | ---                     | WS      | Nickel(T)       | ---     | 100     |
|  |  | Sulfide                                      | ---                     | 0.002   | Selenium        | TVS     | TVS     |
|  |  |  |                         |         | Silver          | TVS     | TVS     |
|  |  |  |                         |         | Uranium         | varies* | varies* |
|  |  |  |                         |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



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

| 10. Mainstem of Boulder Creek from the confluence with Coal Creek to the confluence with St. Vrain Creek. |                 |  |           |         |                 |         |         |
|---|-----------------|--|-----------|---------|-----------------|---------|---------|
| COSPBO10  | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture     | DM   | MWAT      | acute   | chronic         |         |         |
| Reviewable  | Aq Life Warm 1  | Temperature °C                                 | WS-II     | WS-II   | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                                    | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):  |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid   |                 | <b>Inorganic (mg/L)</b>                        |           |         | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024   |                 |  | acute     | chronic | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Ammonia  | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Boron  | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|   |                 | Chloride                                       | ---       | 250     | Lead            | TVS     | TVS     |
|   |                 | Chlorine                                       | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|   |                 | Cyanide  | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|   |                 | Nitrate  | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrite  | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|   |                 | Phosphorus                                     | ---       | ---     | Nickel          | TVS     | TVS     |
|   |                 | Sulfate  | ---       | WS      | Nickel(T)       | ---     | 100     |
|   |                 | Sulfide  | ---       | 0.002   | Selenium        | TVS     | TVS     |
|   |                 |  |           |         | Silver          | TVS     | TVS     |
|   |                 |  |           |         | Uranium         | varies* | varies* |
|   |                 |  |           |         | Zinc            | TVS     | TVS     |

11. All tributaries to Boulder Creek, including all wetlands from a point immediately above the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except for specific listings in Segments 5, 7a and 7b.

| 11. All tributaries to Boulder Creek, including all wetlands from a point immediately above the confluence with South Boulder Creek to the confluence with St. Vrain Creek, except for specific listings in Segments 5, 7a and 7b. |                 |  |           |         |                 |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| COSPBO11   | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM   | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                                 | WS-II     | WS-II   | Arsenic         | 340     | ---     |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                                    | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>   |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>  |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):   |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid  |                 | <b>Inorganic (mg/L)</b>                        |           |         | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024  |                 |  | acute     | chronic | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Ammonia  | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Boron  | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |                 | Chloride                                       | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                                       | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide  | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate  | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite  | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                                     | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate  | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide  | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |  |           |         | Silver          | TVS     | TVS     |
|  |                 |  |           |         | Uranium         | varies* | varies* |
|  |                 |  |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 12. Deleted.  |                 |  |                  |            |                 |                 |     |
|---|-----------------|--|------------------|------------|-----------------|-----------------|-----|
| COSPBO12  | Classifications | Physical and Biological                    |                  |            | Metals (ug/L)   |                 |     |
| Designation   |                 | DM   | MWAT             | acute      | chronic         |                 |     |
|   |                 |  |                  |            |                 |                 |     |
| <b>Qualifiers:</b>  |                 | acute                                      | chronic          |            |                 |                 |     |
| <b>Other:</b>   |                 |  |                  |            |                 |                 |     |
|   |                 | Inorganic (mg/L)                           |                  |            |                 |                 |     |
|   |                 | acute                                      | chronic          |            |                 |                 |     |
|   |                 |  |                  |            |                 |                 |     |
| 13. All lakes and reservoirs tributary to Boulder Creek that are within the boundary of the Indian Peaks and James Peak Wilderness Areas.   |                 |  |                  |            |                 |                 |     |
| COSPBO13  | Classifications | Physical and Biological                    |                  |            | Metals (ug/L)   |                 |     |
| Designation   |                 | DM   | MWAT             | acute      | chronic         |                 |     |
|   | Agriculture     |  |                  |            |                 |                 |     |
| OW  | Aq Life Cold 1  | CL   | CL               | Arsenic    | 340             | ---             |     |
|   | Recreation E    | acute                                      | chronic          | Arsenic(T) | ---             | 0.02            |     |
|   | Water Supply    | D.O. (mg/L)                                | ---              | 6.0        | Cadmium         | TVS TVS         |     |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                            | ---              | 7.0        | Cadmium(T)      | 5.0 ---         |     |
| <b>Other:</b><br><br>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | pH   | 6.5 - 9.0        | ---        | Chromium III    | ---             |     |
|   |                 | chlorophyll a (ug/L)                       | ---              | 8*         | Chromium III(T) | 50 ---          |     |
|   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---              | 126        | Chromium VI     | TVS TVS         |     |
|   |                 |  |                  |            | Copper          | TVS TVS         |     |
|   |                 |  |                  |            | Iron            | ---             |     |
|   |                 |  | Inorganic (mg/L) |            |                 | Iron(T)         | --- |
|   |                 |  | acute            | chronic    | Lead            | TVS TVS         |     |
|   |                 | Ammonia                                    | TVS              | TVS        | Lead(T)         | 50 ---          |     |
|   |                 | Boron                                      | ---              | 0.75       | Manganese       | TVS TVS/WS      |     |
|   |                 | Chloride                                   | ---              | 250        | Mercury(T)      | ---             |     |
|   |                 | Chlorine                                   | 0.019            | 0.011      | Molybdenum(T)   | ---             |     |
|   |                 | Cyanide                                    | 0.005            | ---        | Nickel          | TVS TVS         |     |
|   |                 | Nitrate                                    | 10               | ---        | Nickel(T)       | ---             |     |
|   |                 | Nitrite                                    | ---              | 0.05       | Selenium        | TVS TVS         |     |
|   |                 | Phosphorus                                 | ---              | 0.025*     | Silver          | TVS TVS(tr)     |     |
|   |                 | Sulfate                                    | ---              | WS         | Uranium         | varies* varies* |     |
|   |                 | Sulfide                                    | ---              | 0.002      | Zinc            | TVS TVS         |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 14. All lakes and reservoirs tributary to Boulder Creek from the source to a point immediately above the South Boulder Creek confluence, except as specified in Segment 13. This segment includes Barker and Lakewood Reservoir. |                 |  |              |                |               |                      |
|--|-----------------|--|--------------|----------------|---------------|----------------------|
| COSPBO14   | Classifications | Physical and Biological                      |              |                | Metals (ug/L) |                      |
| Designation  | Agriculture     |  | <b>DM</b>    | <b>MWAT</b>    | <b>acute</b>  | <b>chronic</b>       |
| Reviewable   | Aq Life Cold 1  | Temperature °C                               | varies*      | varies*        | 340           | ---                  |
|  | Recreation E    |  | <b>acute</b> | <b>chronic</b> | ---           | 0.02                 |
|  | Water Supply    | D.O. (mg/L)                                  | ---          | 6.0            | TVS           | TVS                  |
|  | DUWS*           | D.O. (spawning)                              | ---          | 7.0            | 5.0           | ---                  |
| Qualifiers:  |                 | pH   | 6.5 - 9.0    | ---            | ---           | TVS                  |
| Other:   |                 | chlorophyll a (ug/L)                         | ---          | 8*             | 50            | ---                  |
| Temporary Modification(s):   |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | TVS           | TVS                  |
| Arsenic(chronic) = hybrid  |                 |  |              |                | TVS           | TVS                  |
| Expiration Date of 12/31/2024  |                 |  |              |                | ---           | WS                   |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  |                 | Inorganic (mg/L)                             |              |                | ---           | 1000                 |
| *Classification: DUWS applies to Lakewood Reservoir only.  |                 |  | <b>acute</b> | <b>chronic</b> | TVS           | TVS                  |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  |                 | Ammonia                                      | TVS          | TVS            | TVS           | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Boron  | ---          | 0.75           | TVS           | TVS/WS               |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Chloride                                     | ---          | 250            | ---           | 0.01                 |
| *Temperature =   |                 | Chlorine                                     | 0.019        | 0.011          | ---           | 150                  |
| DM and MWAT=CL,CLL from 1/1-3/31 Barker Reservoir  |                 | Cyanide                                      | 0.005        | ---            | TVS           | TVS                  |
| DM=CL and MWAT=16.6 from 4/1-12/31 All others  |                 | Nitrate                                      | 10           | ---            | ---           | 100                  |
| DM and MWAT=CL,CLL from 4/1-12/31  |                 | Nitrite                                      | ---          | 0.05           | TVS           | TVS                  |
|  |                 | Phosphorus                                   | ---          | 0.025*         | TVS           | TVS(tr)              |
|  |                 | Sulfate                                      | ---          | WS             | varies*       | varies*              |
|  |                 | Sulfide                                      | ---          | 0.002          | TVS           | TVS                  |
| 15. All lakes and reservoirs tributary to South Boulder Creek from the source to Highway 93. All lakes and reservoirs tributary to Coal Creek from the source to Highway 93 except for specific listings in segments 13 and 18.  |                 |  |              |                |               |                      |
| COSPBO15   | Classifications | Physical and Biological                      |              |                | Metals (ug/L) |                      |
| Designation  | Agriculture     |  | <b>DM</b>    | <b>MWAT</b>    | <b>acute</b>  | <b>chronic</b>       |
| Reviewable   | Aq Life Cold 2  | Temperature °C                               | CL           | CL             | 340           | ---                  |
|  | Recreation E    |  | <b>acute</b> | <b>chronic</b> | ---           | 0.02-10 <sup>A</sup> |
|  | Water Supply    | D.O. (mg/L)                                  | ---          | 6.0            | TVS           | TVS                  |
|  | DUWS*           | D.O. (spawning)                              | ---          | 7.0            | 5.0           | ---                  |
| Qualifiers:  |                 | pH   | 6.5 - 9.0    | ---            | ---           | TVS                  |
| Other:   |                 | chlorophyll a (ug/L)                         | ---          | 8*             | 50            | ---                  |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | TVS           | TVS                  |
| *Classification: DUWS applies to Kossler Lake only.  |                 |  |              |                | TVS           | TVS                  |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  |                 | Inorganic (mg/L)                             |              |                | ---           | 1000                 |
| *Uranium(acute) = See 38.5(3) for details.   |                 |  | <b>acute</b> | <b>chronic</b> | TVS           | TVS                  |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Ammonia                                      | TVS          | TVS            | 50            | ---                  |
|  |                 | Boron  | ---          | 0.75           | TVS           | TVS/WS               |
|  |                 | Chloride                                     | ---          | 250            | ---           | 0.01                 |
|  |                 | Chlorine                                     | 0.019        | 0.011          | ---           | 150                  |
|  |                 | Cyanide                                      | 0.005        | ---            | TVS           | TVS                  |
|  |                 | Nitrate                                      | 10           | ---            | ---           | 100                  |
|  |                 | Nitrite                                      | ---          | 0.05           | TVS           | TVS                  |
|  |                 | Phosphorus                                   | ---          | 0.025*         | TVS           | TVS(tr)              |
|  |                 | Sulfate                                      | ---          | WS             | varies*       | varies*              |
|  |                 | Sulfide                                      | ---          | 0.002          | TVS           | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Boulder Creek Basin

16. All lakes and reservoirs tributary to South Boulder Creek system from Highway 93 to the confluence with Boulder Creek. All lakes and reservoirs tributary to Coal Creek system from Highway 93 to the confluence with Boulder Creek.

| COSPBO16  | Classifications | Physical and Biological                      |           |            | Metals (ug/L)   |                      |         |  |
|---|-----------------|--|-----------|------------|-----------------|----------------------|---------|--|
| Designation   | Agriculture     | DM   | MWAT      | acute      | chronic         |                      |         |  |
| Reviewable  | Aq Life Warm 2  | WL   | WL        | Arsenic    | 340             | ---                  |         |  |
|   | Recreation E    | acute  | chronic   | Arsenic(T) | ---             | 0.02-10 <sup>A</sup> |         |  |
|   | Water Supply    | D.O. (mg/L)                                  | ---       | 5.0        | Cadmium         | TVS                  | TVS     |  |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0 | ---        | Cadmium(T)      | 5.0                  | ---     |  |
| <b>Other:</b><br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | chlorophyll a (ug/L)                         | ---       | ---        | Chromium III    | ---                  | TVS     |  |
|   |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium III(T) | 50                   | ---     |  |
|   |                 | Inorganic (mg/L)                             |           |            | Chromium VI     | TVS                  | TVS     |  |
|   |                 | acute  | chronic   | Copper     | TVS             | TVS                  |         |  |
|   |                 | Ammonia                                      | TVS       | TVS        | Iron            | ---                  | WS      |  |
|   |                 | Boron  | ---       | 0.75       | Iron(T)         | ---                  | 1000    |  |
|   |                 | Chloride                                     | ---       | 250        | Lead            | TVS                  | TVS     |  |
|   |                 | Chlorine                                     | 0.019     | 0.011      | Lead(T)         | 50                   | ---     |  |
|   |                 | Cyanide                                      | 0.005     | ---        | Manganese       | TVS                  | TVS/WS  |  |
|   |                 | Nitrate                                      | 10        | ---        | Mercury(T)      | ---                  | 0.01    |  |
|   |                 | Nitrite                                      | ---       | 0.5        | Molybdenum(T)   | ---                  | 150     |  |
|   |                 | Phosphorus                                   | ---       | ---        | Nickel          | TVS                  | TVS     |  |
|   |                 | Sulfate                                      | ---       | WS         | Nickel(T)       | ---                  | 100     |  |
|   |                 | Sulfide                                      | ---       | 0.002      | Selenium        | TVS                  | TVS     |  |
|   |                 |  |           |            | Silver          | TVS                  | TVS     |  |
|   |                 |  |           |            | Uranium         | varies*              | varies* |  |
|   |                 |  |           |            | Zinc            | TVS                  | TVS     |  |

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

| COSPBO17  | Classifications | Physical and Biological                      |           |            | Metals (ug/L)   |         |         |  |
|---|-----------------|--|-----------|------------|-----------------|---------|---------|--|
| Designation   | Agriculture     | DM   | MWAT      | acute      | chronic         |         |         |  |
| Reviewable  | Aq Life Warm 2  | WL   | WL        | Arsenic    | 340             | ---     |         |  |
|   | Recreation E    | acute  | chronic   | Arsenic(T) | ---             | 0.02    |         |  |
|   | Water Supply    | D.O. (mg/L)                                  | ---       | 5.0        | Cadmium         | TVS     | TVS     |  |
|   | DUWS*           | pH   | 6.5 - 9.0 | ---        | Cadmium(T)      | 5.0     | ---     |  |
| <b>Qualifiers:</b>  |                 | chlorophyll a (ug/L)                         | ---       | ---        | Chromium III    | ---     | TVS     |  |
| <b>Water + Fish Standards</b><br><br><b>Other:</b><br><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Classification: DUWS applies to Goosehaven Reservoir, Erie Lake, Twomile Canyon Reservoir, Baseline Reservoir, Marshall Reservoir, Thomas Reservoir and Waneka Reservoir only.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium III(T) | 50      | ---     |  |
|   |                 | Inorganic (mg/L)                             |           |            | Chromium VI     | TVS     | TVS     |  |
|   |                 | acute  | chronic   | Copper     | TVS             | TVS     |         |  |
|   |                 | Ammonia                                      | TVS       | TVS        | Iron            | ---     | WS      |  |
|   |                 | Boron  | ---       | 0.75       | Iron(T)         | ---     | 1000    |  |
|   |                 | Chloride                                     | ---       | 250        | Lead            | TVS     | TVS     |  |
|   |                 | Chlorine                                     | 0.019     | 0.011      | Lead(T)         | 50      | ---     |  |
|   |                 | Cyanide                                      | 0.005     | ---        | Manganese       | TVS     | TVS/WS  |  |
|   |                 | Nitrate                                      | 10        | ---        | Mercury(T)      | ---     | 0.01    |  |
|   |                 | Nitrite                                      | ---       | 0.5        | Molybdenum(T)   | ---     | 150     |  |
|   |                 | Phosphorus                                   | ---       | ---        | Nickel          | TVS     | TVS     |  |
|   |                 | Sulfate                                      | ---       | WS         | Nickel(T)       | ---     | 100     |  |
|   |                 | Sulfide                                      | ---       | 0.002      | Selenium        | TVS     | TVS     |  |
|   |                 |  |           |            | Silver          | TVS     | TVS     |  |
|   |                 |  |           |            | Uranium         | varies* | varies* |  |
|   |                 |  |           |            | Zinc            | TVS     | TVS     |  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



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

| 18. Gross Reservoir.  |                 |                             |           |                 |               |         |     |
|---|-----------------|-----------------------------|-----------|-----------------|---------------|---------|-----|
| COSPBO18  | Classifications | Physical and Biological     |           |                 | Metals (ug/L) |         |     |
| Designation   | Agriculture     | DM                          | MWAT      | acute           | chronic       |         |     |
| Reviewable  | Aq Life Cold 1  | varies*                     | varies*   | Arsenic         | 340           | ---     |     |
|   | Recreation E    | acute                       | chronic   | Arsenic(T)      | ---           | 0.02    |     |
|   | Water Supply    | D.O. (mg/L)                 | 6.0       | Cadmium         | TVS           | TVS     |     |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)             | 7.0       | Cadmium(T)      | 5.0           | ---     |     |
| <b>Other:</b>   |                 | pH                          | 6.5 - 9.0 | Chromium III    | ---           | TVS     |     |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. |                 | chlorophyll a (ug/L)        | 8*        | Chromium III(T) | 50            | ---     |     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.           |                 | <u>E. Coli</u> (per 100 mL) | 126       | Chromium VI     | TVS           | TVS     |     |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Inorganic (mg/L)            |           |                 | Copper        | TVS     | TVS |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | acute                       | chronic   | Iron            | ---           | WS      |     |
| *Temperature =  |                 | Ammonia                     | TVS       | TVS             | Iron(T)       | ---     |     |
| DM and MWAT=CLL from 1/1-3/31   |                 | Boron                       | ---       | 0.75            | Lead          | TVS     |     |
| DM=22.4 and MWAT=19.4 from 4/1-12/31  |                 | Chloride                    | ---       | 250             | Lead(T)       | 50      |     |
|   |                 | Chlorine                    | 0.019     | 0.011           | Manganese     | TVS     |     |
|   |                 | Cyanide                     | 0.005     | ---             | Mercury(T)    | ---     |     |
|   |                 | Nitrate                     | 10        | ---             | Molybdenum(T) | ---     |     |
|   |                 | Nitrite                     | ---       | 0.05            | Nickel        | TVS     |     |
|   |                 | Phosphorus                  | ---       | 0.025*          | Nickel(T)     | ---     |     |
|   |                 | Sulfate                     | ---       | WS              | Selenium      | TVS     |     |
|   |                 | Sulfide                     | ---       | 0.002           | Silver        | TVS     |     |
|   |                 |                             |           |                 | Uranium       | varies* |     |
|   |                 |                             |           |                 | Zinc          | TVS     |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

1. All tributaries to St. Vrain Creek, including all wetlands, which are within the Indian Peaks Wilderness Area and Rocky Mountain National Park.

| COSPSV01  | Classifications | Physical and Biological                 |           |          | Metals (ug/L)   |         |         |
|---|-----------------|---|-----------|----------|-----------------|---------|---------|
| Designation   | Agriculture     |   | DM        | MWAT     |                 | acute   | chronic |
| OW  | Aq Life Cold 1  | Temperature °C                          | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|   | Recreation E    |   | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                             | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                         | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|   |                 | pH                                      | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150      | Chromium III(T) | 50      | ---     |
|   |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|   |                 |   |           |          | Copper          | TVS     | TVS     |
|   |                 |   |           |          | Iron            | ---     | WS      |
|   |                 |   |           |          | Iron(T)         | ---     | 1000    |
|   |                 |   |           |          | Lead            | TVS     | TVS     |
|   |                 |   |           |          | Lead(T)         | 50      | ---     |
|   |                 |   |           |          | Manganese       | TVS     | TVS/WS  |
|   |                 |   |           |          | Mercury(T)      | ---     | 0.01    |
|   |                 |   |           |          | Molybdenum(T)   | ---     | 150     |
|   |                 |   |           |          | Nickel          | TVS     | TVS     |
|   |                 |   |           |          | Nickel(T)       | ---     | 100     |
|   |                 |   |           | Selenium | TVS             | TVS     |         |
|   |                 |   |           | Silver   | TVS             | TVS(tr) |         |
|   |                 |   |           | Uranium  | varies*         | varies* |         |
|   |                 |   |           | Zinc     | TVS             | TVS     |         |

2a. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park to the eastern boundary of Roosevelt National Forest.

| COSPSV02A   | Classifications | Physical and Biological                 |           |          | Metals (ug/L)   |         |         |
|---|-----------------|---|-----------|----------|-----------------|---------|---------|
| Designation   | Agriculture     |   | DM        | MWAT     |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1  | Temperature °C                          | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|   | Recreation E    |   | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                             | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                         | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|   |                 | pH                                      | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*     | Chromium III(T) | 50      | ---     |
|   |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|   |                 |   |           |          | Copper          | TVS     | TVS     |
|   |                 |   |           |          | Iron            | ---     | WS      |
|   |                 |   |           |          | Iron(T)         | ---     | 1000    |
|   |                 |   |           |          | Lead            | TVS     | TVS     |
|   |                 |   |           |          | Lead(T)         | 50      | ---     |
|   |                 |   |           |          | Manganese       | TVS     | TVS/WS  |
|   |                 |   |           |          | Mercury(T)      | ---     | 0.01    |
|   |                 |   |           |          | Molybdenum(T)   | ---     | 150     |
|   |                 |   |           |          | Nickel          | TVS     | TVS     |
|   |                 |   |           |          | Nickel(T)       | ---     | 100     |
|   |                 |   |           | Selenium | TVS             | TVS     |         |
|   |                 |   |           | Silver   | TVS             | TVS(tr) |         |
|   |                 |   |           | Uranium  | varies*         | varies* |         |
|   |                 |   |           | Zinc     | TVS             | TVS     |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

| 2b. Mainstem of St. Vrain Creek, including all tributaries and wetlands, from the eastern boundary of Roosevelt National Forest to Hygiene Road. |  |                                     |           |                    |                 |                      |
|--|--|-------------------------------------|-----------|--------------------|-----------------|----------------------|
| COSPSV02B  | Classifications                                | Physical and Biological             |           |                    | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    | DM                                  | MWAT      | acute      chronic |                 |                      |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                      | CS-II     | CS-II              | Arsenic         | 340      ---         |
|  |  | <b>acute      chronic</b>           |           |                    | Arsenic(T)      | ---      0.02        |
| <b>Qualifiers:</b>   |  | D.O. (mg/L)                         | ---       | 6.0                | Cadmium         | TVS      TVS         |
| <b>Other:</b>  |  | D.O. (spawning)                     | ---       | 7.0                | Cadmium(T)      | 5.0      ---         |
| Temporary Modification(s):   |  | pH                                  | 6.5 - 9.0 | ---                | Chromium III    | ---      TVS         |
| Arsenic(chronic) = hybrid  |  | chlorophyll a (mg/m <sup>2</sup> )  | ---       | 150*               | Chromium III(T) | 50      ---          |
| Expiration Date of 12/31/2024  |  | <b>E. Coli E. coli</b> (per 100 mL) | ---       | 126                | Chromium VI     | TVS      TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |  | <b>Inorganic (mg/L)</b>             |           |                    | Copper          | TVS      TVS         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |  |                                     |           |                    | Iron            | ---      WS          |
| *Uranium(acute) = See 38.5(3) for details.   |  |                                     |           |                    | Iron(T)         | ---      1000        |
| *Uranium(chronic) = See 38.5(3) for details.   |  |                                     |           |                    | Lead            | TVS      TVS         |
|  |  | Ammonia                             | TVS       | TVS                | Lead(T)         | 50      ---          |
|  |  | Boron                               | ---       | 0.75               | Manganese       | TVS      TVS/WS      |
|  |  | Chloride                            | ---       | 250                | Mercury(T)      | ---      0.01        |
|  |  | Chlorine                            | 0.019     | 0.011              | Molybdenum(T)   | ---      150         |
|  |  | Cyanide                             | 0.005     | ---                | Nickel          | TVS      TVS         |
|  |  | Nitrate                             | 10        | ---                | Nickel(T)       | ---      100         |
|  |  | Nitrite                             | ---       | 0.05               | Selenium        | TVS      TVS         |
|  |  | Phosphorus                          | ---       | 0.11*              | Silver          | TVS      TVS(tr)     |
|  |  | Sulfate                             | ---       | WS                 | Uranium         | varies*      varies* |
|  |  | Sulfide                             | ---       | 0.002              | Zinc            | TVS      TVS         |

| 3. Mainstem of St. Vrain Creek from Hygiene Road to the confluence with the South Platte River. |  |                                     |           |                    |                 |                      |
|---|--|-------------------------------------|-----------|--------------------|-----------------|----------------------|
| COSPSV03  | Classifications                                | Physical and Biological             |           |                    | Metals (ug/L)   |                      |
| Designation   | Agriculture                                    | DM                                  | MWAT      | acute      chronic |                 |                      |
| Reviewable  | Aq Life Warm 1<br>Water Supply<br>Recreation E | Temperature °C                      | WS-I      | WS-I               | Arsenic         | 340      ---         |
|   |  | <b>acute      chronic</b>           |           |                    | Arsenic(T)      | ---      0.02        |
| <b>Qualifiers:</b>  |  | D.O. (mg/L)                         | ---       | 5.0                | Cadmium         | TVS      TVS         |
| <b>Other:</b>   |  | pH                                  | 6.5 - 9.0 | ---                | Cadmium(T)      | 5.0      ---         |
| Temporary Modification(s):  |  | chlorophyll a (mg/m <sup>2</sup> )  | ---       | ---                | Chromium III    | ---      TVS         |
| Arsenic(chronic) = hybrid   |  | <b>E. Coli E. coli</b> (per 100 mL) | ---       | 126                | Chromium III(T) | 50      ---          |
| Expiration Date of 12/31/2024   |  | <b>Inorganic (mg/L)</b>             |           |                    | Chromium VI     | TVS      TVS         |
| *Uranium(acute) = See 38.5(3) for details.  |  |                                     |           |                    | Copper          | TVS      TVS         |
| *Uranium(chronic) = See 38.5(3) for details.  |  |                                     |           |                    | Iron            | ---      WS          |
|   |  | Ammonia                             | TVS       | TVS                | Iron(T)         | ---      1000        |
|   |  | Boron                               | ---       | 0.75               | Lead            | TVS      TVS         |
|   |  | Chloride                            | ---       | 250                | Lead(T)         | 50      ---          |
|   |  | Chlorine                            | 0.019     | 0.011              | Manganese       | TVS      TVS/WS      |
|   |  | Cyanide                             | 0.005     | ---                | Mercury(T)      | ---      0.01        |
|   |  | Nitrate                             | 10        | ---                | Molybdenum(T)   | ---      150         |
|   |  | Nitrite                             | ---       | 0.5                | Nickel          | TVS      TVS         |
|   |  | Phosphorus                          | ---       | ---                | Nickel(T)       | ---      100         |
|   |  | Sulfate                             | ---       | WS                 | Selenium        | TVS      TVS         |
|   |  | Sulfide                             | ---       | 0.002              | Silver          | TVS      TVS         |
|   |  |                                     |           |                    | Uranium         | varies*      varies* |
|   |  |                                     |           |                    | Zinc            | TVS      TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## St. Vrain Creek Basin

| 4a. Mainstem of Left Hand Creek, including all tributaries and wetlands, from the source to a point immediately below the confluence with James Creek, except for specific listings in Segment 4b. |   |                         |         |  |                 |         |     |
|--|---|-------------------------|---------|--|-----------------|---------|-----|
| COSPSV04A  | Classifications   | Physical and Biological |         |  | Metals (ug/L)   |         |     |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                      | MWAT    | acute                                      | chronic         |         |     |
| UP   |   |                         | CS-I    | CS-I                                       | ---             | ---     | --- |
|  |   | acute                   | chronic | Temperature °C                             | Arsenic         | 340     |     |
|  |   | ---                     | 6.0     | D.O. (mg/L)                                | Arsenic(T)      | ---     |     |
|  |   | ---                     | 7.0     | D.O. (spawning)                            | Cadmium         | TVS     |     |
|  |   | 6.5 - 9.0               | ---     | pH   | Cadmium(T)      | 5.0     |     |
|  |   | ---                     | 150     | chlorophyll a (mg/m <sup>2</sup> )         | Chromium III    | ---     |     |
|  |   | ---                     | 126     | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | Chromium III(T) | 50      |     |
|  |   | Inorganic (mg/L)        |         |  | Chromium VI     | TVS     | TVS |
|  |   | acute                   | chronic | Copper                                     | TVS             | TVS     |     |
|  |   | TVS                     | TVS     | Iron                                       | ---             | WS      |     |
|  |   | ---                     | 0.75    | Iron(T)                                    | ---             | 1000    |     |
|  |   | ---                     | 250     | Lead                                       | TVS             | TVS     |     |
|  |   | 0.019                   | 0.011   | Lead(T)                                    | 50              | ---     |     |
|  |   | 0.005                   | ---     | Manganese                                  | TVS             | TVS/WS  |     |
|  |   | 10                      | ---     | Mercury(T)                                 | ---             | 0.01    |     |
|  |   | ---                     | 0.05    | Molybdenum(T)                              | ---             | 150     |     |
|  |   | ---                     | 0.11    | Nickel                                     | TVS             | TVS     |     |
|  |   | ---                     | WS      | Nickel(T)                                  | ---             | 100     |     |
|  |   | ---                     | 0.002   | Selenium                                   | TVS             | TVS     |     |
|  |   | ---                     | ---     | Silver                                     | TVS             | TVS(tr) |     |
|  |   | ---                     | ---     | Uranium                                    | varies*         | varies* |     |
|  |   | ---                     | ---     | Zinc                                       | TVS             | TVS     |     |

  

| 4b. Mainstem of James Creek, including all tributaries and wetlands, from the source to the confluence with Left Hand Creek. |   |                         |         |  |                 |         |     |
|--|---|-------------------------|---------|--|-----------------|---------|-----|
| COSPSV04B  | Classifications   | Physical and Biological |         |  | Metals (ug/L)   |         |     |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                      | MWAT    | acute                                      | chronic         |         |     |
| Reviewable   |   |                         | CS-I    | CS-I                                       | ---             | ---     | --- |
|  |   | acute                   | chronic | Temperature °C                             | Arsenic         | 340     |     |
|  |   | ---                     | 6.0     | D.O. (mg/L)                                | Arsenic(T)      | ---     |     |
|  |   | ---                     | 7.0     | D.O. (spawning)                            | Cadmium         | TVS     |     |
|  |   | 6.5 - 9.0               | ---     | pH   | Cadmium(T)      | 5.0     |     |
|  |   | ---                     | 150     | chlorophyll a (mg/m <sup>2</sup> )         | Chromium III    | ---     |     |
|  |   | ---                     | 126     | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | Chromium III(T) | 50      |     |
|  |   | Inorganic (mg/L)        |         |  | Chromium VI     | TVS     | TVS |
|  |   | acute                   | chronic | Copper                                     | TVS             | TVS     |     |
|  |   | TVS                     | TVS     | Iron                                       | ---             | WS      |     |
|  |   | ---                     | 0.75    | Iron(T)                                    | ---             | 1000    |     |
|  |   | ---                     | 250     | Lead                                       | TVS             | TVS     |     |
|  |   | 0.019                   | 0.011   | Lead(T)                                    | 50              | ---     |     |
|  |   | 0.005                   | ---     | Manganese                                  | TVS             | TVS/WS  |     |
|  |   | 10                      | ---     | Mercury(T)                                 | ---             | 0.01    |     |
|  |   | ---                     | 0.05    | Molybdenum(T)                              | ---             | 150     |     |
|  |   | ---                     | 0.11    | Nickel                                     | TVS             | TVS     |     |
|  |   | ---                     | WS      | Nickel(T)                                  | ---             | 100     |     |
|  |   | ---                     | 0.002   | Selenium                                   | TVS             | TVS     |     |
|  |   | ---                     | ---     | Silver                                     | TVS             | TVS(tr) |     |
|  |   | ---                     | ---     | Uranium                                    | varies*         | varies* |     |
|  |   | ---                     | ---     | Zinc                                       | TVS             | TVS     |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 4c. Mainstem of Left Hand Creek, including all tributaries and wetlands, from a point immediately below the confluence with James Creek to Highway 36.                                     |  |  |           |         |                  |         |         |     |    |
|--|--|--|-----------|---------|------------------|---------|---------|-----|----|
| COSPSV04C  | Classifications                                | Physical and Biological                                      |           |         | Metals (ug/L)    |         |         |     |    |
| Designation  | Agriculture                                    |  | DM        | MWAT    |                  | acute   | chronic |     |    |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C   | CS-II     | CS-II   | Arsenic          | 340     | ---     |     |    |
|  |  |  | acute     | chronic | Arsenic(T)       | ---     | 0.02    |     |    |
| Qualifiers:  |  | D.O. (mg/L)  | ---       | 6.0     | Cadmium          | TVS     | TVS     |     |    |
| Other:   |  | D.O. (spawning)  | ---       | 7.0     | Cadmium(T)       | 5.0     | ---     |     |    |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | pH   | 6.5 - 9.0 | ---     | Chromium III     | ---     | TVS     |     |    |
|  |  | chlorophyll a (mg/m <sup>2</sup> )                           | ---       | 150     | Chromium III(T)  | 50      | ---     |     |    |
|  |  | <span style="color: red;">E.-ColiE. coli</span> (per 100 mL) | ---       | 126     | Chromium VI      | TVS     | TVS     |     |    |
|  |  |  |           |         | Inorganic (mg/L) | Copper  | TVS     | TVS |    |
|  |  |  |           |         | acute            | chronic | Iron    | --- | WS |
|  |  | Ammonia  | TVS       | TVS     | Iron(T)          | ---     | 1000    |     |    |
|  |  | Boron  | ---       | 0.75    | Lead             | TVS     | TVS     |     |    |
|  |  | Chloride   | ---       | 250     | Lead(T)          | 50      | ---     |     |    |
|  |  | Chlorine   | 0.019     | 0.011   | Manganese        | TVS     | TVS/WS  |     |    |
|  |  | Cyanide  | 0.005     | ---     | Mercury(T)       | ---     | 0.01    |     |    |
|  |  | Nitrate  | 10        | ---     | Mercury(T)       | ---     | 150     |     |    |
|  |  | Nitrite  | ---       | 0.05    | Nickel           | TVS     | TVS     |     |    |
|  |  | Phosphorus   | ---       | 0.11    | Nickel(T)        | ---     | 100     |     |    |
|  |  | Sulfate  | ---       | WS      | Selenium         | TVS     | TVS     |     |    |
|  |  | Sulfide  | ---       | 0.002   | Silver           | TVS     | TVS(tr) |     |    |
|  |  |  |           |         | Uranium          | varies* | varies* |     |    |
|  |  |  |           |         | Zinc             | TVS     | TVS     |     |    |
| 5. Mainstem of Left Hand Creek, including all tributaries and wetlands from Highway 36 to the confluence with St. Vrain Creek.   |  |  |           |         |                  |         |         |     |    |
| COSPSV05   | Classifications                                | Physical and Biological                                      |           |         | Metals (ug/L)    |         |         |     |    |
| Designation  | Agriculture                                    |  | DM        | MWAT    |                  | acute   | chronic |     |    |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C   | CS-II     | CS-II   | Arsenic          | 340     | ---     |     |    |
|  |  |  | acute     | chronic | Arsenic(T)       | ---     | 0.02    |     |    |
| Qualifiers:  |  | D.O. (mg/L)  | ---       | 6.0     | Cadmium          | TVS     | TVS     |     |    |
| Other:   |  | D.O. (spawning)  | ---       | 7.0     | Cadmium(T)       | 5.0     | ---     |     |    |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | pH   | 6.5 - 9.0 | ---     | Chromium III     | ---     | TVS     |     |    |
|  |  | chlorophyll a (mg/m <sup>2</sup> )                           | ---       | 150     | Chromium III(T)  | 50      | ---     |     |    |
|  |  | <span style="color: red;">E.-ColiE. coli</span> (per 100 mL) | ---       | 126     | Chromium VI      | TVS     | TVS     |     |    |
|  |  |  |           |         | Inorganic (mg/L) | Copper  | TVS     | TVS |    |
|  |  |  |           |         | acute            | chronic | Iron    | --- | WS |
|  |  | Ammonia  | TVS       | TVS     | Iron(T)          | ---     | 1000    |     |    |
|  |  | Boron  | ---       | 0.75    | Lead             | TVS     | TVS     |     |    |
|  |  | Chloride   | ---       | 250     | Lead(T)          | 50      | ---     |     |    |
|  |  | Chlorine   | 0.019     | 0.011   | Manganese        | TVS     | TVS/WS  |     |    |
|  |  | Cyanide  | 0.005     | ---     | Mercury(T)       | ---     | 0.01    |     |    |
|  |  | Nitrate  | 10        | ---     | Mercury(T)       | ---     | 150     |     |    |
|  |  | Nitrite  | ---       | 0.5     | Nickel           | TVS     | TVS     |     |    |
|  |  | Phosphorus   | ---       | 0.11    | Nickel(T)        | ---     | 100     |     |    |
|  |  | Sulfate  | ---       | WS      | Selenium         | TVS     | TVS     |     |    |
|  |  | Sulfide  | ---       | 0.002   | Silver           | TVS     | TVS(tr) |     |    |
|  |  |  |           |         | Uranium          | varies* | varies* |     |    |
|  |  |  |           |         | Zinc             | TVS     | TVS     |     |    |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

| 6a. All tributaries to Dry Creek, including wetlands, from the source to the inlet of Boulder Reservoir. |                                |  |              |                |                 |              |                |
|--|--------------------------------|--|--------------|----------------|-----------------|--------------|----------------|
| COSPSV06A  | Classifications                | Physical and Biological                    |              |                | Metals (ug/L)   |              |                |
| Designation  | Agriculture                    |  | <b>DM</b>    | <b>MWAT</b>    |                 | <b>acute</b> | <b>chronic</b> |
| UP   | Aq Life Warm 2<br>Recreation E | Temperature °C                             | WS-II        | WS-II          | Arsenic         | 340          | ---            |
|  |                                |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---          | 100            |
| <b>Qualifiers:</b>   |                                | D.O. (mg/L)                                | ---          | 5.0            | Cadmium         | TVS          | TVS            |
| <b>Other:</b>  |                                | pH   | 6.5 - 9.0    | ---            | Chromium III    | TVS          | TVS            |
| Temporary Modification(s):   |                                | chlorophyll a (mg/m <sup>2</sup> )         | ---          | ---            | Chromium III(T) | ---          | 100            |
| Iron(chronic) = current condition*   |                                | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium VI     | TVS          | TVS            |
| Expiration Date of 6/30/2023   |                                | <b>Inorganic (mg/L)</b>                    |              |                | Copper          | TVS          | TVS            |
|  |                                |  | <b>acute</b> | <b>chronic</b> | Iron(T)         | ---          | 1000           |
| *Uranium(acute) = See 38.5(3) for details.   |                                | Ammonia                                    | TVS          | TVS            | Lead            | TVS          | TVS            |
| *Uranium(chronic) = See 38.5(3) for details.   |                                | Boron                                      | ---          | 0.75           | Manganese       | TVS          | TVS            |
| *TempMod: Iron = Adopted 12/12/2016  |                                | Chloride                                   | ---          | ---            | Mercury(T)      | ---          | 0.01           |
|  |                                | Chlorine                                   | 0.019        | 0.011          | Molybdenum(T)   | ---          | 150            |
|  |                                | Cyanide                                    | 0.005        | ---            | Nickel          | TVS          | TVS            |
|  |                                | Nitrate                                    | 100          | ---            | Selenium        | TVS          | TVS            |
|  |                                | Nitrite                                    | ---          | 0.5            | Silver          | TVS          | TVS            |
|  |                                | Phosphorus                                 | ---          | ---            | Uranium         | varies*      | varies*        |
|  |                                | Sulfate                                    | ---          | ---            | Zinc            | TVS          | TVS            |
|  |                                | Sulfide                                    | ---          | 0.002          |                 |              |                |

6b. All tributaries to St. Vrain Creek, including wetlands from Hygiene Road to the confluence with the South Platte River, except for specific listings in the Boulder Creek subbasin and in Segments 4a, 4b, 4c and 5 and 6a.

| COSPSV06B                                    | Classifications                                | Physical and Biological                    |              |                | Metals (ug/L)   |              |                      |
|--|--|--|--------------|----------------|-----------------|--------------|----------------------|
| Designation                                  | Agriculture                                    |  | <b>DM</b>    | <b>MWAT</b>    |                 | <b>acute</b> | <b>chronic</b>       |
| UP   | Aq Life Warm 2<br>Water Supply<br>Recreation E | Temperature °C                             | WS-II        | WS-II          | Arsenic         | 340          | ---                  |
|  |  |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---          | 0.02-10 <sup>A</sup> |
| <b>Qualifiers:</b>                           |  | D.O. (mg/L)                                | ---          | 5.0            | Cadmium         | TVS          | TVS                  |
| <b>Other:</b>                                |  | pH   | 6.5 - 9.0    | ---            | Cadmium(T)      | 5.0          | ---                  |
| Temporary Modification(s):                   |  | chlorophyll a (mg/m <sup>2</sup> )         | ---          | ---            | Chromium III    | ---          | TVS                  |
| Arsenic(chronic) = hybrid                    |  | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium III(T) | 50           | ---                  |
| Expiration Date of 12/31/2024                |  | <b>Inorganic (mg/L)</b>                    |              |                | Chromium VI     | TVS          | TVS                  |
|  |  |  | <b>acute</b> | <b>chronic</b> | Copper          | TVS          | TVS                  |
| *Uranium(acute) = See 38.5(3) for details.   |  | Ammonia                                    | TVS          | TVS            | Iron            | ---          | WS                   |
| *Uranium(chronic) = See 38.5(3) for details. |  | Boron                                      | ---          | 0.75           | Iron(T)         | ---          | 1000                 |
|  |  | Chloride                                   | ---          | 250            | Lead            | TVS          | TVS                  |
|  |  | Chlorine                                   | 0.019        | 0.011          | Lead(T)         | 50           | ---                  |
|  |  | Cyanide                                    | 0.005        | ---            | Manganese       | TVS          | TVS/WS               |
|  |  | Nitrate                                    | 10           | ---            | Mercury(T)      | ---          | 0.01                 |
|  |  | Nitrite                                    | ---          | 0.5            | Molybdenum(T)   | ---          | 150                  |
|  |  | Phosphorus                                 | ---          | ---            | Nickel          | TVS          | TVS                  |
|  |  | Sulfate                                    | ---          | WS             | Nickel(T)       | ---          | 100                  |
|  |  | Sulfide                                    | ---          | 0.002          | Selenium        | TVS          | TVS                  |
|  |  |  |              |                | Silver          | TVS          | TVS                  |
|  |  |  |              |                | Uranium         | varies*      | varies*              |
|  |  |  |              |                | Zinc            | TVS          | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 7. Boulder Reservoir, Coot Lake, Left Hand Valley Reservoir and Spurgeon Reservoir.      |                 |   |           |         |                 |         |         |
|--|-----------------|---|-----------|---------|-----------------|---------|---------|
| COSPSV07   | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---     |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|  | DUWS*           | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |                 | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):   |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid  |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024  |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
| *Classification: DUWS applies to Boulder, Spurgeon and Left Hand Valley Reservoirs only. |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |   |           |         | Silver          | TVS     | TVS     |
|  |                 |   |           |         | Uranium         | varies* | varies* |
|  |                 |   |           |         | Zinc            | TVS     | TVS     |

| 8. All lakes and reservoirs tributary to St. Vrain Creek that are within the boundary of the Indian Peaks Wilderness Area and Rocky Mountain National Park. |                 |   |           |         |                 |         |         |
|---|-----------------|---|-----------|---------|-----------------|---------|---------|
| COSPSV08  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |         |
| OW  | Aq Life Cold 1  | Temperature °C                          | CL        | CL      | Arsenic         | 340     | ---     |
|   | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III(T) | 50      | ---     |
|   |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |                 | <b>Inorganic (mg/L)</b>                 |           |         | Copper          | TVS     | TVS     |
|   |                 |   | acute     | chronic | Iron            | ---     | WS      |
|   |                 | Ammonia                                 | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|   |                 | Boron                                   | ---       | 0.75    | Lead            | TVS     | TVS     |
|   |                 | Chloride                                | ---       | 250     | Lead(T)         | 50      | ---     |
|   |                 | Chlorine                                | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|   |                 | Cyanide                                 | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrate                                 | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|   |                 | Nitrite                                 | ---       | 0.05    | Nickel          | TVS     | TVS     |
|   |                 | Phosphorus                              | ---       | ---     | Nickel(T)       | ---     | 100     |
|   |                 | Sulfate                                 | ---       | WS      | Selenium        | TVS     | TVS     |
|   |                 | Sulfide                                 | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|   |                 |   |           |         | Uranium         | varies* | varies* |
|   |                 |   |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

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

| 9. All lakes and reservoirs tributary to St. Vrain Creek from sources to Hygiene Road, including Button Rock Reservoir, except as specified in Segment 8.                                  |   |                             |           |                    |                 |              |         |     |      |
|--|---|-----------------------------|-----------|--------------------|-----------------|--------------|---------|-----|------|
| COSPSV09   | Classifications   | Physical and Biological     |           |                    | Metals (ug/L)   |              |         |     |      |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                          | MWAT      | acute      chronic |                 |              |         |     |      |
| Reviewable   |   | CL,CLL                      | CL,CLL    | Arsenic            | 340             | ---          |         |     |      |
|  |   | acute                       | chronic   | Arsenic(T)         | ---             | 0.02         |         |     |      |
| Qualifiers:  |   | D.O. (mg/L)                 | ---       | 6.0                | Cadmium         | TVS      TVS |         |     |      |
| Other:   |   | D.O. (spawning)             | ---       | 7.0                | Cadmium(T)      | 5.0      --- |         |     |      |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | pH                          | 6.5 - 9.0 | ---                | Chromium III    | ---          | TVS     |     |      |
|  |   | chlorophyll a (ug/L)        | ---       | ---                | Chromium III(T) | 50           | ---     |     |      |
|  |   | E.-ColiE. coli (per 100 mL) | ---       | 126                | Chromium VI     | TVS          | TVS     |     |      |
|  |   | Inorganic (mg/L)            |           |                    | Copper          | TVS          | TVS     |     |      |
|  |   |                             |           |                    | Iron            | ---          | WS      |     |      |
|  |   |                             |           |                    | acute           | chronic      | Iron(T) | --- | 1000 |
|  |   | Ammonia                     | TVS       | TVS                | Lead            | TVS          | TVS     |     |      |
|  |   | Boron                       | ---       | 0.75               | Lead(T)         | 50           | ---     |     |      |
|  |   | Chloride                    | ---       | 250                | Manganese       | TVS          | TVS/WS  |     |      |
|  |   | Chlorine                    | 0.019     | 0.011              | Mercury(T)      | ---          | 0.01    |     |      |
|  |   | Cyanide                     | 0.005     | ---                | Molybdenum(T)   | ---          | 150     |     |      |
|  |   | Nitrate                     | 10        | ---                | Nickel          | TVS          | TVS     |     |      |
|  |   | Nitrite                     | ---       | 0.05               | Nickel(T)       | ---          | 100     |     |      |
|  |   | Phosphorus                  | ---       | ---                | Selenium        | TVS          | TVS     |     |      |
|  |   | Sulfate                     | ---       | WS                 | Silver          | TVS          | TVS(tr) |     |      |
| Sulfide  | ---   | 0.002                       | Uranium   | varies*            | varies*         |              |         |     |      |
|  |   |                             | Zinc      | TVS                | TVS             |              |         |     |      |

| 10. All lakes and reservoirs tributary to Left Hand Creek from sources to Highway 36.  |  |                             |           |                    |                 |              |         |     |      |
|--|--|-----------------------------|-----------|--------------------|-----------------|--------------|---------|-----|------|
| COSPSV10   | Classifications  | Physical and Biological     |           |                    | Metals (ug/L)   |              |         |     |      |
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply<br>DUWS* | DM                          | MWAT      | acute      chronic |                 |              |         |     |      |
| Reviewable   |  | CL                          | CL        | Arsenic            | 340             | ---          |         |     |      |
|  |  | acute                       | chronic   | Arsenic(T)         | ---             | 0.02         |         |     |      |
| Qualifiers:  |  | D.O. (mg/L)                 | ---       | 6.0                | Cadmium         | TVS      TVS |         |     |      |
| Other:   |  | D.O. (spawning)             | ---       | 7.0                | Cadmium(T)      | 5.0      --- |         |     |      |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Classification: DUWS applies to Joder Reservoir only.<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | pH                          | 6.5 - 9.0 | ---                | Chromium III    | ---          | TVS     |     |      |
|  |  | chlorophyll a (ug/L)        | ---       | 8*                 | Chromium III(T) | 50           | ---     |     |      |
|  |  | E.-ColiE. coli (per 100 mL) | ---       | 126                | Chromium VI     | TVS          | TVS     |     |      |
|  |  | Inorganic (mg/L)            |           |                    | Copper          | TVS          | TVS     |     |      |
|  |  |                             |           |                    | Iron            | ---          | WS      |     |      |
|  |  |                             |           |                    | acute           | chronic      | Iron(T) | --- | 1000 |
|  |  | Ammonia                     | TVS       | TVS                | Lead            | TVS          | TVS     |     |      |
|  |  | Boron                       | ---       | 0.75               | Lead(T)         | 50           | ---     |     |      |
|  |  | Chloride                    | ---       | 250                | Manganese       | TVS          | TVS/WS  |     |      |
|  |  | Chlorine                    | 0.019     | 0.011              | Mercury(T)      | ---          | 0.01    |     |      |
|  |  | Cyanide                     | 0.005     | ---                | Molybdenum(T)   | ---          | 150     |     |      |
|  |  | Nitrate                     | 10        | ---                | Nickel          | TVS          | TVS     |     |      |
|  |  | Nitrite                     | ---       | 0.05               | Nickel(T)       | ---          | 100     |     |      |
|  |  | Phosphorus                  | ---       | 0.025*             | Selenium        | TVS          | TVS     |     |      |
|  |  | Sulfate                     | ---       | WS                 | Silver          | TVS          | TVS(tr) |     |      |
| Sulfide  | ---  | 0.002                       | Uranium   | varies*            | varies*         |              |         |     |      |
|  |  |                             | Zinc      | TVS                | TVS             |              |         |     |      |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



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

| 11. Barbour Ponds.   |  |                         |         |                             |                 |                 |
|--|--|-------------------------|---------|-----------------------------|-----------------|-----------------|
| COSPSV11   | Classifications                                | Physical and Biological |         |                             | Metals (ug/L)   |                 |
| Designation  | Agriculture                                    | DM                      | MWAT    | acute      chronic          |                 |                 |
| Reviewable   | Aq Life Warm 1<br>Recreation E<br>Water Supply | WL                      | WL      | Temperature °C              | Arsenic         | 340      ---    |
| Qualifiers:  |  | acute                   | chronic | D.O. (mg/L)                 | Arsenic(T)      | ---      0.02   |
| Other:   |  | 6.5 - 9.0      ---      |         | pH                          | Cadmium         | TVS      TVS    |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.   |  | ---      ---            |         | chlorophyll a (ug/L)        | Cadmium(T)      | 5.0      ---    |
|  |  | ---      126            |         | <u>E. Coli</u> (per 100 mL) | Chromium III    | ---      TVS    |
|  |  | Inorganic (mg/L)        |         |                             | Chromium III(T) | 50      ---     |
|  |  | acute                   | chronic | Chromium VI                 | TVS      TVS    |                 |
|  |  | Ammonia                 | TVS     | TVS                         | Copper          | TVS      TVS    |
|  |  | Boron                   | ---     | 0.75                        | Iron            | ---      WS     |
|  |  | Chloride                | ---     | 250                         | Iron(T)         | ---      1000   |
|  |  | Chlorine                | 0.019   | 0.011                       | Lead            | TVS      TVS    |
|  |  | Cyanide                 | 0.005   | ---                         | Lead(T)         | 50      ---     |
|  |  | Nitrate                 | 10      | ---                         | Manganese       | TVS      TVS/WS |
|  |  | Nitrite                 | ---     | 0.5                         | Mercury(T)      | ---      0.01   |
|  |  | Phosphorus              | ---     | ---                         | Molybdenum(T)   | ---      150    |
|  |  | Sulfate                 | ---     | WS                          | Nickel          | TVS      TVS    |
|  |  | Sulfide                 | ---     | 0.002                       | Nickel(T)       | ---      100    |
|  |  | Selenium                |         |                             |                 | TVS      TVS    |
| Silver   |  |                         |         | TVS      TVS                |                 |                 |
| Uranium  |  |                         |         | varies*      varies*        |                 |                 |
| Zinc   |  |                         |         | TVS      TVS                |                 |                 |
| 12. All lakes and reservoirs tributary to Left Hand Creek from Highway 36 to the confluence with St. Vrain Creek, except as specified in Segment 7.  |  |                         |         |                             |                 |                 |
| COSPSV12   | Classifications                                | Physical and Biological |         |                             | Metals (ug/L)   |                 |
| Designation  | Agriculture                                    | DM                      | MWAT    | acute      chronic          |                 |                 |
| Reviewable   | Aq Life Warm 2<br>Recreation E<br>Water Supply | WL                      | WL      | Temperature °C              | Arsenic         | 340      ---    |
| Qualifiers:  |  | acute                   | chronic | D.O. (mg/L)                 | Arsenic(T)      | ---      0.02   |
| Water + Fish Standards   |  | 6.5 - 9.0      ---      |         | pH                          | Cadmium         | TVS      TVS    |
| Other:   |  | ---      ---            |         | chlorophyll a (ug/L)        | Cadmium(T)      | 5.0      ---    |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | ---      126            |         | <u>E. Coli</u> (per 100 mL) | Chromium III    | ---      TVS    |
|  |  | Inorganic (mg/L)        |         |                             | Chromium III(T) | 50      ---     |
|  |  | acute                   | chronic | Chromium VI                 | TVS      TVS    |                 |
|  |  | Ammonia                 | TVS     | TVS                         | Copper          | TVS      TVS    |
|  |  | Boron                   | ---     | 0.75                        | Iron            | ---      WS     |
|  |  | Chloride                | ---     | 250                         | Iron(T)         | ---      1000   |
|  |  | Chlorine                | 0.019   | 0.011                       | Lead            | TVS      TVS    |
|  |  | Cyanide                 | 0.005   | ---                         | Lead(T)         | 50      ---     |
|  |  | Nitrate                 | 10      | ---                         | Manganese       | TVS      TVS/WS |
|  |  | Nitrite                 | ---     | 0.5                         | Mercury(T)      | ---      0.01   |
|  |  | Phosphorus              | ---     | ---                         | Molybdenum(T)   | ---      150    |
|  |  | Sulfate                 | ---     | WS                          | Nickel          | TVS      TVS    |
|  |  | Sulfide                 | ---     | 0.002                       | Nickel(T)       | ---      100    |
|  |  | Selenium                |         |                             |                 | TVS      TVS    |
|  |  | Silver                  |         |                             |                 | TVS      TVS    |
| Uranium  |  |                         |         | varies*      varies*        |                 |                 |
| Zinc   |  |                         |         | TVS      TVS                |                 |                 |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

| 13. All lakes and reservoirs tributary to St. Vrain Creek from Hygiene Road to the confluence with the South Platte River, except as specified in Segments 7, 10, 11 and 12. |                 |  |           |         |                 |         |                      |
|--|-----------------|--|-----------|---------|-----------------|---------|----------------------|
| COSPSV13   | Classifications | Physical and Biological                    |           |         | Metals (ug/L)   |         |                      |
| Designation  |                 |  | DM        | MWAT    | acute           | chronic |                      |
| Reviewable   | Agriculture     |  |           |         |                 |         |                      |
|  | Aq Life Warm 2  | Temperature °C                             | WL        | WL      | Arsenic         | 340     | ---                  |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02-10 <sup>A</sup> |
|  | Water Supply    | D.O. (mg/L)                                | ---       | 5.0     | Cadmium         | TVS     | TVS                  |
| DUWS*  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---                  |
|  |                 | chlorophyll a (ug/L)                       | ---       | ---     | Chromium III    | ---     | TVS                  |
| Qualifiers:  |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---                  |
| Other:   |                 | <b>Inorganic (mg/L)</b>                    |           |         | Chromium VI     | TVS     | TVS                  |
|  |                 |  | acute     | chronic | Copper          | TVS     | TVS                  |
|  |                 | Ammonia                                    | TVS       | TVS     | Iron            | ---     | WS                   |
|  |                 | Boron                                      | ---       | 0.75    | Iron(T)         | ---     | 1000                 |
|  |                 | Chloride                                   | ---       | 250     | Lead            | TVS     | TVS                  |
|  |                 | Chlorine                                   | 0.019     | 0.011   | Lead(T)         | 50      | ---                  |
|  |                 | Cyanide                                    | 0.005     | ---     | Manganese       | TVS     | TVS/WS               |
|  |                 | Nitrate                                    | 10        | ---     | Mercury(T)      | ---     | 0.01                 |
|  |                 | Nitrite                                    | ---       | 0.5     | Molybdenum(T)   | ---     | 150                  |
|  |                 | Phosphorus                                 | ---       | ---     | Nickel          | TVS     | TVS                  |
|  |                 | Sulfate                                    | ---       | WS      | Nickel(T)       | ---     | 100                  |
|  |                 | Sulfide                                    | ---       | 0.002   | Selenium        | TVS     | TVS                  |
|  |                 |  |           |         | Silver          | TVS     | TVS                  |
|  |                 |  |           |         | Uranium         | varies* | varies*              |
|  |                 |  |           |         | Zinc            | TVS     | TVS                  |

\*Classification: DUWS applies to Burch lake only.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

| 1a. Mainstem of the South Platte River from a point immediately below the confluence with Big Dry Creek to the confluence with St. Vrain Creek. |   |                         |         |   |                 |                 |
|---|---|-------------------------|---------|---|-----------------|-----------------|
| COSPMS01A   | Classifications   | Physical and Biological |         |   | Metals (ug/L)   |                 |
| Designation   | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply | DM                      | MWAT    |   | acute           | chronic         |
| UP  |   | WS-I                    | WS-I    | Temperature °C                          | Arsenic         | 340 ---         |
|   |   | acute                   | chronic |   | Arsenic(T)      | --- 0.02        |
|   |   |                         |         | D.O. (mg/L)                             | Cadmium         | TVS TVS         |
|   |   |                         |         | pH                                      | Cadmium(T)      | 5.0 ---         |
|   |   |                         |         | chlorophyll a (mg/m <sup>2</sup> )      | Chromium III    | --- TVS         |
|   |   |                         |         | <del>E. Coli</del> E. coli (per 100 mL) | Chromium III(T) | 50 ---          |
|   |   | Inorganic (mg/L)        |         |   | Chromium VI     | TVS TVS         |
|   |   | acute                   | chronic |   | Copper          | --- 18.0*       |
|   |   |                         |         | Ammonia                                 | Copper          | 26.4* ---       |
|   |   |                         |         | Boron                                   | Iron            | --- WS          |
|   |   |                         |         | Chloride                                | Iron(T)         | --- 1000        |
|   |   |                         |         | Chlorine                                | Lead            | TVS TVS         |
|   |   |                         |         | Cyanide                                 | Lead(T)         | 50 ---          |
|   |   |                         |         | Nitrate                                 | Manganese       | TVS TVS/WS      |
|   |   |                         |         | Nitrite                                 | Mercury(T)      | --- 0.01        |
|   |   |                         |         | Phosphorus                              | Molybdenum(T)   | --- 150         |
|   |   |                         |         | Sulfate                                 | Nickel          | TVS TVS         |
|   |   |                         |         | Sulfide                                 | Nickel(T)       | --- 100         |
|   |   |                         |         |   | Selenium        | TVS TVS         |
|   |   |                         |         |   | Silver          | TVS TVS         |
|   |   |                         |         |   | Uranium         | varies* varies* |
|   |   |                         |         |   | Zinc            | TVS TVS         |
| 1b. Mainstem of the South Platte River from a point immediately below the confluence with St. Vrain Creek to the Weld/Morgan County Line.       |   |                         |         |   |                 |                 |
| COSPMS01B   | Classifications   | Physical and Biological |         |   | Metals (ug/L)   |                 |
| Designation   | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply | DM                      | MWAT    |   | acute           | chronic         |
| Reviewable  |   | WS-I                    | WS-I    | Temperature °C                          | Arsenic         | 340 ---         |
|   |   | acute                   | chronic |   | Arsenic(T)      | --- 0.02        |
|   |   |                         |         | D.O. (mg/L)                             | Cadmium         | TVS TVS         |
|   |   |                         |         | pH                                      | Cadmium(T)      | 5.0 ---         |
|   |   |                         |         | chlorophyll a (mg/m <sup>2</sup> )      | Chromium III    | --- TVS         |
|   |   |                         |         | <del>E. Coli</del> E. coli (per 100 mL) | Chromium III(T) | 50 ---          |
|   |   | Inorganic (mg/L)        |         |   | Chromium VI     | TVS TVS         |
|   |   | acute                   | chronic |   | Copper          | TVS TVS         |
|   |   |                         |         | Ammonia                                 | Iron            | --- WS          |
|   |   |                         |         | Boron                                   | Iron(T)         | --- 1000        |
|   |   |                         |         | Chloride                                | Lead            | TVS TVS         |
|   |   |                         |         | Chlorine                                | Lead(T)         | 50 ---          |
|   |   |                         |         | Cyanide                                 | Manganese       | TVS TVS/WS      |
|   |   |                         |         | Nitrate                                 | Mercury(T)      | --- 0.01        |
|   |   |                         |         | Nitrite                                 | Molybdenum(T)   | --- 150         |
|   |   |                         |         | Phosphorus                              | Nickel          | TVS TVS         |
|   |   |                         |         | Sulfate                                 | Nickel(T)       | --- 100         |
|   |   |                         |         | Sulfide                                 | Selenium        | TVS TVS         |
|   |   |                         |         |   | Silver          | TVS TVS         |
|   |   |                         |         |   | Uranium         | varies* varies* |
|   |   |                         |         |   | Zinc            | TVS TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

| 2. Deleted.  |                 |  |           |         |                 |                 |
|--|-----------------|--|-----------|---------|-----------------|-----------------|
| COSPMS02   | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |                 |
| Designation  |                 | DM   | MWAT      |         | acute           | chronic         |
|  |                 |  |           |         |                 |                 |
| Qualifiers:  |                 | acute  | chronic   |         |                 |                 |
| Other:   |                 |  |           |         |                 |                 |
|  |                 | Inorganic (mg/L)                               |           |         |                 |                 |
|  |                 | acute  | chronic   |         |                 |                 |
| 3a. All tributaries to the South Platte River, including all wetlands, from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for listings in the subbasins of the South Platte River, and in Segments 3b, 5a, 5b, 5c, and 6. |                 |  |           |         |                 |                 |
| COSPMS03A  | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |                 |
| Designation  | Agriculture     | DM   | MWAT      |         | acute           | chronic         |
| UP   | Aq Life Warm 2  | Temperature °C                                 | WS-I      | WS-I    | Arsenic         | 340 ---         |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | --- 0.02        |
|  | Water Supply    | D.O. (mg/L)                                    | ---       | 5.0     | Cadmium         | TVS TVS         |
| Qualifiers:  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0 ---         |
| Water + Fish Standards   |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | 150*    | Chromium III    | --- TVS         |
| Other:   |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50 ---          |
|  |                 | Inorganic (mg/L)                               |           |         | Chromium VI     | TVS TVS         |
|  |                 | acute  | chronic   |         | Copper          | TVS TVS         |
| Temporary Modification(s):   |                 | Ammonia  | TVS       | TVS     | Iron            | --- WS          |
| Arsenic(chronic) = hybrid  |                 | Boron  | ---       | 0.75    | Iron(T)         | --- 1000        |
| Expiration Date of 12/31/2024  |                 | Chloride                                       | ---       | 250     | Lead            | TVS TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |                 | Chlorine                                       | 0.019     | 0.011   | Lead(T)         | 50 ---          |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |                 | Cyanide  | 0.005     | ---     | Manganese       | TVS TVS/WS      |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Nitrate  | 10        | ---     | Mercury(T)      | --- 0.01        |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Nitrite  | ---       | 0.5     | Molybdenum(T)   | --- 150         |
|  |                 | Phosphorus                                     | ---       | 0.17*   | Nickel          | TVS TVS         |
|  |                 | Sulfate  | ---       | WS      | Nickel(T)       | --- 100         |
|  |                 | Sulfide  | ---       | 0.002   | Selenium        | TVS TVS         |
|  |                 |  |           |         | Silver          | TVS TVS         |
|  |                 |  |           |         | Uranium         | varies* varies* |
|  |                 |  |           |         | Zinc            | TVS TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

| 3b. Hayesmount Tributaries including the Upper Hayesmount Tributary from the source to the confluence with Box Elder Creek and the Lower Hayesmount Tributaries from the source to the Denver Hudson Canal. |  |  |           |            |                 |                      |
|---|--|--|-----------|------------|-----------------|----------------------|
| COSPMS03B   | Classifications                                | Physical and Biological                      |           |            | Metals (ug/L)   |                      |
| Designation   | Agriculture                                    |  | DM        | MWAT       |                 | acute      chronic   |
| UP  | Aq Life Warm 2<br>Recreation E                 | Temperature °C                               | WS-III    | WS-III     | Arsenic         | 340      ---         |
|   |  |  | acute     | chronic    | Arsenic(T)      | ---      100         |
| <b>Qualifiers:</b>  |  | D.O. (mg/L)                                  | ---       | narrative* | Cadmium         | TVS      TVS         |
| <b>Other:</b>   |  | pH   | 6.5 - 9.0 | ---        | Chromium III    | TVS      TVS         |
|   |  | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150        | Chromium III(T) | ---      100         |
|   |  | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS      TVS         |
|   |  | <b>Inorganic (mg/L)</b>                      |           |            | Copper          | TVS      TVS         |
|   |  |  | acute     | chronic    | Iron(T)         | ---      1000        |
|   |  | Ammonia                                      | TVS       | TVS        | Lead            | TVS      TVS         |
|   |  | Boron  | ---       | 0.75       | Manganese       | TVS      TVS         |
|   |  | Chloride                                     | ---       | ---        | Mercury(T)      | ---      0.01        |
|   |  | Chlorine                                     | 0.019     | 0.011      | Molybdenum(T)   | ---      150         |
|   |  | Cyanide                                      | 0.005     | ---        | Nickel          | TVS      TVS         |
|   |  | Nitrate                                      | 100       | ---        | Selenium        | TVS      TVS         |
|   |  | Nitrite                                      | ---       | 0.5        | Silver          | TVS      TVS         |
|   |  | Phosphorus                                   | ---       | 0.17       | Uranium         | varies*      varies* |
|   |  | Sulfate                                      | ---       | ---        | Zinc            | TVS      TVS         |
|   |  | Sulfide                                      | ---       | 0.002      |                 |                      |
| 4. Barr Lake and Milton Reservoir.  |  |  |           |            |                 |                      |
| COSPMS04  | Classifications                                | Physical and Biological                      |           |            | Metals (ug/L)   |                      |
| Designation   | Agriculture                                    |  | DM        | MWAT       |                 | acute      chronic   |
| UP  | Aq Life Warm 2<br>Recreation E<br>Water Supply | Temperature °C                               | WL        | WL         | Arsenic         | 340      ---         |
|   |  |  | acute     | chronic    | Arsenic(T)      | ---      0.02        |
| <b>Qualifiers:</b>  |  | D.O. (mg/L)                                  | ---       | 5.0        | Cadmium         | TVS      TVS         |
| <b>Water + Fish Standards</b>   |  | pH   | 6.5 - 9.0 | ---        | Cadmium(T)      | 5.0      ---         |
| <b>Other:</b>   |  | chlorophyll a (mg/m <sup>2</sup> )           | ---       | ---        | Chromium III    | ---      TVS         |
|   |  | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium III(T) | 50      ---          |
|   |  | <b>Inorganic (mg/L)</b>                      |           |            | Chromium VI     | TVS      TVS         |
|   |  |  | acute     | chronic    | Copper          | TVS      TVS         |
|   |  | Ammonia                                      | TVS       | TVS        | Iron            | ---      WS          |
|   |  | Boron  | ---       | 0.75       | Iron(T)         | ---      1000        |
|   |  | Chloride                                     | ---       | 250        | Lead            | TVS      TVS         |
|   |  | Chlorine                                     | 0.019     | 0.011      | Lead(T)         | 50      ---          |
|   |  | Cyanide                                      | 0.005     | ---        | Manganese       | TVS      TVS/WS      |
|   |  | Nitrate                                      | 10        | ---        | Mercury(T)      | ---      0.01        |
|   |  | Nitrite                                      | ---       | 0.5        | Molybdenum(T)   | ---      150         |
|   |  | Phosphorus                                   | ---       | ---        | Nickel          | TVS      TVS         |
|   |  | Sulfate                                      | ---       | WS         | Nickel(T)       | ---      100         |
|   |  | Sulfide                                      | ---       | 0.002      | Selenium        | TVS      TVS         |
|   |  |  |           |            | Silver          | TVS      TVS         |
|   |  |  |           |            | Uranium         | varies*      varies* |
|   |  |  |           |            | Zinc            | TVS      TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

| 5a. Mainstem of Lone Tree Creek from the source to the confluence with the South Platte River. |  |   |           |         |                 |              |                      |
|--|--|---|-----------|---------|-----------------|--------------|----------------------|
| COSPMS05A  | Classifications                                | Physical and Biological                 |           |         | Metals (ug/L)   |              |                      |
| Designation  | Agriculture                                    |   | DM        | MWAT    |                 |              |                      |
| Reviewable   | Aq Life Warm 2<br>Recreation N<br>Water Supply | Temperature °C                          | WS-I      | WS-I    | Arsenic         | acute<br>340 | chronic<br>---       |
| Qualifiers:  |  |   | acute     | chronic | Arsenic(T)      | ---          | 0.02-10 <sup>A</sup> |
| Other:   |  | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS          | TVS                  |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                    |  | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0          | ---                  |
| *Uranium(acute) = See 38.5(3) for details.   |  | chlorophyll a (mg/m <sup>2</sup> )      | ---       | ---     | Chromium III    | ---          | TVS                  |
| *Uranium(chronic) = See 38.5(3) for details.   |  | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 630     | Chromium III(T) | 50           | ---                  |
|  |  | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS          | TVS                  |
|  |  |   | acute     | chronic | Copper          | TVS          | TVS                  |
|  |  | Ammonia                                 | TVS       | TVS     | Iron            | ---          | WS                   |
|  |  | Boron                                   | ---       | 0.75    | Iron(T)         | ---          | 1000                 |
|  |  | Chloride                                | ---       | 250     | Lead            | TVS          | TVS                  |
|  |  | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50           | ---                  |
|  |  | Cyanide                                 | 0.005     | ---     | Manganese       | TVS          | TVS/WS               |
|  |  | Nitrate                                 | 10        | ---     | Mercury(T)      | ---          | 0.01                 |
|  |  | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---          | 150                  |
|  |  | Phosphorus                              | ---       | 0.17*   | Nickel          | TVS          | TVS                  |
|  |  | Sulfate                                 | ---       | WS      | Nickel(T)       | ---          | 100                  |
|  |  | Sulfide                                 | ---       | 0.002   | Selenium        | TVS          | TVS                  |
|  |  |   |           |         | Silver          | TVS          | TVS                  |
|  |  |   |           |         | Uranium         | varies*      | varies*              |
|  |  |   |           |         | Zinc            | TVS          | TVS                  |

  

| 5b. Mainstem of Box Elder Creek from the confluence with Coyote Run to the Denver Hudson Canal.        |                                |   |           |         |                 |              |                |
|--|--------------------------------|---|-----------|---------|-----------------|--------------|----------------|
| COSPMS05B  | Classifications                | Physical and Biological                 |           |         | Metals (ug/L)   |              |                |
| Designation  | Agriculture                    |   | DM        | MWAT    |                 |              |                |
| UP   | Aq Life Warm 2<br>Recreation N | Temperature °C                          | WS-III    | WS-III  | Arsenic         | acute<br>340 | chronic<br>--- |
| Qualifiers:  |                                |   | acute     | chronic | Arsenic(T)      | ---          | 100            |
| Other:   |                                | D.O. (mg/L)                             | ---       | 4.7*    | Cadmium         | TVS          | TVS            |
| *Uranium(acute) = See 38.5(3) for details.   |                                | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | TVS          | TVS            |
| *Uranium(chronic) = See 38.5(3) for details.   |                                | chlorophyll a (mg/m <sup>2</sup> )      | ---       | ---     | Chromium III(T) | ---          | 100            |
| *D.O. (mg/L)(chronic) = 15th percentile of D.O. measurements collected between 6:30 a.m. and 6:30 p.m. |                                | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 630     | Chromium VI     | TVS          | TVS            |
|  |                                | Inorganic (mg/L)                        |           |         | Copper          | TVS          | TVS            |
|  |                                |   | acute     | chronic | Iron(T)         | ---          | 1000           |
|  |                                | Ammonia                                 | TVS       | TVS     | Lead            | TVS          | TVS            |
|  |                                | Boron                                   | ---       | 0.75    | Manganese       | TVS          | TVS            |
|  |                                | Chloride                                | ---       | ---     | Mercury(T)      | ---          | 0.01           |
|  |                                | Chlorine                                | 0.019     | 0.011   | Molybdenum(T)   | ---          | 150            |
|  |                                | Cyanide                                 | 0.005     | ---     | Nickel          | TVS          | TVS            |
|  |                                | Nitrate                                 | 100       | ---     | Selenium        | TVS          | TVS            |
|  |                                | Nitrite                                 | 10        | ---     | Silver          | TVS          | TVS            |
|  |                                | Phosphorus                              | ---       | ---     | Uranium         | varies*      | varies*        |
|  |                                | Sulfate                                 | ---       | ---     | Zinc            | TVS          | TVS            |
|  |                                | Sulfide                                 | ---       | 0.002   |                 |              |                |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

| 5c. Mainstems of Crow Creek and Box Elder Creek from their sources to their confluences with the South Platte River, except for listings in Segment 5b. |                 |  |           |         |                 |         |         |
|---|-----------------|--|-----------|---------|-----------------|---------|---------|
| COSPMS05C   | Classifications | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
| Designation   |                 |  | DM        | MWAT    |                 |         |         |
| Reviewable  | Agriculture     |  | WS-II     | WS-II   |                 | acute   |         |
|   | Aq Life Warm 1  |  |           |         |                 | chronic |         |
|   | Water Supply    |  | acute     | chronic |                 |         |         |
|   | Recreation N    |  |           |         |                 |         |         |
| Qualifiers:   |                 |  |           |         |                 |         |         |
| Other:  |                 |  |           |         |                 |         |         |
| Temporary Modification(s):  |                 | Temperature °C                             |           |         | Arsenic         | 340     | ---     |
| Arsenic(chronic) = hybrid   |                 |  |           |         | Arsenic(T)      | ---     | 0.02    |
| Expiration Date of 12/31/2024   |                 | D.O. (mg/L)                                | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).   |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| *Uranium(acute) = See 38.5(3) for details.  |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---     | Chromium III    | ---     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 630     | Chromium III(T) | 50      | ---     |
|   |                 | Inorganic (mg/L)                           |           |         | Chromium VI     | TVS     | TVS     |
|   |                 |  | acute     | chronic | Copper          | TVS     | TVS     |
|   |                 | Ammonia                                    | TVS       | TVS     | Iron            | ---     | WS      |
|   |                 | Boron                                      | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|   |                 | Chloride                                   | ---       | 250     | Lead            | TVS     | TVS     |
|   |                 | Chlorine                                   | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|   |                 | Cyanide                                    | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|   |                 | Nitrate                                    | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrite                                    | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|   |                 | Phosphorus                                 | ---       | 0.17*   | Nickel          | TVS     | TVS     |
|   |                 | Sulfate                                    | ---       | WS      | Nickel(T)       | ---     | 100     |
|   |                 | Sulfide                                    | ---       | 0.002   | Selenium        | TVS     | TVS     |
|   |                 |  |           |         | Silver          | TVS     | TVS     |
|   |                 |  |           |         | Uranium         | varies* | varies* |
|   |                 |  |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

| 6. Lost Creek from the source to Interstate 76, including all its tributaries, stock ponds and wetlands.   |                                |  |           |         |                 |              |                |
|--|--------------------------------|--|-----------|---------|-----------------|--------------|----------------|
| COSPMS06   | Classifications                | Physical and Biological                    |           |         | Metals (ug/L)   |              |                |
| Designation  | Agriculture                    |  | DM        | MWAT    |                 |              |                |
| UP   | Aq Life Warm 2<br>Recreation N | Temperature °C                             | WS-III    | WS-III  | Arsenic         | acute<br>340 | chronic<br>--- |
| Qualifiers:  |                                |  | acute     | chronic | Arsenic(T)      | ---          | 100            |
| <b>Other:</b><br><br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                                | D.O. (mg/L)                                | ---       | 5.0     | Beryllium(T)    | ---          | 100            |
|  |                                | pH   | 6.5 - 9.0 | ---     | Cadmium         | ---          | ---            |
|  |                                | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---     | Cadmium(T)      | ---          | 10             |
|  |                                | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 630     | Chromium III    | ---          | ---            |
|  |                                | Inorganic (mg/L)                           |           |         | Chromium III(T) | ---          | 100            |
|  |                                |  | acute     | chronic | Chromium VI     | ---          | ---            |
|  |                                | Ammonia                                    | ---       | ---     | Chromium VI(T)  | ---          | 100            |
|  |                                | Boron                                      | ---       | 0.75    | Copper          | ---          | ---            |
|  |                                | Chloride                                   | ---       | ---     | Copper(T)       | ---          | 200            |
|  |                                | Chlorine                                   | ---       | ---     | Iron            | ---          | ---            |
|  |                                | Cyanide                                    | 0.2       | ---     | Lead            | ---          | ---            |
|  |                                | Nitrate                                    | 100       | ---     | Lead(T)         | ---          | 100            |
|  |                                | Nitrite                                    | 10        | ---     | Manganese       | ---          | ---            |
|  |                                | Phosphorus                                 | ---       | 0.17*   | Manganese(T)    | ---          | 200            |
|  |                                | Sulfate                                    | ---       | ---     | Mercury(T)      | ---          | ---            |
|  |                                | Sulfide                                    | ---       | 0.002   | Molybdenum(T)   | ---          | 150            |
|  |                                |  | ---       | ---     | Nickel          | ---          | ---            |
|  |                                |  | ---       | ---     | Nickel(T)       | ---          | 200            |
|  |                                |  | ---       | ---     | Selenium        | ---          | ---            |
|  |                                |  | ---       | ---     | Selenium(T)     | ---          | 20             |
|  |                                |  | ---       | ---     | Silver          | ---          | ---            |
|  |                                |  | ---       | ---     | Uranium         | varies*      | varies*        |
|  |                                |  | ---       | ---     | Zinc            | ---          | ---            |
|  |                                |  | ---       | ---     | Zinc(T)         | ---          | 2000           |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Middle South Platte River Basin

7. All lakes and reservoirs tributary to the South Platte River from a point immediately below the confluence with Big Dry Creek to the Weld/Morgan County line, except for listings in the subbasins of the South Platte River, and in segments 4 and 8.

| COSPMS07                                     | Classifications | Physical and Biological                      |              |                | Metals (ug/L)   |         |         |
|--|-----------------|--|--------------|----------------|-----------------|---------|---------|
| Designation                                  | Agriculture     |  | DM           | MWAT           |                 | acute   | chronic |
| Reviewable                                   | Aq Life Warm 2  | Temperature °C                               | WL           | WL             | Arsenic         | 340     | ---     |
|  | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                                  | ---          | 5.0            | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>                           |                 | pH   | 6.5 - 9.0    | ---            | Cadmium(T)      | 5.0     | ---     |
| <b>Water + Fish Standards</b>                |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---          | ---            | Chromium III    | ---     | TVS     |
| <b>Other:</b>                                |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):                   |                 | <b>Inorganic (mg/L)</b>                      |              |                | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid                    |                 |  | <b>acute</b> | <b>chronic</b> | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024                |                 | Ammonia                                      | TVS          | TVS            | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Boron  | ---          | 0.75           | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details. |                 | Chloride                                     | ---          | 250            | Lead            | TVS     | TVS     |
|  |                 | Chlorine                                     | 0.019        | 0.011          | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                                      | 0.005        | ---            | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                                      | 10           | ---            | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                                      | ---          | 0.5            | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                                   | ---          | ---            | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                                      | ---          | WS             | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                                      | ---          | 0.002          | Selenium        | TVS     | TVS     |
|  |                 |  |              |                | Silver          | TVS     | TVS     |
|  |                 |  |              |                | Uranium         | varies* | varies* |
|  |                 |  |              |                | Zinc            | TVS     | TVS     |

8. Riverside Reservoir.

| COSPMS08  | Classifications | Physical and Biological                      |              |                | Metals (ug/L)   |         |         |
|---|-----------------|--|--------------|----------------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM           | MWAT           |                 | acute   | chronic |
| UP  | Aq Life Warm 1  | Temperature °C                               | WL           | WL             | Arsenic         | 340     | ---     |
|   | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                                  | ---          | 5.0            | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |                 | pH   | 6.5 - 9.0    | ---            | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---          | 20*            | Chromium III    | ---     | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | Chromium III(T) | 50      | ---     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.                         |                 | <b>Inorganic (mg/L)</b>                      |              |                | Chromium VI     | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.  |                 |  | <b>acute</b> | <b>chronic</b> | Copper          | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Ammonia                                      | TVS          | TVS            | Iron            | ---     | WS      |
|   |                 | Boron  | ---          | 0.75           | Iron(T)         | ---     | 1000    |
|   |                 | Chloride                                     | ---          | 250            | Lead            | TVS     | TVS     |
|   |                 | Chlorine                                     | 0.019        | 0.011          | Lead(T)         | 50      | ---     |
|   |                 | Cyanide                                      | 0.005        | ---            | Manganese       | TVS     | TVS/WS  |
|   |                 | Nitrate                                      | 10           | ---            | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrite                                      | ---          | 0.5            | Molybdenum(T)   | ---     | 150     |
|   |                 | Phosphorus                                   | ---          | 0.083*         | Nickel          | TVS     | TVS     |
|   |                 | Sulfate                                      | ---          | WS             | Nickel(T)       | ---     | 100     |
|   |                 | Sulfide                                      | ---          | 0.002          | Selenium        | TVS     | TVS     |
|   |                 |  |              |                | Silver          | TVS     | TVS     |
|   |                 |  |              |                | Uranium         | varies* | varies* |
|   |                 |  |              |                | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

| 1. Mainstem of the Big Thompson River, including all tributaries and wetlands, within Rocky Mountain National Park.                       |                 |  |              |                |                      |                    |
|---|-----------------|--|--------------|----------------|----------------------|--------------------|
| COSPBT01  | Classifications | Physical and Biological                      |              |                | Metals (ug/L)        |                    |
| Designation   | Agriculture     |  | DM           | MWAT           |                      | acute      chronic |
| OW  | Aq Life Cold 1  | Temperature °C                               | CS-I         | CS-I           | Arsenic              | 340      ---       |
|   | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)           | ---      0.02      |
| <b>Qualifiers:</b><br><br><b>Other:</b><br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                                  | ---          | 6.0            | Cadmium              | TVS      TVS       |
|   |                 | D.O. (spawning)                              | ---          | 7.0            | Cadmium(T)           | 5.0      ---       |
|   |                 | pH   | 6.5 - 9.0    | ---            | Chromium III         | ---      TVS       |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---          | 150            | Chromium III(T)      | 50      ---        |
|   |                 | <b>E. Coli</b> / <b>E. coli</b> (per 100 mL) | ---          | 126            | Chromium VI          | TVS      TVS       |
|   |                 |  |              |                | Copper               | TVS      TVS       |
|   |                 |  |              |                | Iron                 | ---      WS        |
|   |                 |  |              |                | Iron(T)              | ---      1000      |
|   |                 |  |              |                | Lead                 | TVS      TVS       |
|   |                 |  |              |                | Lead(T)              | 50      ---        |
|   |                 |  |              |                | Manganese            | TVS      TVS/WS    |
|   |                 |  |              |                | Mercury(T)           | ---      0.01      |
|   |                 |  |              |                | Molybdenum(T)        | ---      150       |
|   |                 |  |              |                | Nickel               | TVS      TVS       |
|   |                 |  |              |                | Nickel(T)            | ---      100       |
|   |                 |  |              | Selenium       | TVS      TVS         |                    |
|   |                 |  |              | Silver         | TVS      TVS(tr)     |                    |
|   |                 |  |              | Uranium        | varies*      varies* |                    |
|   |                 |  |              | Zinc           | TVS      TVS         |                    |

2. Mainstem of the Big Thompson River from the boundary of Rocky Mountain National Park to the Greeley-Loveland Canal Diversion (40.397884, -105.106482). All tributaries to the Big Thompson River, including all wetlands, from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449).

| COSPBT02   | Classifications | Physical and Biological                      |              |                | Metals (ug/L)        |                    |
|--|-----------------|--|--------------|----------------|----------------------|--------------------|
| Designation  | Agriculture     |  | DM           | MWAT           |                      | acute      chronic |
| Reviewable   | Aq Life Cold 1  | Temperature °C                               | CS-II        | CS-II          | Arsenic              | 340      ---       |
|  | Recreation E    |  | <b>acute</b> | <b>chronic</b> | Arsenic(T)           | ---      0.02      |
| <b>Qualifiers:</b><br><br><b>Other:</b><br><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Copper(acute) = 11 ug/L from immediately above the Upper Thompson Sanitation District's wastewater treatment plant outfall to the Home Supply Canal Diversion.<br>*Copper(chronic) = 7.5 ug/L from immediately above the Upper Thompson Sanitation District's wastewater treatment plant outfall to the Home Supply Canal Diversion.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                                  | ---          | 6.0            | Cadmium              | TVS      TVS       |
|  |                 | D.O. (spawning)                              | ---          | 7.0            | Cadmium(T)           | 5.0      ---       |
|  |                 | pH   | 6.5 - 9.0    | ---            | Chromium III         | ---      TVS       |
|  |                 | chlorophyll a (mg/m <sup>2</sup> )           | ---          | 150*           | Chromium III(T)      | 50      ---        |
|  |                 | <b>E. Coli</b> / <b>E. coli</b> (per 100 mL) | ---          | 126            | Chromium VI          | TVS      TVS       |
|  |                 |  |              |                | Copper               | ---      7.5*      |
|  |                 |  |              |                | Copper               | 11*      TVS       |
|  |                 |  |              |                | Copper               | TVS      ---       |
|  |                 |  |              |                | Iron                 | ---      WS        |
|  |                 |  |              |                | Iron(T)              | ---      1000      |
|  |                 |  |              |                | Lead                 | TVS      TVS       |
|  |                 |  |              |                | Lead(T)              | 50      ---        |
|  |                 |  |              |                | Manganese            | TVS      TVS/WS    |
|  |                 |  |              |                | Mercury(T)           | ---      0.01      |
|  |                 |  |              |                | Molybdenum(T)        | ---      150       |
|  |                 |  |              | Nickel         | TVS      TVS         |                    |
|  |                 |  |              | Nickel(T)      | ---      100         |                    |
|  |                 |  |              | Selenium       | TVS      TVS         |                    |
|  |                 |  |              | Silver         | TVS      TVS(tr)     |                    |
|  |                 |  |              | Uranium        | varies*      varies* |                    |
|  |                 |  |              | Zinc           | TVS      TVS         |                    |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

| 3. Mainstem of the Big Thompson River from the Greeley-Loveland Canal diversion (40.397884, -105.106482) to County Road 11H. |  |  |           |             |                 |         |         |
|--|--|--|-----------|-------------|-----------------|---------|---------|
| COSPBT03   | Classifications  | Physical and Biological                                      |           |             | Metals (ug/L)   |         |         |
| Designation  | Agriculture  | DM   | MWAT      | acute       | chronic         |         |         |
| Reviewable   | Aq Life Warm 1   | Temperature °C   | WS-I      | WS-I        | Arsenic         | 340     | ---     |
|  | Recreation E   |  | acute     | chronic     | Arsenic(T)      | ---     | 0.02    |
| Qualifiers:  | Water Supply   | D.O. (mg/L)  | ---       | 5.0         | Cadmium         | TVS     | TVS     |
|  |  | pH   | 6.5 - 9.0 | ---         | Cadmium(T)      | 5.0     | ---     |
| Other:   | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | chlorophyll a (mg/m <sup>2</sup> )                           | ---       | ---         | Chromium III    | ---     | TVS     |
|  |  | <span style="color: red;">E-Coli</span> E. coli (per 100 mL) | ---       | 126         | Chromium III(T) | 50      | ---     |
|  |  | Inorganic (mg/L)   |           | Chromium VI | TVS             | TVS     |         |
|  |  | acute  | chronic   | Copper      | TVS             | TVS     |         |
|  |  | Ammonia  | TVS       | TVS         | Iron            | ---     | WS      |
|  |  | Boron  | ---       | 0.75        | Iron(T)         | ---     | 1000    |
|  |  | Chloride   | ---       | 250         | Lead            | TVS     | TVS     |
|  |  | Chlorine   | 0.019     | 0.011       | Lead(T)         | 50      | ---     |
|  |  | Cyanide  | 0.005     | ---         | Manganese       | TVS     | TVS/WS  |
|  |  | Nitrate  | 10        | ---         | Mercury(T)      | ---     | 0.01    |
|  |  | Nitrite  | ---       | 0.5         | Molybdenum(T)   | ---     | 150     |
|  |  | Phosphorus   | ---       | ---         | Nickel          | TVS     | TVS     |
|  |  | Sulfate  | ---       | WS          | Nickel(T)       | ---     | 100     |
|  |  | Sulfide  | ---       | 0.002       | Selenium        | TVS     | TVS     |
|  |  |  |           |             | Silver          | TVS     | TVS     |
|  |  |  |           |             | Uranium         | varies* | varies* |
|  |  |  |           |             | Zinc            | TVS     | TVS     |

  

| 4. Mainstem of the Big Thompson River from County Road 11H to I-25. |  |  |           |         |                 |         |         |
|---|--|--|-----------|---------|-----------------|---------|---------|
| COSPBT04  | Classifications  | Physical and Biological                                      |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture  | DM   | MWAT      | acute   | chronic         |         |         |
| Reviewable  | Aq Life Warm 2   | Temperature °C   | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|   | Recreation E   |  | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| Qualifiers:   | Fish Ingestion Standards   | D.O. (mg/L)  | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|   |  | pH   | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
| Other:  | *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | chlorophyll a (mg/m <sup>2</sup> )                           | ---       | ---     | Chromium III(T) | ---     | 100     |
|   |  | <span style="color: red;">E-Coli</span> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |  | Inorganic (mg/L)   |           | Copper  | TVS             | TVS     |         |
|   |  | acute  | chronic   | Iron(T) | ---             | 1000    |         |
|   |  | Ammonia  | TVS       | TVS     | Lead            | TVS     | TVS     |
|   |  | Boron  | ---       | 0.75    | Manganese       | TVS     | TVS     |
|   |  | Chloride   | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|   |  | Chlorine   | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|   |  | Cyanide  | 0.005     | ---     | Nickel          | TVS     | TVS     |
|   |  | Nitrate  | 100       | ---     | Selenium        | TVS     | TVS     |
|   |  | Nitrite  | ---       | 0.5     | Silver          | TVS     | TVS     |
|   |  | Phosphorus   | ---       | ---     | Uranium         | varies* | varies* |
|   |  | Sulfate  | ---       | ---     | Zinc            | TVS     | TVS     |
|   |  | Sulfide  | ---       | 0.002   |                 |         |         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

| 5. Mainstem of The Big Thompson River from I-25 to the confluence with the South Platte River.  |  |  |           |             |                 |         |         |
|---|--|--|-----------|-------------|-----------------|---------|---------|
| COSPBT05  | Classifications  | Physical and Biological                    |           |             | Metals (ug/L)   |         |         |
| Designation   | Agriculture  | DM   | MWAT      | acute       | chronic         |         |         |
| Reviewable  | Aq Life Warm 1   | Temperature °C                             | WS-I      | WS-I        | Arsenic         | 340     | ---     |
|   | Water Supply   |  | acute     | chronic     | Arsenic(T)      | ---     | 0.02    |
| Qualifiers:   | Recreation E   | D.O. (mg/L)                                | ---       | 5.0         | Cadmium         | TVS     | TVS     |
|   |  | pH   | 6.5 - 9.0 | ---         | Cadmium(T)      | 5.0     | ---     |
| Other:  | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.                               | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---         | Chromium III    | ---     | TVS     |
|   |  | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126         | Chromium III(T) | 50      | ---     |
|   |  | Inorganic (mg/L)                           |           | Chromium VI | TVS             | TVS     |         |
|   |  | acute                                      | chronic   | Copper      | TVS             | TVS     |         |
|   |  | Ammonia                                    | TVS       | TVS         | Iron            | ---     | WS      |
|   |  | Boron                                      | ---       | 0.75        | Iron(T)         | ---     | 1000    |
|   |  | Chloride                                   | ---       | 250         | Lead            | TVS     | TVS     |
|   |  | Chlorine                                   | 0.019     | 0.011       | Lead(T)         | 50      | ---     |
|   |  | Cyanide                                    | 0.005     | ---         | Manganese       | TVS     | TVS/WS  |
|   |  | Nitrate                                    | 10        | ---         | Mercury(T)      | ---     | 0.01    |
|   |  | Nitrite                                    | ---       | 0.5         | Molybdenum(T)   | ---     | 150     |
|   |  | Phosphorus                                 | ---       | ---         | Nickel          | TVS     | TVS     |
|   |  | Sulfate                                    | ---       | WS          | Nickel(T)       | ---     | 100     |
|   |  | Sulfide                                    | ---       | 0.002       | Selenium        | TVS     | TVS     |
|   |  |  |           |             | Silver          | TVS     | TVS     |
|   |  |  |           |             | Uranium         | varies* | varies* |
|   |  |  |           |             | Zinc            | TVS     | TVS     |
| 6. All tributaries to the Big Thompson River, including all wetlands, from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 7, 8, 9, and 10. |  |  |           |             |                 |         |         |
| COSPBT06  | Classifications  | Physical and Biological                    |           |             | Metals (ug/L)   |         |         |
| Designation   | Agriculture  | DM   | MWAT      | acute       | chronic         |         |         |
| UP  | Aq Life Warm 2   | Temperature °C                             | WS-I      | WS-I        | Arsenic         | 340     | ---     |
|   | Water Supply   |  | acute     | chronic     | Arsenic(T)      | ---     | 0.02    |
| Qualifiers:   | Recreation E   | D.O. (mg/L)                                | ---       | 5.0         | Cadmium         | TVS     | TVS     |
|   |  | pH   | 6.5 - 9.0 | ---         | Cadmium(T)      | 5.0     | ---     |
| Other:  | Water + Fish Standards<br><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150         | Chromium III    | ---     | TVS     |
|   |  | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126         | Chromium III(T) | 50      | ---     |
|   |  | Inorganic (mg/L)                           |           | Chromium VI | TVS             | TVS     |         |
|   |  | acute                                      | chronic   | Copper      | TVS             | TVS     |         |
|   |  | Ammonia                                    | TVS       | TVS         | Iron            | ---     | WS      |
|   |  | Boron                                      | ---       | 0.75        | Iron(T)         | ---     | 1000    |
|   |  | Chloride                                   | ---       | 250         | Lead            | TVS     | TVS     |
|   |  | Chlorine                                   | 0.019     | 0.011       | Lead(T)         | 50      | ---     |
|   |  | Cyanide                                    | 0.005     | ---         | Manganese       | TVS     | TVS/WS  |
|   |  | Nitrate                                    | 10        | ---         | Mercury(T)      | ---     | 0.01    |
|   |  | Nitrite                                    | ---       | 0.5         | Molybdenum(T)   | ---     | 150     |
|   |  | Phosphorus                                 | ---       | 0.17        | Nickel          | TVS     | TVS     |
|   |  | Sulfate                                    | ---       | WS          | Nickel(T)       | ---     | 100     |
|   |  | Sulfide                                    | ---       | 0.002       | Selenium        | TVS     | TVS     |
|   |  |  |           |             | Silver          | TVS     | TVS     |
|   |  |  |           |             | Uranium         | varies* | varies* |
|   |  |  |           |             | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

| 7. Buckhorn Creek from the source to the confluence with the Big Thompson River.   |  |                         |         |                                    |                 |                      |
|--|--|-------------------------|---------|------------------------------------|-----------------|----------------------|
| COSPBT07   | Classifications                                | Physical and Biological |         |                                    | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    | DM                      | MWAT    | acute      chronic                 |                 |                      |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | CS-II                   | CS-II   | Temperature °C                     | Arsenic         | 340      ---         |
| Qualifiers:  |  | acute                   | chronic | D.O. (mg/L)                        | Arsenic(T)      | ---      0.02        |
| Other:   |  | D.O. (spawning)         | 7.0     | pH                                 | Cadmium         | TVS      TVS         |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | 6.5 - 9.0               | ---     | chlorophyll a (mg/m <sup>2</sup> ) | Chromium III    | ---      TVS         |
| Inorganic (mg/L)   |  | ---                     | 150*    | E.-ColiE. coli (per 100 mL)        | Chromium III(T) | 50      ---          |
| Acute  |  | acute                   | chronic | ---                                | Chromium VI     | TVS      TVS         |
| Chronic  |  | TVS                     | TVS     | Copper                             | Iron            | TVS      TVS         |
| Ammonia  |  | ---                     | 0.75    | Iron(T)                            | Lead            | ---      1000        |
| Boron  |  | ---                     | 250     | Lead(T)                            | Manganese       | TVS      TVS/WS      |
| Chloride   |  | 0.019                   | 0.011   | Manganese(T)                       | Mercury(T)      | ---      0.01        |
| Chlorine   |  | 0.005                   | ---     | Mercury(T)                         | Molybdenum(T)   | ---      150         |
| Cyanide  |  | 10                      | ---     | Molybdenum(T)                      | Nickel          | TVS      TVS         |
| Nitrate  |  | ---                     | 0.05    | Nickel(T)                          | Nickel(T)       | ---      100         |
| Nitrite  |  | ---                     | 0.11*   | Selenium                           | Selenium        | TVS      TVS         |
| Phosphorus   |  | ---                     | WS      | Silver                             | Silver          | TVS      TVS(tr)     |
| Sulfate  |  | ---                     | 0.002   | Uranium                            | Uranium         | varies*      varies* |
| Sulfide  |  | ---                     | ---     | Zinc                               | Zinc            | TVS      TVS         |

  

| 8. Mainstem of the Little Thompson River, including all tributaries and wetlands, from the source to the Culver Ditch diversion (40.259242, -105.200029).                                  |  |                         |         |                                    |                 |                      |
|--|--|-------------------------|---------|------------------------------------|-----------------|----------------------|
| COSPBT08   | Classifications                                | Physical and Biological |         |                                    | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    | DM                      | MWAT    | acute      chronic                 |                 |                      |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | CS-II                   | CS-II   | Temperature °C                     | Arsenic         | 340      ---         |
| Qualifiers:  |  | acute                   | chronic | D.O. (mg/L)                        | Arsenic(T)      | ---      0.02        |
| Other:   |  | D.O. (spawning)         | 7.0     | pH                                 | Cadmium         | TVS      TVS         |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | 6.5 - 9.0               | ---     | chlorophyll a (mg/m <sup>2</sup> ) | Chromium III    | ---      TVS         |
| Inorganic (mg/L)   |  | ---                     | 150     | E.-ColiE. coli (per 100 mL)        | Chromium III(T) | 50      ---          |
| Acute  |  | acute                   | chronic | ---                                | Chromium VI     | TVS      TVS         |
| Chronic  |  | TVS                     | TVS     | Copper                             | Iron            | TVS      TVS         |
| Ammonia  |  | ---                     | 0.75    | Iron(T)                            | Lead            | ---      1000        |
| Boron  |  | ---                     | 250     | Lead(T)                            | Manganese       | TVS      TVS/WS      |
| Chloride   |  | 0.019                   | 0.011   | Manganese(T)                       | Mercury(T)      | ---      0.01        |
| Chlorine   |  | 0.005                   | ---     | Mercury(T)                         | Molybdenum(T)   | ---      150         |
| Cyanide  |  | 10                      | ---     | Molybdenum(T)                      | Nickel          | TVS      TVS         |
| Nitrate  |  | ---                     | 0.05    | Nickel(T)                          | Nickel(T)       | ---      100         |
| Nitrite  |  | ---                     | 0.11    | Selenium                           | Selenium        | TVS      TVS         |
| Phosphorus   |  | ---                     | WS      | Silver                             | Silver          | TVS      TVS(tr)     |
| Sulfate  |  | ---                     | 0.002   | Uranium                            | Uranium         | varies*      varies* |
| Sulfide  |  | ---                     | ---     | Zinc                               | Zinc            | TVS      TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

| 9. Mainstem of the Little Thompson River from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River. |  |   |           |         |                 |                      |
|--|--|---|-----------|---------|-----------------|----------------------|
| COSPBT09   | Classifications                                | Physical and Biological                 |           |         | Metals (ug/L)   |                      |
| Designation  | Agriculture                                    |   | DM        | MWAT    |                 | acute      chronic   |
| Reviewable   | Aq Life Warm 1<br>Recreation E<br>Water Supply | Temperature °C                          | WS-II     | WS-II   | Arsenic         | 340      ---         |
| Qualifiers:  |  |   | acute     | chronic | Arsenic(T)      | ---      0.02        |
| Other:   |  | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS      TVS         |
| Temporary Modification(s):   |  | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0      ---         |
| Arsenic(chronic) = hybrid  |  | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*    | Chromium III    | ---      TVS         |
| Expiration Date of 12/31/2024  |  | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      ---          |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).  |  | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS      TVS         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).  |  |   | acute     | chronic | Copper          | TVS      TVS         |
| *Uranium(acute) = See 38.5(3) for details.   |  | Ammonia                                 | TVS       | TVS     | Iron            | ---      WS          |
| *Uranium(chronic) = See 38.5(3) for details.   |  | Boron                                   | ---       | 0.75    | Iron(T)         | ---      1000        |
|  |  | Chloride                                | ---       | 250     | Lead            | TVS      TVS         |
|  |  | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      ---          |
|  |  | Cyanide                                 | 0.005     | ---     | Manganese       | TVS      TVS/WS      |
|  |  | Nitrate                                 | 10        | ---     | Mercury(T)      | ---      0.01        |
|  |  | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---      150         |
|  |  | Phosphorus                              | ---       | 0.17*   | Nickel          | TVS      TVS         |
|  |  | Sulfate                                 | ---       | WS      | Nickel(T)       | ---      100         |
|  |  | Sulfide                                 | ---       | 0.002   | Selenium        | TVS      TVS         |
|  |  |   |           |         | Silver          | TVS      TVS         |
|  |  |   |           |         | Uranium         | varies*      varies* |
|  |  |   |           |         | Zinc            | TVS      TVS         |

  

| 10. All tributaries to the Little Thompson River, including all wetlands, from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River. |                                |   |           |         |                 |                      |
|---|--------------------------------|---|-----------|---------|-----------------|----------------------|
| COSPBT10  | Classifications                | Physical and Biological                 |           |         | Metals (ug/L)   |                      |
| Designation   | Agriculture                    |   | DM        | MWAT    |                 | acute      chronic   |
| UP  | Aq Life Warm 2<br>Recreation E | Temperature °C                          | WS-II     | WS-II   | Arsenic         | 340      ---         |
| Qualifiers:   |                                |   | acute     | chronic | Arsenic(T)      | ---      100         |
| Other:  |                                | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS      TVS         |
| Temporary Modification(s):  |                                | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | TVS      TVS         |
| Arsenic(chronic) = hybrid   |                                | chlorophyll a (mg/m <sup>2</sup> )      | ---       | 150*    | Chromium III(T) | ---      100         |
| Expiration Date of 12/31/2024   |                                | <del>E.-Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS      TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).   |                                | Inorganic (mg/L)                        |           |         | Copper          | TVS      TVS         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).   |                                |   | acute     | chronic | Iron(T)         | ---      1000        |
| *Uranium(acute) = See 38.5(3) for details.  |                                | Ammonia                                 | TVS       | TVS     | Lead            | TVS      TVS         |
| *Uranium(chronic) = See 38.5(3) for details.  |                                | Boron                                   | ---       | 0.75    | Manganese       | TVS      TVS         |
|   |                                | Chloride                                | ---       | ---     | Mercury(T)      | ---      0.01        |
|   |                                | Chlorine                                | 0.019     | 0.011   | Molybdenum(T)   | ---      150         |
|   |                                | Cyanide                                 | 0.005     | ---     | Nickel          | TVS      TVS         |
|   |                                | Nitrate                                 | 100       | ---     | Selenium        | TVS      TVS         |
|   |                                | Nitrite                                 | ---       | 0.5     | Silver          | TVS      TVS         |
|   |                                | Phosphorus                              | ---       | 0.17*   | Uranium         | varies*      varies* |
|   |                                | Sulfate                                 | ---       | ---     | Zinc            | TVS      TVS         |
|   |                                | Sulfide                                 | ---       | 0.002   |                 |                      |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

| 13. Berthoud Reservoir, Johnstown Reservoir.                                   |   |                         |         |  |                 |                      |
|--|---|-------------------------|---------|--|-----------------|----------------------|
| COSPBT13   | Classifications   | Physical and Biological |         |  | Metals (ug/L)   |                      |
| Designation  | Agriculture<br>Aq Life Warm 2<br>Recreation E<br>Water Supply<br>DUWS   | DM                      | MWAT    | acute      chronic                         |                 |                      |
| UP   |   | WL                      | WL      | Temperature °C                             | Arsenic         | 340      ---         |
|  |   | acute                   | chronic |  | Arsenic(T)      | ---      0.02        |
|  |   |                         |         | D.O. (mg/L)                                | Cadmium         | TVS      TVS         |
|  |   |                         |         | pH   | Cadmium(T)      | 5.0      ---         |
|  |   |                         |         | chlorophyll a (ug/L)                       | Chromium III    | ---      TVS         |
|  |   |                         |         | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | Chromium III(T) | 50      ---          |
| Qualifiers:  |   | Inorganic (mg/L)        |         |  | Chromium VI     | TVS      TVS         |
| Water + Fish Standards   |   | acute                   | chronic |  | Copper          | TVS      TVS         |
| Other:   | *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.  |                         |         | Ammonia                                    | Iron            | ---      WS          |
|  |   |                         |         | Boron                                      | Iron(T)         | ---      1000        |
|  |   |                         |         | Chloride                                   | Lead            | TVS      TVS         |
|  |   |                         |         | Chlorine                                   | Lead(T)         | 50      ---          |
|  |   |                         |         | Cyanide                                    | Manganese       | TVS      TVS/WS      |
|  |   |                         |         | Nitrate                                    | Mercury(T)      | ---      0.01        |
|  |   |                         |         | Nitrite                                    | Molybdenum(T)   | ---      150         |
|  |   |                         |         | Phosphorus                                 | Nickel          | TVS      TVS         |
|  |   |                         |         | Sulfate                                    | Nickel(T)       | ---      100         |
|  |   |                         |         | Sulfide                                    | Selenium        | TVS      TVS         |
|  |   |                         |         |  | Silver          | TVS      TVS         |
|  |   |                         |         |  | Uranium         | varies*      varies* |
|  |   |                         |         |  | Zinc            | TVS      TVS         |
| 14. Welch Reservoir, Lonetree Reservoir, Boedecker Lake, Lon Hagler Reservoir. |   |                         |         |  |                 |                      |
| COSPBT14   | Classifications   | Physical and Biological |         |  | Metals (ug/L)   |                      |
| Designation  | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply<br>DUWS*  | DM                      | MWAT    | acute      chronic                         |                 |                      |
| Reviewable   |   | WL                      | WL      | Temperature °C                             | Arsenic         | 340      ---         |
|  |   | acute                   | chronic |  | Arsenic(T)      | ---      0.02        |
|  |   |                         |         | D.O. (mg/L)                                | Cadmium         | TVS      TVS         |
|  |   |                         |         | pH   | Cadmium(T)      | 5.0      ---         |
|  |   |                         |         | chlorophyll a (ug/L)                       | Chromium III    | ---      TVS         |
|  |   |                         |         | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | Chromium III(T) | 50      ---          |
| Qualifiers:  |   | Inorganic (mg/L)        |         |  | Chromium VI     | TVS      TVS         |
| Other:   | Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br>*Classification: DUWS applies to Lonetree Reservoir only.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | acute                   | chronic |  | Copper          | TVS      TVS         |
|  |   |                         |         | Ammonia                                    | Iron            | ---      WS          |
|  |   |                         |         | Boron                                      | Iron(T)         | ---      1000        |
|  |   |                         |         | Chloride                                   | Lead            | TVS      TVS         |
|  |   |                         |         | Chlorine                                   | Lead(T)         | 50      ---          |
|  |   |                         |         | Cyanide                                    | Manganese       | TVS      TVS/WS      |
|  |   |                         |         | Nitrate                                    | Mercury(T)      | ---      0.01        |
|  |   |                         |         | Nitrite                                    | Molybdenum(T)   | ---      150         |
|  |   |                         |         | Phosphorus                                 | Nickel          | TVS      TVS         |
|  |   |                         |         | Sulfate                                    | Nickel(T)       | ---      100         |
|  |   |                         |         | Sulfide                                    | Selenium        | TVS      TVS         |
|  |   |                         |         |  | Silver          | TVS      TVS         |
|  |   |                         |         |  | Uranium         | varies*      varies* |
|  |   |                         |         |  | Zinc            | TVS      TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Big Thompson River Basin

| 15. All lakes and reservoirs tributary to the Big Thompson River within Rocky Mountain National Park. |  |  |           |         |                 |         |         |
|---|--|--|-----------|---------|-----------------|---------|---------|
| COSPBT15  | Classifications                                | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture                                    |  | DM        | MWAT    |                 | acute   | chronic |
| OW  | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                               | CL        | CL      | Arsenic         | 340     | ---     |
|   |  |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   |  | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |  | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |  | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.            |  | chlorophyll a (ug/L)                         | ---       | ---     | Chromium III(T) | 50      | ---     |
|   |  | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |  | <b>Inorganic (mg/L)</b>                      |           |         | Copper          | TVS     | TVS     |
|   |  |  | acute     | chronic | Iron            | ---     | WS      |
|   |  | Ammonia                                      | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|   |  | Boron  | ---       | 0.75    | Lead            | TVS     | TVS     |
|   |  | Chloride                                     | ---       | 250     | Lead(T)         | 50      | ---     |
|   |  | Chlorine                                     | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|   |  | Cyanide                                      | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|   |  | Nitrate                                      | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|   |  | Nitrite                                      | ---       | 0.05    | Nickel          | TVS     | TVS     |
|   |  | Phosphorus                                   | ---       | ---     | Nickel(T)       | ---     | 100     |
|   |  | Sulfate                                      | ---       | WS      | Selenium        | TVS     | TVS     |
|   |  | Sulfide                                      | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|   |  |  |           |         | Uranium         | varies* | varies* |
|   |  |  |           |         | Zinc            | TVS     | TVS     |

16. All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449). This segment includes Lake Estes and St Mary's Lake.

| 16. All lakes and reservoirs tributary to the Big Thompson River from the boundary of Rocky Mountain National Park to the Home Supply Canal diversion (40.424430, -105.210449). This segment includes Lake Estes and St Mary's Lake.                                |   |  |           |         |                 |         |         |
|---|---|--|-----------|---------|-----------------|---------|---------|
| COSPBT16  | Classifications   | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture   |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1<br>Recreation E<br>Water Supply<br>DUWS* | Temperature °C                               | CL,CLL    | CL,CLL  | Arsenic         | 340     | ---     |
|   |   |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   |   | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |   | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |   | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Classification: DUWS applies to St.Mary's Lake and Mirror Lake only.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | chlorophyll a (ug/L)                         | ---       | ---     | Chromium III(T) | 50      | ---     |
|   |   | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |   | <b>Inorganic (mg/L)</b>                      |           |         | Copper          | TVS     | TVS     |
|   |   |  | acute     | chronic | Iron            | ---     | WS      |
|   |   | Ammonia                                      | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|   |   | Boron  | ---       | 0.75    | Lead            | TVS     | TVS     |
|   |   | Chloride                                     | ---       | 250     | Lead(T)         | 50      | ---     |
|   |   | Chlorine                                     | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|   |   | Cyanide                                      | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|   |   | Nitrate                                      | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|   |   | Nitrite                                      | ---       | 0.05    | Nickel          | TVS     | TVS     |
|   |   | Phosphorus                                   | ---       | ---     | Nickel(T)       | ---     | 100     |
|   |   | Sulfate                                      | ---       | WS      | Selenium        | TVS     | TVS     |
|   |   | Sulfide                                      | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|   |   |  |           |         | Uranium         | varies* | varies* |
|   |   |  |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

17. All lakes and reservoirs tributary to the Big Thompson River from the Home Supply Canal diversion (40.424430, -105.210449) to the confluence with the South Platte River, except for listings in segments 12, 14, 18, and 19.

| COSPBT17   | Classifications   | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|--|---|---|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture   |   | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Warm 2<br>Recreation E<br>Water Supply<br>DUWS* | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---     |
| Qualifiers:  |   |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water + Fish Standards   |   | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| Other:   |   | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br>*Classification: DUWS applies to Pinewood Lake only.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III    | ---     | TVS     |
|  |   | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
|  |   | Inorganic (mg/L)                        |           |         | Chromium VI     | TVS     | TVS     |
|  |   |   | acute     | chronic | Copper          | TVS     | TVS     |
|  |   | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
|  |   | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |   | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
|  |   | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |   | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |   | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |   | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |   | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS     |
|  |   | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |   | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |   |   |           |         | Silver          | TVS     | TVS     |
|  |   |   |           |         | Uranium         | varies* | varies* |
|  |   |   |           |         | Zinc            | TVS     | TVS     |

18. All lakes and reservoirs tributary to the Little Thompson River from the source to the Culver Ditch diversion (40.259242, -105.200029).

| COSPBT18   | Classifications                                | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|--|--|---|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture                                    |   | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 1<br>Recreation E<br>Water Supply | Temperature °C                          | CL        | CL      | Arsenic         | 340     | ---     |
| Qualifiers:  |  |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:   |  | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
|  |  | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|  |  | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III(T) | 50      | ---     |
|  |  | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |  | Inorganic (mg/L)                        |           |         | Copper          | TVS     | TVS     |
|  |  |   | acute     | chronic | Iron            | ---     | WS      |
|  |  | Ammonia                                 | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|  |  | Boron                                   | ---       | 0.75    | Lead            | TVS     | TVS     |
|  |  | Chloride                                | ---       | 250     | Lead(T)         | 50      | ---     |
|  |  | Chlorine                                | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|  |  | Cyanide                                 | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|  |  | Nitrate                                 | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|  |  | Nitrite                                 | ---       | 0.05    | Nickel          | TVS     | TVS     |
|  |  | Phosphorus                              | ---       | ---     | Nickel(T)       | ---     | 100     |
|  |  | Sulfate                                 | ---       | WS      | Selenium        | TVS     | TVS     |
|  |  | Sulfide                                 | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|  |  |   |           |         | Uranium         | varies* | varies* |
|  |  |   |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Big Thompson River Basin

19. All lakes and reservoirs tributary to the Little Thompson River from the Culver Ditch diversion (40.259242, -105.200029) to the confluence with the Big Thompson River, except for listings in segments 11 and 13.

| COSPBT19           | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|--------------------|-----------------|---|-----------|---------|-----------------|---------|---------|
| Designation        |                 |   | DM        | MWAT    |                 | acute   | chronic |
| Reviewable         | Agriculture     |   |           |         |                 |         |         |
|                    | Aq Life Warm 1  | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---     |
|                    | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|                    | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b> |                 | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>      |                 | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III    | ---     | TVS     |
|                    |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
|                    |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS     | TVS     |
|                    |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
|                    |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
|                    |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|                    |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
|                    |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|                    |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|                    |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|                    |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|                    |                 | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS     |
|                    |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|                    |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|                    |                 |   |           |         | Silver          | TVS     | TVS     |
|                    |                 |   |           |         | Uranium         | varies* | varies* |
|                    |                 |   |           |         | Zinc            | TVS     | TVS     |

\*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

| 1. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.  |   |  |           |            |                 |                 |     |
|---|---|--|-----------|------------|-----------------|-----------------|-----|
| COSPCP01  | Classifications   | Physical and Biological                      |           |            | Metals (ug/L)   |                 |     |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute      | chronic         |                 |     |
| OW  |   |  | CS-I      | CS-I       | Arsenic         | 340             | --- |
|   |   | acute  | chronic   | Arsenic(T) | ---             | 0.02            |     |
|   |   | D.O. (mg/L)                                  | ---       | 6.0        | Cadmium         | TVS TVS         |     |
|   |   | D.O. (spawning)                              | ---       | 7.0        | Cadmium(T)      | 5.0 ---         |     |
|   |   | pH   | 6.5 - 9.0 | ---        | Chromium III    | --- TVS         |     |
|   |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150        | Chromium III(T) | 50 ---          |     |
|   |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS TVS         |     |
|   |   | Inorganic (mg/L)                             |           |            | Copper          | TVS             | TVS |
|   |   | acute  | chronic   | Iron       | ---             | WS              |     |
|   |   | Ammonia                                      | TVS       | TVS        | Iron(T)         | ---             |     |
|   |   | Boron  | ---       | 0.75       | Lead            | TVS TVS         |     |
|   |   | Chloride                                     | ---       | 250        | Lead(T)         | 50 ---          |     |
|   |   | Chlorine                                     | 0.019     | 0.011      | Manganese       | TVS TVS/WS      |     |
|   |   | Cyanide                                      | 0.005     | ---        | Mercury(T)      | --- 0.01        |     |
|   |   | Nitrate                                      | 10        | ---        | Molybdenum(T)   | --- 150         |     |
|   |   | Nitrite                                      | ---       | 0.05       | Nickel          | TVS TVS         |     |
|   |   | Phosphorus                                   | ---       | 0.11       | Nickel(T)       | --- 100         |     |
|   |   | Sulfate                                      | ---       | WS         | Selenium        | TVS TVS         |     |
|   |   | Sulfide                                      | ---       | 0.002      | Silver          | TVS TVS(tr)     |     |
|   |   |  |           |            | Uranium         | varies* varies* |     |
|   |   |  |           |            | Zinc            | TVS TVS         |     |
| 2a. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to a point immediately below the confluence with the South Fork Cache La Poudre River. |   |  |           |            |                 |                 |     |
| COSPCP02A   | Classifications   | Physical and Biological                      |           |            | Metals (ug/L)   |                 |     |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute      | chronic         |                 |     |
| Reviewable  |   |  | CS-I      | CS-I       | Arsenic         | 340             | --- |
|   |   | acute  | chronic   | Arsenic(T) | ---             | 0.02            |     |
|   |   | D.O. (mg/L)                                  | ---       | 6.0        | Cadmium         | TVS TVS         |     |
|   |   | D.O. (spawning)                              | ---       | 7.0        | Cadmium(T)      | 5.0 ---         |     |
|   |   | pH   | 6.5 - 9.0 | ---        | Chromium III    | --- TVS         |     |
|   |   | chlorophyll a (mg/m <sup>2</sup> )           | ---       | 150*       | Chromium III(T) | 50 ---          |     |
|   |   | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126        | Chromium VI     | TVS TVS         |     |
|   |   | Inorganic (mg/L)                             |           |            | Copper          | TVS             | TVS |
|   |   | acute  | chronic   | Iron       | ---             | WS              |     |
|   |   | Ammonia                                      | TVS       | TVS        | Iron(T)         | ---             |     |
|   |   | Boron  | ---       | 0.75       | Lead            | TVS TVS         |     |
|   |   | Chloride                                     | ---       | 250        | Lead(T)         | 50 ---          |     |
|   |   | Chlorine                                     | 0.019     | 0.011      | Manganese       | TVS TVS/WS      |     |
|   |   | Cyanide                                      | 0.005     | ---        | Mercury(T)      | --- 0.01        |     |
|   |   | Nitrate                                      | 10        | ---        | Molybdenum(T)   | --- 150         |     |
|   |   | Nitrite                                      | ---       | 0.05       | Nickel          | TVS TVS         |     |
|   |   | Phosphorus                                   | ---       | 0.11*      | Nickel(T)       | --- 100         |     |
|   |   | Sulfate                                      | ---       | WS         | Selenium        | TVS TVS         |     |
|   |   | Sulfide                                      | ---       | 0.002      | Silver          | TVS TVS(tr)     |     |
|   |   |  |           |            | Uranium         | varies* varies* |     |
|   |   |  |           |            | Zinc            | TVS TVS         |     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

| 2b. Mainstem of the Cache La Poudre River, including all tributaries and wetlands, from a point immediately below the confluence with the South Fork Cache La Poudre River to the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292), except for listings in segments 1 and 3. |   |  |           |                    |                 |                      |
|---|---|--|-----------|--------------------|-----------------|----------------------|
| COSPCP02B   | Classifications   | Physical and Biological                    |           |                    | Metals (ug/L)   |                      |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute      chronic |                 |                      |
| Reviewable  |   | acute                                      | chronic   |                    |                 |                      |
|   |   | Temperature °C                             | CS-II     | CS-II              | Arsenic         | 340      ---         |
|   |   | D.O. (mg/L)                                | ---       | 6.0                | Arsenic(T)      | ---      0.02        |
|   |   | D.O. (spawning)                            | ---       | 7.0                | Cadmium         | TVS      TVS         |
| <b>Qualifiers:</b>  |   | pH   | 6.5 - 9.0 | ---                | Cadmium(T)      | 5.0      ---         |
| <b>Other:</b>   |   | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150                | Chromium III    | ---      TVS         |
| Temporary Modification(s):  |   | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126                | Chromium III(T) | 50      ---          |
| Arsenic(chronic) = hybrid   |   | <b>Inorganic (mg/L)</b>                    |           |                    | Chromium VI     | TVS      TVS         |
| Expiration Date of 12/31/2024   |   |  |           |                    | Copper          | TVS      TVS         |
| *Uranium(acute) = See 38.5(3) for details.  |   |  |           |                    | Iron            | ---      WS          |
| *Uranium(chronic) = See 38.5(3) for details.  |   |  |           |                    | Iron(T)         | ---      1000        |
|   |   | Ammonia                                    | TVS       | TVS                | Lead            | TVS      TVS         |
|   |   | Boron                                      | ---       | 0.75               | Lead(T)         | 50      ---          |
|   |   | Chloride                                   | ---       | 250                | Manganese       | TVS      TVS/WS      |
|   |   | Chlorine                                   | 0.019     | 0.011              | Mercury(T)      | ---      0.01        |
|   |   | Cyanide                                    | 0.005     | ---                | Molybdenum(T)   | ---      150         |
|   |   | Nitrate                                    | 10        | ---                | Nickel          | TVS      TVS         |
|   |   | Nitrite                                    | ---       | 0.05               | Nickel(T)       | ---      100         |
|   |   | Phosphorus                                 | ---       | 0.11               | Selenium        | TVS      TVS         |
|   |   | Sulfate                                    | ---       | WS                 | Silver          | TVS      TVS(tr)     |
|   |   | Sulfide                                    | ---       | 0.002              | Uranium         | varies*      varies* |
|   |   |  |           |                    | Zinc            | TVS      TVS         |

  

| 3. Elkhorn Creek, including all tributaries and wetlands, from the source to a point immediately above the confluence with Manhattan Creek. |   |  |           |                    |                 |                      |
|---|---|--|-----------|--------------------|-----------------|----------------------|
| COSPCP03  | Classifications   | Physical and Biological                    |           |                    | Metals (ug/L)   |                      |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM   | MWAT      | acute      chronic |                 |                      |
| Reviewable  |   | acute                                      | chronic   |                    |                 |                      |
|   |   | Temperature °C                             | CS-I      | CS-I               | Arsenic         | 340      ---         |
|   |   | D.O. (mg/L)                                | ---       | 6.0                | Arsenic(T)      | ---      0.02        |
|   |   | D.O. (spawning)                            | ---       | 7.0                | Cadmium         | TVS      TVS         |
| <b>Qualifiers:</b>  |   | pH   | 6.5 - 9.0 | ---                | Cadmium(T)      | 5.0      ---         |
| <b>Other:</b>   |   | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150                | Chromium III    | ---      TVS         |
| *Uranium(acute) = See 38.5(3) for details.  |   | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126                | Chromium III(T) | 50      ---          |
| *Uranium(chronic) = See 38.5(3) for details.  |   | <b>Inorganic (mg/L)</b>                    |           |                    | Chromium VI     | TVS      TVS         |
|   |   |  |           |                    | Copper          | TVS      TVS         |
|   |   |  |           |                    | Iron            | ---      WS          |
|   |   |  |           |                    | Iron(T)         | ---      1000        |
|   |   | Ammonia                                    | TVS       | TVS                | Lead            | TVS      TVS         |
|   |   | Boron                                      | ---       | 0.75               | Lead(T)         | 50      ---          |
|   |   | Chloride                                   | ---       | 250                | Manganese       | TVS      TVS/WS      |
|   |   | Chlorine                                   | 0.019     | 0.011              | Mercury(T)      | ---      0.01        |
|   |   | Cyanide                                    | 0.005     | ---                | Molybdenum(T)   | ---      150         |
|   |   | Nitrate                                    | 10        | ---                | Nickel          | TVS      TVS         |
|   |   | Nitrite                                    | ---       | 0.05               | Nickel(T)       | ---      100         |
|   |   | Phosphorus                                 | ---       | 0.11               | Selenium        | TVS      TVS         |
|   |   | Sulfate                                    | ---       | WS                 | Silver          | TVS      TVS(tr)     |
|   |   | Sulfide                                    | ---       | 0.002              | Uranium         | varies*      varies* |
|   |   |  |           |                    | Zinc            | TVS      TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

| 4. Deleted. |                 |                         |         |                    |
|-------------|-----------------|-------------------------|---------|--------------------|
| COSPCP04    | Classifications | Physical and Biological |         | Metals (ug/L)      |
| Designation |                 | DM                      | MWAT    | acute      chronic |
| Qualifiers: |                 | acute                   | chronic |                    |
| Other:      |                 | Inorganic (mg/L)        |         |                    |
|             |                 | acute                   | chronic |                    |
| 5. Deleted. |                 |                         |         |                    |
| COSPCP05    | Classifications | Physical and Biological |         | Metals (ug/L)      |
| Designation |                 | DM                      | MWAT    | acute      chronic |
| Qualifiers: |                 | acute                   | chronic |                    |
| Other:      |                 | Inorganic (mg/L)        |         |                    |
|             |                 | acute                   | chronic |                    |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

| 6. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the source to the inlet of Halligan Reservoir.   |                 |  |           |          |                 |         |        |
|---|-----------------|--|-----------|----------|-----------------|---------|--------|
| COSPCP06  | Classifications | Physical and Biological  |           |          | Metals (ug/L)   |         |        |
| Designation   | Agriculture     | DM   | MWAT      | acute    | chronic         |         |        |
| Reviewable  | Aq Life Cold 1  | Temperature °C   | CS-I      | CS-I     | Arsenic         | 340     | ---    |
|   | Recreation E    |  | acute     | chronic  | Arsenic(T)      | ---     | 0.02   |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)  | ---       | 6.0      | Cadmium         | TVS     | TVS    |
|   |                 | D.O. (spawning)  | ---       | 7.0      | Cadmium(T)      | 5.0     | ---    |
|   |                 | pH   | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS    |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )   | ---       | 150      | Chromium III(T) | 50      | ---    |
|   |                 | <span style="color: red;">E.-Coli</span> <span style="color: red;">E. coli</span> (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS    |
|   |                 | Inorganic (mg/L)   |           |          | Copper          | TVS     | TVS    |
|   |                 | acute  | chronic   | Iron     | ---             | WS      |        |
|   |                 | Ammonia  | TVS       | TVS      | Iron(T)         | ---     | 1000   |
|   |                 | Boron  | ---       | 0.75     | Lead            | TVS     | TVS    |
|   |                 | Chloride   | ---       | 250      | Lead(T)         | 50      | ---    |
|   |                 | Chlorine   | 0.019     | 0.011    | Manganese       | TVS     | TVS/WS |
|   |                 | Cyanide  | 0.005     | ---      | Mercury(T)      | ---     | 0.01   |
|   |                 | Nitrate  | 10        | ---      | Molybdenum(T)   | ---     | 150    |
|   |                 | Nitrite  | ---       | 0.05     | Nickel          | TVS     | TVS    |
|   |                 | Phosphorus   | ---       | 0.11     | Nickel(T)       | ---     | 100    |
|   | Sulfate         | ---  | WS        | Selenium | TVS             | TVS     |        |
|   | Sulfide         | ---  | 0.002     | Silver   | TVS             | TVS(tr) |        |
|   |                 |  |           | Uranium  | varies*         | varies* |        |
|   |                 |  |           | Zinc     | TVS             | TVS     |        |

7. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for listings in segments 8 and 20.

| 7. North Fork of the Cache La Poudre River, including all tributaries and wetlands, from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River, except for listings in segments 8 and 20.                  |                 |  |           |          |                 |         |        |
|---|-----------------|--|-----------|----------|-----------------|---------|--------|
| COSPCP07  | Classifications | Physical and Biological  |           |          | Metals (ug/L)   |         |        |
| Designation   | Agriculture     | DM   | MWAT      | acute    | chronic         |         |        |
| Reviewable  | Aq Life Cold 1  | Temperature °C   | CS-II     | CS-II    | Arsenic         | 340     | ---    |
|   | Recreation E    |  | acute     | chronic  | Arsenic(T)      | ---     | 0.02   |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)  | ---       | 6.0      | Cadmium         | TVS     | TVS    |
|   |                 | D.O. (spawning)  | ---       | 7.0      | Cadmium(T)      | 5.0     | ---    |
|   |                 | pH   | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS    |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )   | ---       | ---      | Chromium III(T) | 50      | ---    |
|   |                 | <span style="color: red;">E.-Coli</span> <span style="color: red;">E. coli</span> (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS    |
|   |                 | Inorganic (mg/L)   |           |          | Copper          | TVS     | TVS    |
|   |                 | acute  | chronic   | Iron     | ---             | WS      |        |
|   |                 | Ammonia  | TVS       | TVS      | Iron(T)         | ---     | 1000   |
|   |                 | Boron  | ---       | 0.75     | Lead            | TVS     | TVS    |
|   |                 | Chloride   | ---       | 250      | Lead(T)         | 50      | ---    |
|   |                 | Chlorine   | 0.019     | 0.011    | Manganese       | TVS     | TVS/WS |
|   |                 | Cyanide  | 0.005     | ---      | Mercury(T)      | ---     | 0.01   |
|   |                 | Nitrate  | 10        | ---      | Molybdenum(T)   | ---     | 150    |
|   |                 | Nitrite  | ---       | 0.05     | Nickel          | TVS     | TVS    |
|   |                 | Phosphorus   | ---       | ---      | Nickel(T)       | ---     | 100    |
|   | Sulfate         | ---  | WS        | Selenium | TVS             | TVS     |        |
|   | Sulfide         | ---  | 0.002     | Silver   | TVS             | TVS(tr) |        |
|   |                 |  |           | Uranium  | varies*         | varies* |        |
|   |                 |  |           | Zinc     | TVS             | TVS     |        |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

8. Middle Fork Rabbit Creek, including all tributaries and wetlands, from the source to the confluence with Rabbit Creek. Stonewall Creek, including all tributaries and wetlands, from the source to the confluence with the North Fork of the Cache La Poudre River. North Fork Lone Pine Creek and South Fork Lone Pine Creek, including all tributaries and wetlands, from the source to the confluence with Lone Pine Creek.

| COSPCP08  | Classifications   | Physical and Biological |         |                  | Metals (ug/L) |     |  |
|---|---|-------------------------|---------|------------------|---------------|-----|--|
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                      | MWAT    | acute            | chronic       |     |  |
| Reviewable  |   | acute                   | chronic |                  |               |     |  |
|   |   | D.O. (mg/L)             | ---     | 6.0              | TVS           | TVS |  |
| <b>Qualifiers:</b>  | D.O. (spawning)   | ---                     | 7.0     | 5.0              | ---           |     |  |
| <b>Other:</b>   | pH  | 6.5 - 9.0               | ---     | ---              | TVS           |     |  |
| Temporary Modification(s):  | chlorophyll a (mg/m <sup>2</sup> )                            | ---                     | 150*    | 50               | ---           |     |  |
| Arsenic(chronic) = hybrid   | <b>E. Coli/E. coli</b> (per 100 mL)                           | ---                     | 126     | TVS              | TVS           |     |  |
| Expiration Date of 12/31/2024   |   |                         |         | TVS              | TVS           |     |  |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). |   |                         |         | ---              | WS            |     |  |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                         |   |                         |         | ---              | 1000          |     |  |
| *Uranium(acute) = See 38.5(3) for details.  |   |                         |         | Inorganic (mg/L) |               |     |  |
| *Uranium(chronic) = See 38.5(3) for details.  |   |                         |         | acute            | chronic       |     |  |
|   | Ammonia   | TVS                     | TVS     | TVS              | TVS           |     |  |
|   | Boron   | ---                     | 0.75    | TVS              | TVS/WS        |     |  |
|   | Chloride  | ---                     | 250     | ---              | 0.01          |     |  |
|   | Chlorine  | 0.019                   | 0.011   | ---              | 150           |     |  |
|   | Cyanide   | 0.005                   | ---     | TVS              | TVS           |     |  |
|   | Nitrate   | 10                      | ---     | ---              | 100           |     |  |
|   | Nitrite   | ---                     | 0.05    | TVS              | TVS           |     |  |
|   | Phosphorus  | ---                     | 0.11*   | TVS              | TVS(tr)       |     |  |
|   | Sulfate   | ---                     | WS      | varies*          | varies*       |     |  |
|   | Sulfide   | ---                     | 0.002   | TVS              | TVS           |     |  |

9. Deleted.

| COSPCP09      | Classifications | Physical and Biological |         |       | Metals (ug/L) |  |  |
|---------------|-----------------|-------------------------|---------|-------|---------------|--|--|
| Designation   |                 | DM                      | MWAT    | acute | chronic       |  |  |
| Qualifiers:   |                 | acute                   | chronic |       |               |  |  |
| <b>Other:</b> |                 | Inorganic (mg/L)        |         |       |               |  |  |
|               |                 | acute                   | chronic |       |               |  |  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

10a. Mainstem of the Cache La Poudre River from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to a point immediately above the Larimer County Ditch diversion (40.656612, -105.185244).

| COSPCP10A  | Classifications   | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
|--|---|--|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   |   | Temperature °C                             | CS-II     | CS-II   | Arsenic         | 340     | ---     |
| Qualifiers:  |   |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:<br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | D.O. (mg/L)                                | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |   | D.O. (spawning)                            | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
|  |   | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|  |   | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---     | Chromium III(T) | 50      | ---     |
|  |   | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |   | Inorganic (mg/L)                           |           |         | Copper          | TVS     | TVS     |
|  |   |  |           |         | Iron            | ---     | WS      |
|  |   |  |           |         | Iron(T)         | ---     | 1000    |
|  |   |  |           |         | Lead            | TVS     | TVS     |
|  |   | Ammonia                                    | TVS       | TVS     | Lead(T)         | 50      | ---     |
|  |   | Boron                                      | ---       | 0.75    | Manganese       | TVS     | TVS/WS  |
|  |   | Chloride                                   | ---       | 250     | Mercury(T)      | ---     | 0.01    |
|  |   | Chlorine                                   | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|  |   | Cyanide                                    | 0.005     | ---     | Nickel          | TVS     | TVS     |
|  |   | Nitrate                                    | 10        | ---     | Nickel(T)       | ---     | 100     |
|  |   | Nitrite                                    | ---       | 0.05    | Selenium        | TVS     | TVS     |
|  |   | Phosphorus                                 | ---       | ---     | Silver          | TVS     | TVS(tr) |
|  |   | Sulfate                                    | ---       | WS      | Uranium         | varies* | varies* |
|  |   | Sulfide                                    | ---       | 0.002   | Zinc            | TVS     | TVS     |

10b. Mainstem of the Cache La Poudre River from a point immediately above the Larimer County Ditch diversion (40.656612, -105.185244) to Shields Street in Ft. Collins, Colorado.

| COSPCP10B  | Classifications   | Physical and Biological                    |           |         | Metals (ug/L)   |         |         |
|--|---|--|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture<br>Aq Life Cold 2<br>Recreation E<br>Water Supply |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   |   | Temperature °C                             | CS-II     | CS-II   | Arsenic         | 340     | ---     |
| Qualifiers:  |   |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Other:<br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |   | D.O. (mg/L)                                | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |   | D.O. (spawning)                            | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Water + Fish Standards</b>  |   | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|  |   | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---     | Chromium III(T) | 50      | ---     |
|  |   | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |   | Inorganic (mg/L)                           |           |         | Copper          | TVS     | TVS     |
|  |   |  |           |         | Iron            | ---     | WS      |
|  |   |  |           |         | Iron(T)         | ---     | 1000    |
|  |   |  |           |         | Lead            | TVS     | TVS     |
|  |   | Ammonia                                    | TVS       | TVS     | Lead(T)         | 50      | ---     |
|  |   | Boron                                      | ---       | 0.75    | Manganese       | TVS     | TVS/WS  |
|  |   | Chloride                                   | ---       | 250     | Mercury(T)      | ---     | 0.01    |
|  |   | Chlorine                                   | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|  |   | Cyanide                                    | 0.005     | ---     | Nickel          | TVS     | TVS     |
|  |   | Nitrate                                    | 10        | ---     | Nickel(T)       | ---     | 100     |
|  |   | Nitrite                                    | ---       | 0.05    | Selenium        | TVS     | TVS     |
|  |   | Phosphorus                                 | ---       | ---     | Silver          | TVS     | TVS(tr) |
|  |   | Sulfate                                    | ---       | WS      | Uranium         | varies* | varies* |
|  |   | Sulfide                                    | ---       | 0.002   | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

| 11. Mainstem of the Cache La Poudre River from Shields Street in Ft. Collins to Prospect Road. |                 |  |           |         |                 |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| COSPCP11   | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM   | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Cold 1  | Temperature °C                                 | CS-II     | CS-II   | Arsenic         | 340     | ---     |
|  | Water Supply*   |  | acute     | chronic | Arsenic(T)      | ---     | 0.02*   |
|  | Recreation E    | D.O. (mg/L)                                    | ---       | 6.0     | Arsenic(T)      | ---     | 7.6     |
| <b>Qualifiers:</b>   |                 | D.O. (spawning)                                | ---       | 7.0     | Cadmium         | TVS     | TVS     |
| <b>Other:</b>  |                 | pH   | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0*    | ---     |
|  |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | ---     | Chromium III    | TVS     | TVS     |
|  |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50*     | 100     |
|  |                 |  |           |         | Chromium VI     | TVS     | TVS     |
|  |                 |  |           |         | Copper          | TVS     | TVS     |
|  |                 |  |           |         | Iron            | ---     | WS*     |
|  |                 |  |           |         | Iron(T)         | ---     | 1000    |
|  |                 |  |           |         | Lead            | TVS     | TVS     |
|  |                 |  |           |         | Lead(T)         | 50*     | ---     |
|  |                 |  |           |         | Manganese       | TVS     | TVS     |
|  |                 |  |           |         | Manganese       | ---     | WS*     |
|  |                 |  |           |         | Mercury(T)      | ---     | 0.01    |
|  |                 |  |           |         | Molybdenum(T)   | ---     | 150     |
|  |                 |  |           |         | Nickel          | TVS     | TVS     |
|  |                 |  |           |         | Nickel(T)       | ---     | 100*    |
|  |                 |  |           |         | Selenium        | TVS     | TVS     |
|  |                 |  |           |         | Silver          | TVS     | TVS(tr) |
|  |                 |  |           |         | Uranium         | varies* | varies* |
|  |                 |  |           |         | Zinc            | TVS     | TVS     |

| 12a. Mainstem of the Cache La Poudre River from Prospect Road to U.S. Hwy 85 in Greeley. |                 |  |           |         |                 |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| COSPCP12A  | Classifications | Physical and Biological                        |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM   | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                                 | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|  | Water Supply*   |  | acute     | chronic | Arsenic(T)      | ---     | 0.02*   |
|  | Recreation E    | D.O. (mg/L)                                    | ---       | 5.0     | Arsenic(T)      | ---     | 7.6     |
| <b>Qualifiers:</b>   |                 | pH   | 6.5 - 9.0 | ---     | Cadmium         | TVS     | TVS     |
| <b>Other:</b>  |                 | chlorophyll a (mg/m <sup>2</sup> )             | ---       | ---     | Cadmium(T)      | 5.0*    | ---     |
|  |                 | <del>E. Coli</del> <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium III    | TVS     | TVS     |
|  |                 |  |           |         | Chromium III(T) | 50*     | 100     |
|  |                 |  |           |         | Chromium VI     | TVS     | TVS     |
|  |                 |  |           |         | Copper          | TVS     | TVS     |
|  |                 |  |           |         | Iron            | ---     | WS*     |
|  |                 |  |           |         | Iron(T)         | ---     | 1000    |
|  |                 |  |           |         | Lead            | TVS     | TVS     |
|  |                 |  |           |         | Lead(T)         | 50*     | ---     |
|  |                 |  |           |         | Manganese       | TVS     | TVS     |
|  |                 |  |           |         | Manganese       | ---     | WS*     |
|  |                 |  |           |         | Mercury(T)      | ---     | 0.01    |
|  |                 |  |           |         | Molybdenum(T)   | ---     | 150     |
|  |                 |  |           |         | Nickel          | TVS     | TVS     |
|  |                 |  |           |         | Nickel(T)       | ---     | 100*    |
|  |                 |  |           |         | Selenium        | TVS     | TVS     |
|  |                 |  |           |         | Silver          | TVS     | TVS     |
|  |                 |  |           |         | Uranium         | varies* | varies* |
|  |                 |  |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

| 12b. Mainstem of the Cache La Poudre River from U.S. Hwy 85 in Greeley to the confluence with the South Platte River. |                 |                                     |           |         |                 |         |         |     |
|---|-----------------|-------------------------------------|-----------|---------|-----------------|---------|---------|-----|
| COSPCP12B   | Classifications | Physical and Biological             |           |         | Metals (ug/L)   |         |         |     |
| Designation   | Agriculture     | DM                                  | MWAT      | acute   | chronic         |         |         |     |
| Reviewable  | Aq Life Warm 1  | Temperature °C                      | WS-I      | WS-I    | Arsenic         | 340     | ---     |     |
|   | Recreation E    |                                     | acute     | chronic | Arsenic(T)      | ---     | 7.6     |     |
| <b>Qualifiers:</b>  |                 | D.O. (mg/L)                         | ---       | 5.0     | Cadmium         | TVS     | TVS     |     |
| <b>Other:</b>   |                 | pH                                  | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |     |
| *Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details.                            |                 | chlorophyll a (mg/m <sup>2</sup> )  | ---       | ---     | Chromium III(T) | ---     | 100     |     |
|   |                 | <u>E.-Coli</u> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |     |
|   |                 | <b>Inorganic (mg/L)</b>             |           |         |                 | Copper  | TVS     | TVS |
|   |                 |                                     | acute     | chronic | Iron(T)         | ---     | 1000    |     |
|   |                 | Ammonia                             | TVS       | TVS     | Lead            | TVS     | TVS     |     |
|   |                 | Boron                               | ---       | 0.75    | Manganese       | TVS     | TVS     |     |
|   |                 | Chloride                            | ---       | ---     | Mercury(T)      | ---     | 0.01    |     |
|   |                 | Chlorine                            | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |     |
|   |                 | Cyanide                             | 0.005     | ---     | Nickel          | TVS     | TVS     |     |
|   |                 | Nitrate                             | 100       | ---     | Selenium        | TVS     | TVS     |     |
|   |                 | Nitrite                             | ---       | 2.7     | Silver          | TVS     | TVS     |     |
|   |                 | Phosphorus                          | ---       | ---     | Uranium         | varies* | varies* |     |
|   |                 | Sulfate                             | ---       | ---     | Zinc            | TVS     | TVS     |     |
|   |                 | Sulfide                             | ---       | 0.002   |                 |         |         |     |

  

| 13a. All tributaries to the Cache La Poudre River, including all wetlands, from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to the confluence with the South Platte River, except for listings in segments 6, 7, 8, 13b, and 13c.  |                 |                                     |           |         |                 |         |         |
|--|-----------------|-------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPCP13A  | Classifications | Physical and Biological             |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                  | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                      | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|  | Recreation E    |                                     | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |                 | D.O. (mg/L)                         | ---       | 5.0     | Cadmium         | TVS     | TVS     |
|  |                 | pH                                  | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )  | ---       | 150*    | Chromium III    | ---     | TVS     |
| <b>Other:</b>  |                 | <u>E.-Coli</u> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |                 | <b>Inorganic (mg/L)</b>             |           |         | Chromium VI     | TVS     | TVS     |
|  |                 |                                     | acute     | chronic | Copper          | TVS     | TVS     |
|  |                 | Ammonia                             | TVS       | TVS     | Iron            | ---     | WS      |
|  |                 | Boron                               | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |                 | Chloride                            | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                            | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                             | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                             | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                             | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                          | ---       | 0.17*   | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                             | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                             | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |                                     |           |         | Silver          | TVS     | TVS     |
|  |                 |                                     |           |         | Uranium         | varies* | varies* |
|  |                 |                                     |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

13b. Mainstem of Boxelder Creek from its source to a point immediately above Slab Canyon Wash. Mainstems of South Branch of Boxelder Creek, North Branch of Boxelder Creek, and Sand Creek from their sources to their confluences with the mainstem of Boxelder Creek.

| COSPCP13B                                    | Classifications   | Physical and Biological |         |  | Metals (ug/L) |                 |         |         |     |
|--|---|-------------------------|---------|--|---------------|-----------------|---------|---------|-----|
| Designation                                  | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                      | MWAT    | acute                                      | chronic       |                 |         |         |     |
| Reviewable                                   |   |                         | CS-I    | CS-I                                       | ---           | ---             | Arsenic | 340     | --- |
|  |   | acute                   | chronic | D.O. (mg/L)                                | ---           | Arsenic(T)      | ---     | 0.02    |     |
|  |   | ---                     | 6.0     | D.O. (spawning)                            | ---           | Cadmium         | TVS     | TVS     |     |
| <b>Qualifiers:</b>                           |   | ---                     | 7.0     | pH   | 6.5 - 9.0     | Cadmium(T)      | 5.0     | ---     |     |
| <b>Other:</b>                                |   |                         | ---     | chlorophyll a (mg/m <sup>2</sup> )         | ---           | Chromium III    | ---     | TVS     |     |
| Temporary Modification(s):                   |   |                         | ---     | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---           | Chromium III(T) | 50      | ---     |     |
| Arsenic(chronic) = hybrid                    |   |                         | ---     |  | ---           | Chromium VI     | TVS     | TVS     |     |
| Expiration Date of 12/31/2024                |   |                         | ---     |  | ---           | Copper          | TVS     | TVS     |     |
|  |   | Inorganic (mg/L)        |         |  |               | ---             | Iron    | ---     | WS  |
|  |   | acute                   | chronic |  | ---           | Iron(T)         | ---     | 1000    |     |
| *Uranium(acute) = See 38.5(3) for details.   |   | TVS                     | TVS     | Ammonia                                    | TVS           | Lead            | TVS     | TVS     |     |
| *Uranium(chronic) = See 38.5(3) for details. |   | ---                     | 0.75    | Boron                                      | ---           | Lead(T)         | 50      | ---     |     |
|  |   | ---                     | 250     | Chloride                                   | ---           | Manganese       | TVS     | TVS/WS  |     |
|  |   | 0.019                   | 0.011   | Chlorine                                   | 0.019         | Mercury(T)      | ---     | 0.01    |     |
|  |   | 0.005                   | ---     | Cyanide                                    | 0.005         | Molybdenum(T)   | ---     | 150     |     |
|  |   | 10                      | ---     | Nitrate                                    | 10            | Nickel          | TVS     | TVS     |     |
|  |   | ---                     | 0.05    | Nitrite                                    | ---           | Nickel(T)       | ---     | 100     |     |
|  |   | ---                     | 0.11    | Phosphorus                                 | ---           | Selenium        | TVS     | TVS     |     |
|  |   | ---                     | WS      | Sulfate                                    | ---           | Silver          | TVS     | TVS(tr) |     |
|  |   | ---                     | 0.002   | Sulfide                                    | ---           | Uranium         | varies* | varies* |     |
|  |   |                         |         |  |               | Zinc            | TVS     | TVS     |     |

13c. Mainstem of Boxelder Creek from a point immediately above Slab Canyon Wash to the confluence with the Cache La Poudre River.

| COSPCP13C   | Classifications   | Physical and Biological |         |  | Metals (ug/L) |                 |         |         |     |
|---|---|-------------------------|---------|--|---------------|-----------------|---------|---------|-----|
| Designation   | Agriculture<br>Aq Life Warm 1<br>Water Supply<br>Recreation P | DM                      | MWAT    | acute                                      | chronic       |                 |         |         |     |
| Reviewable  |   |                         | WS-I    | WS-I                                       | ---           | ---             | Arsenic | 340     | --- |
|   |   | acute                   | chronic | D.O. (mg/L)                                | ---           | Arsenic(T)      | ---     | 0.02    |     |
|   |   | ---                     | 5.0     | pH   | 6.5 - 9.0     | Cadmium         | TVS     | TVS     |     |
| <b>Qualifiers:</b>  |   |                         | ---     | chlorophyll a (mg/m <sup>2</sup> )         | ---           | Cadmium(T)      | 5.0     | ---     |     |
| <b>Other:</b>   |   |                         | ---     | <u>E.-Coli</u> <u>E. coli</u> (per 100 mL) | ---           | Chromium III    | ---     | TVS     |     |
| Temporary Modification(s):  |   |                         | ---     |  | ---           | Chromium III(T) | 50      | ---     |     |
| Arsenic(chronic) = hybrid   |   |                         | ---     |  | ---           | Chromium VI     | TVS     | TVS     |     |
| Expiration Date of 12/31/2024   |   | Inorganic (mg/L)        |         |  |               | ---             | Copper  | TVS     | TVS |
|   |   | acute                   | chronic |  | ---           | Iron            | ---     | WS      |     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4). |   | TVS                     | TVS     | Ammonia                                    | TVS           | Iron(T)         | ---     | 1000    |     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).                         |   | ---                     | 0.75    | Boron                                      | ---           | Lead            | TVS     | TVS     |     |
| *Uranium(acute) = See 38.5(3) for details.  |   | ---                     | 250     | Chloride                                   | ---           | Lead(T)         | 50      | ---     |     |
| *Uranium(chronic) = See 38.5(3) for details.  |   | 0.019                   | 0.011   | Chlorine                                   | 0.019         | Manganese       | TVS     | TVS/WS  |     |
|   |   | 0.005                   | ---     | Cyanide                                    | 0.005         | Mercury(T)      | ---     | 0.01    |     |
|   |   | 10                      | ---     | Nitrate                                    | 10            | Molybdenum(T)   | ---     | 150     |     |
|   |   | ---                     | 0.5     | Nitrite                                    | ---           | Nickel          | TVS     | TVS     |     |
|   |   | ---                     | 0.17*   | Phosphorus                                 | ---           | Nickel(T)       | ---     | 100     |     |
|   |   | ---                     | WS      | Sulfate                                    | ---           | Selenium        | TVS     | TVS     |     |
|   |   | ---                     | 0.002   | Sulfide                                    | ---           | Silver          | TVS     | TVS     |     |
|   |   |                         |         |  |               | Uranium         | varies* | varies* |     |
|   |   |                         |         |  |               | Zinc            | TVS     | TVS     |     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Cache La Poudre River Basin

| 14. Horsetooth Reservoir.                    |                 |                                     |           |                      |                 |         |         |
|--|-----------------|-------------------------------------|-----------|----------------------|-----------------|---------|---------|
| COSPCP14                                     | Classifications | Physical and Biological             |           |                      | Metals (ug/L)   |         |         |
| Designation                                  | Agriculture     | DM                                  | MWAT      | acute                | chronic         |         |         |
| Reviewable                                   | Aq Life Cold 1  | Temperature °C                      | varies*   | varies* <sup>B</sup> | Arsenic         | 340     | ---     |
|  | Recreation E    |                                     | acute     | chronic              | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                         | ---       | 6.0                  | Cadmium         | TVS     | TVS     |
|  | DUWS            | D.O. (spawning)                     | ---       | 7.0                  | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>                           |                 | pH                                  | 6.5 - 9.0 | ---                  | Chromium III    | ---     | TVS     |
| <b>Other:</b>                                |                 | chlorophyll a (ug/L)                | ---       | ---                  | Chromium III(T) | 50      | ---     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <u>E.-Coli</u> E. coli (per 100 mL) | ---       | 126                  | Chromium VI     | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details. |                 |                                     |           |                      | Copper          | TVS     | TVS     |
| *Temperature =                               |                 |                                     |           |                      | Iron            | ---     | WS      |
| DM=CLL and MWAT=CLL from 1/1-3/31            |                 |                                     |           |                      | Iron(T)         | ---     | 1000    |
| DM=CLL and MWAT=22.8 from 4/1-12/31          |                 |                                     |           |                      | Lead            | TVS     | TVS     |
|  |                 |                                     |           |                      | Lead(T)         | 50      | ---     |
|  |                 |                                     |           |                      | Manganese       | TVS     | TVS/WS  |
|  |                 |                                     |           |                      | Mercury(T)      | ---     | 0.01    |
|  |                 |                                     |           |                      | Molybdenum(T)   | ---     | 150     |
|  |                 |                                     |           |                      | Nickel          | TVS     | TVS     |
|  |                 |                                     |           |                      | Nickel(T)       | ---     | 100     |
|  |                 |                                     |           |                      | Selenium        | TVS     | TVS     |
|  |                 |                                     |           |                      | Silver          | TVS     | TVS(tr) |
|  |                 |                                     |           |                      | Uranium         | varies* | varies* |
|  |                 |                                     |           |                      | Zinc            | TVS     | TVS     |

| 15. Watson Lake.                             |                 |                                     |           |         |                 |         |         |
|--|-----------------|-------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPCP15                                     | Classifications | Physical and Biological             |           |         | Metals (ug/L)   |         |         |
| Designation                                  | Agriculture     | DM                                  | MWAT      | acute   | chronic         |         |         |
| Reviewable                                   | Aq Life Cold 1  | Temperature °C                      | CL        | CL      | Arsenic         | 340     | ---     |
|  | Recreation E    |                                     | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                         | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |                 | D.O. (spawning)                     | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>                           |                 | pH                                  | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>                                |                 | chlorophyll a (ug/L)                | ---       | ---     | Chromium III(T) | 50      | ---     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <u>E.-Coli</u> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| *Uranium(chronic) = See 38.5(3) for details. |                 |                                     |           |         | Copper          | TVS     | TVS     |
|  |                 |                                     |           |         | Iron            | ---     | WS      |
|  |                 |                                     |           |         | Iron(T)         | ---     | 1000    |
|  |                 |                                     |           |         | Lead            | TVS     | TVS     |
|  |                 |                                     |           |         | Lead(T)         | 50      | ---     |
|  |                 |                                     |           |         | Manganese       | TVS     | TVS/WS  |
|  |                 |                                     |           |         | Mercury(T)      | ---     | 0.01    |
|  |                 |                                     |           |         | Molybdenum(T)   | ---     | 150     |
|  |                 |                                     |           |         | Nickel          | TVS     | TVS     |
|  |                 |                                     |           |         | Nickel(T)       | ---     | 100     |
|  |                 |                                     |           |         | Selenium        | TVS     | TVS     |
|  |                 |                                     |           |         | Silver          | TVS     | TVS(tr) |
|  |                 |                                     |           |         | Uranium         | varies* | varies* |
|  |                 |                                     |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

16. Reservoir #4 (40.719045, -105.033743), Water Supply Reservoir #3 (40.665205, -105.089882), Claymore Lake, College Lake, Dixon Reservoir, Robert Benson Lake, Black Hollow Reservoir, Seeley Lake.

| COSPCP16           | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|--------------------|-----------------|---|-----------|---------|-----------------|---------|---------|
| Designation        | Agriculture     |   | DM        | MWAT    |                 | acute   | chronic |
| UP                 | Aq Life Warm 1  | Temperature °C                          | WL        | WL      | Arsenic         | 340     | ---     |
|                    | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 7.6     |
| <b>Qualifiers:</b> |                 | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Other:</b>      |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | TVS     | TVS     |
|                    |                 | chlorophyll a (ug/L)                    | ---       | 20*     | Chromium III(T) | ---     | 100     |
|                    |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|                    |                 | <b>Inorganic (mg/L)</b>                 |           |         | Copper          | TVS     | TVS     |
|                    |                 |   | acute     | chronic | Iron(T)         | ---     | 1000    |
|                    |                 | Ammonia                                 | TVS       | TVS     | Lead            | TVS     | TVS     |
|                    |                 | Boron                                   | ---       | 0.75    | Manganese       | TVS     | TVS     |
|                    |                 | Chloride                                | ---       | ---     | Mercury(T)      | ---     | 0.01    |
|                    |                 | Chlorine                                | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|                    |                 | Cyanide                                 | 0.005     | ---     | Nickel          | TVS     | TVS     |
|                    |                 | Nitrate                                 | 100       | ---     | Selenium        | TVS     | TVS     |
|                    |                 | Nitrite                                 | ---       | 0.5     | Silver          | TVS     | TVS     |
|                    |                 | Phosphorus                              | ---       | 0.083*  | Uranium         | varies* | varies* |
|                    |                 | Sulfate                                 | ---       | ---     | Zinc            | TVS     | TVS     |
|                    |                 | Sulfide                                 | ---       | 0.002   |                 |         |         |

\*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.  
 \*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

17. All lakes and reservoirs tributary to the Cache La Poudre River within Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas.

| COSPCP17           | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
|--------------------|-----------------|---|-----------|---------|-----------------|---------|---------|
| Designation        | Agriculture     |   | DM        | MWAT    |                 | acute   | chronic |
| OW                 | Aq Life Cold 1  | Temperature °C                          | CL        | CL      | Arsenic         | 340     | ---     |
|                    | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|                    | Water Supply    | D.O. (mg/L)                             | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b> |                 | D.O. (spawning)                         | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>      |                 | pH                                      | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
|                    |                 | chlorophyll a (ug/L)                    | ---       | ---     | Chromium III(T) | 50      | ---     |
|                    |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|                    |                 |   |           |         | Copper          | TVS     | TVS     |
|                    |                 | <b>Inorganic (mg/L)</b>                 |           |         | Iron            | ---     | WS      |
|                    |                 |   | acute     | chronic | Iron(T)         | ---     | 1000    |
|                    |                 | Ammonia                                 | TVS       | TVS     | Lead            | TVS     | TVS     |
|                    |                 | Boron                                   | ---       | 0.75    | Lead(T)         | 50      | ---     |
|                    |                 | Chloride                                | ---       | 250     | Manganese       | TVS     | TVS/WS  |
|                    |                 | Chlorine                                | 0.019     | 0.011   | Mercury(T)      | ---     | 0.01    |
|                    |                 | Cyanide                                 | 0.005     | ---     | Molybdenum(T)   | ---     | 150     |
|                    |                 | Nitrate                                 | 10        | ---     | Nickel          | TVS     | TVS     |
|                    |                 | Nitrite                                 | ---       | 0.05    | Nickel(T)       | ---     | 100     |
|                    |                 | Phosphorus                              | ---       | ---     | Selenium        | TVS     | TVS     |
|                    |                 | Sulfate                                 | ---       | WS      | Silver          | TVS     | TVS(tr) |
|                    |                 | Sulfide                                 | ---       | 0.002   | Uranium         | varies* | varies* |
|                    |                 |   |           |         | Zinc            | TVS     | TVS     |

\*Uranium(acute) = See 38.5(3) for details.  
 \*Uranium(chronic) = See 38.5(3) for details.

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

18. All lakes and reservoirs tributary to the Cache La Poudre River from the boundaries of Rocky Mountain National Park and the Rawah, Neota, Comanche Peak, and Cache La Poudre Wilderness Areas to the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292).

| COSPCP18   | Classifications | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
|--|-----------------|--|-----------|---------|-----------------|---------|---------|
| Designation  | Agriculture     |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable   | Aq Life Cold 1  | Temperature °C                               | varies*   | varies* | Arsenic         | 340     | ---     |
|  | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>   |                 | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>  |                 | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <p>*chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.<br/>                     *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.<br/>                     *Uranium(acute) = See 38.5(3) for details.<br/>                     *Uranium(chronic) = See 38.5(3) for details.<br/>                     *Temperature = See 38.6(4) for temperature standards.</p> |                 | chlorophyll a (ug/L)                         | ---       | 8*      | Chromium III(T) | 50      | ---     |
|  |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|  |                 | <b>Inorganic (mg/L)</b>                      |           |         | Copper          | TVS     | TVS     |
|  |                 |  | acute     | chronic | Iron            | ---     | WS      |
|  |                 | Ammonia                                      | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|  |                 | Boron  | ---       | 0.75    | Lead            | TVS     | TVS     |
|  |                 | Chloride                                     | ---       | 250     | Lead(T)         | 50      | ---     |
|  |                 | Chlorine                                     | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|  |                 | Cyanide                                      | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrate                                      | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|  |                 | Nitrite                                      | ---       | 0.05    | Nickel          | TVS     | TVS     |
|  |                 | Phosphorus                                   | ---       | 0.025*  | Nickel(T)       | ---     | 100     |
|  |                 | Sulfate                                      | ---       | WS      | Selenium        | TVS     | TVS     |
|  |                 | Sulfide                                      | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|  |                 |  |           |         | Uranium         | varies* | varies* |
|  |                 |  | Zinc      | TVS     | TVS             |         |         |

19. All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the source to the inlet of Halligan Reservoir.

| COSPCP19  | Classifications | Physical and Biological                      |           |         | Metals (ug/L)   |         |         |
|---|-----------------|--|-----------|---------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM        | MWAT    |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1  | Temperature °C                               | CL        | CL      | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                                  | ---       | 6.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                              | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |                 | pH   | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <p>*chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.<br/>                     *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.<br/>                     *Uranium(acute) = See 38.5(3) for details.<br/>                     *Uranium(chronic) = See 38.5(3) for details.</p> |                 | chlorophyll a (ug/L)                         | ---       | 8*      | Chromium III(T) | 50      | ---     |
|   |                 | <u>E.-Coli</u> / <u>E. coli</u> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
|   |                 | <b>Inorganic (mg/L)</b>                      |           |         | Copper          | TVS     | TVS     |
|   |                 |  | acute     | chronic | Iron            | ---     | WS      |
|   |                 | Ammonia                                      | TVS       | TVS     | Iron(T)         | ---     | 1000    |
|   |                 | Boron  | ---       | 0.75    | Lead            | TVS     | TVS     |
|   |                 | Chloride                                     | ---       | 250     | Lead(T)         | 50      | ---     |
|   |                 | Chlorine                                     | 0.019     | 0.011   | Manganese       | TVS     | TVS/WS  |
|   |                 | Cyanide                                      | 0.005     | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrate                                      | 10        | ---     | Molybdenum(T)   | ---     | 150     |
|   |                 | Nitrite                                      | ---       | 0.05    | Nickel          | TVS     | TVS     |
|   |                 | Phosphorus                                   | ---       | 0.025*  | Nickel(T)       | ---     | 100     |
|   |                 | Sulfate                                      | ---       | WS      | Selenium        | TVS     | TVS     |
|   |                 | Sulfide                                      | ---       | 0.002   | Silver          | TVS     | TVS(tr) |
|   |                 |  |           |         | Uranium         | varies* | varies* |
|   |                 |  | Zinc      | TVS     | TVS             |         |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

| 20. All lakes and reservoirs tributary to the North Fork of the Cache La Poudre River from the inlet of Halligan Reservoir to the confluence with the Cache La Poudre River. This segment includes Halligan Reservoir and Seaman Reservoir.   |                 |  |              |                |               |                      |
|---|-----------------|--|--------------|----------------|---------------|----------------------|
| COSPCP20  | Classifications | Physical and Biological                      |              |                | Metals (ug/L) |                      |
| Designation   | Agriculture     |  | <b>DM</b>    | <b>MWAT</b>    | <b>acute</b>  | <b>chronic</b>       |
| Reviewable  | Aq Life Cold 2  | Temperature °C                               | varies*      | varies*        | 340           | ---                  |
|   | Recreation E    |  | <b>acute</b> | <b>chronic</b> | ---           | 0.02                 |
|   | Water Supply    | D.O. (mg/L)                                  | ---          | 6.0            | TVS           | TVS                  |
| <b>Qualifiers:</b>  |                 | D.O. (spawning)                              | ---          | 7.0            | 5.0           | ---                  |
| <b>Water + Fish Standards</b>   |                 | pH   | 6.5 - 9.0    | ---            | ---           | TVS                  |
| <b>Other:</b>   |                 | chlorophyll a (ug/L)                         | ---          | 8*             | 50            | ---                  |
|   |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | TVS           | TVS                  |
|   |                 | <b>Inorganic (mg/L)</b>                      |              |                | TVS           | TVS                  |
|   |                 |  | <b>acute</b> | <b>chronic</b> | ---           | WS                   |
|   |                 | Ammonia                                      | TVS          | TVS            | ---           | 1000                 |
|   |                 | Boron  | ---          | 0.75           | TVS           | TVS                  |
|   |                 | Chloride                                     | ---          | 250            | 50            | ---                  |
|   |                 | Chlorine                                     | 0.019        | 0.011          | TVS           | TVS/WS               |
|   |                 | Cyanide                                      | 0.005        | ---            | ---           | 0.01                 |
|   |                 | Nitrate                                      | 10           | ---            | ---           | 150                  |
|   |                 | Nitrite                                      | ---          | 0.05           | TVS           | TVS                  |
|   |                 | Phosphorus                                   | ---          | 0.025*         | ---           | 100                  |
|   |                 | Sulfate                                      | ---          | WS             | TVS           | TVS                  |
|   |                 | Sulfide                                      | ---          | 0.002          | TVS           | TVS(tr)              |
|   |                 |  |              |                | varies*       | varies*              |
|   |                 |  |              |                | TVS           | TVS                  |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.   |                 |  |              |                |               |                      |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.   |                 |  |              |                |               |                      |
| *Uranium(acute) = See 38.5(3) for details.  |                 |  |              |                |               |                      |
| *Uranium(chronic) = See 38.5(3) for details.  |                 |  |              |                |               |                      |
| *Temperature = DM and MWAT=CL,CLL from 1/1-3/31 Seaman Reservoir DM=CLL and MWAT=22.5 from 4/1-12/31 All others DM and MWAT=CL,CLL from 4/1-12/31   |                 |  |              |                |               |                      |
| 21. All lakes and reservoirs tributary to the Cache La Poudre River from the Munroe Gravity Canal Headgate (also known as the North Poudre Supply Canal diversion; 40.691700, -105.255292) to the confluence with the South Platte River, except for listings in segments 14, 15, 16, 19, 20, and 22. |                 |  |              |                |               |                      |
| COSPCP21  | Classifications | Physical and Biological                      |              |                | Metals (ug/L) |                      |
| Designation   | Agriculture     |  | <b>DM</b>    | <b>MWAT</b>    | <b>acute</b>  | <b>chronic</b>       |
| Reviewable  | Aq Life Warm 2  | Temperature °C                               | WL           | WL             | 340           | ---                  |
|   | Recreation E    |  | <b>acute</b> | <b>chronic</b> | ---           | 0.02-10 <sup>A</sup> |
|   | Water Supply    | D.O. (mg/L)                                  | ---          | 5.0            | TVS           | TVS                  |
|   | DUWS*           | pH   | 6.5 - 9.0    | ---            | 5.0           | ---                  |
| <b>Qualifiers:</b>  |                 | chlorophyll a (ug/L)                         | ---          | 20*            | ---           | TVS                  |
| <b>Other:</b>   |                 | <u>E. Coli</u> / <u>E. coli</u> (per 100 mL) | ---          | 126            | 50            | ---                  |
|   |                 | <b>Inorganic (mg/L)</b>                      |              |                | TVS           | TVS                  |
|   |                 |  | <b>acute</b> | <b>chronic</b> | TVS           | TVS                  |
|   |                 | Ammonia                                      | TVS          | TVS            | ---           | WS                   |
|   |                 | Boron  | ---          | 0.75           | ---           | 1000                 |
|   |                 | Chloride                                     | ---          | 250            | TVS           | TVS                  |
|   |                 | Chlorine                                     | 0.019        | 0.011          | 50            | ---                  |
|   |                 | Cyanide                                      | 0.005        | ---            | TVS           | TVS/WS               |
|   |                 | Nitrate                                      | 10           | ---            | ---           | 0.01                 |
|   |                 | Nitrite                                      | ---          | 0.5            | ---           | 150                  |
|   |                 | Phosphorus                                   | ---          | 0.083*         | TVS           | TVS                  |
|   |                 | Sulfate                                      | ---          | WS             | ---           | 100                  |
|   |                 | Sulfide                                      | ---          | 0.002          | TVS           | TVS                  |
|   |                 |  |              |                | varies*       | varies*              |
|   |                 |  |              |                | TVS           | TVS                  |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Cache La Poudre River Basin

| 22. Fossil Creek Reservoir.     |   |   |                         |         |                 |         |         |
|---------------------------------|---|---|-------------------------|---------|-----------------|---------|---------|
| COSPCP22                        | Classifications                               | Physical and Biological                 |                         |         | Metals (ug/L)   |         |         |
| Designation                     |   | DM                                      | MWAT                    |         | acute           | chronic |         |
| UP                              | Agriculture<br>Aq Life Warm 2<br>Recreation E | Temperature °C                          | WL                      | WL      | Arsenic         | 340     | ---     |
|                                 |   |   | acute                   | chronic | Arsenic(T)      | ---     | 7.6     |
| <b>Qualifiers:</b>              |   | D.O. (mg/L)                             | ---                     | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Fish Ingestion Standards</b> |   | pH                                      | 6.5 - 9.0               | ---     | Chromium III    | TVS     | TVS     |
| <b>Other:</b>                   |   | chlorophyll a (ug/L)                    | ---                     | ---     | Chromium III(T) | ---     | 100     |
|                                 |   | <del>E. Coli</del> E. coli (per 100 mL) | ---                     | 126     | Chromium VI     | TVS     | TVS     |
|                                 |   |   | <b>Inorganic (mg/L)</b> |         | Copper          | TVS     | TVS     |
|                                 |   |   | acute                   | chronic | Iron(T)         | ---     | 1000    |
|                                 |   | Ammonia                                 | TVS                     | TVS     | Lead            | TVS     | TVS     |
|                                 |   | Boron                                   | ---                     | 0.75    | Manganese       | TVS     | TVS     |
|                                 |   | Chloride                                | ---                     | ---     | Mercury(T)      | ---     | 0.01    |
|                                 |   | Chlorine                                | 0.019                   | 0.011   | Molybdenum(T)   | ---     | 150     |
|                                 |   | Cyanide                                 | 0.005                   | ---     | Nickel          | TVS     | TVS     |
|                                 |   | Nitrate                                 | 100                     | ---     | Selenium        | TVS     | TVS     |
|                                 |   | Nitrite                                 | ---                     | 0.5     | Silver          | TVS     | TVS     |
|                                 |   | Phosphorus                              | ---                     | ---     | Uranium         | varies* | varies* |
|                                 |   | Sulfate                                 | ---                     | ---     | Zinc            | TVS     | TVS     |
|                                 |   | Sulfide                                 | ---                     | 0.002   |                 |         |         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

1. All tributaries to the Laramie River, including all wetlands, which are within the Rawah Wilderness Area.

| COSPLA01  | Classifications | Physical and Biological                    |           |          | Metals (ug/L)   |         |         |
|---|-----------------|--|-----------|----------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM        | MWAT     |                 | acute   | chronic |
| OW  | Aq Life Cold 1  | Temperature °C                             | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                                | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                            | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|   |                 | pH   | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---       | ---      | Chromium III(T) | 50      | ---     |
|   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|   |                 |  |           |          | Copper          | TVS     | TVS     |
|   |                 |  |           |          | Iron            | ---     | WS      |
|   |                 |  |           |          | Iron(T)         | ---     | 1000    |
|   |                 |  |           |          | Lead            | TVS     | TVS     |
|   |                 |  |           |          | Lead(T)         | 50      | ---     |
|   |                 |  |           |          | Manganese       | TVS     | TVS/WS  |
|   |                 |  |           |          | Mercury(T)      | ---     | 0.01    |
|   |                 |  |           |          | Molybdenum(T)   | ---     | 150     |
|   |                 |  |           |          | Nickel          | TVS     | TVS     |
|   |                 |  |           |          | Nickel(T)       | ---     | 100     |
|   |                 |  |           | Selenium | TVS             | TVS     |         |
|   |                 |  |           | Silver   | TVS             | TVS(tr) |         |
|   |                 |  |           | Uranium  | varies*         | varies* |         |
|   |                 |  |           | Zinc     | TVS             | TVS     |         |

2a. Mainstem of the Laramie River from the source to the National Forest boundary, and all tributaries and wetlands from the source to the Colorado/Wyoming border, except for listings in Segment 1.

| COSPLA02A   | Classifications | Physical and Biological                    |           |          | Metals (ug/L)   |         |         |
|---|-----------------|--|-----------|----------|-----------------|---------|---------|
| Designation   | Agriculture     |  | DM        | MWAT     |                 | acute   | chronic |
| Reviewable  | Aq Life Cold 1  | Temperature °C                             | CS-I      | CS-I     | Arsenic         | 340     | ---     |
|   | Recreation E    |  | acute     | chronic  | Arsenic(T)      | ---     | 0.02    |
| <b>Qualifiers:</b><br><br><b>Other:</b><br>Temporary Modification(s):<br>Arsenic(chronic) = hybrid<br>Expiration Date of 12/31/2024<br><br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. | Water Supply    | D.O. (mg/L)                                | ---       | 6.0      | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                            | ---       | 7.0      | Cadmium(T)      | 5.0     | ---     |
|   |                 | pH   | 6.5 - 9.0 | ---      | Chromium III    | ---     | TVS     |
|   |                 | chlorophyll a (mg/m <sup>2</sup> )         | ---       | 150      | Chromium III(T) | 50      | ---     |
|   |                 | <u>E. Coli</u> <u>E. coli</u> (per 100 mL) | ---       | 126      | Chromium VI     | TVS     | TVS     |
|   |                 |  |           |          | Copper          | TVS     | TVS     |
|   |                 |  |           |          | Iron            | ---     | WS      |
|   |                 |  |           |          | Iron(T)         | ---     | 1000    |
|   |                 |  |           |          | Lead            | TVS     | TVS     |
|   |                 |  |           |          | Lead(T)         | 50      | ---     |
|   |                 |  |           |          | Manganese       | TVS     | TVS/WS  |
|   |                 |  |           |          | Mercury(T)      | ---     | 0.01    |
|   |                 |  |           |          | Molybdenum(T)   | ---     | 150     |
|   |                 |  |           |          | Nickel          | TVS     | TVS     |
|   |                 |  |           |          | Nickel(T)       | ---     | 100     |
|   |                 |  |           | Selenium | TVS             | TVS     |         |
|   |                 |  |           | Silver   | TVS             | TVS(tr) |         |
|   |                 |  |           | Uranium  | varies*         | varies* |         |
|   |                 |  |           | Zinc     | TVS             | TVS     |         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

| 2b. Mainstem of the Laramie River from the National Forest boundary to the Colorado/Wyoming border. |                 |                                    |           |         |                 |         |         |
|---|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPLA02B   | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture     | DM                                 | MWAT      | acute   | chronic         |         |         |
| Reviewable  | Aq Life Cold 1  | Temperature °C                     | CS-II     | CS-II   | Arsenic         | 340     | ---     |
|   | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply  |                 | D.O. (mg/L)                        | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|   |                 | D.O. (spawning)                    | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>  |                 | pH                                 | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> ) | ---       | ---     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):  |                 | <b>E.-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid   |                 |                                    |           |         | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024   |                 |                                    |           |         | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.  |                 | <b>Inorganic (mg/L)</b>            |           |         | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details.  |                 |                                    | acute     | chronic | Lead            | TVS     | TVS     |
|   |                 | Ammonia                            | TVS       | TVS     | Lead(T)         | 50      | ---     |
|   |                 | Boron                              | ---       | 0.75    | Manganese       | TVS     | TVS/WS  |
|   |                 | Chloride                           | ---       | 250     | Mercury(T)      | ---     | 0.01    |
|   |                 | Chlorine                           | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|   |                 | Cyanide                            | 0.005     | ---     | Nickel          | TVS     | TVS     |
|   |                 | Nitrate                            | 10        | ---     | Nickel(T)       | ---     | 100     |
|   |                 | Nitrite                            | ---       | 0.05    | Selenium        | TVS     | TVS     |
|   |                 | Phosphorus                         | ---       | ---     | Silver          | TVS     | TVS(tr) |
|   |                 | Sulfate                            | ---       | WS      | Uranium         | varies* | varies* |
|   |                 | Sulfide                            | ---       | 0.002   | Zinc            | TVS     | TVS     |

| 3. All lakes and reservoirs tributary to the Laramie River within the Rawah Wilderness Area.             |                 |                                    |           |         |                 |         |         |
|--|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPLA03   | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                 | MWAT      | acute   | chronic         |         |         |
| OW   | Aq Life Cold 1  | Temperature °C                     | CL        | CL      | Arsenic         | 340     | ---     |
|  | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
| Water Supply   |                 | D.O. (mg/L)                        | ---       | 6.0     | Cadmium         | TVS     | TVS     |
|  |                 | D.O. (spawning)                    | ---       | 7.0     | Cadmium(T)      | 5.0     | ---     |
| <b>Qualifiers:</b>   |                 | pH                                 | 6.5 - 9.0 | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  |                 | chlorophyll a (ug/L)               | ---       | 8*      | Chromium III(T) | 50      | ---     |
| *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area. |                 | <b>E.-ColiE. coli</b> (per 100 mL) | ---       | 126     | Chromium VI     | TVS     | TVS     |
| *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.           |                 |                                    |           |         | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 |                                    |           |         | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | <b>Inorganic (mg/L)</b>            |           |         | Iron(T)         | ---     | 1000    |
|  |                 |                                    | acute     | chronic | Lead            | TVS     | TVS     |
|  |                 | Ammonia                            | TVS       | TVS     | Lead(T)         | 50      | ---     |
|  |                 | Boron                              | ---       | 0.75    | Manganese       | TVS     | TVS/WS  |
|  |                 | Chloride                           | ---       | 250     | Mercury(T)      | ---     | 0.01    |
|  |                 | Chlorine                           | 0.019     | 0.011   | Molybdenum(T)   | ---     | 150     |
|  |                 | Cyanide                            | 0.005     | ---     | Nickel          | TVS     | TVS     |
|  |                 | Nitrate                            | 10        | ---     | Nickel(T)       | ---     | 100     |
|  |                 | Nitrite                            | ---       | 0.05    | Selenium        | TVS     | TVS     |
|  |                 | Phosphorus                         | ---       | 0.025*  | Silver          | TVS     | TVS(tr) |
|  |                 | Sulfate                            | ---       | WS      | Uranium         | varies* | varies* |
|  |                 | Sulfide                            | ---       | 0.002   | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Laramie River Basin

| 4. All lakes and reservoirs tributary to the Laramie River from the source to the Colorado/Wyoming border, except for listings in Segment 3. |                 |                              |           |         |                 |         |
|--|-----------------|------------------------------|-----------|---------|-----------------|---------|
| COSPLA04   | Classifications | Physical and Biological      |           |         | Metals (ug/L)   |         |
| Designation  |                 |                              | DM        | MWAT    |                 |         |
| Reviewable   | Agriculture     |                              | CL        | CL      | Arsenic         | acute   |
|  | Aq Life Cold 1  | Temperature °C               | CL        | CL      | Arsenic(T)      | 340     |
|  | Recreation E    |                              | acute     | chronic | Cadmium         | TVS     |
|  | Water Supply    | D.O. (mg/L)                  | ---       | 6.0     | Cadmium(T)      | TVS     |
| Qualifiers:  |                 | D.O. (spawning)              | ---       | 7.0     | Chromium III    | 5.0     |
| Other:   |                 | pH                           | 6.5 - 9.0 | ---     | Chromium III(T) | ---     |
| *chlorophyll a (ug/L)(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.                                     |                 | chlorophyll a (ug/L)         | ---       | 8*      | Chromium VI     | 50      |
| *Phosphorus(chronic) = applies only to lakes and reservoirs larger than 25 acres surface area.   |                 | E. Coli/E. coli (per 100 mL) | ---       | 126     | Copper          | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Inorganic (mg/L)             |           |         | Iron            | TVS     |
| *Uranium(chronic) = See 38.5(3) for details.   |                 |                              | acute     | chronic | Iron(T)         | ---     |
|  |                 | Ammonia                      | TVS       | TVS     | Lead            | 1000    |
|  |                 | Boron                        | ---       | 0.75    | Lead(T)         | TVS     |
|  |                 | Chloride                     | ---       | 250     | Manganese       | 50      |
|  |                 | Chlorine                     | 0.019     | 0.011   | Manganese       | TVS     |
|  |                 | Cyanide                      | 0.005     | ---     | Mercury(T)      | TVS/WS  |
|  |                 | Nitrate                      | 10        | ---     | Mercury(T)      | ---     |
|  |                 | Nitrite                      | ---       | 0.05    | Molybdenum(T)   | 0.01    |
|  |                 | Phosphorus                   | ---       | 0.025*  | Nickel          | TVS     |
|  |                 | Sulfate                      | ---       | WS      | Nickel(T)       | TVS     |
|  |                 | Sulfide                      | ---       | 0.002   | Selenium        | TVS     |
|  |                 |                              |           |         | Silver          | TVS     |
|  |                 |                              |           |         | Uranium         | varies* |
|  |                 |                              |           |         | Zinc            | varies* |
|  |                 |                              |           |         |                 | TVS     |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower South Platte River Basin

| 1a. Mainstem of the South Platte River from the Weld/Morgan County line to the Morgan/Washington County line. |                 |   |           |         |                 |         |         |
|---|-----------------|---|-----------|---------|-----------------|---------|---------|
| COSPLS01A   | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |         |
| Reviewable  | Aq Life Warm 1  | Temperature °C                          | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|   | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>  |                 | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | ---     | Chromium III    | ---     | TVS     |
| Temporary Modification(s):  |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Arsenic(chronic) = hybrid   |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS     | TVS     |
| Expiration Date of 12/31/2024   |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|   |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
|   |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|   |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|   |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|   |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|   |                 | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS     |
|   |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|   |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|   |                 |   |           |         | Silver          | TVS     | TVS     |
|   |                 |   |           |         | Uranium         | varies* | varies* |
|   |                 |   |           |         | Zinc            | TVS     | TVS     |

  

| 1b. Mainstem of the South Platte River from the Morgan/Washington County line to the Colorado/Nebraska border. |                 |   |           |         |                 |         |         |
|--|-----------------|---|-----------|---------|-----------------|---------|---------|
| COSPLS01B  | Classifications | Physical and Biological                 |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                      | MWAT      | acute   | chronic         |         |         |
| Reviewable   | Aq Life Warm 2  | Temperature °C                          | WS-II     | WS-II   | Arsenic         | 340     | ---     |
|  | Recreation E    |   | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                             | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>   |                 | pH                                      | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Water + Fish Standards</b>  |                 | chlorophyll a (mg/m <sup>2</sup> )      | ---       | ---     | Chromium III    | ---     | TVS     |
| <b>Other:</b>  |                 | <del>E. Coli</del> E. coli (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| Temporary Modification(s):   |                 | <b>Inorganic (mg/L)</b>                 |           |         | Chromium VI     | TVS     | TVS     |
| Arsenic(chronic) = hybrid  |                 |   | acute     | chronic | Copper          | TVS     | TVS     |
| Expiration Date of 12/31/2024  |                 | Ammonia                                 | TVS       | TVS     | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.   |                 | Boron                                   | ---       | 0.75    | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | Chloride                                | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                                | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                                 | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                                 | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                                 | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                              | ---       | ---     | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                                 | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                                 | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |   |           |         | Silver          | TVS     | TVS     |
|  |                 |   |           |         | Uranium         | varies* | varies* |
|  |                 |   |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower South Platte River Basin

| 2. All tributaries to the South Platte River, including all wetlands, from the Weld/Morgan County line to the Colorado/Nebraska border. |                 |                         |         |       |               |              |
|---|-----------------|-------------------------|---------|-------|---------------|--------------|
| COSPLS02  | Classifications | Physical and Biological |         |       | Metals (ug/L) |              |
| Designation   | Agriculture     | DM                      | MWAT    | acute | chronic       |              |
| UP  | Aq Life Warm 1  | WS-II                   | WS-II   | 340   | ---           | Arsenic      |
|   | Recreation E    | acute                   | chronic | ---   | 0.02          | Arsenic(T)   |
|   | Water Supply    |                         |         | ---   | 4.0           | Beryllium(T) |
| Qualifiers:   |                 | ---                     | 5.0     |       |               | TVS          |
| Other:  |                 | 6.5 - 9.0               | ---     |       |               | TVS          |
| Temporary Modification(s):  |                 | ---                     | 150*    |       |               | 5.0          |
| Arsenic(chronic) = hybrid   |                 | ---                     | 126     |       |               | ---          |
| Expiration Date of 12/31/2024   |                 | Inorganic (mg/L)        |         |       |               | 50           |
|   |                 | acute                   | chronic |       |               | ---          |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).                                     |                 | TVS                     | TVS     |       |               | TVS          |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).   |                 | ---                     | 0.75    |       |               | ---          |
| *Uranium(acute) = See 38.5(3) for details.  |                 | ---                     | 250     |       |               | 1000         |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | 0.019                   | 0.011   |       |               | TVS          |
|   |                 | 0.005                   | ---     |       |               | 50           |
|   |                 | 10                      | ---     |       |               | TVS          |
|   |                 | ---                     | 0.5     |       |               | ---          |
|   |                 | ---                     | 0.17*   |       |               | 150          |
|   |                 | ---                     | WS      |       |               | TVS          |
|   |                 | ---                     | 0.002   |       |               | 100          |
|   |                 |                         |         |       |               | TVS          |
|   |                 |                         |         |       |               | TVS          |
|   |                 |                         |         |       |               | TVS          |
|   |                 |                         |         |       |               | varies*      |
|   |                 |                         |         |       |               | varies*      |
|   |                 |                         |         |       |               | TVS          |
|   |                 |                         |         |       |               | TVS          |

  

| 3. Jackson Reservoir, Prewitt Reservoir, North Sterling Reservoir, Jumbo (Julesburg), Empire Reservoir, Vancil Reservoir.                                     |                 |                         |         |       |               |            |
|---|-----------------|-------------------------|---------|-------|---------------|------------|
| COSPLS03  | Classifications | Physical and Biological |         |       | Metals (ug/L) |            |
| Designation   | Agriculture     | DM                      | MWAT    | acute | chronic       |            |
| UP  | Aq Life Warm 1  | varies*                 | varies* | 340   | ---           | Arsenic    |
|   | Recreation E    | acute                   | chronic | ---   | 0.02          | Arsenic(T) |
|   | Water Supply    |                         |         | ---   | TVS           | Cadmium    |
| Qualifiers:   |                 | ---                     | 5.0     |       |               | TVS        |
| Other:  |                 | 6.5 - 9.0               | ---     |       |               | 5.0        |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area. |                 | ---                     | 20*     |       |               | ---        |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.           |                 | ---                     | 126     |       |               | TVS        |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Inorganic (mg/L)        |         |       |               | 50         |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | acute                   | chronic |       |               | ---        |
| *Temperature = See 38.6(4) for temperature standards.   |                 | TVS                     | TVS     |       |               | TVS        |
|   |                 | ---                     | 0.75    |       |               | ---        |
|   |                 | ---                     | 250     |       |               | 1000       |
|   |                 | 0.019                   | 0.011   |       |               | TVS        |
|   |                 | 0.005                   | ---     |       |               | 50         |
|   |                 | 10                      | ---     |       |               | TVS        |
|   |                 | ---                     | 0.5     |       |               | ---        |
|   |                 | ---                     | 0.083*  |       |               | 150        |
|   |                 | ---                     | WS      |       |               | TVS        |
|   |                 | ---                     | 0.002   |       |               | 100        |
|   |                 |                         |         |       |               | TVS        |
|   |                 |                         |         |       |               | TVS        |
|   |                 |                         |         |       |               | TVS        |
|   |                 |                         |         |       |               | varies*    |
|   |                 |                         |         |       |               | varies*    |
|   |                 |                         |         |       |               | TVS        |
|   |                 |                         |         |       |               | TVS        |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Lower South Platte River Basin

4. All lakes and reservoirs tributary to the South Platte River from the Weld/Morgan County line to the Colorado/Nebraska border, except for listings in Segment 3.

| COSPLS04   | Classifications                                | Physical and Biological                 |           |              | Metals (ug/L)   |         |         |  |
|--|--|---|-----------|--------------|-----------------|---------|---------|--|
| Designation  | Agriculture                                    | DM                                      | MWAT      | acute        | chronic         |         |         |  |
| Reviewable   | Aq Life Warm 2<br>Recreation E<br>Water Supply | WL                                      | WL        | Arsenic      | 340             | ---     |         |  |
| Qualifiers:  |  | acute                                   | chronic   | Arsenic(T)   | ---             | 0.02    |         |  |
| Water + Fish Standards   |  | D.O. (mg/L)                             | 5.0       | Beryllium(T) | ---             | 4.0     |         |  |
| Other:   |  | pH                                      | 6.5 - 9.0 | Cadmium      | TVS             | TVS     |         |  |
| *chlorophyll a (ug/L)(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Phosphorus(chronic) = applies only above the facilities listed at 38.5(4), applies only to lakes and reservoirs larger than 25 acres surface area.<br>*Uranium(acute) = See 38.5(3) for details.<br>*Uranium(chronic) = See 38.5(3) for details. |  | chlorophyll a (ug/L)                    | 20*       | Cadmium(T)   | 5.0             | ---     |         |  |
|  |  | <del>E. Coli</del> E. coli (per 100 mL) | 126       | Chromium III | ---             | TVS     |         |  |
|  |  | Inorganic (mg/L)                        |           |              | Chromium III(T) | 50      | ---     |  |
|  |  | acute                                   | chronic   | Chromium VI  | TVS             | TVS     |         |  |
|  |  | Ammonia                                 | TVS       | TVS          | Copper          | TVS     | TVS     |  |
|  |  | Boron                                   | ---       | 0.75         | Iron            | ---     | WS      |  |
|  |  | Chloride                                | ---       | 250          | Iron(T)         | ---     | 1000    |  |
|  |  | Chlorine                                | 0.019     | 0.011        | Lead            | TVS     | TVS     |  |
|  |  | Cyanide                                 | 0.005     | ---          | Lead(T)         | 50      | ---     |  |
|  |  | Nitrate                                 | 10        | ---          | Manganese       | TVS     | TVS/WS  |  |
|  |  | Nitrite                                 | ---       | 0.5          | Mercury(T)      | ---     | 0.01    |  |
|  |  | Phosphorus                              | ---       | 0.083*       | Molybdenum(T)   | ---     | 150     |  |
|  |  | Sulfate                                 | ---       | WS           | Nickel          | TVS     | TVS     |  |
|  |  | Sulfide                                 | ---       | 0.002        | Nickel(T)       | ---     | 100     |  |
|  |  |   |           |              | Selenium        | TVS     | TVS     |  |
|  |  |   |           |              | Silver          | TVS     | TVS     |  |
|  |  |   |           |              | Uranium         | varies* | varies* |  |
|  |  |   |           |              | Zinc            | TVS     | TVS     |  |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

| 1. Mainstem of the South Fork of the Republican River from a point 23 miles above the Colorado/Kansas border (39.582154, -102.350838) to the Colorado/Kansas border. |   |                                    |              |                |                         |              |                |
|--|---|------------------------------------|--------------|----------------|-------------------------|--------------|----------------|
| COSPREE01  | Classifications   | Physical and Biological            |              |                | Metals (ug/L)           |              |                |
| Designation  | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply |                                    | DM           | MWAT           |                         | acute        | chronic        |
| Reviewable   |   | Temperature °C                     | WS-I         | WS-I           | Arsenic                 | 340          | ---            |
|  |   |                                    | <b>acute</b> | <b>chronic</b> | Arsenic(T)              | ---          | 0.02           |
|  |   | D.O. (mg/L)                        | ---          | 5.0            | Cadmium                 | TVS          | TVS            |
| <b>Qualifiers:</b>   |   | pH                                 | 6.5 - 9.0    | ---            | Cadmium(T)              | 5.0          | ---            |
| <b>Other:</b>  |   | chlorophyll a (mg/m <sup>2</sup> ) | ---          | ---            | Chromium III            | ---          | TVS            |
| Temporary Modification(s):   |   | E. Coli (per 100 mL)               | ---          | 126            | Chromium III(T)         | 50           | ---            |
| Arsenic(chronic) = hybrid  |   |                                    |              |                | Chromium VI             | TVS          | TVS            |
| Expiration Date of 12/31/2024  |   |                                    |              |                | Copper                  | TVS          | TVS            |
| *Uranium(acute) = See 38.5(3) for details.   |   |                                    |              |                | <b>Inorganic (mg/L)</b> |              |                |
| *Uranium(chronic) = See 38.5(3) for details.   |   |                                    |              |                |                         | <b>acute</b> | <b>chronic</b> |
|  |   | Ammonia                            | TVS          | TVS            | Iron                    | ---          | WS             |
|  |   | Boron                              | ---          | 0.75           | Iron(T)                 | ---          | 1000           |
|  |   | Chloride                           | ---          | 250            | Lead                    | TVS          | TVS            |
|  |   | Chlorine                           | 0.019        | 0.011          | Lead(T)                 | 50           | ---            |
|  |   | Cyanide                            | 0.005        | ---            | Manganese               | TVS          | TVS/WS         |
|  |   | Nitrate                            | 10           | ---            | Mercury(T)              | ---          | 0.01           |
|  |   | Nitrite                            | ---          | 0.5            | Molybdenum(T)           | ---          | 150            |
|  |   | Phosphorus                         | ---          | ---            | Nickel                  | TVS          | TVS            |
|  |   | Sulfate                            | ---          | WS             | Nickel(T)               | ---          | 100            |
|  |   | Sulfide                            | ---          | 0.002          | Selenium                | TVS          | TVS            |
|  |   |                                    |              |                | Silver                  | TVS          | TVS            |
|  |   |                                    |              |                | Uranium                 | varies*      | varies*        |
|  |   |                                    |              |                | Zinc                    | TVS          | TVS            |

2. Deleted.

| COSPREE02          | Classifications | Physical and Biological |              |                | Metals (ug/L)           |       |         |
|--------------------|-----------------|-------------------------|--------------|----------------|-------------------------|-------|---------|
| Designation        |                 |                         | DM           | MWAT           |                         | acute | chronic |
|                    |                 |                         | <b>acute</b> | <b>chronic</b> |                         |       |         |
| <b>Qualifiers:</b> |                 |                         |              |                |                         |       |         |
| <b>Other:</b>      |                 |                         |              |                |                         |       |         |
|                    |                 |                         |              |                | <b>Inorganic (mg/L)</b> |       |         |
|                    |                 |                         | <b>acute</b> | <b>chronic</b> |                         |       |         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.



# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

| 3. Mainstem of the North Fork of the Republican River from the source to the Colorado/Nebraska border. Mainstem of Chief Creek from the source to the confluence with the North Fork of the Republican River. |   |                                     |              |                |                 |                 |
|---|---|-------------------------------------|--------------|----------------|-----------------|-----------------|
| COSPRE03  | Classifications   | Physical and Biological             |              |                | Metals (ug/L)   |                 |
| Designation   | Agriculture<br>Aq Life Cold 1<br>Recreation E<br>Water Supply | DM                                  | MWAT         | acute          | chronic         |                 |
| Reviewable  |   | acute                               | chronic      |                |                 |                 |
|   |   | Temperature °C                      | CS-II        | CS-II          | Arsenic         | 340 ---         |
|   |   | D.O. (mg/L)                         | ---          | 6.0            | Arsenic(T)      | --- 0.02        |
| <b>Qualifiers:</b>  |   | D.O. (spawning)                     | ---          | 7.0            | Cadmium         | TVS TVS         |
| <b>Other:</b>   |   | pH                                  | 6.5 - 9.0    | ---            | Cadmium(T)      | 5.0 ---         |
| Temporary Modification(s):  |   | chlorophyll a (mg/m <sup>2</sup> )  | ---          | 150*           | Chromium III    | --- TVS         |
| Arsenic(chronic) = hybrid   |   | <u>E.-Coli</u> E. coli (per 100 mL) | ---          | 126            | Chromium III(T) | 50 ---          |
| Expiration Date of 12/31/2024   |   | <b>Inorganic (mg/L)</b>             |              |                | Chromium VI     | TVS TVS         |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).   |   |                                     | <b>acute</b> | <b>chronic</b> | Copper          | TVS TVS         |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).   |   | Ammonia                             | TVS          | TVS            | Iron            | --- WS          |
| *Uranium(acute) = See 38.5(3) for details.  |   | Boron                               | ---          | 0.75           | Iron(T)         | --- 1000        |
| *Uranium(chronic) = See 38.5(3) for details.  |   | Chloride                            | ---          | 250            | Lead            | TVS TVS         |
|   |   | Chlorine                            | 0.019        | 0.011          | Lead(T)         | 50 ---          |
|   |   | Cyanide                             | 0.005        | ---            | Manganese       | TVS TVS/WS      |
|   |   | Nitrate                             | 10           | ---            | Mercury(T)      | --- 0.01        |
|   |   | Nitrite                             | ---          | 0.05           | Molybdenum(T)   | --- 150         |
|   |   | Phosphorus                          | ---          | 0.11*          | Nickel          | TVS TVS         |
|   |   | Sulfate                             | ---          | WS             | Nickel(T)       | --- 100         |
|   |   | Sulfide                             | ---          | 0.002          | Selenium        | TVS TVS         |
|   |   |                                     |              |                | Silver          | TVS TVS(tr)     |
|   |   |                                     |              |                | Uranium         | varies* varies* |
|   |   |                                     |              |                | Zinc            | TVS TVS         |

  

| 4. Mainstem of the Arikaree River from the confluence of the North and South Forks to the Colorado/Kansas border. |   |                                     |              |                |                 |                 |
|---|---|-------------------------------------|--------------|----------------|-----------------|-----------------|
| COSPRE04  | Classifications   | Physical and Biological             |              |                | Metals (ug/L)   |                 |
| Designation   | Agriculture<br>Aq Life Warm 1<br>Water Supply<br>Recreation E | DM                                  | MWAT         | acute          | chronic         |                 |
| Reviewable  |   | acute                               | chronic      |                |                 |                 |
|   |   | Temperature °C                      | WS-I         | WS-I           | Arsenic         | 340 ---         |
|   |   | D.O. (mg/L)                         | ---          | 5.0            | Arsenic(T)      | --- 0.02        |
| <b>Qualifiers:</b>  |   | pH                                  | 6.5 - 9.0    | ---            | Cadmium         | TVS TVS         |
| <b>Other:</b>   |   | chlorophyll a (mg/m <sup>2</sup> )  | ---          | 150            | Cadmium(T)      | 5.0 ---         |
| Temporary Modification(s):  |   | <u>E.-Coli</u> E. coli (per 100 mL) | ---          | 126            | Chromium III    | --- TVS         |
| Arsenic(chronic) = hybrid   |   | <b>Inorganic (mg/L)</b>             |              |                | Chromium III(T) | 50 ---          |
| Expiration Date of 12/31/2024   |   |                                     | <b>acute</b> | <b>chronic</b> | Chromium VI     | TVS TVS         |
| *Uranium(acute) = See 38.5(3) for details.  |   | Ammonia                             | TVS          | TVS            | Copper          | TVS TVS         |
| *Uranium(chronic) = See 38.5(3) for details.  |   | Boron                               | ---          | 0.75           | Iron            | --- WS          |
|   |   | Chloride                            | ---          | 250            | Iron(T)         | --- 1000        |
|   |   | Chlorine                            | 0.019        | 0.011          | Lead            | TVS TVS         |
|   |   | Cyanide                             | 0.005        | ---            | Lead(T)         | 50 ---          |
|   |   | Nitrate                             | 10           | ---            | Manganese       | TVS TVS/WS      |
|   |   | Nitrite                             | ---          | 0.5            | Mercury(T)      | --- 0.01        |
|   |   | Phosphorus                          | ---          | 0.17           | Molybdenum(T)   | --- 150         |
|   |   | Sulfate                             | ---          | WS             | Nickel          | TVS TVS         |
|   |   | Sulfide                             | ---          | 0.002          | Nickel(T)       | --- 100         |
|   |   |                                     |              |                | Selenium        | TVS TVS         |
|   |   |                                     |              |                | Silver          | TVS TVS         |
|   |   |                                     |              |                | Uranium         | varies* varies* |
|   |   |                                     |              |                | Zinc            | TVS TVS         |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS

## Republican River Basin

| 5. Mainstem of Black Wolf Creek from the source to the confluence with the Arikaree River. |                 |                                    |           |         |                 |         |         |
|--|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPRE05   | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation  | Agriculture     | DM                                 | MWAT      |         | acute           | chronic |         |
| Reviewable   | Aq Life Warm 1  | Temperature °C                     | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|  | Recreation E    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|  | Water Supply    | D.O. (mg/L)                        | ---       | 5.0     | Cadmium         | TVS     | TVS     |
| <b>Qualifiers:</b>   |                 | pH                                 | 6.5 - 9.0 | ---     | Cadmium(T)      | 5.0     | ---     |
| <b>Other:</b>  |                 | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150     | Chromium III    | ---     | TVS     |
| *Uranium(acute) = See 38.5(3) for details.   |                 | <u>E.-ColiE. coli</u> (per 100 mL) | ---       | 126     | Chromium III(T) | 50      | ---     |
| *Uranium(chronic) = See 38.5(3) for details.   |                 | <b>Inorganic (mg/L)</b>            |           |         | Chromium VI     | TVS     | TVS     |
|  |                 |                                    | acute     | chronic | Copper          | TVS     | TVS     |
|  |                 | Ammonia                            | TVS       | TVS     | Iron            | ---     | WS      |
|  |                 | Boron                              | ---       | 0.75    | Iron(T)         | ---     | 1000    |
|  |                 | Chloride                           | ---       | 250     | Lead            | TVS     | TVS     |
|  |                 | Chlorine                           | 0.019     | 0.011   | Lead(T)         | 50      | ---     |
|  |                 | Cyanide                            | 0.005     | ---     | Manganese       | TVS     | TVS/WS  |
|  |                 | Nitrate                            | 10        | ---     | Mercury(T)      | ---     | 0.01    |
|  |                 | Nitrite                            | ---       | 0.5     | Molybdenum(T)   | ---     | 150     |
|  |                 | Phosphorus                         | ---       | 0.17    | Nickel          | TVS     | TVS     |
|  |                 | Sulfate                            | ---       | WS      | Nickel(T)       | ---     | 100     |
|  |                 | Sulfide                            | ---       | 0.002   | Selenium        | TVS     | TVS     |
|  |                 |                                    |           |         | Silver          | TVS     | TVS     |
|  |                 |                                    |           |         | Uranium         | varies* | varies* |
|  |                 |                                    |           |         | Zinc            | TVS     | TVS     |

  

| 6. All tributaries to the Republican River system in Colorado, including all wetlands, except for listings in segments 1, 3, 4 and 5. |                 |                                    |           |         |                 |         |         |
|---|-----------------|------------------------------------|-----------|---------|-----------------|---------|---------|
| COSPRE06  | Classifications | Physical and Biological            |           |         | Metals (ug/L)   |         |         |
| Designation   | Agriculture     | DM                                 | MWAT      |         | acute           | chronic |         |
| UP  | Aq Life Warm 1  | Temperature °C                     | WS-I      | WS-I    | Arsenic         | 340     | ---     |
|   | Water Supply    |                                    | acute     | chronic | Arsenic(T)      | ---     | 0.02    |
|   | Recreation P    | D.O. (mg/L)                        | ---       | 5.0     | Beryllium(T)    | ---     | 100     |
| <b>Qualifiers:</b>  |                 | pH                                 | 6.5 - 9.0 | ---     | Cadmium         | TVS     | TVS     |
| <b>Other:</b>   |                 | chlorophyll a (mg/m <sup>2</sup> ) | ---       | 150*    | Cadmium(T)      | 5.0     | ---     |
| Temporary Modification(s):  |                 | <u>E.-ColiE. coli</u> (per 100 mL) | ---       | 205     | Chromium III    | ---     | TVS     |
| Arsenic(chronic) = hybrid   |                 | <b>Inorganic (mg/L)</b>            |           |         | Chromium III(T) | 50      | ---     |
| Expiration Date of 12/31/2024   |                 |                                    | acute     | chronic | Chromium VI     | TVS     | TVS     |
| *chlorophyll a (mg/m <sup>2</sup> )(chronic) = applies only above the facilities listed at 38.5(4).                                   |                 | Ammonia                            | TVS       | TVS     | Copper          | TVS     | TVS     |
| *Phosphorus(chronic) = applies only above the facilities listed at 38.5(4).   |                 | Boron                              | ---       | 0.75    | Iron            | ---     | WS      |
| *Uranium(acute) = See 38.5(3) for details.  |                 | Chloride                           | ---       | 250     | Iron(T)         | ---     | 1000    |
| *Uranium(chronic) = See 38.5(3) for details.  |                 | Chlorine                           | 0.019     | 0.011   | Lead            | TVS     | TVS     |
|   |                 | Cyanide                            | 0.005     | ---     | Lead(T)         | 50      | ---     |
|   |                 | Nitrate                            | 10        | ---     | Manganese       | TVS     | TVS/WS  |
|   |                 | Nitrite                            | ---       | 0.5     | Mercury(T)      | ---     | 0.01    |
|   |                 | Phosphorus                         | ---       | 0.17*   | Molybdenum(T)   | ---     | 150     |
|   |                 | Sulfate                            | ---       | WS      | Nickel          | TVS     | TVS     |
|   |                 | Sulfide                            | ---       | 0.002   | Nickel(T)       | ---     | 100     |
|   |                 |                                    |           |         | Selenium        | TVS     | TVS     |
|   |                 |                                    |           |         | Silver          | TVS     | TVS     |
|   |                 |                                    |           |         | Uranium         | varies* | varies* |
|   |                 |                                    |           |         | Zinc            | TVS     | TVS     |

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

D.O. = dissolved oxygen  
DM = daily maximum  
MWAT = maximum weekly average temperature  
See 38.6 for further details on applied standards.

# REGULATION #38 STREAM CLASSIFICATIONS and WATER QUALITY STANDARDS Republican River Basin

| 7. Mainstem of the North Fork of the Smoky Hill River and mainstem of the Smoky Hill River, including all tributaries and wetlands, from the source to the Colorado/Kansas border. |   |   |                |        |                 |                 |
|--|---|---|----------------|--------|-----------------|-----------------|
| COSP#  | Classifications   | Physical and Biological                 |                |        | Metals (ug/L)   |                 |
| Designation  | Agriculture<br>Aq Life Warm 2<br>Recreation P                 | DM                                      | MWAT           |        | acute           | chronic         |
| UP   |   |   | Temperature °C | WS-III | WS-III          | Arsenic         |
|  |   | acute                                   | chronic        |        | Arsenic(T)      | --- 100         |
| <b>Qualifiers:</b>   |   | D.O. (mg/L)                             | ---            | 5.0    | Beryllium(T)    | --- 100         |
| <b>Other:</b>  |   | pH                                      | 6.5 - 9.0      | ---    | Cadmium         | TVS TVS         |
|  |   | chlorophyll a (mg/m <sup>2</sup> )      | ---            | 150*   | Chromium III    | TVS TVS         |
|  |   | <del>E. Coli</del> E. coli (per 100 mL) | ---            | 205    | Chromium III(T) | --- 100         |
|  |   | Inorganic (mg/L)                        |                |        | Chromium VI     | TVS TVS         |
|  |   | acute                                   | chronic        |        | Copper          | TVS TVS         |
|  |   | Ammonia                                 | TVS            | TVS    | Iron(T)         | --- 1000        |
|  |   | Boron                                   | ---            | 0.75   | Lead            | TVS TVS         |
|  |   | Chloride                                | ---            | ---    | Manganese       | TVS TVS         |
|  |   | Chlorine                                | 0.019          | 0.011  | Mercury(T)      | --- 0.01        |
|  |   | Cyanide                                 | 0.005          | ---    | Molybdenum(T)   | --- 150         |
|  |   | Nitrate                                 | 100            | ---    | Nickel          | TVS TVS         |
|  |   | Nitrite                                 | ---            | 0.5    | Selenium        | TVS TVS         |
|  |   | Phosphorus                              | ---            | 0.17*  | Silver          | TVS TVS         |
|  |   | Sulfate                                 | ---            | ---    | Uranium         | varies* varies* |
|  |   | Sulfide                                 | ---            | 0.002  | Zinc            | TVS TVS         |
| 8. All lakes and reservoirs tributary to the Republican River and Smoky Hill River in Colorado.  |   |   |                |        |                 |                 |
| COSP#  | Classifications   | Physical and Biological                 |                |        | Metals (ug/L)   |                 |
| Designation  | Agriculture<br>Aq Life Warm 1<br>Recreation E<br>Water Supply | DM                                      | MWAT           |        | acute           | chronic         |
| Reviewable   |   |   | Temperature °C | WL     | WL              | Arsenic         |
|  |   | acute                                   | chronic        |        | Arsenic(T)      | --- 0.02        |
| <b>Qualifiers:</b>   |   | D.O. (mg/L)                             | ---            | 5.0    | Beryllium(T)    | --- 4.0         |
| <b>Other:</b>  |   | pH                                      | 6.5 - 9.0      | ---    | Cadmium         | TVS TVS         |
|  |   | chlorophyll a (ug/L)                    | ---            | 20*    | Cadmium(T)      | 5.0 ---         |
|  |   | <del>E. Coli</del> E. coli (per 100 mL) | ---            | 126    | Chromium III    | --- TVS         |
|  |   | Inorganic (mg/L)                        |                |        | Chromium III(T) | 50 ---          |
|  |   | acute                                   | chronic        |        | Chromium VI     | TVS TVS         |
|  |   | Ammonia                                 | TVS            | TVS    | Copper          | TVS TVS         |
|  |   | Boron                                   | ---            | 0.75   | Iron            | --- WS          |
|  |   | Chloride                                | ---            | 250    | Iron(T)         | --- 1000        |
|  |   | Chlorine                                | 0.019          | 0.011  | Lead            | TVS TVS         |
|  |   | Cyanide                                 | 0.005          | ---    | Lead(T)         | 50 ---          |
|  |   | Nitrate                                 | 10             | ---    | Manganese       | TVS TVS/WS      |
|  |   | Nitrite                                 | ---            | 0.5    | Mercury(T)      | --- 0.01        |
|  |   | Phosphorus                              | ---            | 0.083* | Molybdenum(T)   | --- 150         |
|  |   | Sulfate                                 | ---            | WS     | Nickel          | TVS TVS         |
|  |   | Sulfide                                 | ---            | 0.002  | Nickel(T)       | --- 100         |
|  |   |   |                |        | Selenium        | TVS TVS         |
|  |   |   |                |        | Silver          | TVS TVS         |
|  |   |   |                |        | Uranium         | varies* varies* |
|  |   |   |                |        | Zinc            | TVS TVS         |

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

D.O. = dissolved oxygen  
 DM = daily maximum  
 MWAT = maximum weekly average temperature  
 See 38.6 for further details on applied standards.

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

- (A) Whenever a range of standards is listed and referenced to this footnote, the first number in the range is a strictly health-based value, based on the Commission's established methodology for human health-based standards. The second number in the range is a maximum contaminant level, established under the federal Safe Drinking Water Act that has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. Control requirements, such as discharge permit effluent limitations, shall be established using the first number in the range as the ambient water quality target, provided that no effluent limitation shall require an "end-of-pipe" discharge level more restrictive than the second number in the range. Water bodies will be considered in attainment of this standard, and not included on the Section 303(d) List, so long as the existing ambient quality does not exceed the second number in the range.
  
- (B) Assessment of adequate refuge shall rely on the Cold Large Lake table value temperature criterion and applicable dissolved oxygen standard rather than the site-specific temperature standard.