

R317. Environmental Quality, Water Quality.

R317-2. Standards of Quality for Waters of the State.

R317-2-1A. Statement of Intent.

Whereas the pollution of the waters of this state constitute a menace to public health and welfare, creates public nuisances, is harmful to wildlife, fish and aquatic life, and impairs domestic, agricultural, industrial, recreational and other legitimate beneficial uses of water, and whereas such pollution is contrary to the best interests of the state and its policy for the conservation of the water resources of the state, it is hereby declared to be the public policy of this state to conserve the waters of the state and to protect, maintain and improve the quality thereof for public water supplies, for the propagation of wildlife, fish and aquatic life, and for domestic, agricultural, industrial, recreational and other legitimate beneficial uses; to provide that no waste be discharged into any waters of the state without first being given the degree of treatment necessary to protect the legitimate beneficial uses of such waters; to provide for the prevention, abatement and control of new or existing water pollution; to place first in priority those control measures directed toward elimination of pollution which creates hazards to the public health; to insure due consideration of financial problems imposed on water polluters through pursuit of these objectives; and to cooperate with other agencies of the state, agencies of other states and the federal government in carrying out these objectives.

R317-2-1B. Authority.

These standards are promulgated pursuant to Sections 19-5-104 and 19-5-110.

R317-2-2. Scope.

These standards shall apply to all waters of the state and shall be assigned to specific waters through the classification procedures prescribed by Sections 19-5-104(5) and 19-5-110 and R317-2-6.

R317-2-3. Antidegradation Policy.

3.1 Maintenance of Water Quality

Waters whose existing quality is better than the established standards for the designated uses will be maintained at high quality unless it is determined by the Board, after appropriate intergovernmental coordination and public participation in concert with the Utah continuing planning process, allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. However, existing instream water uses shall be maintained and protected. No water quality degradation is allowable which would interfere with or become injurious to existing instream water uses.

In those cases where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be

consistent with Section 316 of the Federal Clean Water Act.

3.2 High Quality Waters - Category 1

Waters of high quality which have been determined by the Board to be of exceptional recreational or ecological significance or have been determined to be a State or National resource requiring protection, shall be maintained at existing high quality through designation, by the Board after public hearing, as High Quality Waters - Category 1. New point source discharges of wastewater, treated or otherwise, are prohibited in such segments after the effective date of designation. Protection of such segments from pathogens in diffuse, underground sources is covered in R317-5 and R317-7 and the Regulations for Individual Wastewater Disposal Systems (R317-501 through R317-515). Other diffuse sources (nonpoint sources) of wastes shall be controlled to the extent feasible through implementation of best management practices or regulatory programs.

Projects such as, but not limited to, construction of dams or roads will be considered where pollution will result only during the actual construction activity, and where best management practices will be employed to minimize pollution effects.

Waters of the state designated as High Quality Waters - Category 1 are listed in R317-2-12.1.

3.3 High Quality Waters - Category 2

High Quality Waters - Category 2 are designated surface water segments which are treated as High Quality Waters - Category 1 except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality. Waters of the state designated as High Quality Waters - Category 2 are listed in R317-2-12.2.

3.4 For all other waters of the state, point source discharges are allowed and degradation may occur, pursuant to the conditions and review procedures outlined below:

a. Activities Subject to Antidegradation Review (ADR)

1. For all State waters, antidegradation reviews will be conducted for proposed federally regulated activities, such as those under Clean Water Act Sections 401 (FERC and other Federal actions), 402 (UPDES permits), and 404 (Army Corps of Engineers permits). The Executive Secretary may conduct an ADR on other projects with the potential for major impact on the quality of waters of the state. The review will determine whether the proposed activity complies with the applicable antidegradation requirements for the particular receiving waters that may be affected.

2. For High Quality Category 1 and High Quality Category 2 waters, reviews shall be consistent with the requirement established in Sections 3.2 and 3.3, respectively.

For State waters that do not have a High Quality Category 1 or High Quality Category 2 designation, reviews shall be consistent with the procedures identified in Section 3.4 a.-3.4 b.

The antidegradation review consists of two parts. An antidegradation Level I review will be to determine if the

proposed activity requires an antidegradation Level II review as described in Section 3.4 b. below. If so, further review will be required.

b. An Anti-degradation Level II review is not required where any of the following conditions apply:

1. Water quality will not be lowered by the proposed activity (e.g., a UPDES permit is being renewed and the proposed effluent concentration value and pollutant loading is equal to or less than the existing effluent concentrations value and pollutant loading).

2. Discharge limits are established in an approved TMDL that is consistent with the current water quality standards for the receiving water (e.g., where TMDLs are established, changes in effluent limits that are consistent with the existing load allocation would not trigger an anti-degradation review), or

3. Water quality impacts will be temporary and related only to sediment or turbidity and fish spawning will not be impaired, or

4. The discharge is to a water quality limited water, and assimilative capacity is essentially allocated to existing discharges.

5. The water quality effects of the proposed activity are expected to be temporary and limited. As general guidance, CWA Section 402 general permits, CWA Section 404 nationwide and general permits, or activities of short duration, will be deemed to have a temporary and limited effect on water quality where there is a reasonable factual basis to support such a conclusion. The 404 nationwide permits decision will be made at the time of permit issuance, as part of the Division's water quality certification under DWA Section 401. Where it is determined that the category of activities will result in temporary and limited effects, subsequent individual activities authorized under such permits will not be subject to further antidegradation review. Factors to be considered in determining whether water quality effects will be temporary and limited may include the following:

(a) Length of time during which water quality will be lowered.

(b) Percent change in ambient concentrations of pollutants of concern

(c) Pollutants affected

(d) Likelihood for long-term water quality benefits to the segment (e.g., dredging of contaminated sediments)

(e) Potential for any residual long-term influences on existing uses.

6. The affected waters are classified as 3C, 3D (and not 3A or 3B), or 3E waters, or are classified only as Class 4.

7. The affected waters are considered to be poor quality fisheries as indicated by Utah Division of Wildlife Resource (UDWR) Classes IV, V, and VI with the exception of those waters which add a letter (P, R, N, B, X, or C) to the numerical rating and those which have a "unique rating".

8. The water body is listed on the current 303(d) list for the parameters of concern.

9. Existing water quality for the parameters of concern does not satisfy applicable numeric and narrative water quality criteria.

10. Water quality impacts are expected to be minor. For example: (a) for discharge permit renewals, if the increase in project loading over the prior permit is less than 20%; or (b) if the increase in pollutant loading to the stream is less than 20% over existing background.

11. The volume of the discharge is small as compared to the flow of the receiving stream. In general, this would be considered where the ratio of the average stream flow to the discharged flow is expected to be greater than 100:1, the ratio of the 7Q10 (7 day-10 year) low flow to the discharge flow is expected to be greater than 25:1, and where the increase in concentration of the pollutants in the stream at 7Q10 at low flow is expected to be less than 10%, or based upon other site specific criteria.

Both Level I and Level II reviews will be conducted on a parameter-by-parameter basis. A decision to move to a Level II review for one parameter may not require a Level II review for other parameters that will be affected by the proposed activity. An antidegradation review may be required by the Executive Secretary if the receiving water is a drinking water source, if the receiving water has a special value for recreation or fisheries, if an existing use may be impaired, or based on other site-specific factors as appropriate.

c. Anti-degradation Review Process

For all activities requiring a Level II review, the Division will notify affected agencies and the public with regards to the requested proposed activity and discussions with stakeholders may be held. In the case of Section 402 discharge permits, if it is determined that a discharge will be allowed, the Division of Water Quality will develop any needed UPDES permits for public notice following the normal permit issuance process.

The ADR will cover the following requirements or determinations:

1. Will all Statutory and regulatory requirements be met?

The Executive Secretary will review to determine that there will be achieved all statutory and regulatory requirements for all new and existing point sources and all required cost-effective and reasonable best management practices for nonpoint source control in the area of the discharge. If point sources exist in the area that have not achieved all statutory and regulatory requirements, the Executive Secretary will consider whether schedules of compliance or other plans have been established when evaluating whether compliance has been assured. Generally, the "area of the discharge" will be determined based on the parameters of concern associated with the proposed activity and the portion of the receiving water that would be affected.

2. Are there any reasonable less-degrading alternatives?

There will be an evaluation of whether there are any reasonable non-degrading or less degrading alternatives for the proposed activity. This question will be addressed by the Division based on information provided by the project proponent. Control alternatives for a proposed activity will be evaluated in an effort to avoid or minimize degradation of the receiving water. Alternatives to be considered, evaluated, and implemented to the extent feasible, could include pollutant trading, water conservation, water recycling and reuse, land application, total containment, etc.

For proposed UPDES permitted discharges, the following list of alternatives should be considered, evaluated and implemented to the extent feasible:

- (a) innovative or alternative treatment options
- (b) more effective treatment options or higher treatment levels
- (c) connection to other wastewater treatment facilities
- (d) process changes or product or raw material substitution
- (e) seasonal or controlled discharge options to minimize discharging during critical water quality periods
- (f) seasonal or controlled discharge options to minimize discharging during critical water quality periods
- (g) pollutant trading
- (h) water conservation
- (i) water recycle and reuse
- (j) alternative discharge locations or alternative receiving waters
- (k) land application
- (l) total containment
- (m) improved operation and maintenance of existing treatment systems
- (n) other appropriate alternatives

An option more costly than the cheapest alternative may have to be implemented if a substantial benefit to the stream can be realized. Alternatives would generally be considered feasible where costs are no more than 20% higher than the cost of the discharging alternative, and (for POTWs) where the projected per connection service fees are not greater than 1.4% of MAGHI (median adjusted gross household income), the current affordability criterion now being used by the Water Quality Board in the wastewater revolving loan program. Alternatives within these cost ranges should be carefully considered by the discharger. Where State financing is appropriate, a financial assistance package may be influenced by this evaluation, i.e., a less polluting alternative may receive a more favorable funding arrangement in order to make it a more financially attractive alternative.

It must also be recognized in relationship to evaluating options that would avoid or reduce discharges to the stream, that in some situations it may be more beneficial to leave the water in the stream for instream flow purposes than to remove the discharge to the stream.

3. Special Procedures for 404 Permits.

For 404 permitted activities, all appropriate alternatives to avoid and minimize degradation should be evaluated. Activities involving a discharge of dredged or fill materials that are considered to have more than minor adverse effects on the aquatic environment are regulated by individual CWA Section 404 permits. The decision-making process relative to the 404 permitting program is contained in the 404(b)(1) guidelines (40 CFR Part 230). Prior to issuing a permit under the 404(b)(1) guidelines, the Corps of Engineers:

(a) makes a determination that the proposed activity discharges are unavoidable (i.e., necessary):

(b) examines alternatives to the proposed activity and authorize only the least damaging practicable alternative; and

(c) requires mitigation for all impacts associated with the activity. A 404(b)(1) finding document is produced as a result of this procedure and is the basis for the permit decision. Public participation is provided for in the process. Because the 404(b)(1) guidelines contains an alternatives analysis, the executive secretary will not require development of a separate alternatives analysis for the anti-degradation review. The division will use the analysis in the 404(b)(1) finding document in completing its anti-degradation review and 401 certification.

4. Does the proposed activity have economic and social importance?

Although it is recognized that any activity resulting in a discharge to surface waters will have positive and negative aspects, information must be submitted by the applicant that any discharge or increased discharge will be of economic or social importance in the area.

The factors addressed in such a demonstration may include, but are not limited to, the following:

(a) employment (i.e., increasing, maintaining, or avoiding a reduction in employment);

(b) increased production;

(c) improved community tax base;

(d) housing;

(e) correction of an environmental or public health problem; and

(f) other information that may be necessary to determine the social and economic importance of the proposed surface water discharge.

5. The applicant may submit a proposal to mitigate any adverse environmental effects of the proposed activity (e.g., instream habitat improvement, bank stabilization). Such mitigation plans should describe the proposed mitigation measures and the costs of such mitigation. Mitigation plans will not have any effect on effluent limits or conditions included in a permit (except possibly where a previously completed mitigation project has resulted in an improvement in background water quality that affects a water quality-based limit). Such mitigation plans will be developed and

implemented by the applicant as a means to further minimize the environmental effects of the proposed activity and to increase its socio-economic importance. An effective mitigation plan may, in some cases, allow the Executive Secretary to authorize proposed activities that would otherwise not be authorized.

6. Will water quality standards be violated by the discharge?

Proposed activities that will affect the quality of waters of the state will be allowed only where the proposed activity will not violate water quality standards.

7. Will existing uses be maintained and protected?

Proposed activities can only be allowed if "existing uses" will be maintained and protected. No UPDES permit will be allowed which will permit numeric water quality standards to be exceeded in a receiving water outside the mixing zone. In the case of nonpoint pollution sources, the non-regulatory Section 319 program now in place will address these sources through application of best management practices to ensure that numeric water quality standards are not exceeded.

8. If a situation is found where there is an existing use which is a higher use (i.e., more stringent protection requirements) than that current designated use, the Division will apply the water quality standards and anti-degradation policy to protect the existing use. Narrative criteria may be used as a basis to protect existing uses for parameters where numeric criteria have not been adopted. Procedures to change the stream use designation to recognize the existing use as the designated use would be initiated.

d. Special Procedures for Drinking Water Sources

An Antidegradation Review may be required by the Executive Secretary for discharges to waters with a Class 1C drinking water use assigned, irrespective of whether any of the conditions in Section 3.4 b. applies. Factors to be considered may include the volume of the discharge compared to the flow of the receiving stream, or where the pollutants discharged may have potentially adverse impact on the drinking water supply.

Depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream water quality standards, may be required by the Executive Secretary in order to adequately protect public health and the environment. Such additional treatment may include additional disinfection, suspended solids removal to make the disinfection process more effective, removal of any specific contaminants for which drinking water maximum contaminant levels (MCLs) exists, and/or nutrient removal to reduce the organic content of raw water used as a source for domestic water systems.

Additional monitoring may include analyses for viruses, giardia, cryptosporidium, other pathogenic organisms, and/or any contaminant for which drinking water MCLs exist. Depending

on the results of such monitoring, more stringent treatment may then be required.

The additional treatment/effluent limits/monitoring which may be required will be determined by the Executive Secretary after consultation with the Division of Drinking Water and the downstream drinking water users.

e. Public Notice

The public will be provided notice and an opportunity to comment on the conclusions of all completed antidegradation reviews. Where possible, public notice on the antidegradation review conclusions will be combined with the public notice on the proposed permitting action. In the case of UPDES permits, public notice will be provided through the normal permitting process, as all draft permits are public noticed for 30 days, and public comment solicited, before being issued as a final permit. The Statement of Basis for the draft UPDES permit will contain information on how the ADR was addressed including results of the Level I and Level II reviews. In the case of Section 404 permits from the Corps of Engineers, the Division of Water Quality will develop any needed 401 Certifications and the public notice will be published in conjunction with the US Corps of Engineers public notice procedures. Other permits requiring a Level II review will receive a separate public notice according to the normal State public notice procedures.

R317-2-4. Colorado River Salinity Standards.

In addition to quality protection afforded by these regulations to waters of the Colorado River and its tributaries, such waters shall be protected also by requirements of "Proposed Water Quality Standards for Salinity including Numeric Criteria and Plan of Implementation for Salinity Control, Colorado River System, June 1975" and a supplement dated August 26, 1975, entitled "Supplement, including Modifications to Proposed Water Quality Standards for Salinity including Numeric Criteria and Plan of Implementation for Salinity Control, Colorado River System, June 1975", as approved by the seven Colorado River Basin States and the U.S. Environmental Protection Agency, as updated by the 1978 Revision and the 1981, 1984, 1987, 1990, 1993, 1996, 1999 and 2002 Reviews of the above documents.

R317-2-5. Mixing Zones.

A mixing zone is a limited portion of a body of water, contiguous to a discharge, where dilution is in progress but has not yet resulted in concentrations which will meet certain standards for all pollutants. At no time, however, shall concentrations within the mixing zone be allowed which are acutely lethal as determined by bioassay or other approved procedure. Mixing zones may be delineated for the purpose of guiding sample collection procedures and to determine permitted effluent limits. The size of the chronic mixing zone in rivers and streams shall not to exceed 2500 feet and the size of an acute mixing zone shall not exceed 50% of stream

width nor have a residency time of greater than 15 minutes. Streams with a flow equal to or less than twice the flow of a point source discharge may be considered to be totally mixed.

The size of the chronic mixing zone in lakes and reservoirs shall not exceed 200 feet and the size of an acute mixing zone shall not exceed 35 feet. Domestic wastewater effluents discharged to mixing zones shall meet effluent requirements specified in R317-1-3.

5.1 Individual Mixing Zones. Individual mixing zones may be further limited or disallowed in consideration of the following factors in the area affected by the discharge:

- a. Bioaccumulation in fish tissues or wildlife,
- b. Biologically important areas such as fish spawning/nursery areas or segments with occurrences of federally listed threatened or endangered species,
- c. Potential human exposure to pollutants resulting from drinking water or recreational activities,
- d. Attraction of aquatic life to the effluent plume, where toxicity to the aquatic life is occurring.
- e. Toxicity of the substance discharged,
- f. Zone of passage for migrating fish or other species (including access to tributaries), or
- g. Accumulative effects of multiple discharges and mixing zones.

R317-2-6. Use Designations.

The Board as required by Section 19-5-110, shall group the waters of the state into classes so as to protect against controllable pollution the beneficial uses designated within each class as set forth below. Surface waters of the state are hereby classified as shown in R317-2-13.

6.1 Class 1 -- Protected for use as a raw water source for domestic water systems.

- a. Class 1A -- Reserved.
- b. Class 1B -- Reserved.
- c. Class 1C -- Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water

6.2 Class 2 -- Protected for recreational use and aesthetics.

- a. Class 2A -- Protected for primary contact recreation such as swimming.
- b. Class 2B -- Protected for secondary contact recreation such as boating, wading, or similar uses.

6.3 Class 3 -- Protected for use by aquatic wildlife.

a. Class 3A -- Protected for cold water species of game fish and other cold water aquatic life, including the necessary aquatic organisms in their food chain.

b. Class 3B -- Protected for warm water species of game fish and other warm water aquatic life, including the necessary aquatic organisms in their food chain.

c. Class 3C -- Protected for nongame fish and other aquatic life, including the necessary aquatic organisms in their food chain.

d. Class 3D -- Protected for waterfowl, shore birds and other water-oriented wildlife not included in Classes 3A, 3B, or 3C, including the necessary aquatic organisms in their food chain.

e. Class 3E -- Severely habitat-limited waters. Narrative standards will be applied to protect these waters for aquatic wildlife.

6.4 Class 4 -- Protected for agricultural uses including irrigation of crops and stock watering.

6.5 Class 5 -- The Great Salt Lake. Protected for primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary aquatic organisms in their food chain, and mineral extraction.

R317-2-7. Water Quality Standards.

7.1 Application of Standards

The numeric criteria listed in R317-2-14 shall apply to each of the classes assigned to waters of the State as specified in R317-2-6. It shall be unlawful and a violation of these regulations for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated, except as provided in R317-1-3.1. The Board may allow site specific modifications based upon bioassay or other tests performed in accordance with standard procedures determined by the Board.

7.2 Narrative Standards

It shall be unlawful, and a violation of these regulations, for any person to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

R317-2-8. Protection of Downstream Uses.

All actions to control waste discharges under these regulations shall be modified as necessary to protect downstream designated uses.

R317-2-9. Intermittent Waters.

Failure of a stream to meet water quality standards when stream flow is either unusually high or less than the 7-day, 10-year minimum flow shall not be cause for action against persons discharging wastes which meet both the requirements of R317-1 and the requirements of applicable permits.

R317-2-10. Laboratory and Field Analyses.

10.1 Laboratory Analyses

All laboratory examinations of samples collected to determine compliance with these regulations shall be performed in accordance with standard procedures as approved by the Utah Division of Water Quality by the Utah Office of State Health Laboratory or by a laboratory certified by the Utah Department of Health.

10.2 Field Analyses

All field analyses to determine compliance with these regulations shall be conducted in accordance with standard procedures specified by the Utah Division of Water Quality.

R317-2-11. Public Participation.

Public hearings will be held to review all proposed revisions of water quality standards, designations and classifications, and public meetings may be held for consideration of discharge requirements set to protect water uses under assigned classifications.

R317-2-12. High Quality Waters.

12.1 High Quality Waters - Category 1.

In addition to assigned use classes, the following surface waters of the State are hereby designated as High Quality Waters - Category 1:

a. All surface waters geographically located within the outer boundaries of U.S. National Forests whether on public or private lands with the following exceptions:

All High Quality Waters - Category 2 as listed in R317-2-12.2.

Weber River, a tributary to the Great Salt Lake, in the Weber River Drainage from Uintah to Mountain Green.

b. Other surface waters, which may include segments within U.S. National Forests as follows:

1. Colorado River Drainage

Calf Creek and tributaries, from confluence with Escalante River to headwaters.

Sand Creek and tributaries, from confluence with Escalante River to headwaters.

Mamie Creek and tributaries, from confluence with Escalante River to headwaters.

Deer Creek and tributaries, from confluence with Boulder Creek to headwaters (Garfield County).

Indian Creek and tributaries, through Newspaper Rock State Park to headwaters.

2. Green River Drainage

Price River (Lower Fish Creek from confluence with White River to Scofield Dam.

Range Creek and tributaries, from confluence with Green River to headwaters.

Strawberry River and tributaries, from confluence with Red Creek to headwaters.

Ashley Creek and tributaries, from Steinaker diversion to headwaters.

Jones Hole Creek and tributaries, from confluence with

Green River to headwaters.

Green River, from state line to Flaming Gorge Dam.

Tollivers Creek, from confluence with Green River to headwaters.

Allen Creek, from confluence with Green River to headwaters.

3. Virgin River Drainage

North Fork Virgin River and tributaries, from confluence with East Fork Virgin River to headwaters.

East Fork Virgin River and tributaries from confluence with North Fork Virgin River to headwaters.

4. Kanab Creek Drainage

Kanab Creek and tributaries, from irrigation diversion at confluence with Reservoir Canyon to headwaters.

5. Bear River Drainage

Swan Creek and tributaries, from Bear Lake to headwaters.

North Eden Creek, from Upper North Eden Reservoir to headwaters.

Big Creek and tributaries, from Big Ditch diversion to headwaters.

Woodruff Creek and tributaries, from Woodruff diversion to headwaters.

6. Weber River Drainage

Burch Creek and tributaries, from Harrison Boulevard in Ogden to headwaters.

Hardscrabble Creek and tributaries, from confluence with East Canyon Creek to headwaters.

Chalk Creek and tributaries, from U.S. Highway 189 to headwaters.

Weber River and tributaries, from U.S. Highway 189 near Oakley to headwaters.

7. Jordan River Drainage

City Creek and tributaries, from City Creek Water Treatment Plant to headwaters (Salt Lake County).

Emigration Creek and tributaries, from Hogle Zoo to headwaters (Salt Lake County).

Red Butte Creek and tributaries, from Foothill Boulevard in Salt Lake City to headwaters.

Parley's Creek and tributaries, from 13th East in Salt Lake City to headwaters.

Mill Creek and tributaries, from Wasatch Boulevard in Salt Lake City to headwaters.

Big Cottonwood Creek and tributaries, from Wasatch Boulevard in Salt Lake City to headwaters.

Little Willow Creek and tributaries, from diversion to headwaters (Salt Lake County.)

Bell Canyon Creek and tributaries, from Lower Bells Canyon Reservoir to headwaters (Salt Lake County).

South Fork of Dry Creek and tributaries, from Draper Irrigation Company diversion to headwaters (Salt Lake County).

8. Provo River Drainage

Upper Falls drainage above Provo City diversion (Utah County).

Bridal Veil Falls drainage above Provo City diversion

(Utah County).

Lost Creek and tributaries, above Provo City diversion (Utah County).

9. Sevier River Drainage

Chicken Creek and tributaries, from diversion at canyon mouth to headwaters.

Pigeon Creek and tributaries, from diversion to headwaters.

East Fork of Sevier River and tributaries, from Kingston diversion to headwaters.

Parowan Creek and tributaries, from Parowan City to headwaters.

Summit Creek and tributaries, from Summit City to headwaters.

Braffits Creek and tributaries, from canyon mouth to headwaters.

Right Hand Creek and tributaries, from confluence with Coal Creek to headwaters.

10. Raft River Drainage

Clear Creek and tributaries, from state line to headwaters (Box Elder County).

Birch Creek (Box Elder County), from state line to headwaters.

Cotton Thomas Creek from confluence with South Junction Creek to headwaters.

11. Western Great Salt Lake Drainage

All streams on the south slope of the Raft River Mountains above 7000' mean sea level.

Donner Creek (Box Elder County), from irrigation diversion to Utah-Nevada state line.

Bettridge Creek (Box Elder County), from irrigation diversion to Utah-Nevada state line.

Clover Creek, from diversion to headwaters.

All surface waters on public land on the Deep Creek Mountains.

12. Farmington Bay Drainage

Holmes Creek and tributaries, from Highway US-89 to headwaters (Davis County).

Shepard Creek and tributaries, from Height Bench diversion to headwaters (Davis County).

Farmington Creek and tributaries, from Height Bench Canal diversion to headwaters (Davis County).

Steed Creek and tributaries, from Highway US-89 to headwaters (Davis County).

12.2 High Quality Waters - Category 2.

In addition to assigned use classes, the following surface waters of the State are hereby designated as High Quality Waters - Category 2:

a. Green River Drainage

Deer Creek, a tributary of Huntington Creek, from the forest boundary to 4800 feet upstream.

Electric Lake.

R317-2-13. Classification of Waters of the State (see R317-2-

6).
 13.1 Upper Colorado River Basin
 a. Colorado River Drainage

TABLE

Paria River and tributaries, from state line to headwaters 4	2B	3C
All tributaries to Lake Powell, except as listed below 4	2B	3B
Escalante River and tributaries, from Lake Powell to confluence with Boulder Creek 4	2B	3C
Escalante River and tributaries, from confluence with Boulder Creek, including Boulder Creek, to headwaters 4		2B 3A
Dirty Devil River and tributaries, from Lake Powell to Fremont River 4	2B	3C
Deer Creek and tributaries, from confluence with Boulder Creek to headwaters 4		2B 3A
Fremont River and tributaries, from confluence with Muddy Creek to Capitol Reef National Park, except as listed below 4	1C	2B 3C
Pleasant Creek and tributaries, from confluence with Fremont Rive to East boundary of Capitol Reef National Park 4		2B 3C
Pleasant Creek and tributaries, from East boundary of Capitol Reef National Park to headwaters	1C	2B 3A
Fremont River and tributaries, through Capitol Reef National Park to		

headwaters 4	1C	2B	3A
Muddy Creek and tributaries, from confluence with Fremont River to Highway U-10 crossing, except as listed below 4		2B	3C
Quitichupah Creek and Tributaries, from Highway U-10 crossing to headwaters 4			2B 3A
Ivie Creek and tributaries, from Highway U-10 to headwaters 4			2B 3A
Muddy Creek and tributaries, from Highway U-10 crossing to headwaters 4	1C	2B	3A
San Juan River and Tributaries, from Lake Powell to state line except As listed below: 4	1C	2B	3B
Johnson Creek and tributaries, from confluence with Recapture Creek to headwaters 4	1C	2B	3A
Verdure Creek and tributaries, from Highway US-191 crossing to headwaters 4		2B	3A
North Creek and tributaries, from confluence with Montezuma Creek to headwaters 4	1C	2B	3A
South Creek and tributaries, from confluence with Montezuma Creek to headwaters 4	1C	2B	3A
Spring Creek and tributaries, from confluence with Vega Creek to headwaters 4			2B 3A

<p>Montezuma Creek and tributaries, from U.S. Highway 191 to headwaters</p> <p>4</p>	<p>1C 2B 3A</p>
<p>Colorado River and tributaries, from Lake Powell to state line except as listed below</p> <p>4</p>	<p>1C 2B 3B</p>
<p>Indian Creek and tributaries, through Newspaper Rock State Park to headwaters</p> <p>4</p>	<p>1C 2B 3A</p>
<p>Kane Canyon Creek and tributaries, from confluence with Colorado River to headwaters</p> <p>4</p>	<p>2B 3C</p>
<p>Mill Creek and tributaries, from confluence with Colorado River to headwaters</p> <p>4</p>	<p>1C 2B 3A</p>
<p>Dolores River and tributaries, from confluence with Colorado River to state line</p> <p>4</p>	<p>2B 3C</p>
<p>Roc Creek and tributaries, from confluence with Dolores River to headwaters</p> <p>4</p>	<p> 2B 3A</p>
<p>LaSal Creek and tributaries, from state line to headwaters</p> <p>4</p>	<p> 2B 3A</p>
<p>Lion Canyon Creek and tributaries, from state line to headwaters</p> <p>4</p>	<p> 2B 3A</p>
<p>Little Dolores River and tributaries, from confluence with Colorado River to state line</p> <p>4</p>	<p>2B 3C</p>
<p>Bitter Creek and tributaries, from confluence with Colorado River to headwaters</p> <p>4</p>	<p>2B 3C</p>

b. Green River Drainage

TABLE

Green River and tributaries, from confluence with Colorado River to state line except as listed below:	1C	2B	3B
4 Thompson Creek and tributaries from Interstate Highway 70 to headwaters		2B	3C
4 San Rafael River and tributaries, from confluence with Green River to confluence with Ferron Creek		2B	3C
4 Ferron Creek and tributaries, from confluence with San Rafael River to Millsite Reservoir		2B	3C
4 Ferron Creek and tributaries, from Millsite Reservoir to headwaters	1C	2B	3A
4 Huntington Creek and tributaries, from confluence with Cottonwood Creek to Highway U-10 crossing		2B	3C
4 Huntington Creek and tributaries, from Highway U-10 crossing to headwaters	1C	2B	3A
4 Cottonwood Creek and tributaries, from confluence with Huntington Creek to Highway U-57 crossing		2B	3C
4 Cottonwood Creek and tributaries, from Highway U-57 crossing to headwaters	1C	2B	3A
3E 4 Cottonwood Canal, Emery County		1C	2B
4 Price River and tributaries, from confluence with Green River to Carbon Canal Diversion at Price City Golf Course	2B		3C
4 Except as listed below			

4	Grassy Trail Creek and tributaries, from Grassy Trail Creek Reservoir to headwaters	1C	2B	3A
4	Price River and tributaries, from Carbon Canal Diversion at Price City Golf Course to Price City Water Treatment Plant intake.		2B	3A
4	Price River and tributaries, from Price City Water Treatment Plant intake to headwaters	1C	2B	3A
4	Range Creek and tributaries, from confluence with Green River to Range Creek Ranch		2B	3A
4	Range Creek and tributaries, from Range Creek Ranch to headwaters	1C	2B	3A
4	Rock Creek and tributaries, from confluence with Green River to headwaters		2B	3A
4	Nine Mile Creek and tributaries, from confluence with Green River to headwaters		2B	3A
4	Pariette Draw and tributaries, from confluence with Green River to headwaters	2B	3B	3D
4	Willow Creek and tributaries (Uintah County), from confluence with Green River to headwaters		2B	3A
4	White River and tributaries, from confluence with Green River to state line, except as listed below		2B	3B
4	Bitter Creek and Tributaries from White River to Headwaters		2B	3A
4	Duchesne River and tributaries, from confluence with Green River to Myton Water Treatment Plant intake, except as listed below		2B	3B

<p>Jones Hole Creek and tributaries, from confluence with Green River to headwaters</p>	<p>2B 3A</p>	
<p>4 Diamond Gulch Creek and tributaries, from confluence with Green River to headwaters</p>		<p>2B 3A</p>
<p>4 Pot Creek and tributaries, from Crouse Reservoir to headwaters</p>		<p>2B 3A</p>
<p>4 Green River and tributaries, from Utah-Colorado state line to Flaming Gorge Dam except as listed below:</p>		<p>2B 3A</p>
<p>4 Sears Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>Tolivers Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>4 Red Creek and tributaries, from confluence with Green River to state line</p>	<p>2B</p>	<p>3C</p>
<p>4 Jackson Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>Davenport Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>Goslin Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>Gorge Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>Beaver Creek and tributaries, Daggett County</p>	<p>2B 3A</p>	
<p>O-Wi-Yu-Kuts Creek and tributaries, County</p>	<p>2B 3A</p>	
<p>Tributaries to Flaming Gorge Reservoir, except as listed below</p>		<p>2B 3A</p>
<p>4 Birch Spring Draw and tributaries, from Flaming Gorge Reservoir to headwaters</p>	<p>2B</p>	<p>3C</p>
<p>4 Spring Creek and tributaries, from Flaming Gorge Reservoir to headwaters</p>	<p>2B 3A</p>	
<p>All Tributaries of Flaming Gorge Reservoir from Utah-Wyoming state line to headwaters</p>		<p>2B 3A</p>
<p>4</p>		

13.2 Lower Colorado River Basin

a. Virgin River Drainage

TABLE

Beaver Dam Wash and tributaries, from Motoqua to headwaters 4		2B	3B
Virgin River and tributaries from state line to Quail Creek diversion 4		2B	3B
Santa Clara River from confluence with Virgin River to Gunlock Reservoir 4	1C	2B	3B
Santa Clara River and tributaries, from Gunlock Reservoir to headwaters 4		2B	3A
Leed's Creek, from confluence with Quail Creek to headwaters 4		2B	3A
Quail Creek from Quail Creek Reservoir to headwaters 4	1C	2B	3A
Ash Creek and tributaries, from confluence with Virgin River to Ash Creek Reservoir 4		2B	3A
Ash Creek and tributaries, From Ash Creek Reservoir to headwaters 4		2B	3A
Virgin River and tributaries, from the Quail Creek diversion to headwaters, except as listed below 4	1C	2B	3C
North Fork Virgin River and tributaries 4	1C	2B	3A
East Fork Virgin River, from			

town of Glendale to headwaters 2B 3A
4

Kolob Creek, from confluence
with Virgin River to
headwaters 2B 3A
4

b. Kanab Creek Drainage

TABLE

Kanab Creek and tributaries,
from state line to irrigation
diversion at confluence with
Reservoir Canyon 2B 3C
4

Kanab Creek and tributaries,
from irrigation diversion at
confluence with Reservoir Canyon
to headwaters 2B 3A
4

Johnson Wash and tributaries,
from state line to confluence
with Skutumpah Canyon 2B 3C 4
Johnson Wash and tributaries,
from confluence with
Skutumpah Canyon to headwaters 2B 3A
4

13.3 Bear River Basin
a. Bear River Drainage

TABLE

Bear River and tributaries, from
Great Salt Lake to Utah-Idaho
border, except as listed below: 2B 3B 3D
4

Perry Canyon Creek from U.S.
Forest boundary to headwaters 2B 3A
4

Box Elder Creek from confluence
with Black Slough to Brigham
City Reservoir (the Mayor's Pond) 2B 3C
4

Box Elder Creek, from Brigham
City Reservoir (the Mayor's Pond)

to headwaters 4		2B 3A
Malad River and tributaries, from confluence with Bear River to state line	2B	3C
Little Bear River and tributaries, from Cutler Reservoir to headwaters 4	2B 3A	3D
Logan River and tributaries, from Cutler Reservoir to headwaters 4	2B 3A	3D
Blacksmith Fork and tributaries, from confluence with Logan River to headwaters 4		2B 3A
Newton Creek and tributaries, from Cutler Reservoir to Newton Reservoir 4		2B 3A
Clarkston Creek and tributaries, from Newton Reservoir to headwaters 4		2B 3A
Birch Creek and tributaries, from confluence with Clarkston Creek to headwaters 4		2B 3A
Summit Creek and tributaries, from confluence with Bear River to headwaters 4		2B 3A
Cub River and tributaries, from confluence with Bear River to state line, except as listed below: 4		2B 3B
High Creek and tributaries, from confluence with Cub River to headwaters 4		2B 3A
All tributaries to Bear Lake from Bear Lake to headwaters, except as		

listed below 2B 3A
4

Swan Springs tributary to Swan
Creek 1C 2B 3A

Bear River and tributaries in
Rich County 2B 3A
4

Bear River and tributaries, from
Utah-Wyoming state line to
headwaters (Summit County) 2B 3A
4

Mill Creek and tributaries, from
state line to headwaters (Summit
County) 2B 3A
4

13.4 Weber River Basin
a. Weber River Drainage

TABLE

Willard Creek, from Willard Bay
Reservoir to headwaters 2B 3A
4

Weber River, from Great Salt Lake
to Slaterville diversion, except
as listed below: 2B 3C 3D
4

Four Mile Creek from I-15
To headwaters 2B 3A
4

Weber River and tributaries, from
Slaterville diversion to Stoddard
diversion, except as listed below 2B 3A
4

Ogden River and tributaries,
From confluence with Weber River
To Pineview Dam, except as listed
Below 2B 3A
4

Wheeler Creek from
Confluence with Ogden
River to headwaters 1C 2B 3A
4

All tributaries to Pineview Reservoir 4	1C	2B	3A
Strong's Canyon Creek and Tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Burch Creek and tributaries, from Harrison Boulevard in Ogden to Headwaters	1C	2B	3A
Spring Creek and tributaries, From U.S. National Forest Boundary to headwaters 4	1C	2B	3A
Weber River and tributaries, from Stoddard diversion to headwaters 4	1C	2B	3A

13.5 Utah Lake-Jordan River Basin
a. Jordan River Drainage

TABLE

Jordan River, from Farmington Bay to North Temple Street, Salt Lake City 4	2B	3B *	3D
Jordan River, from North Temple Street in Salt Lake City to confluence with Little Cottonwood Creek 4	2B	3B *	
Surplus Canal from Great Salt Lake to the diversion from the Jordan River 4	2B	3B *	3D
Jordan River from confluence with Little Cottonwood Creek to Narrows Diversion 4		2B	3A
Jordan River, from Narrows Diversion to Utah Lake 4	1C	2B	3B
City Creek, from Memory Park			

in Salt Lake City to City Creek Water Treatment Plant		2B 3A	
City Creek, from City Creek Water Treatment Plant to headwaters	1C	2B 3A	
Red Butte Creek and tributaries, from Red Butte Reservoir to headwaters	1C	2B 3A	
Emigration Creek and tributaries, from Foothill Boulevard in Salt Lake City to headwaters		2B 3A	
Parley's Creek and tributaries, from 1300 East in Salt Lake City to Mountain Dell Reservoir to headwaters	1C	2B 3A	
Parley's Creek and tributaries, from Mountain Dell Reservoir to headwaters	1C	2B 3A	
Mill Creek (Salt Lake County) from confluence with Jordan River to Interstate Highway 15 4		2B	3C
Mill Creek (Salt Lake County) and tributaries from Interstate Highway 15 to headwaters 4			2B 3A
Big Cottonwood Creek and tributaries, from confluence with Jordan River to Big Cottonwood Water Treatment Plant 4			2B 3A
Big Cottonwood Creek and tributaries, from Big Cottonwood Water Treatment Plant to headwaters	1C	2B 3A	
Deaf Smith Canyon Creek and tributaries 4		1C	2B 3A
Little Cottonwood Creek and tributaries, from confluence with Jordan River to Metropolitan Water Treatment Plant 4			2B 3A
Little Cottonwood Creek and			

tributaries, from Metropolitan Water Treatment Plant to headwaters	1C	2B 3A	
Bell Canyon Creek and tributaries, from lower Bell's Canyon reservoir to headwaters	1C	2B 3A	
Little Willow Creek and tributaries, from Draper Irrigation Company diversion to headwaters	1C	2B 3A	
Big Willow Creek and tributaries, from Draper Irrigation Company diversion to headwaters	1C	2B 3A	
South Fork of Dry Creek and tributaries, from Draper Irrigation Company diversion to headwaters	1C	2B 3A	
All permanent streams on east slope of Oquirrh Mountains (Coon, Barney's, Bingham, Butterfield, and Rose Creeks)		2B	3D
4			
Kersey Creek from confluence of C-7 Ditch to headwaters		2B	3D
* Site specific criteria for dissolved oxygen.			See Table
2.14.5.			

b. Provo River Drainage

TABLE

Provo River and tributaries, from Utah Lake to Murdock diversion			2B 3A
4			
Provo River and tributaries, from Murdock Diversion to headwaters, except as listed below		1C	2B 3A
4			
Upper Falls drainage above Provo City diversion	1C	2B 3A	
Bridal Veil Falls drainage above Provo City diversion	1C	2B 3A	
Lost Creek and tributaries above Provo City diversion	1C	2B 3A	

c. Utah Lake Drainage

TABLE

Dry Creek and tributaries (above Alpine), from U.S. National Forest boundary to headwaters 4		2B	3A
American Fork Creek and tributaries, from diversion at mouth of American Fork Canyon to headwaters 4		2B	3A
Spring Creek and tributaries, from Utah Lake near Lehi to headwaters 4		2B	3A
Lindon Hollow Creek and tributaries, from Utah Lake to headwaters 4		2B	3B
Rock Canyon Creek and tributaries (East of Provo) from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Mill Race (except from Interstate Highway 15 to the Provo City WWTP discharge) and tributaries from Utah Lake to headwaters 4		2B	3B
Mill Race from Interstate Highway 15 to the Provo City wastewater treatment plant discharge 4		2B	3B
Spring Creek and tributaries from Utah Lake (Provo Bay) to 50 feet upstream from the east boundary of the Industrial Parkway Road Right-of-way 4		2B	3B
Tributary to Spring Creek (Utah County) which receives the Springville City WWTP effluent from confluence with Spring Creek to headwaters		2B	3D

4

Spring Creek and tributaries from
50 feet upstream from the east
boundary of the Industrial Parkway
Road right-of-way to the headwaters 2B 3A

4

Ironton Canal from Utah Lake
(Provo Bay) to the east boundary
of the Denver and Rio Grande
Western Railroad right-of-way 2B 3C

4

Ironton Canal from the east
boundary of the Denver and Rio
Grande Western Railroad
right-of-way to the point
of diversion from Spring Creek 2B 3A

4

Hobble Creek and tributaries,
from Utah Lake to headwaters 2B 3A

4

Dry Creek and tributaries from
Utah Lake (Provo Bay) to
Highway-US 89 2B
3E 4

Dry Creek and tributaries
from
Highway-US 89 to headwaters 2B 3A

4

Spanish Fork River and
tributaries, from Utah Lake to
diversion at Moark Junction 2B 3B 3D

4

Spanish Fork River and
tributaries, from diversion at
Moark Junction to headwaters 2B 3A

4

Benjamin Slough and
tributaries from Utah Lake to
headwaters, except as listed
below 2B 3B

4

Beer Creek (Utah County) from
4850 West (in NE1/4NE1/4 sec.
36, T.8 S., R.1 E.) to
headwaters 2B 3C

4		
Salt Creek, from Nephi diversion to headwaters		2B 3A
4		
Currant Creek, from mouth of Goshen Canyon to Mona Reservoir		2B 3A
4		
Burriston Creek, from Mona Reservoir to headwaters		2B 3A
4		
Peteetneet Creek and tributaries, from irrigation diversion above Maple Dell to headwaters		2B 3A
4		
Summit Creek and tributaries (above Santaquin), from U.S. National Forest boundary to headwaters		2B 3A
4		
All other permanent streams entering Utah Lake	2B	3B
4		

13.6 Sevier River Basin
a. Sevier River Drainage

TABLE

Sevier River and tributaries from Sevier Lake to Gunnison Bend Reservoir to U.S.National Forest boundary except as listed below	2B	3C
4		
Beaver River and tributaries from Minersville City to headwaters		2B 3A
4		
Little Creek and tributaries, From irrigation diversion to Headwaters		2B 3A
4		
Pinto Creek and tributaries, From Newcastle Reservoir to Headwaters		2B 3A
4		

Coal Creek and tributaries 4	2B 3A
Summit Creek and tributaries 4	2B 3A
Parowan Creek and tributaries 4	2B 3A
Tributaries to Sevier River from Sevier Lake to Gunnison Bend Reservoir from U.S. National Forest boundary to headwaters, including: 4	2B 3A
Pioneer Creek and tributaries, Millard County 4	2B 3A
Chalk Creek and tributaries, Millard County 4	2B 3A
Meadow Creek and tributaries, Millard County 4	2B 3A
Corn Creek and tributaries, Millard County 4	2B 3A
Sevier River and tributaries below U.S. National Forest boundary from Gunnison Bend Reservoir to Annabella Diversion except except as listed below 4	2B 3B
Oak Creek and tributaries, Millard County 4	2B 3A
Round Valley Creek and tributaries, Millard County 4	2B 3A
Judd Creek and tributaries, Juab County 4	2B 3A
Meadow Creek and tributaries, Juab County	2B 3A

4	Cherry Creek and tributaries Juab County	2B	3A
4			
3E 4	Tanner Creek and tributaries, Juab County		2B
4	Baker Hot Springs, Juab County	2B	3D
4	Chicken Creek and tributaries, Juab County		2B 3A
4	San Pitch River and tributaries, from confluence with Sevier River to Highway U-132 crossing except As listed below:	2B	3C 3D
4	Twelve Mile Creek (South Creek) and tributaries, from U.S. Forest Service boundary to headwaters		2B 3A
4	Six Mile Creek and tributaries, Sanpete County		2B 3A
4	Manti Creek (South Creek) and tributaries, from U.S. Forest Service boundary to headwaters		2B 3A
4	Ephraim Creek (Cottonwood Creek) and tributaries, from U.S. Forest Service to headwaters		2B 3A
4	Oak Creek and tributaries, from U.S. Forest Service boundary near Spring City to headwaters		2B 3A
4	Fountain Green Creek and tributaries, from U.S. Forest Service boundary to		

4	headwaters		2B	3A
4	San Pitch River and tributaries, from Highway U-132 crossing to headwaters		2B	3A
4	Tributaries to Sevier River from Gunnison Bend Reservoir to Annabelle Diversion from U.S. National Forest boundary to headwaters		2B	3A
4	Sevier River and tributaries, from Annabella diversion to headwaters		2B	3A
4	Monroe Creek and tributaries, from diversion to headwaters		2B	3A
4	Little Creek and tributaries, from irrigation diversion to headwaters		2B	3A
4	Pinto Creek and tributaries, from Newcastle Reservoir to headwaters		2B	3A
4	Coal Creek and tributaries		2B	3A
4	Summit Creek and tributaries		2B	3A
4	Parowan Creek and tributaries		2B	3A
4	Duck Creek and tributaries	1C	2B	3A

13.7 Great Salt Lake Basin
a. Western Great Salt Lake Drainage

TABLE

4	Grouse Creek and tributaries, Box Elder County		2B	3A
---	---	--	----	----

Muddy Creek and tributaries, Box Elder County 4	2B 3A
Dove Creek and tributaries, Box Elder County 4	2B 3A
Pine Creek and tributaries, Box Elder County 4	2B 3A
Rock Creek and tributaries, Box Elder County 4	2B 3A
Fisher Creek and tributaries, Box Elder County 4	2B 3A
Dunn Creek and tributaries, Box Elder County 4	2B 3A
Indian Creek and tributaries, Box Elder County 4	2B 3A
Tenmile Creek and tributaries, Box Elder County 4	2B 3A
Curlew (Deep) Creek, Box Elder County 4	2B 3A
Blue Creek and tributaries, from Great Salt Lake to Blue Creek Reservoir 4	2B 3D
Blue Creek and tributaries, from Blue Creek Reservoir to headwaters 4	2B 3B
All perennial streams on the east slope of the Pilot Mountain Range 4	1C 2B 3A
Donner Creek and tributaries, from irrigation diversion to Utah-Nevada state line	2B 3A

4

Bettridge Creek and tributaries,
from irrigation diversion to
Utah-Nevada state line 2B 3A
4

North Willow Creek and
tributaries, Tooele County 2B 3A
4

South Willow Creek and
tributaries, Tooele County 2B 3A
4

Hickman Creek and tributaries,
Tooele County 2B 3A
4

Barlow Creek and tributaries,
Tooele County 2B 3A
4

Clover Creek and tributaries,
Tooele County 2B 3A
4

Faust Creek and tributaries,
Tooele County 2B 3A
4

Vernon Creek and tributaries,
Tooele County 2B 3A
4

Ophir Creek and tributaries,
Tooele County 2B 3A
4

Soldier Creek and Tributaries
from the Drinking Water Treatment
Facility Headwaters, Tooele
County 1C 2B 3A
4

Settlement Canyon Creek and
tributaries, Tooele County 2B 3A
4

Middle Canyon Creek and
tributaries, Tooele County 2B 3A
4

Tank Wash and tributaries,

Tooele County 4		2B 3A
Basin Creek and tributaries, Juab and Tooele Counties 4		2B 3A
Thomas Creek and tributaries, Juab County 4		2B 3A
Indian Farm Creek and tributaries, Juab County 4		2B 3A
Cottonwood Creek and tributaries, Juab County 4		2B 3A
Red Cedar Creek and tributaries, Juab County 4		2B 3A
Granite Creek and tributaries, Juab County 4		2B 3A
Trout Creek and tributaries, Juab County 4		2B 3A
Birch Creek and tributaries, Juab County 4		2B 3A
Deep Creek and tributaries, from Rock Spring Creek to headwaters, Juab and Tooele Counties 4		2B 3A
Cold Spring, Juab County	2B	3C 3D
Cane Spring, Juab County	2B	3C 3D
Lake Creek, from Garrison (Pruess) Reservoir to Nevada state line 4		2B 3A
Snake Creek and tributaries, Millard County 4	2B	3B

Salt Marsh Spring Complex, Millard County	2B	3A	
Twin Springs, Millard County	2B		3B
Tule Spring, Millard County	2B		3C 3D
Coyote Spring Complex, Millard County	2B		3C 3D
Hamblin Valley Wash and tributaries, from Nevada state line to headwaters (Beaver and Iron Counties) 4	2B		3D
Indian Creek and tributaries, Beaver County, from Indian Creek Reservoir to headwaters 4			2B 3A
Shoal Creek and tributaries, Iron County 4			2B 3A

b. Farmington Bay Drainage

TABLE

Corbett Creek and tributaries, from Highway to headwaters 4			2B 3A
Kays Creek and tributaries, from Farmington Bay to U.S. National Forest boundary 4		2B	3B
North Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters 4			2B 3A
Middle Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C		2B 3A
South Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C		2B 3A
Snow Creek and tributaries 4	2B		3C
Holmes Creek and tributaries, from Farmington Bay to U.S. National Forest boundary 4	2B		3B

Holmes Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Baer Creek and tributaries, from Farmington Bay to Interstate Highway 15 4	2B		3C
Baer Creek and tributaries, from Interstate Highway 15 to Highway US-89 4		2B	3B
Baer Creek and tributaries, from Highway US-89 to headwaters 4	1C	2B	3A
Shepard Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Farmington Creek and tributaries, from Farmington Bay Waterfowl Management Area to U.S. National Forest boundary 4		2B	3B
Farmington Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Rudd Creek and tributaries, from Davis aqueduct to headwaters 4		2B	3A
Steed Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Davis Creek and tributaries, from Highway US-89 to headwaters 4		2B	3A
Lone Pine Creek and tributaries, from Highway US-89 to headwaters 4		2B	3A
Ricks Creek and tributaries, from Highway I-15 to headwaters 4	1C	2B	3A
Barnard Creek and tributaries, from Highway US-89 to headwaters 4		2B	3A
Parrish Creek and tributaries, from Davis Aqueduct to headwaters 4		2B	3A
Deuel Creek and tributaries, (Centerville Canyon) from Davis Aqueduct to headwaters 4		2B	3A

Stone Creek and tributaries, from Farmington Bay Waterfowl Management Area to U.S. National Forest boundary 4		2B	3A
Stone Creek and tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
Barton Creek and tributaries, from U.S. National Forest boundary to headwaters 4		2B	3A
Mill Creek (Davis County) and tributaries, from confluence with State Canal to U.S. National Forest boundary 4		2B	3B
Mill Creek (Davis County) and tributaries, from U.S. National Forest boundary to headwaters 4	1C	2B	3A
North Canyon Creek and tributaries, from U.S. National Forest boundary to headwaters 4		2B	3A
Howard Slough 4	2B		3C
Hooper Slough 4	2B		3C
Willard Slough 4	2B		3C
Willard Creek to Headwaters 4	1C	2B	3A
Chicken Creek to Headwaters 4	1C	2B	3A
Cold Water Creek to Headwaters 4	1C	2B	3A
One House Creek to Headwaters 4	1C	2B	3A
Garner Creek to Headwaters 4	1C	2B	3A

13.8 Snake River Basin
a. Raft River Drainage (Box Elder County)

TABLE

Raft River and tributaries 4		2B	3A
Clear Creek and tributaries, from Utah-Idaho state line to			

headwaters 4		2B	3A
Onemile Creek and tributaries, from Utah-Idaho state line to headwaters 4		2B	3A
George Creek and tributaries, from Utah-Idaho state line to headwaters 4		2B	3A
Johnson Creek and tributaries, from Utah-Idaho state line to headwaters 4		2B	3A
Birch Creek and tributaries, from state line to headwaters 4		2B	3A
Pole Creek and tributaries, from state line to headwaters 4		2B	3A
Goose Creek and tributaries 4		2B	3A
Hardesty Creek and tributaries, from state line to headwaters 4		2B	3A
Meadow Creek and tributaries, from state line to headwaters 4		2B	3A
13.9 All irrigation canals and ditches statewide, except as otherwise designated 3E 4			2B
13.10 All drainage canals and ditches statewide, except as otherwise designated 3E			2B
13.11 National Wildlife Refuges and State Waterfowl Management Areas			

TABLE

Bear River National Wildlife Refuge, Box Elder County	2B	3B	3D
--	----	----	----

Brown's Park Waterfowl Management Area, Daggett County	2B	3A	3D
Clear Lake Waterfowl Management Area, Millard County	2B		3C 3D
Desert Lake Waterfowl Management Area, Emery County	2B		3C 3D
Farmington Bay Waterfowl Management Area, Davis and Salt Lake Counties	2B		3C 3D
Fish Springs National Wildlife Refuge, Juab County	2B		3C 3D
Harold Crane Waterfowl Management Area, Box Elder County	2B		3C 3D
Howard Slough Waterfowl Management Area, Weber County	2B		3C 3D
Locomotive Springs Waterfowl Management Area, Box Elder County	2B	3B	3D
Ogden Bay Waterfowl Management Area, Weber County	2B		3C 3D
Ouray National Wildlife Refuge, Uintah County	2B	3B	3D
Powell Slough Waterfowl Management Area, Utah County	2B		3C 3D
Public Shooting Grounds Waterfowl Management Area, Box Elder County	2B		3C 3D
Salt Creek Waterfowl Management Area, Box Elder County	2B		3C 3D
Stewart Lake Waterfowl Management Area, Uintah County	2B	3B	3D
Timpie Springs Waterfowl Management Area, Tooele County	2B	3B	3D

13.12 Lakes and Reservoirs (20 Acres or Larger). All lakes not listed in 13.12 are assigned by default to the classification of the stream with which they are associated.

a. Beaver County

TABLE

Anderson Meadow Reservoir 4			2B	3A
Manderfield Reservoir 4			2B	3A
LaBaron Reservoir 4			2B	3A
Kent's Lake	2B	3A		4
Minersville Reservoir 4			2B	3A
Puffer Lake			2B	3A
Three Creeks Reservoir 4			2B	3A

b. Box Elder County

TABLE

Cutler Reservoir (including portion in Cache County) 4			2B	3B	3D
Etna Reservoir 4				2B	3A
Lynn Reservoir 4				2B	3A
Mantua Reservoir 4				2B	3A
Willard Bay Reservoir 4	1C	2A	2B	3B	3D

c. Cache County

TABLE

Hyrum Reservoir 4			2A	2B	3A	**
Newton Reservoir 4					2B	3A
Porcupine Reservoir 4					2B	3A
Pelican Pond 4				2B		3B

Tony Grove Lake 2B 3A
4

d. Carbon County

TABLE

Grassy Trail Creek Reservoir 1C 2B 3A
4

Olsen Pond 2B 3B
4

Scotfield Reservoir 1C 2B 3A
4

e. Daggett County

TABLE

Browne Reservoir 2B 3A
4

Daggett Lake 2B 3A
4

Flaming Gorge Reservoir (Utah
portion) 1C 2A 2B 3A
4

Long Park Reservoir 1C 2B 3A
4

Sheep Creek Reservoir 2B 3A
4

Spirit Lake 2B 3A
4

Upper Potter Lake 2B 3A
4

f. Davis County

TABLE

Farmington Ponds 2B 3A
4

Kaysville Highway Ponds 2B 3A
4

Holmes Creek Reservoir 2B 3B
4

g. Duchesne County

TABLE

Allred Lake 4		2B 3A
Atwine Lake 4		2B 3A
Atwood Lake 4		2B 3A
Betsy Lake 4		2B 3A
Big Sandwash Reservoir 4	1C	2B 3A
Bluebell Lake 4		2B 3A
Brown Duck Reservoir 4		2B 3A
Butterfly Lake 4		2B 3A
Cedarview Reservoir 4		2B 3A
Chain Lake #1 4		2B 3A
Chepeta Lake 4		2B 3A
Clements Reservoir 4		2B 3A
Cleveland Lake 4		2B 3A
Cliff Lake 4		2B 3A
Continent Lake 4		2B 3A
Crater Lake 4		2B 3A
Crescent Lake		2B 3A

4		
Daynes Lake 4		2B 3A
Dean Lake 4		2B 3A
Doll Lake 4		2B 3A
Drift Lake 4		2B 3A
Elbow Lake 4		2B 3A
Farmer's Lake 4		2B 3A
Fern Lake 4		2B 3A
Fish Hatchery Lake 4		2B 3A
Five Point Reservoir 4		2B 3A
Fox Lake Reservoir 4		2B 3A
Governor's Lake 4		2B 3A
Granddaddy Lake 4		2B 3A
Hoover Lake 4		2B 3A
Island Lake	2B 3A	4
Jean Lake 4		2B 3A
Jordan Lake 4		2B 3A
Kidney Lake 4		2B 3A
Kidney Lake West 4		2B 3A

Lily Lake 4		2B 3A
Midview Reservoir (Lake Boreham) 4		2B 3B
Milk Reservoir 4		2B 3A
Mirror Lake 4		2B 3A
Mohawk Lake 4		2B 3A
Moon Lake 4	1C	2A 2B 3A
North Star Lake 4		2B 3A
Palisade Lake 4		2B 3A
Pine Island Lake 4		2B 3A
Pinto Lake 4		2B 3A
Pole Creek Lake 4		2B 3A
Potter's Lake 4		2B 3A
Powell Lake 4		2B 3A
Pyramid Lake 4		2A 2B 3A
Queant Lake 4		2B 3A
Rainbow Lake 4		2B 3A
Red Creek Reservoir 4		2B 3A
Rudolph Lake 4		2B 3A

Scout Lake 4	2A 2B 3A
Spider Lake 4	2B 3A
Spirit Lake 4	2B 3A
Starvation Reservoir 4	1C 2A 2B 3A
Superior Lake 4	2B 3A
Swasey Hole Reservoir 4	2B 3A
Taylor Lake 4	2B 3A
Thompson Lake 4	2B 3A
Timothy Reservoir #1 4	2B 3A
Timothy Reservoir #6 4	2B 3A
Timothy Reservoir #7 4	2B 3A
Twin Pots Reservoir 4	1C 2B 3A
Upper Stillwater Reservoir 4	1C 2B 3A
X - 24 Lake 4	2B 3A

h. Emery County

TABLE

Cleveland Reservoir 4	2B 3A
Electric Lake 4	2B 3A
Huntington Reservoir	2B 3A

4

Huntington North Reservoir
4

2A 2B 3B

Joe's Valley Reservoir
4

2A 2B 3A

Millsite Reservoir
4

1C 2A 2B 3A

i. Garfield County

TABLE

Barney Lake
4

2B 3A

Cyclone Lake
4

2B 3A

Deer Lake
4

2B 3A

Jacob's Valley Reservoir
4

2B 3C 3D

Lower Bowns Reservoir
4

2B 3A

North Creek Reservoir
4

2B 3A

Panguitch Lake
4

2B 3A

Pine Lake
4

2B 3A

Oak Creek Reservoir (Upper Bowns)
4

2B 3A

Pleasant Lake
4

2B 3A

Posey Lake
4

2B 3A

Purple Lake
4

2B 3A

Raft Lake
4

2B 3A

Row Lake #3 4	2B 3A
Row Lake #7 4	2B 3A
Spectacle Reservoir 4	2B 3A
Tropic Reservoir 4	2B 3A
West Deer Lake 4	2B 3A
Wide Hollow Reservoir 4	2B 3A

j. Iron County

TABLE

Newcastle Reservoir 4	2B 3A
Red Creek Reservoir 4	2B 3A
Yankee Meadow Reservoir 4	2B 3A

k. Juab County

TABLE

Chicken Creek Reservoir 4	2B	3C 3D
Mona Reservoir 4	2B	3B
Sevier Bridge (Yuba) Reservoir 4	2A 2B	3B

l. Kane County

TABLE

Navajo Lake 4	2B 3A
------------------	-------

m. Millard County

TABLE

DMAD Reservoir 4	2B	3B
Fools Creek Reservoir 4	2B	3C 3D
Garrison Reservoir (Pruess Lake) 4	2B	3B
Gunnison Bend Reservoir 4	2B	3B

n. Morgan County

TABLE

East Canyon Reservoir 4	1C	2A	2B	3A
Lost Creek Reservoir 4	1C	2B	3A	

o. Piute County

TABLE

Barney Reservoir 4	2B	3A
Lower Boxcreek Reservoir 4	2B	3A
Manning Meadow Reservoir 4	2B	3A
Otter Creek Reservoir 4	2B	3A
Piute Reservoir 4	2B	3A
Upper Boxcreek Reservoir 4	2B	3A

p. Rich County

TABLE

Bear Lake (Utah portion) 4	2A	2B	3A
Birch Creek Reservoir 4	2B	3A	

Little Creek Reservoir 2B 3A
4

Woodruff Creek Reservoir 2B 3A
4

q. Salt Lake County

TABLE

Decker Lake 2B 3B 3D
4

Lake Mary 1C 2B 3A

Little Dell Reservoir 1C 2B 3A

Mountain Dell Reservoir 1C 2B 3A

r. San Juan County

TABLE

Blanding Reservoir #4 1C 2B 3A
4

Dark Canyon Lake 1C 2B 3A
4

Ken's Lake 2B 3A**
4

Lake Powell (Utah portion) 1C 2A 2B 3B
4

Lloyd's Lake 1C 2B 3A
4

Monticello Lake 2B 3A
4

Recapture Reservoir 2B 3A
4

s. Sanpete County

TABLE

Duck Fork Reservoir 2B 3A
4

Fairview Lakes 1C 2B 3A
4

Ferron Reservoir 4		2B	3A
Lower Gooseberry Reservoir 4	1C	2B	3A
Gunnison Reservoir 4	2B		3C
Island Lake 4		2B	3A
Miller Flat Reservoir 4		2B	3A
Ninemile Reservoir 4		2B	3A
Palisade Reservoir 4		2A	2B 3A
Rolfson Reservoir 4	2B		3C
Twin Lakes 4		2B	3A
Willow Lake 4		2B	3A

t. Sevier County

TABLE

Annabella Reservoir 4		2B	3A
Big Lake 4		2B	3A
Farnsworth Lake 4		2B	3A
Fish Lake 4		2B	3A
Forsythe Reservoir 4		2B	3A
Johnson Valley Reservoir 4		2B	3A
Koosharem Reservoir		2B	3A

4		
Lost Creek Reservoir		2B 3A
4		
Redmond Lake		2B 3B
4		
Rex Reservoir		2B 3A
4		
Salina Reservoir		2B 3A
4		
Sheep Valley Reservoir		2B 3A
4		
u. Summit County		

TABLE

Abes Lake		2B 3A
4		
Alexander Lake		2B 3A
4		
Amethyst Lake		2B 3A
4		
Beaver Lake		2B 3A
4		
Beaver Meadow Reservoir		2B 3A
4		
Big Elk Reservoir		2B 3A
4		
Blanchard Lake		2B 3A
4		
Bridger Lake		2B 3A
4		
China Lake		2B 3A
4		
Cliff Lake		2B 3A
4		
Clyde Lake		2B 3A
4		

Coffin Lake 4	2B 3A
Cuberant Lake 4	2B 3A
East Red Castle Lake 4	2B 3A
Echo Reservoir 4	1C 2A 2B 3A
Fish Lake 4	2B 3A
Fish Reservoir 4	2B 3A
Haystack Reservoir #1 4	2B 3A
Henry's Fork Reservoir 4	2B 3A
Hoop Lake 4	2B 3A
Island Lake 4	2B 3A
Island Reservoir 4	2B 3A
Jesson Lake 4	2B 3A
Kamas Lake 4	2B 3A
Lily Lake 4	2B 3A
Lost Reservoir 4	2B 3A
Lower Red Castle Lake 4	2B 3A
Lyman Lake 4	2A 2B 3A
Marsh Lake 4	2B 3A

Marshall Lake 4	2B 3A
McPheters Lake 4	2B 3A
Meadow Reservoir 4	2B 3A
Meeks Cabin Reservoir 4	2B 3A
Notch Mountain Reservoir 4	2B 3A
Red Castle Lake 4	2B 3A
Rockport Reservoir 4	1C 2A 2B 3A
Ryder Lake 4	2B 3A
Sand Reservoir 4	2B 3A
Scow Lake 4	2B 3A
Smith Moorehouse Reservoir 4	1C 2B 3A
Star Lake 4	2B 3A
Stateline Reservoir 4	2B 3A
Tamarack Lake 4	2B 3A
Trial Lake 4	1C 2B 3A
Upper Lyman Lake 4	2B 3A
Upper Red Castle 4	2B 3A
Wall Lake Reservoir 4	2B 3A

Washington Reservoir 2B 3A
4

Whitney Reservoir 2B 3A
4

v. Tooele County

TABLE

Blue Lake 2B 3B
4

Clear Lake 2B 3B
4

Grantsville Reservoir 2B 3A
4

Horseshoe Lake 2B 3B
4

Kanaka Lake 2B 3B
4

Rush Lake 2B 3B

Settlement Canyon Reservoir 2B 3A
4

Stansbury Lake 2B 3B
4

Vernon Reservoir 2B 3A
4

w. Uintah County

TABLE

Ashley Twin Lakes (Ashley Creek) 1C 2B 3A
4

Bottle Hollow Reservoir 2B 3A
4

Brough Reservoir 2B 3A
4

Calder Reservoir 2B 3A
4

Crouse Reservoir 2B 3A
4

East Park Reservoir 4	2B 3A
Fish Lake 4	2B 3A
Goose Lake #2 4	2B 3A
Matt Warner Reservoir 4	2B 3A
Oaks Park Reservoir 4	2B 3A
Paradise Park Reservoir 4	2B 3A
Pelican Lake 4	2B 3B
Red Fleet Reservoir 4	1C 2A 2B 3A
Steinaker Reservoir 4	1C 2A 2B 3A
Towave Reservoir 4	2B 3A
Weaver Reservoir 4	2B 3A
Whiterocks Lake 4	2B 3A
Workman Lake 4	2B 3A

x. Utah County

TABLE

Salem Pond 4	2A 3A
Silver Flat Lake Reservoir 4	2B 3A
Tibble Fork Reservoir 4	2B 3A
Utah Lake	2B 3B 3D

4

y. Wasatch County

TABLE

Currant Creek Reservoir 4	1C	2B	3A
Deer Creek Reservoir 4	1C	2A	2B 3A
Jordanelle Reservoir 4	1C	2A	3A
Mill Hollow Reservoir 4		2B	3A
Strawberry Reservoir 4	1C	2B	3A

z. Washington County

TABLE

Baker Dam Reservoir 4		2B	3A
Gunlock Reservoir 4	1C	2A	2B 3B
Ivins Reservoir 4		2B	3B
Kolob Reservoir 4		2B	3A
Lower Enterprise Reservoir 4		2B	3A
Quail Creek Reservoir 4	1C	2A	2B 3B
Upper Enterprise Reservoir 4		2B	3A

aa. Wayne County

TABLE

Blind Lake 4		2B	3A
Cook Lake		2B	3A

4				
Donkey Reservoir			2B	3A
4				
Fish Creek Reservoir			2B	3A
4				
Mill Meadow Reservoir			2B	3A
4				
Raft Lake			2B	3A
4				

bb. Weber County

TABLE

Causey Reservoir			2B	3A
4				
Pineview Reservoir		1C	2A	2B 3A**
4				

13.13 Great Salt Lake
 ** For site specific temperature criteria See Table 2.14.2 Footnote 3.

TABLE

Box Elder, Davis, Salt Lake, Tooele, and Weber County				
5				

13.14 Unclassified Waters
 All waters not specifically classified are presumptively classified as 2B, 3D.

R317-2-14. Numeric Criteria.

TABLE 2.14.1
 NUMERIC CRITERIA FOR DOMESTIC,
 RECREATION, AND AGRICULTURAL USES

Parameter	Domestic Source	Recreation and Aesthetics		Agri-culture
	1C	2A	2B	4
BACTERIOLOGICAL (30-DAY GEOMETRIC MEAN) (NO.)/100 ML)	(7)			
E. coli	206	126	206	
MAXIMUM (NO.)/100 ML)	(7)			

E. coli 940 576 940

PHYSICAL

pH (RANGE)	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0
Turbidity Increase (NTU)		10	10	

METALS (DISSOLVED, MAXIMUM
MG/L) (2)

Arsenic	0.01		0.1
Barium	1.0		
Beryllium	<0.004		
Cadmium	0.01		0.01
Chromium	0.05		0.10
Copper			0.2
Lead	0.015		0.1
Mercury	0.002		
Selenium	0.05		0.05
Silver	0.05		

INORGANICS
(MAXIMUM MG/L)

Bromate	0.01		
Boron			0.75
Chlorite	<1.0		
Fluoride (3)	1.4-2.4		
Nitrates as N	10		
Total Dissolved Solids (4)	Irrigation		1200
	Stock Watering		2000

RADIOLOGICAL
(MAXIMUM pCi/L)

Gross Alpha	15		15
Gross Beta	4 mrem/yr		
Radium 226, 228 (Combined)	5		
Strontium 90	8		
Tritium	20000		
Uranium	30		

ORGANICS
(MAXIMUM UG/L)

Chlorophenoxy Herbicides			
2,4-D	70		
2,4,5-TP	10		
Methoxychlor	40		

POLLUTION

INDICATORS (5)

BOD (MG/L)		5	5	5
Nitrate as N (MG/L)	4	4		
Total Phosphorus as P (MG/L)(6)		0.05	0.05	

FOOTNOTES:

(1) Reserved

(2) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by atomic absorption or inductively coupled plasma (ICP) spectrophotometry.

(3) Maximum concentration varies according to the daily maximum mean air temperature.

TEMP (C)	MG/L
12.0	2.4
12.1-14.6	2.2
14.7-17.6	2.0
17.7-21.4	1.8
21.5-26.2	1.6
26.3-32.5	1.4

(4) Total dissolved solids (TDS) limits may be adjusted if such adjustment does not impair the designated beneficial use of the receiving water. The total dissolved solids (TDS) standards shall be at background where it can be shown that natural or un-alterable conditions prevent its attainment. In such cases rulemaking will be undertaken to modify the standard accordingly.

Site Specific Standards for Total Dissolved Solids (TDS)

Castle Creek from confluence with the Colorado River to Seventh Day
Adventist Diversion: 1,800 mg/l;

Cottonwood Creek from the confluence with Huntington Creek to I-57:
3,500 mg/l;

Ferron Creek from the confluence with San Rafael River to Highway
10: 3,500 mg/l;

Gordon Creek from the confluence with Price River to

headwaters:
3,800 mg/l;

Huntington Creek and tributaries from the confluence with
Cottonwood
Creek to U-10: 4,800 mg/l;

Ivie Creek and its tributaries from the confluence with Muddy
Creek
to U-10: 2,600 mg/l;

Lost Creek from the confluence with Sevier River to U.S.
Forest
Service Boundary: 4,600 mg/l;

Muddy Creek and tributaries from the confluence with
Quitichupah
Creek to U-10: 2,600 mg/l;

Muddy Creek from confluence with Fremont River to confluence
with
Quitichupah Creek: 5,800 mg/l;

North Creek from the confluence with Virgin River to
headwaters:
2,035 mg/l;

Onion Creek from the confluence with Colorado River to road
crossing
above Stinking Springs: 3000 mg/l;

Brine Creek-Petersen Creek, from the confluence with the
Sevier
River to U-119 Crossing: 9,700 mg/l;

Pinnacle Creek from the confluence with Price River to
headwaters:
3,800 mg/l;

Price River and tributaries from the confluence with Coal
Creek to
Carbon Canal Diversion: 1,700 mg/l;

Price River and tributaries from the confluence with Green
River to
confluence with Soldier Creek: 3,000 mg/l;

Quitichupah Creek from the confluence with Ivie Creek to U-10:
2,600 mg/l;
Rock Canyon Creek from the confluence with Cottonwood Creek to
headwaters: 3,500 mg/l;

San Pitch River from below Gunnison Reservoir to the Sevier
River:

2,400 mg/l;

San Rafael River from the confluence with the Green River to Buckhorn Crossing: 4,100 mg/l;

San Rafael River from the Buckhorn Crossing to the confluence with Huntington Creek and Cottonwood Creek: 3,500 mg/l;

Sevier River between Gunnison Bend Reservoir and DMAD Reservoir:
1,725 mg/l;

Sevier River from Gunnison Bend Reservoir to Clear Lake: 3,370 mg/l;

Virgin River from the Utah/Arizona border to Pah Tempe Springs:
2,360 mg/l

(5) Investigations should be conducted to develop more information where these pollution indicator levels are exceeded.

(6) Total Phosphorus as P (mg/l) indicator for lakes and reservoirs shall be 0.025.

(7) Where the criteria are exceeded and there is a reasonable basis for concluding that the indicator bacteria are primarily from natural sources (wildlife), e.g., in National Wildlife Refuges and State Waterfowl Management Areas, the criteria may be considered attained. Exceedences of bacteriological numeric criteria from nonhuman nonpoint sources will generally be addressed through appropriate Federal, State, and local nonpoint source programs.

TABLE 2.14.2
NUMERIC CRITERIA FOR AQUATIC WILDLIFE

Parameter	Aquatic Wildlife			
	3A	3B	3C	3D
PHYSICAL				
Total Dissolved Gases	(1)	(1)		
Minimum Dissolved Oxygen (MG/L) (2)				
30 Day Average	6.5	5.5	5.0	5.0
7 Day Average	9.5/5.0	6.0/4.0		
1 Day Average	8.0/4.0	5.0/3.0	3.0	3.0
Max. Temperature(C)(3)	20	27	27	
Max. Temperature Change (C)(3)	2	4	4	
pH (Range)	6.5-9.0	6.5-9.0	6.5-9.0	6.5-9.0
Turbidity Increase (NTU)	10	10	15	15

METALS (4)				
(DISSOLVED,				
UG/L) (5)				
Aluminum				
4 Day Average (6)	87	87	87	87
1 Hour Average	750	750	750	750
Arsenic (Trivalent)				
4 Day Average	150	150	150	150
1 Hour Average	340	340	340	340
Cadmium (7)				
4 Day Average	0.25	0.25	0.25	0.25
1 Hour Average	2.0	2.0	2.0	2.0
Chromium				
(Hexavalent)				
4 Day Average	11	11	11	11
1 Hour Average	16	16	16	16
Chromium				
(Trivalent) (7)				
4 Day Average	74	74	74	74
1 Hour Average	570	570	570	570
Copper (7)				
4 Day Average	9	9	9	9
1 Hour Average	13	13	13	13
Cyanide (Free)				
4 Day Average	5.2	5.2	5.2	
1 Hour Average	22	22	22	22
Iron (Maximum)				
4 Day Average	1000	1000	1000	1000
Lead (7)				
4 Day Average	2.5	2.5	2.5	2.5
1 Hour Average	65	65	65	65
Mercury				
4 Day Average	0.012	0.012	0.012	0.012
1 Hour Average	2.4	2.4	2.4	2.4
Nickel (7)				
4 Day Average	52	52	52	52
1 Hour Average	468	468	468	468
Selenium				
4 Day Average	4.6	4.6	4.6	4.6
1 Hour Average	18.4	18.4	18.4	18.4
Silver				
1 Hour Average (7)	1.6	1.6	1.6	1.6
Zinc (7)				
4 Day Average	120	120	120	120
1 Hour Average	120	120	120	120
INORGANICS				
(MG/L) (4)				
Total Ammonia as N (9)				
30 Day Average	(9a)	(9a)		
1 Hour Average	(9b)	(9b)	(9b)	(9b)
Chlorine (Total				
Residual)				
4 Day Average	0.011	0.011	0.011	0.011
1 Hour Average	0.019	0.019	0.019	0.019
Hydrogen Sulfide (13)				

(Undissociated, Max. UG/L)	2.0	2.0	2.0	2.0
Phenol (Maximum)	0.01	0.01	0.01	0.01
RADIOLOGICAL				
(MAXIMUM pCi/L)				
Gross Alpha (10)	15	15	15	15
ORGANICS (UG/L) (4)				
Aldrin				
1 Hour Average	1.5	1.5	1.5	1.5
Chlordane				
4 Day Average	0.0043	0.0043	0.0043	0.0043
1 Hour Average	1.2	1.2	1.2	1.2
4,4' -DDT				
4 Day Average	0.0010	0.0010	0.0010	0.0010
1 Hour Average	0.55	0.55	0.55	0.55
Dieldrin				
4 Day Average	0.056	0.056	0.056	0.056
1 Hour Average	0.24	0.24	0.24	0.24
Alpha-Endosulfan				
4 Day Average	0.056	0.056	0.056	0.056
1 Hour Average	0.11	0.11	0.11	0.11
beta-Endosulfan				
4 Day Average	0.056	0.056	0.056	0.056
1 Day Average	0.11	0.11	0.11	0.11
Endrin				
4 Day Average	0.036	0.036	0.036	0.036
1 Hour Average	0.086	0.086	0.086	0.086
Heptachlor				
4 Day Average	0.0038	0.0038	0.0038	0.0038
1 Hour Average	0.26	0.26	0.26	0.26
Heptachlor epoxide				
4 Day Average	0.0038	0.0038	0.0038	0.0038
1 Hour Average	0.26	0.26	0.26	0.26
Hexachlorocyclohexane (Lindane)				
4 Day Average	0.08	0.08	0.08	0.08
1 Hour Average	1.0	1.0	1.0	1.0
Methoxychlor (Maximum)	0.03	0.03	0.03	0.03
Mirex (Maximum)	0.001	0.001	0.001	0.001
Parathion				
4 Day Average	0.013	0.013	0.013	0.013
1 Hour Average	0.066	0.066	0.066	0.066
PCB's				
4 Day Average	0.014	0.014	0.014	0.014
Pentachlorophenol (11)				
4 Day Average	15	15	15	15
1 Hour Average	19	19	19	19
Toxaphene				
4 Day Average	0.0002	0.0002	0.0002	0.0002
1 Hour Average	0.73	0.73	0.73	0.73
POLLUTION				
INDICATORS (11)				

Gross Beta (pCi/L)	50	50	50	50
BOD (MG/L)	5	5	5	5
Nitrate as N (MG/L)	4	4	4	
Total Phosphorus as P (MG/L) (12)	0.05	0.05		

FOOTNOTES:

- (1) Not to exceed 110% of saturation.
- (2) These limits are not applicable to lower water levels in deep impoundments. First number in column is for when early life stages are present, second number is for when all other life stages present.
- (3) The temperature standard shall be at background where it can be shown that natural or un-alterable conditions prevent its attainment. In such cases rulemaking will be undertaken to modify the standard accordingly.
 Site Specific Standards for Temperature
 Ken's Lake: From June 1st - September 20th, 27 degrees C.
- (4) Where criteria are listed as 4-day average and 1-hour average concentrations, these concentrations should not be exceeded more often than once every three years on the average.
- (5) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by atomic absorption spectrophotometry or inductively coupled plasma (ICP).
- (6) The criterion for aluminum will be implemented as follows:
 Where the pH is equal to or greater than 7.0 and the hardness is equal to or greater than 50 ppm as CaCO₃ in the receiving water after mixing, the 87 ug/l chronic criterion (expressed as total recoverable) will not apply, and aluminum will be regulated based on compliance with the 750 ug/l acute aluminum criterion (expressed as total recoverable).
- (7) Hardness dependent criteria. 100 mg/l used.
 Conversion factors for ratio of total recoverable metals to dissolved metals must also be applied. In waters with a hardness greater than 400 mg/l as CaCO₃, calculations will assume a hardness of 400 mg/l as CaCO₃. See Table 2.14.3 for complete equations for hardness and conversion factors.
- (8) Reserved
- (9) The following equations are used to calculate Ammonia criteria concentrations:
 (9a) The thirty-day average concentration of total ammonia nitrogen (in mg/l as N) does not exceed, more than once every three years on the average, the chronic criterion calculated using the following equations.
 Fish Early Life Stages are Present:

$$\text{mg/l as N (Chronic)} = ((0.0577/1+10^{7.688-\text{pH}}) + (2.487/1+10^{\text{pH}-7.688}))$$

$$* \text{ MIN } (2.85, 1.45*10^{0.028*(25-T)})$$
 Fish Early Life Stages are Absent:

$$\text{mg/l as N (Chronic)} = ((0.0577/1+10^{7.688-\text{pH}}) + (2.487/1+10^{\text{pH}-7.688}))$$

$$* 1.45*10^{0.028*(25-\text{MAX}(T,7))}$$

(9b) The one-hour average concentration of total ammonia nitrogen (in mg/l as N) does not exceed, more than once every three years on the average the acute criterion calculated using the following equations.

Class 3A:

$$\text{mg/l as N (Acute)} = (0.275/(1+10^{7.204-\text{pH}})) + (39.0/1+10^{\text{pH}-7.204})$$

Class 3B, 3C, 3D:

$$\text{mg/l as N (Acute)} = 0.411/(1+10^{7.204-\text{pH}}) + (58.4/(1+10^{\text{pH}-7.204}))$$

In addition, the highest four-day average within the 30-day period should not exceed 2.5 times the chronic criterion. The "Fish Early Life Stages are Present" 30-day average total ammonia criterion will be applied by default unless it is determined by the Division, on a site-specific basis, that it is appropriate to apply the "Fish Early Life Stages are Absent" 30-day average criterion for all or some portion of the year. At a minimum, the "Fish Early Life Stages are Present" criterion will apply from the beginning of spawning through the end of the early life stages. Early life stages include the pre-hatch embryonic stage, the post-hatch free embryo or yolk-sac fry stage, and the larval stage for the species of fish expected to occur at the site. The division will consult with the Division of Wildlife Resources in making such determinations. The Division will maintain information regarding the waterbodies and time periods where application of the "Early Life Stages are Absent" criterion is determined to be appropriate.

(10) Investigation should be conducted to develop more information where these levels are exceeded.

(11) pH dependent criteria. pH 7.8 used in table. See Table 2.14.4 for equation.

(12) Total Phosphorus as P (mg/l) indicator for lakes and reservoirs shall be 0.025.

(13) Formula to convert dissolved sulfide to un-disassociated

hydrogen sulfide is: $\text{H}_2\text{S} = \text{Dissolved Sulfide} * e^{((-1.92 + \text{pH}) + 12.05)}$

TABLE
1-HOUR AVERAGE (ACUTE) CONCENTRATION OF
TOTAL AMMONIA AS N (MG/L)

pH	Class 3A	Class 3B, 3C, 3D
6.5	32.6	48.8
6.6	31.3	46.8
6.7	29.8	44.6
6.8	28.1	42.0
6.9	26.2	39.1
7.0	24.1	36.1
7.1	22.0	32.8
7.2	19.7	29.5
7.3	17.5	26.2
7.4	15.4	23.0

7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17
1.03									
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02
0.90									
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.88
0.77									
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.97	0.86	0.75
0.66									
8.3	1.52	1.52	1.39	1.22	1.07	0.94	0.83	0.73	0.64
0.56									
8.4	1.29	1.29	1.17	1.03	0.91	0.80	0.70	0.62	0.54
0.48									
8.5	1.09	1.09	0.99	0.87	0.76	0.67	0.59	0.52	0.46
0.40									
8.6	0.92	0.92	0.84	0.73	0.65	0.57	0.50	0.44	0.39
0.34									
8.7	0.78	0.78	0.71	0.62	0.55	0.48	0.42	0.37	0.33
0.29									
8.8	0.66	0.66	0.60	0.53	0.46	0.41	0.36	0.32	0.28
0.24									
8.9	0.56	0.56	0.51	0.45	0.40	0.35	0.31	0.27	0.24
0.21									
9.0	0.49	0.49	0.44	0.39	0.34	0.30	0.26	0.23	0.20
0.18									

TABLE
30-DAY AVERAGE (CHRONIC) CONCENTRATION OF
TOTAL AMMONIA AS N (MG/L)

pH	Fish Early Life Stages Absent								
	Temperature, C								
	0-7	8	9	10	11	12	13	14	16
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.36	6.89	
6.06									
6.6	10.7	10.1	9.37	9.37	8.79	8.24	7.72	7.24	
6.36									
6.7	10.5	9.99	9.20	8.62	8.08	7.58	7.11	6.66	
5.86									
6.8	10.2	9.81	8.98	8.42	7.90	7.40	6.94	6.51	
5.72									
6.9	9.93	9.31	8.73	8.19	7.68	7.20	6.75	6.33	
5.56									
7.0	9.60	9.00	8.43	7.91	7.41	6.95	6.52	6.11	
5.37									
7.1	9.20	8.63	8.09	7.58	7.11	6.67	6.25	5.86	
5.15									
7.2	8.75	8.20	7.69	7.21	6.76	6.34	5.94	5.57	
4.90									
7.3	8.24	7.73	7.25	6.79	6.37	5.97	5.60	5.25	
4.61									
7.4	7.69	7.21	6.76	6.33	5.94	5.57	5.22	4.89	
4.30									
7.5	7.09	6.64	6.23	5.84	5.48	5.13	4.81	4.51	

3.97									
7.6	6.46	6.05	5.67	5.32	4.99	4.68	4.38	4.11	
3.61									
7.7	5.81	5.45	5.11	4.79	4.49	4.21	3.95	3.70	
3.25									
7.8	5.17	4.84	4.54	4.26	3.99	3.74	3.51	3.29	
2.89									
7.9	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89	
2.54									
8.0	3.95	3.70	3.47	3.26	3.05	2.86	2.68	2.52	
2.21									
8.1	3.41	3.19	2.99	2.81	2.63	2.47	2.31	2.17	
1.91									
8.2	2.91	2.73	2.56	2.40	2.25	2.11	1.98	1.85	
1.63									
8.3	2.47	2.32	2.18	2.04	1.91	1.79	1.68	1.58	
1.39									
8.4	2.09	1.96	1.84	1.73	1.62	1.52	1.42	1.33	
1.17									
8.5	1.77	1.66	1.55	1.46	1.37	1.28	1.20	1.13	
0.990									
8.6	1.49	1.40	1.31	1.23	1.15	1.08	1.01	0.951	
0.836									
8.7	1.26	1.18	1.11	1.04	0.976	0.915	0.858	0.805	
0.707									
8.8	1.07	1.01	0.944	0.885	0.829	0.778	0.729	0.684	
0.601									
8.9	0.917	0.860	0.806	0.758	0.709	0.664	0.623	0.584	
0.513									
9.0	0.790	0.740	.694	0.651	0.610	0.572	0.536	0.503	
0.442									

pH	18	20	22	24	26	28	30
6.5	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	4.41	3.78	3.33	2.92	2.57	2.26	1.99
7.3	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	0.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	0.68	1.47	1.29	1.14	1.00	0.879	0.733
8.2	0.43	1.26	1.11	0.073	0.855	0.752	0.661
8.3	0.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	0.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.735	0.646	0.568	0.499	0.439	0.396	0.339

8.7	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.389	0.342	0.300	0.264	0.232	0.204	0.179

TABLE 2.14.3a

EQUATIONS TO CONVERT TOTAL RECOVERABLE METALS STANDARD WITH HARDNESS (1) DEPENDENCE TO DISSOLVED METALS STANDARD BY APPLICATION OF A CONVERSION FACTOR (CF).

Parameter	4-Day Average (Chronic) Concentration (UG/L)	
CADMIUM	$CF * e^{(0.7409(\ln(\text{hardness})) - 4.719)}$ $CF = 1.101672 - (\ln \text{hardness})(0.041838)$	
CHROMIUM III	$CF * e^{(0.8190(\ln(\text{hardness})) + 0.6848)}$	$CF = 0.860$
COPPER	$CF * e^{(0.8545(\ln(\text{hardness})) - 1.702)}$ $CF = 0.960$	
LEAD	$CF * e^{(1.273(\ln(\text{hardness})) - 4.705)}$ $CF = 1.46203 - (\ln \text{hardness})(0.145712)$	
NICKEL	$CF * e^{(0.8460(\ln(\text{hardness})) + 0.0584)}$ $CF = 0.997$	
SILVER	N/A	
ZINC	$Cf * e^{(0.8473(\ln(\text{hardness})) + 0.884)}$	$CF = 0.986$

TABLE 2.14.3b

EQUATIONS TO CONVERT TOTAL RECOVERABLE METALS STANDARD WITH HARDNESS (1) DEPENDENCE TO DISSOLVED METALS STANDARD BY APPLICATION OF A CONVERSION FACTOR (CF).

Parameter	1-Hour Average (Acute) Concentration (UG/L)	
CADMIUM	$CF * e^{(1.0166(\ln(\text{hardness})) - 3.924)}$ $CF = 1.136672 - (\ln \text{hardness})(0.041838)$	
CHROMIUM (III)	$CF * e^{(0.8190(\ln(\text{hardness})) + 3.7256)}$ $CF = 0.316$	
COPPER	$CF * e^{(0.9422(\ln(\text{hardness})) - 1.700)}$ $CF = 0.960$	
LEAD	$CF * e^{(1.273(\ln(\text{hardness})) - 1.460)}$	

Lead	C	C
Mercury	A	A
Nickel	100 MCL	4,600
Selenium	A	4,200
Silver		
Thallium	0.24	0.47
Zinc	7,400	26,000
Cyanide	140	140
Asbestos	7 million Fibers/L	
2,3,7,8-TCDD Dioxin	5.0 E -9 B	5.1 E-9 B
Acrolein	190	290
Acrylonitrile	0.051 B	0.25 B
Alachlor	2.0	
Atrazine	3.0	
Benzene	2.2 B	51 B
Bromoform	4.3 B	140 B
Carbofuran	40	
Carbon Tetrachloride	0.23 B	1.6 B
Chlorobenzene	100 MCL	1,600
Chlorodibromomethane	0.40 B	13 B
Chloroethane		
2-Chloroethylvinyl Ether		
Chloroform	5.7 B	470 B
Dalapon	200	
Di(2ethylhexyl)adipate	400	
Dibromochloropropane	0.2	
Dichlorobromomethane	0.55 B	17 B
1,1-Dichloroethane		
1,2-Dichloroethane	0.38 B	37 B
1,1-Dichloroethylene	7 MCL	7,100
Dichloroethylene (cis-1,2)	70	
Dinoseb	7.0	
Diquat	20	
1,2-Dichloropropane	0.50 B	15 B
1,3-Dichloropropene	0.34	21
Endothall	100	
Ethylbenzene	530	2,100
Ethylene Dibromide	0.05	
Glyphosate	700	
Haloacetic acids	60 E	
Methyl Bromide	47	1,500
Methyl Chloride	F	F
Methylene Chloride	4.6 B	590 B
Ocamyl (vidate)	200	
Picloram	500	
Simazine	4	
Styrene	100	
1,1,2,2-Tetrachloroethane	0.17 B	4.0 B
Tetrachloroethylene	0.69 B	3.3 B
Toluene	1,000	15,000
1,2 -Trans-Dichloroethylene	100 MCL	10,000
1,1,1-Trichloroethane	200 MCL	F
1,1,2-Trichloroethane	0.59 B	16 B

Trichloroethylene	2.5 B		30 B
Vinyl Chloride	0.025		2.4
Xylenes	10,000		
2-Chlorophenol	81		150
2,4-Dichlorophenol	77		2902,4-
Dimethylphenol	380	850	
2-Methyl-4,6-Dinitrophenol	13.0		280
2,4-Dinitrophenol	69		5,300
2-Nitrophenol			
4-Nitrophenol			
3-Methyl-4-Chlorophenol			
Penetachlorophenol	0.27 B		3.0 B
Phenol	21,000		1,700,000
2,4,6-Trichlorophenol	1.4 B		2.4 B
Acenaphthene	670		990
Acenaphthylene			
Anthracene	8,300		40,000
Benzidine	0.000086 B		0.00020 B
BenzoaAnthracene	0.0038 B		0.018 B
BenzoaPyrene	0.0038 B		0.018 B
BenzobFluoranthene	0.0038 B		0.018 B
BenzoghiPerylene			
BenzokFluoranthene	0.0038 B		0.018 B
Bis2-ChloroethoxyMethane			
Bis2-ChloroethyleEther	0.030 B		0.53 B
Bis2-ChloroisopropylEther	1,400		65,000
Bis2-EthylhexylPhthalate	1.2 B		2.2 B
4-Bromophenyl Phenyl Ether			
Butylbenzyl Phthalate	1,500		1,900
2-Chloronaphthalene	1,000		1,600
4-Chlorophenyl Phenyl Ether			
Chrysene	0.0038 B		0.018 B
Dibenzoa, hAnthracene	0.0038 B		0.018 B
1,2-Dichlorobenzene	420		1,300
1,3-Dichlorobenzene	320		960
1,4-Dichlorobenzene	63		190
3,3-Dichlorobenzidine	0.021 B		0.028 B
Diethyl Phthalate	17,000		44,000
Dimethyl Phthalate	270,000		1,100,000
Di-n-Butyl Phthalate	2,000		4,500
2,4-Dinitrotoluene	0.11 B		3.4 B
2,6-Dinitrotoluene			
Di-n-Octyl Phthalate			
1,2-Diphenylhydrazine	0.036 B		0.20 B
Fluoranthene	130	140	
Fluorene	1,100		5,300
Hexachlorobenzene	0.00028 B		0.00029 B
Hexachlorobutedine	0.44 B		18 B
Hexachloroethane	1.4 B		3.3 B
Hexachlorocyclopentadiene	40		1,100
Ideno 1,2,3-cdPyrene	0.0038 B		0.018 B
Isophorone	35 B		960 B
Naphthalene			
Nitrobenzene	17		690

N-Nitrosodimethylamine	0.00069 B	3.0 B
N-Nitrosodi-n-Propylamine	0.005 B	0.51 B
N-Nitrosodiphenylamine	3.3 B	6.0 B
Phenanthrene		
Pyrene	830	4,000
1,2,4-Trichlorobenzene	35	70
Aldrin	0.000049 B	0.000050 B
alpha-BHC	0.0026 B	0.0049 B
beta-BHC	0.0091 B	0.017 B
gamma-BHC (Lindane)	0.2 MCL	1.8
delta-BHC		
Chlordane	0.00080 B	0.00081 B
4,4-DDT	0.00022 B	0.00022 B
4,4-DDE	0.00022 B	0.00022 B
4,4-DDD	0.00031 B	0.00031 B
Dieldrin	0.000052 B	0.000054 B
alpha-Endosulfan	62	89
beta-Endosulfan	62	89
Endosulfan Sulfate	62	89
Endrin	0.059	0.060
Endrin Aldehyde	0.29	0.30
Heptachlor	0.000079 B	0.000079 B
Heptachlor Epoxide	0.000039 B	0.000039 B
Polychlorinated Biphenyls	0.000064 B,D	0.000064 B,D
PCB's		
Toxaphene	0.00028 B	0.00028 B

Footnotes:

A. See Table 2.14.2

B. Based on carcinogenicity of 10⁻⁶ risk. C. EPA has not calculated a human criterion for this contaminant. However, permit authorities should address this contaminant in NPDES permit actions using the State's existing narrative criteria for toxics

D. This standard applies to total PCBs.

KEY: water pollution, water quality standards

Date of Enactment or Last Substantive Amendment: June 1, 2005

Notice of Continuation: October 7, 2002

Authorizing, and Implemented or Interpreted Law: 19-5