Utah Administrative Code

The Utah Administrative Code is the body of all effective administrative rules as compiled and organized by the Division of Administrative Rules (see Subsection 63G-3-102(5); see also Sections 63G-3-701 and 702).

NOTE: For a list of rules that have been made effective since August 1, 2019, please see the <u>codification segue</u> page.

NOTE TO RULEFILING AGENCIES: Use the RTF version for submitting rule changes.

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R317. Environmental Quality, Water Quality.

Rule R317-2. Standards of Quality

for Waters of the State.

As in effect on August 1, 2019

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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.

R317-2-1C. Triennial Review.

The water quality standards shall be reviewed and updated, if necessary, at least once every three years. The Director will seek input through a cooperative process from stakeholders representing state and federal agencies, various interest groups, and the public to develop a preliminary draft of changes. Proposed changes will be presented to the Water Quality Board for information. Informal public meetings may be held to present preliminary proposed changes to the public for comments and suggestions. Final proposed changes will be presented to the Water Quality Board for approval and authorization to initiate formal

rulemaking. Public hearings will be held to solicit formal comments from the public. The Director will incorporate appropriate changes and return to the Water Quality Board to petition for formal adoption of the proposed changes following the requirements of the Utah Rulemaking Act, Title 63G, Chapter 3.

<u>R317-2-2. Scope.</u>

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 Director, 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 Category 1 Waters

Waters 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 Category 1 Waters. 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 rules 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.

Discharges may be allowed where pollution will be temporary and limited after consideration of the factors in R317-2-3.5.b.4., and where best management practices will be employed to minimize pollution effects.

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

3.3 Category 2 Waters

Category 2 Waters are designated surface water segments which are treated as Category 1 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality. Discharges may be allowed where pollution will be temporary and limited after consideration of the factors in R317-2-.3.5.b.4., and where best management practices will be employed to minimize pollution effects. Waters of the state designated as Category 2 Waters are listed in R317-2-12.2.

3.4 Category 3 Waters

For all other waters of the state, point source discharges are allowed and degradation may occur, pursuant to the conditions and review procedures outlined in Section 3.5.

3.5 Antidegradation Review (ADR)

An antidegradation review will determine whether the proposed activity complies with the applicable antidegradation requirements for receiving waters that may be affected.

An antidegradation review (ADR) may consist of two parts or levels. A Level I review is conducted to insure that existing uses will be maintained and protected.

Both Level I and Level II reviews will be conducted on a parameter-byparameter basis. A decision to move to a Level II review for one parameter does not require a Level II review for other parameters. Discussion of parameters of concern is those expected to be affected by the proposed activity.

Antidegradation reviews shall include opportunities for public participation, as described in Section 3.5e.

- 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 Director may conduct an ADR on any 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 Category 1 Waters and Category 2 Waters, reviews shall be consistent with the requirement established in Sections 3.2 and 3.3, respectively.
- 3. For Category 3 Waters, reviews shall be consistent with the requirements established in this section
- 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 or for existing permitted facilities, water quality will not be further lowered by the proposed activity, examples include situations where:

- (a) the proposed concentration-based effluent limit is less than or equal to the ambient concentration in the receiving water during critical conditions; or
- (b) a UPDES permit is being renewed and the proposed effluent concentration and loading limits are equal to or less than the concentration and loading limits in the previous permit; or
- (c) a UPDES permit is being renewed and new effluent limits are to be added to the permit, but the new effluent limits are based on maintaining or improving upon effluent concentrations and loads that have been observed, including variability; or
- 2. Assimilative capacity (based upon concentration) is not available or has previously been allocated, as indicated by water quality monitoring or modeling information. This includes situations where:
- (a) the water body is included on the current 303(d) list for the parameter of concern; or
- (b) existing water quality for the parameter of concern does not satisfy applicable numeric or narrative water quality criteria; or
- (c) discharge limits are established in an approved TMDL that is consistent with the current water quality standards for the receiving water (i.e., where TMDLs are established, and changes in effluent limits that are consistent with the existing load allocation would not trigger an antidegradation review).

Under conditions (a) or (b) the effluent limit in an UPDES permit may be equal to the water quality numeric criterion for the parameter of concern.

- 3. Water quality impacts will be temporary and related only to sediment or turbidity and fish spawning will not be impaired,
- 4. The water quality effects of the proposed activity are expected to be temporary and limited. As general guidance, CWA Section 402 general discharge permits, CWA Section 404 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. 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.
- (f) Impairment of the fish spawning, survival and development of aquatic fauna excluding fish removal efforts.
 - 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 Director 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 Director 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 Director 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) pollutant trading
 - (g) water conservation
 - (h) water recycle and reuse
 - (i) alternative discharge locations or alternative receiving waters
 - (j) land application
 - (k) total containment
 - (I) improved operation and maintenance of existing treatment systems
 - (m) 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. 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.

- 4. 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 Director to authorize proposed activities that would otherwise not be authorized.
 - 5. 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.

6. 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.

7. 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 Director 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

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 Director 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 Director 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. When possible, public notice on the antidegradation review conclusions will be combined with the public notice on the proposed permitting or certifying 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 may 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. The public will be provided notice and an opportunity to comment whenever substantive changes are made to the implementation procedures referenced in Subsection R317-2-3.5.f.

The Director shall establish reasonable protocols and guidelines (1) for completing technical, social, and economic need demonstrations, (2) for review and determination of adequacy of Level II ADRs and (3) for determination of additional treatment requirements. Protocols and guidelines will consider federal guidance and will include input from local governments, the regulated community, and the general public. The Director will inform the Water Quality Board of any protocols or guidelines that are developed.

R317-2-4. Colorado River Salinity Standards.

In addition to quality protection afforded by these rules 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, 2002, 2005, 2008, and 2011 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 frequent primary contact recreation where there is a high likelihood of ingestion of water or a high degree of bodily contact with the water. Examples include, but are not limited to, swimming, rafting, kayaking, diving, and water skiing.
- b. Class 2B -- Protected for infrequent primary contact recreation. Also protected for secondary contact recreation where there is a low likelihood of ingestion of water or a low degree of bodily contact with the water. Examples include, but are not limited to, wading, hunting, and fishing.
 - 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 wateroriented 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.

a. Class 5A Gilbert Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation south of the Union Pacific Causeway, excluding all of the Farmington Bay south of the Antelope Island Causeway and salt evaporation ponds.

Beneficial Uses -- Protected for frequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

b. Class 5B Gunnison Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation north of the Union Pacific Causeway and west of the Promontory Mountains, excluding salt evaporation ponds.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

c. Class 5C Bear River Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation north of the Union Pacific Causeway and east of the Promontory Mountains, excluding salt evaporation ponds.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

d. Class 5D Farmington Bay

Geographical Boundary -- All open waters at or below approximately 4,208-foot elevation east of Antelope Island and south of the Antelope Island Causeway, excluding salt evaporation ponds.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

e. Class 5E Transitional Waters along the Shoreline of the Great Salt Lake Geographical Boundary -- All waters below approximately 4,208-foot elevation to the current lake elevation of the open water of the Great Salt Lake receiving their source water from naturally occurring springs and streams, impounded wetlands, or facilities requiring a UPDES permit. The geographical areas of these transitional waters change corresponding to the fluctuation of open water elevation.

Beneficial Uses -- Protected for infrequent primary and secondary contact recreation, waterfowl, shore birds and other water-oriented wildlife including their necessary food chain.

R317-2-7. Water Quality Standards.

7.1 Application of Standards

a. 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 rules 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.

b. At a minimum, assessment of the beneficial use support for waters of the state will be conducted biennially and available for a 30-day period of public comment and review. Monitoring locations and target indicators of water quality standards shall be prioritized and published yearly. For water quality assessment purposes, up to 10 percent of the representative samples may exceed the minimum or maximum criteria for dissolved oxygen, pH, E. coli, total dissolved solids, and temperature, including situations where such criteria have been adopted on a site-specific basis.

c. Site-specific standards may be adopted by rulemaking where biomonitoring data, bioassays, or other scientific analyses indicate that the statewide criterion is over or under protective of the designated uses or where natural or un-alterable conditions or other factors as defined in 40 CFR 131.10(g) prevent the attainment of the statewide criteria as prescribed in Subsections R317-2-7.2, and R317-2-7.3, and Section R317-2-14.

7.2 Narrative Standards

It shall be unlawful, and a violation of these rules, 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; or determined by biological assessments in Subsection R317-2-7.3.

7.3 Biological Water Quality Assessment and Criteria

Waters of the State shall be free from human-induced stressors which will degrade the beneficial uses as prescribed by the biological assessment processes and biological criteria set forth below:

- a. Quantitative biological assessments may be used to assess whether the purposes and designated uses identified in R317-2-6 are supported.
- b. The results of the quantitative biological assessments may be used for purposes of water quality assessment, including, but not limited to, those assessments required by 303(d) and 305(b) of the federal Clean Water Act (33 U.S.C. 1313(d) and 1315(b)).
- c. Quantitative biological assessments shall use documented methods that have been subject to technical review and produce consistent, objective and repeatable results that account for methodological uncertainty and natural environmental variability.

d. If biological assessments reveal a biologically degraded water body, specific pollutants responsible for the degradation will not be formally published (i.e., Biennial Integrated Report, TMDL) until a thorough evaluation of potential causes, including nonchemical stressors (e.g., habitat degradation or hydrological modification or criteria described in 40 CFR 131.10 (g)(1 - 6) as defined by the Use Attainability Analysis process), has been conducted.

R317-2-8. Protection of Downstream Uses.

All actions to control waste discharges under these rules 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 Director by the Utah Office of State Health Laboratory, or by a laboratory certified by the Utah Department of Health.

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

R317-2-11. Public Participation.

Public notices and public hearings will be held for the consideration, adoption, or amendment of the classifications of waters and standards of purity and quality. Public notices shall be published at least twice in a newspaper of general circulation in the area affected at least 30 days prior to any public hearing. The notice will be posted on a State public notice website at least 45 days before any hearing and a notice will be mailed at least 30 days before any hearing to the chief executive of each political subdivision and other potentially affected persons.

R317-2-12. Category 1 and Category 2 Waters.

12.1 Category 1 Waters.

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

- 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:
 - 1. Category 2 Waters as listed in R317-2-12.2.
- 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 Main Street in Coalville to headwaters.

Weber River and tributaries, from Utah State Route 32 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 Haight Bench diversion to headwaters (Davis County).

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

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

12.2 Category 2 Waters.

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

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 3C 4		2B
All tributaries to Lake Powell		
except as listed below:		2B
3B 4		
Tributaries to Escalante River from confluence with Boulder Creek to headwaters, including		
Boulder Creek		2B 3
A 4		
Dirty Devil River and tributaries, from Lake Powell to Fremont River 3C 4		2B
Deer Creek and tributaries, from confluence with Boulder Creek to headwaters A 4		2B 3
Freemont River and tributaries from confluence with Muddy Creek to Capitol Reef National Park, except as listed below: 3C 4	1 C	2B
Pleasant Creek and tributaries,		
6 61 111 5 1		

from confluence with Fremont

River to East boundary of Capitol Reef National Park 3C 4	2В
Pleasant Creek and tributaries, from East boundary of Capitol Reef National Park to headwaters	1C 2B 3
Fremont River and tributaries, through Capitol Reef National Park to headwaters A 4	1C 2A 3
Muddy Creek and tributaries, from Confluence with Fremont River to Highway U-10 crossing, except as listed below 3C 4	2B
Muddy Creek from confluence with Fremont River to confluence with Ivie Creek 3C 4*	2В
Muddy Creek and tributaries from the confluence with Ivie Creek to U-10 3C 4*	2В
Ivie Creek and its tributaries from the confluence with Muddy Creek to the confluence with Quitchupah Creek 3C 4*	2В

Ivie Creek and its tributaries from the confluence with		
Quitchapah Creek to U-10,		
except as listed below:		2B
3C 4*		
Quitchupah Creek from the		
confluence with Ivie Creek		
to U-10		2B
3C 4*		
Quitchupah Creek and		
tributaries, from Highway		
U-10 crossing to headwaters		2B 3
A 4		
Ivie Creek and tributaries,		
from Highway U-10 to headwaters		2B 3
A 4		
Muddy Creek and tributaries, from		
Highway U-10 crossing to headwaters	1C	2B 3
A 4		
San Juan River and tributaries from		
Lake Powell to state line except as		
listed below:	1C 2	А
3B 4		
Johnson Creek and tributaries,		
from confluence with Recapture		
Creek to headwaters	1 C	2B 3
A 4		

Verdure Creek and tributaries, from Highway US-191 crossing to headwaters A 4		2B 3
North Creek and tributaries, from confluence with Montezuma Creek to headwaters A 4	1 C	2B 3
South Creek and tributaries, from confluence with Montezuma Creek to headwaters A 4	1 C	2B 3
Spring Creek and tributaries, from confluence with Vega Creek to headwaters A 4		2B 3
Montezuma Creek and tributaries, from U.S. Highway 191 to headwaters A 4	1 C	2B 3
Colorado River and tributaries, from Lake Powell to state line except as listed below: 3B 4	1C 2A	1
Indian Creek and tributaries, through Newspaper Rock State Park to headwaters A 4	1 C	2B 3

Kane Canyon Creek and tributaries,		
from confluence with Colorado		
River to headwaters		2B
3C 4		
Mill Creek and tributaries, from		
confluence with Colorado River to		
headwaters	1 C	2A 3
A 4		
Castle Creek from confluence with		
the Colorado River to Seventh Day		
Adventist Diversion	1 C	2A
3B 4*		
Onion Creek from the confluence		
with Colorado River to road		
crossing above Stinking Springs	1 C	2A
3B 4*		
Dolores River and tributaries,		
from confluence with Colorado		
River to state line		2B
3C 4		
Roc Creek and tributaries, from		
confluence with Dolores River to		
headwaters		2B 3
A 4		
LaSal Creek and tributaries from		
state line to headwaters		2B 3
A 4		
Lion Canyon Creek and tributaries,		

from state line to headwaters 2B 3 Α 4 Little Dolores River and tributaries, from confluence with Colorado River to state line 2B 4 3C Bitter Creek and tributaries, from confluence with Colorado River to headwaters 2B 3C 4 (*) Site-specific criteria are associated with th is use.

b. Green River Drainage

TABLE	
Green River and tributaries, from confluence with Colorado River to state line, except as listed below: 3B 4	1C 2A
Thompson Creek and tributaries from Interstate 70 to headwaters 3C 4	2В
San Rafael River and tributaries from confluence with Green River to confluence with Ferron Creek, except as listed below: 3C	28
San Rafael River from the confluence with the Green River to Buckhorn Crossing 3C 4*	2В
San Rafael River from Buckhorn Crossing to the confluence with Huntington Creek and Cottonwood Creek	2В

3C 4*

Ferron Creek and tributaries, from confluence with San Rafael River to Millsite Reservoir, except as listed below:

2B

3C 4

Ferron Creek from the confluence with San Rafael River to Highway 10		28
3C 4*		
Ferron Creek and tributaries, from Millsite Reservoir to headwaters A 4	1 C	2B 3
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	1 C	2B 3
A 4		
Cottonwood Creek and tributaries from confluence with Huntington Creek to Highway U-57 crossing, except as listed below: 3C 4		28
Cottonwood Creek from the confluence with Huntington Creek to U-57 3C 4*		2B
Rock Canyon Creek from the confluence with Cottonwood Creek to headwaters 3C 4*		2B

Cottonwood Creek and tributaries from Highway U-57 crossing to headwaters A 4	1 C	2B 3
Cottonwood Canal, Emery County 3E 4	10	2В
Price River and tributaries, from confluence with Green River to Carbon Canal Diversion at Price City Golf Course, except as listed below 3C 4		2B
Price River and tributaries from confluence with Green River to confluence with Soldier Creek 3C 4*		2В
Price River and tributaries from the confluence with Soldier Creek to Carbon Canal Diversion 3C 4*		2B
Grassy Trail Creek and tributaries, from Grassy Trail Creek Reservoir to headwaters A 4	1 C	2B 3
Price River and tributaries, from Carbon Canal Diversion at Price City Golf Course to Price City Water Treatment Plant intake		2B 3

A 4		
Price River and tributaries, from Price City Water Treatment Plant intake to headwaters A 4	1 C	2B 3
Range Creek and tributaries, from confluence with Green River to Range Creek Ranch		2B 3
Range Creek and tributaries, from Range Creek Ranch to headwaters A 4	1 C	2B 3
Rock Creek and tributaries, from confluence with Green River to headwaters A 4		2B 3
Nine Mile Creek and tributaries, from confluence with Green River to headwaters A 4		2B 3
Pariette Draw and tributaries, from confluence with Green River to headwaters 3B 3D 4		2B
Willow Creek and tributaries (Uintah County), from confluence with Green River to headwaters A 4		2B 3

White River and tributaries, from confluence with Green River to state line, except as listed below:		2B
3B 4		
Bitter Creek and tributaries		20.2
from White River to headwaters		2B 3
Α 4		
Duchesne River and tributaries,		
from confluence with Green River		
to Myton Water Treatment Plant		
intake, except as listed below		2B
3B 4		
Uinta River and tributaries		
from confluence with Duchesne		
River to U.S. Highway 40 crossing		2B
3B 4		
Uinta River and tributaries,		
from U.S. Highway 40 crossing		2B 3
A 4		
Power House Canal from		
confluence with Uinta River		
to headwaters		2B 3
A 4		
Whiterocks River and Canal,		
from Tridell Water Treatment		
Plant to headwaters	1 C	2B 3
A 4		

Duchesne River and tributaries, from Myton Water Treatment Plant intake to headwaters	1 C	2B 3
A 4	10	20 3
Lake Fork River and tributaries,		
from confluence with Duchesne		
River to headwaters	1 C	2B 3
A 4		
Lake Fork Canal from Dry Gulch		
Canal Diversion to Moon Lake	1 C	2B
3E 4		
Dry Gulch Canal, from Myton		
Water Treatment Plant to Lake	1.0	2D
Fork Canal 3E 4	1 C	2B
36 4		
Ashley Creek and tributaries, from		
confluence with Green River to		
Steinaker diversion		2B
3B 4		
Ashlay Coast and thibytanias Coam		
Ashley Creek and tributaries, from Steinaker diversion to headwaters	1 C	2B 3
A 4	10	20 3
Big Brush Creek and tributaries		
from confluence with Green River		
to Tyzack (Red Fleet) Dam		2B
3B 4		
Big Brush Creek and tributaries,		
from Tyzack (Red Fleet) Dam to		

headwaters	1 C	2B	3
A 4			
Jones Hole Creek and tributaries from confluence with Green River to headwaters		2B	3
Diamond Gulch Creek and			
tributaries, from confluence			
with Green River to headwaters		2B	3
A 4			
Pot Creek and tributaries, from Crouse Reservoir to headwaters A 4		2B	3
Green River and tributaries, from			
Utah-Colorado state line to Flaming			
Gorge Dam, except as listed below:	2.	Α	3
A 4			
Sears Creek and tributaries,			
Daggett County		2B	3
A			
Tolivers Creek and tributaries, Daggett County A		2B	3
Red Creek and tributaries, from confluence with Green River to state line 3C 4		2B	

Jackson Creek and tributaries, Daggett County A	2B 3
Davenport Creek and tributaries, Daggett County A	2B 3
Goslin Creek and tributaries, Daggett County A	2B 3
Gorge Creek and tributaries, Daggett County A	2B 3
Beaver Creek and tributaries, Daggett County A	2B 3
O-Wi-Yu-Kuts Creek and tributaries, Daggett County A	2B 3
Tributaries to Flaming Gorge Reservoir, except as listed below A 4	2B 3
Birch Spring Draw and tributaries, from Flaming Gorge Reservoir to headwaters 3C 4	2В
Spring Creek and tributaries, from Flaming Gorge Reservoir to	

headwaters	2B 3
A	
All tributaries of Flaming Gorge	
Reservoir from Utah-Wyoming state	
line to headwaters	2B 3
A 4	
(*) Site-specific criteria are associated wi	ith th
is use.	

- 13.2 Lower Colorado River Basin
- a. Virgin River Drainage

TABLE		
Beaver Dam Wash and tributaries, from Motoqua to headwaters 3B 4	:	2B
Virgin River and tributaries, from state line to Quail Creek diversion, except as listed below: 3B 4		2B
Virgin River from the Utah-Arizona border to Pah Tempe Springs 3B 4*	;	2B
Virgin River from the Utah-Arizona border to Pah Tempe Springs 3B 4*	:	2B
Santa Clara River from confluence with Virgin River to Gunlock Reservoir 3B 4	1C :	2B
Santa Clara River and tributaries, from Gunlock Reservoir to headwaters A 4	;	2B 3
Leeds Creek from confluence with Quail Creek to headwaters A 4	;	2B 3

Quail Creek from Quail Creek		
Reservoir to headwaters	1 C	2B 3
A 4		
Ash Creek and tributaries, from		
confluence with Virgin River to		
Ash Creek Reservoir		2B 3
A 4		
Ash Creek and tributaries, from		
Ash Creek Reservoir to headwaters		2B 3
A 4		
Virgin River and tributaries, from		
the Quail Creek diversion to		
headwaters, except as listed below:	1 C	2B
3C 4		
North Creek, from the confluence		
with Virgin River to headwaters	1 C	2B
3C 4*		
North Fork Virgin River and		
tributaries	1C 2	A 3
A 4		
Kolob Creek, from confluence		
with Virgin River to headwaters		2B 3
Α 4		
East Fork Virgin River, from		
town of Glendale to headwaters		2B 3
A 4		
(*) Site-specific criteria are associ	ated wi	ith th

is use.

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 3
A 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 3
A 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: 3B 3D 4	2В
Perry Canyon Creek from U.S. Forest boundary to headwaters A 4	2B 3
Box Elder Creek from confluence with Black Slough to Brigham City Reservoir (Mayor's Pond) 3C 4	2В
Box Elder Creek, from Brigham City Reservoir (Mayor's Pond) to headwaters A 4	2B 3
Salt Creek from confluence with Bear River to Crystal Hot Springs 3B 3D	2В
Malad River and tributaries, from confluence with Bear River to state line 3C	2В
Little Bear River and tributaries, from Cutler Reservoir to headwaters, except as listed below:	2B 3

Α	3D 4			
	South Fork Spring Creek from			
	confluence with Pelican Pond			
	Slough Stream to U.S. Highway 89		2B	3
А	3D 4*			
	Logan River and tributaries, from			
	Cutler Reservoir to headwaters		2B	3
Α	3D 4			
	Blacksmith Fork and tributaries,			
	from confluence with Logan River			
	to headwaters, except as listed			
	below		2B	3
Α	4			
	Sheep Creek and tributaries			
	from Confluence with Blacksmith			
	Fork River to headwaters	1 C	2B	3
А	4			
	Newton Creek and tributaries,			
	from Cutler Reservoir to Newton			
	Reservoir		2B	3
А	4			
	Clarkston Creek and tributaries,			
	from Newton Reservoir to			
	headwaters		2B	3
А	4			
	Birch Creek and tributaries, from			
	confluence with Clarkston Creek			
	to headwaters		2B	3

A 4		
Summit Creek and tributaries, from confluence with Bear River to headwaters A 4		2B 3
Cub River and tributaries, from confluence with Bear River to state line, except as listed below: 3B 4		2B
High Creek and tributaries from confluence with Cub River to headwaters A 4		2B 3
All tributaries to Bear Lake from Bear Lake to headwaters, except as listed below A 4		2B 3
Swan Springs tributary to Swan Creek A	1 C	2B 3
Bear River and tributaries in Rich County A 4		2B 3
Bear River and tributaries, from Utah-Wyoming state line to headwaters (Summit County) A 4		2B 3

Mill Creek and tributaries, from state line to headwaters (Summit County)

4

2B 3

Α

(*) Site-specific criteria are associated with th is use.

13.4 Weber River Basin

a. Weber River Drainage

TABLE		
Willard Creek, from Willard Bay Reservoir to headwaters A 4		2B 3
Weber River, from Great Salt Lake to Slaterville diversion, except as listed below: 3C 3D 4		2В
Four Mile Creek from Interstate 15 to headwaters A 4		2B 3
Weber River and tributaries, from Slaterville diversion to Stoddard diversion, except as listed below A 4		2B 3
Ogden River and tributaries, from confluence with Weber River to Pineview Dam, except as listed below: A 4	2	А 3
Wheeler Creek from confluence with Ogden River to headwaters A 4	1 C	2B 3
All tributaries to Pineview Reservoir A 4	1 C	2B 3

Strongs Canyon Creek and tributaries, from U.S. National Forest boundary to headwaters A 4	1 C	2B 3
Burch Creek and tributaries, from Harrison Boulevard in Ogden to Headwaters A	1 C	2B 3
Spring Creek and tributaries, from U.S. National Forest boundary to headwaters A 4	1 C	2B 3
Weber River and tributaries, from Stoddard diversion to headwaters, except as listed below A 4	1 C	2B 3
Silver Creek and tributaries, from the confluence with Weber River to below the confluence with Tollgate Creek A 4	1 C	2B 3
Silver Creek and tributaries, from confluence with Tollgate Creek to headwaters A 4*	1 C	2B 3

a. Jordan River Drainage

TABLE

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

City Creek, from City Creek Water Treatment Plant to headwaters A	1 C	2B 3
Red Butte Creek and tributaries, from Liberty Park pond inlet to Red Butte Reservoir A 4		2B 3
Red Butte Creek and tributaries, from Red Butte Reservoir to headwaters A	1 C	2B 3
Emigration Creek and tributaries, from 1100 East in Salt Lake City to headwaters A 4		2B 3
Parleys Creek and tributaries, from 1300 East in Salt Lake City to Mountain Dell Reservoir A	1 C	2B 3
Parleys Creek and tributaries, from Mountain Dell Reservoir to headwaters A	1 C	2B 3
Mill Creek (Salt Lake County) from confluence with Jordan River to Interstate 15 3C* 4		2B
Mill Creek (Salt Lake County) and tributaries, from Interstate 15		

to headwaters A 4		2B 3
Big Cottonwood Creek and tributaries, from confluence with Jordan River to Big Cottonwood Water Treatment Plant A 4		2B 3
Big Cottonwood Creek and tributaries from Big Cottonwood Water Treatment Plant to headwaters A	1C	2B 3
Deaf Smith Canyon Creek and tributaries A 4	1 C	2B 3
Little Cottonwood Creek and tributaries, from confluence with Jordan River to Metropolitan Water Treatment Plant A 4		2B 3
Little Cottonwood Creek and tributaries, from Metropolitan Water Treatment Plant to headwaters A	1 C	2B 3
Bells Canyon Creek and tributaries, from Lower Bells Canyon Reservoir to headwaters A Little Willow Creek and tributaries,	1 C	2B 3

from Draper Irrigation Company diversion to headwaters A	1 C	2B 3
Big Willow Creek and tributaries, from Draper Irrigation Company diversion to headwaters A	1 C	2B 3
South Fork of Dry Creek and tributaries, from Draper Irrigation Company diversion to headwaters A	1 C	2B 3
All permanent streams on east slope of Oquirrh Mountains (Coon, Barneys, Bingham, Butterfield, and Rose Creeks) 3D 4		2B
Kersey Creek from confluence of C-7 Ditch to headwaters 3D		2B
<pre>(*) Site-specific criteria are associa is use.</pre>	ated w	ith th

b. Provo River Drainage

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

c. Utah Lake Drainage

TABLE Dry Creek and tributaries (above Alpine), from U.S. National Forest boundary to headwaters 2B 3 4 American Fork Creek and tributaries, from diversion at mouth of American Fork Canyon to headwaters 2B 3 Α 4 Spring Creek and tributaries, from Utah Lake near Lehi to headwaters 2B 3 4 Α Lindon Hollow Creek and tributaries, from Utah Lake to headwaters 2B 3B 4 Grove Creek from Murdock Diversion to headwaters **1**C 2B 3 Α Battle Creek from Murdock Diversion to Headwaters 1C 2B 3 Α Rock Canyon Creek and tributaries

Rock Canyon Creek and tributaries

(East of Provo), from U.S. National

Forest boundary to headwaters 1C 2B 3

A 4

Mill Race (except from Interstate	
15 to the Provo City WWTP	
discharge) and tributaries, from	
Utah Lake to headwaters	2B
3B 4	
Mill Race from Interstate 15	
to the Provo City wastewater	
treatment plant discharge	2B
3B 4	
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	2B
3B 4	
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 3
A 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 A 4	2B 3
Hobble Creek and tributaries, from Utah Lake to headwaters 4	2B 3A
Dry Creek and tributaries, from Utah Lake (Provo Bay) to U.S. Highway 89 3E 4	2В
Dry Creek and tributaries, from U.S. Highway 89 to headwaters A 4	2B 3
Spanish Fork River and tributaries, from Utah Lake to diversion at Moark Junction 3B 3D 4	2В
Spanish Fork River and tributaries, from diversion at Moark Junction to headwaters A 4	2B 3
Benjamin Slough and tributaries, from Utah Lake to headwaters, except as listed below 3B 4	2В

Beer Creek (Utah County) from 4850 West (in NE1/4NE1/4 sec. 36, T.8.S., R.1.E.) to headwaters 3C 4	2В
Salt Creek from Nephi diversion to headwaters A 4	2B 3
Currant Creek from mouth of Goshen Canyon to Mona Reservoir A 4	2B 3
Currant Creek from Mona Reservoir to headwaters A 4	2B 3
Peteetneet Creek and tributaries, from irrigation diversion above Maple Dell to headwaters A 4	2B 3
Summit Creek and tributaries (above Santaquin), from U.S. National Forest boundary to headwaters A 4	2B 3
All other permanent streams entering Utah Lake 3B 4	2В

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 Sevier River from Gunnison Bend Reservoir to Clear Lake 2B 4* 3C Beaver River and tributaries, from Minersville City to headwaters 2B 3 4 Α Little Creek and tributaries, from irrigation diversion to headwaters 2B 3 4 Α Pinto Creek and tributaries, from Newcastle Reservoir to headwaters 2B 3 4 Α Coal Creek and tributaries 2B 3 Α 4 Summit Creek and tributaries 2B 3 4 Α Parowan Creek and tributaries 2B 3 Α 4

Tributaries to Sevier River from	
Sevier Lake to Gunnison Bend	
Reservoir from U.S. National Forest	
boundary to headwaters, including:	2B 3
A 4	
Pioneer Creek and tributaries,	
Millard County	2B 3
A 4	
Chalk Creek and tributaries,	
Millard County	2B 3
A 4	
Meadow Creek and tributaries,	
Millard County	2B 3
A 4	
Corn Creek and tributaries,	
Millard County	2B 3
A 4	
Sevier River and tributaries, below	
U.S. National Forest boundary from	
Gunnison Bend Reservoir to	
Annabella Diversion, except	
as listed below	2B
3B 4	
Sevier River between Gunnison	
Bend Reservoir and DMAD Reservoir	2B
3B 4*	20
Oak Creek and tributaries	
Millard County	2B 3

А	4	
A	Round Valley Creek and tributaries, Millard County 4	2B 3
A	Judd Creek and tributaries, Juab County 4	2B 3
A	Meadow Creek and tributaries, Juab County 4	2B 3
A	Cherry Creek and tributaries, Juab County 4	2B 3
3E	Tanner Creek and tributaries, Juab County 4	2B
3D	Baker Hot Springs, Juab County 4	2В
A	Chicken Creek and tributaries, Juab County 4	2B 3
30	San Pitch River and tributaries, from confluence with Sevier River to Highway U-132 crossing, except as listed below: 3D 4	2B

	San Pitch River from below	
	Gunnison Reservoir to the	
	Sevier River	2B
3C 3E) 4*	
	Twelve Mile Creek (South Creek)	
	and tributaries, from U.S.	
	National Forest boundary	
	to headwaters	2B 3
Α	4	
	Six Mile Creek and	
	tributaries, Sanpete County	2B 3
Α	4	
	Manti Creek (South Creek) and	
	tributaries, from U.S. National	
	Forest boundary to headwaters	2B 3
Α	4	
	Ephraim Creek (Cottonwood Creek)	
	and tributaries, from U.S.	
	National Forest to headwaters	2B 3
Α	4	
	Oak Creek and tributaries, from	
	U.S. National Forest boundary	
	near Spring City to headwaters	2B 3
Α	4	
	Fountain Green Creek and	
	tributaries, from U.S. National	
	Forest boundary to headwaters	2B 3
Α	4	

San Pitch River and tributaries, from Highway U-132 crossing to headwaters A 4	2B 3
Lost Creek from the confluence with Sevier River to U.S. National Forest boundary 3C 3D 4*	2В
Brine Creek-Petersen Creek from the confluence with the Sevier River to Highway U-119 Crossing 3C 3D 4*	2В
Tributaries to Sevier River from Gunnison Bend Reservoir to Annabella diversion from U.S. National Forest boundary to headwaters A 4	2B 3
Sevier River and tributaries, from Annabella diversion to headwaters A 4	2B 3
Monroe Creek and tributaries, from diversion to headwaters A 4	2B 3
Little Creek and tributaries, from irrigation diversion to headwaters A 4	2B 3
Pinto Creek and tributaries, from Newcastle Reservoir to headwaters	2B 3

А	4		
Coal Creek	and tributaries		2B 3
Summit Cree	ek and tributaries 4		2B 3
Parowan Cre	eek and tributaries 4		2B 3
Duck Creek A	and tributaries 4	1 C	2B 3
(*) Site-s	specific criteria are a	ssociated wi	th th

13.7 Great Salt Lake Basin

a. Western Great Salt Lake Drainage

TABLE	
Grouse Creek and tributaries, Box Elder County A 4	2B 3
Muddy Creek and tributaries, Box Elder County A 4	2B 3
Dove Creek and tributaries, Box Elder County A 4	2B 3
Pine Creek and tributaries, Box Elder County A 4	2B 3
Rock Creek and tributaries, Box Elder County A 4	2B 3
Fisher Creek and tributaries, Box Elder County A 4	2B 3
Dunn Creek and tributaries, Box Elder County A 4	2B 3
Indian Creek and tributaries, Box Elder County A 4	2B 3

Tenmile Creek and tributaries, Box Elder County A 4		2B 3
Curlew (Deep) Creek, Box Elder County A 4		2B 3
Blue Creek and tributaries, Box Elder County, from Bear River Bay, Great Salt Lake to Blue Creek Reservoir 3D 4*		2B
Blue Creek and tributaries from Blue Creek Reservoir to headwaters 3B 4*		2B
All perennial streams on the east slope of the Pilot Mountain Range	1 C	2B 3
Donner Creek and tributaries, from irrigation diverion to Utah-Nevada state line A 4		2B 3
Bettridge Creek and tributaries, from irrigation diverion to Utah-Nevada state line A 4		2B 3
North Willow Creek and tributaries, Tooele County A 4		2B 3

South Willow Creek and tributaries, Tooele County A 4		2B	3
Hickman Creek and tributaries, Tooele County A 4		2B	3
Barlow Creek and tributaries, Tooele County A 4		2B	3
Clover Creek and tributaries, Tooele County A 4		2B	3
Faust Creek and tributaries, Tooele County A 4		2B	3
Vernon Creek and tributaries, Tooele County A 4		2B	3
Ophir Creek and tributaries, Tooele County A 4		2B	3
Soldier Creek and tributaries, from the Drinking Water Treamtent Facility to headwaters, Tooele County A 4	1 C	2B	3
Settlement Canyon Creek and tributaries, Tooele County		2B	3

А	4	
Middle Canyo Tooele Count A	n Creek and tributaries, y 4	2B 3
Tank Wash an Tooele Count A	d tributaries, y 4	2B 3
	and tributaries, ele Counties 4	2B 3
Thomas Creek Juab County A	and tributaries,	2B 3
Indian Farm Juab County A	Creek and tributaries,	2B 3
Cottonwood C Juab County A	reek and tributaries,	2B 3
Red Cedar Cr Juab County A	eek and tributaries,	2B 3
Granite Cree Juab County A	k and tributaries,	2B 3
Trout Creek	and tributaries,	

Juab County A 4	2B 3
Birch Creek and tributaries, Juab County A 4	2B 3
Deep Creek and tributaries, from Rock Spring Creek to headwaters, Juab and Tooele Counties A 4	2B 3
Cold Spring, Juab County 3C 3D	2В
Cane Spring, Juab County 3C 3D	2В
Lake Creek, from Garrison (Pruess) Reservoir to Nevada state line A 4	2B 3
Snake Creek and tributaries, Millard County 3B 4	2В
Salt Marsh Spring Complex, Millard County A	2B 3
Twin Springs, Millard County 3B	2В
Tule Spring, Millard County 3C 3D	2В

Coyote Spring Complex, Millard County 2B 3C 3D Hamblin Valley Wash and tributaries, from Nevada state line to headwaters (Beaver and Iron Counties) 2B 3D 4 Indian Creek and tributaries, Beaver County, from Indian Creek Reservoir to headwaters 2B 3 Α Shoal Creek and tributaries, Iron County 2B 3 4 Α (*) Site-specific criteria are associated with th is use.

b. Farmington Bay Drainage

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

tributaries, al Forest
waters 1C 2B 3
ributaries, from o Interstate 15 2B
ributaries, from
U.S. Highway 89 2B
ributaries, from to headwaters 1C 2B 3
d tributaries, from rest boundary to 1C 2B 3
and tributaries, Bay Waterfowl to U.S. National 2B
and tributaries, al Forest waters 1C 2B 3
and tributaries, Bay Waterfowl to U.S. National 2B and tributaries, al Forest

Davis aqueduct to headwaters A 4	2	2B 3
Steed Creek and tributaries, from U.S. National Forest boundary to headwaters A 4	1C 2	B 3
Davis Creek and tributaries, from U.S. Highway 89 to headwaters A 4	2	B 3
Lone Pine Creek and tributaries, from U.S. Highway 89 to headwaters	2	B 3
Ricks Creek and tributaries, from Highway Interstate 15 to headwaters A 4	1C 2	B 3
Barnard Creek and tributaries, from U.S. Highway 89 to headwaters	2	B 3
Parrish Creek and tributaries, from Davis Aqueduct to headwaters A 4	2	2B 3
Deuel Creek and tributaries, (Centerville Canyon) from Davis Aqueduct to headwaters A 4	2	!В З
Stone Creek and tributaries, from Farmington Bay Waterfowl Management		

Area to U.S. National Forest Boundary A 4	2B 3
Stone Creek and tributaries, from U.S. National Forest boundary to headwaters 1C A 4	2B 3
Barton Creek and tributaries, from U.S. National Forest boundary to headwaters A 4	2B 3
Mill Creek (Davis County) and tributaries, from confluence with State Canal to U.S. National Forest boundary 3B 4	2В
Mill Creek (Davis County) and tributaries, from U.S. National Forest boundary to headwaters 1C A 4	2B 3
North Canyon Creek and tributaries from U.S. National Forest boundary to headwaters A 4	2B 3
Howard Slough 3C 4	2B
Hooper Slough 3C 4	2B

Willard Slough 3C 4		2В
Willard Creek to Headwaters A 4	1 C	2B 3
Chicken Creek to Headwaters A 4	10	2B 3
Cold Water Creek to Headwaters	1 C	2B 3
One House Creek to Headwaters	1 C	2B 3
A 4 Garner Creek to Headwaters	1 C	2B 3
A 4		

^{13.8} Snake River Basin

a. Raft River Drainage (Box Elder County)

TABLE Raft River and tributaries 2B 3 Clear Creek and tributaries, from Utah-Idaho state line to headwaters 2B 3 Onemile Creek and tributaries, from Utah-Idaho state line to headwaters 2B 3 Α George Creek and tributaries, from Utah-Idaho state line to headwaters 2B 3 Α Johnson Creek and tributaries, from Utah-Idaho state line to headwaters 2B 3 Α 4 Birch Creek and tributaries, from state line to headwaters 2B 3 Α Pole Creek and tributaries, from state line to headwaters 2B 3 Α Goose Creek and tributaries 2B 3 Hardesty Creek and tributaries, from

state li	ne to headwaters	2B 3
Α	4	
Meadow Ci	reek and tributaries,	
from sta	te line to headwaters	2B 3
Α	4	

13.9 All irrigation canals and ditches statewide, except as otherwise designated: 2B, 3E, 4

13.10 All drainage canals and ditches statewide, except as otherwise designated: 2B, 3E

13.11 National Wildlife Refuges and State

Waterfowl Management Areas, and other Areas Associated with the Great Salt Lake

```
TABLE
Bear River National Wildlife
Refuge, Box Elder County
                                               2B
3B
      3D
Bear River Bay
      Open Water below approximately
        4,208 ft.
5C
      Transitional Waters approximately
        4,208 ft. to Open Water
5E
      Open Water above approximately
       4,208 ft.
                                               2B
3B
      3D
Browns Park Waterfowl Management
Area, Daggett County
                                               2B 3
Α
  3D
Clear Lake Waterfowl Management
Area, Millard County
                                               2B
3C 3D
Desert Lake Waterfowl Management
Area, Emery County
                                               2B
3C 3D
Farmington Bay WaterfowlManagement Area, Davis and
Salt Lake Counties
                                               2B
3C 3D
```

```
Farmington Bay
      Open Water below approximately
        4,208 ft.
5D
      Transitional Waters approximately
         4,208 ft. to Open Water
5E
      Open Water above approximately
         4,208 ft.
                                               2B
3B
      3D
Fish Springs National
Wildlife Refuge, Juab County
                                               2B
3C 3D
Harold Crane Waterfowl
Management Area, Box Elder
                                               2B
County
3C 3D
Gilbert Bay
      Open Water below approximately
         4,208 ft.
5A
      Transitional Waters approximately
         4,208 ft. to Open Water
5E
      Open Water above approximately
         4,208 ft.
                                               2B
3B
      3D
Gunnison Bay
```

	Open Water below approximately 4,208 ft.	
5B	Transitional Waters approximately 4,208 ft. to Open Water	
5E	Open Water above approximately	
	4,208 ft.	2B
3B	3D	
	rd Slough Waterfowl gement Area, Weber County D	2B
Mana 3B		2В
_	n Bay Waterfowl Management , Weber County D	2B
	y National Wildlife Refuge, ah County 3D	2B
	ll Slough Waterfowl gement Area, Utah County D	2В
	ic Shooting Grounds Waterfowl gement Area, Box Elder County D	2В
Salt	Creek Waterfowl Management	

Area, Box Elder County 3C 3D	2В
Stewart Lake Waterfowl Management Area, Uintah County 3B 3D	2В
Timpie Springs Waterfowl Management Area, Tooele County 3B 3D	2В

13.12 Lakes and Reservoirs. All lakes and any reservoirs greater than 10 acres 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	2B 3
A 4	
Manderfield Reservoir	2B 3
A 4	
LaBaron Reservoir	2B 3
A 4	
Kents Lake	2B 3
A 4	
Minersville Reservoir	2B 3
A 3D 4	
Puffer Lake	2B 3
A	
Three Creeks Reservoir	2B 3
A 4	

b. Box Elder County

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

c. Cache County

			Ì
TABLE			
Hyrum Re	eservoir	2A	3
A	4		
Newton I	Reservoir	2B	3
Α	4		
Porcupi	ne Reservoir	2B	3
Α	4		
Pelican	Pond	2B	
3B	4		
Tony Gro	ove Lake	2B	3
A	4		

d. Carbon County

TABLE				
Grassy Trail Cro	eek Reservoir	1C	2B 3	
A 4				
Olsen Pond			2B	
3B 4				
Scofield Reserve	oir :	1C	2B 3	
A 4				

e. Daggett County

TABLE				
Browne Re	eservoir		2B	3
A	4			
Daggett I	aka		2B	2
Daggett L	-ake		ΖD	5
Α	4			
Flaming G	Gorge Reservoir (Utah			
portion)	· ·	1C 2A		3
A	4			
Long Park	<pre>Reservoir</pre>	1C	2B	3
А	4			
Sheen Cre	eek Reservoir		2B	3
A	4		20	,
Spirit La	ake		2B	3
Α	4			
Upper Pot	ter Lake		2B	3
				_
Α	4			

f. Davis County

TABLE	
Farmington Donds	2B 3
Farmington Ponds	2B 3
A 4	
Kaysville Highway Pond	ds 2B 3
A 4	
Holmes Creek Reservoi	r 2B
	20
3B 4	

g. Duchesne County

TABLE				
Allred Lake			2B	3
А	4			
Atwine Lake			2B	3
А	4			
Atwood Lake			2B	3
A	4			
Betsy Lake			2B	3
А	4			
Big Sandwash	Reservoir	1 C	2B	3
A	4			
Bluebell Lak	2		2B	3
A	4			
Brown Duck Ro	eservoir		2B	3
Α	4			-
Butterfly La	(A		2B	3
A	4		20	,
Cedarview Re	servoir		2B	3
A A	4		20	3
Chain Lake #:	1		2B	3
A	4		20	,
Chepeta Lake			2B	3
chepeta Lake			20	,

Α	4	
Clements Res		2B 3
А	4	
Cleveland La	ke 4	2B 3
A	4	
Cliff Lake		2B 3
А	4	
Continent Lal		2B 3
Α	4	
Crater Lake		2B 3
Α	4	
Crescent Lake	e	2B 3
Α	4	
Daynes Lake		2B 3
А	4	
Dean Lake		2B 3
Α	4	
Doll Lake		2B 3
Α	4	
Drift Lake		2B 3
A	4	<i>_ U J</i>
Fiber 1 - lee		20.2
Elbow Lake A	4	2B 3

Farmers Lake	4	2B	3
Fern Lake A	4	2B	3
Fish Hatchery	/ Lake 4	2B	3
Five Point Re	eservoir 4	2B	3
Fox Lake Rese		2B	3
A Governors Lal	4 «e	2B	3
A Granddaddy La	4 ake	2B	3
A Hoover Lake	4	2B	3
А	4		
Island Lake A	4	2B	3
Jean Lake A	4	2B	3
Jordan Lake A	4	2B	3
Kidney Lake A	4	2B	3

Kidney Lake West A 4		2B	3
Lily Lake A 4		2B	3
Midview Reservoir (Lake Boreham) 3B 4		2B	
Milk Reservoir A 4		2B	3
Mirror Lake A 4		2B	3
Mohawk Lake A 4		2B	3
Moon Lake	1C 2A		3
A 4 North Star Lake		2B	3
A 4 Palisade Lake		2B	3
A 4 Pine Island Lake		2B	3
A 4 Pinto Lake		2B	3
A 4			
Pole Creek Lake		2B	3

Α	4				
Potters Lake A	4			2B	3
Powell Lake A	4			2B	3
Pyramid Lake A	4		2A		3
Queant Lake A	4			2B	3
Rainbow Lake A	4			2B	3
Red Creek Res	ervoir 4			2B	3
Rudolph Lake A	4			2B	3
Scout Lake A	4		2A		3
Spider Lake A	4			2B	3
Spirit Lake	4			2B	3
Starvation Re		1 C	2A		3

Superior Lake	2		2B	3
А	4			
Swasey Hole I	Reservoir		2B	3
А	4			
Taylor Lake			2B	3
А	4			
Thompson Lake	2		2B	3
А	4			
Timothy Rese	rvoir #1		2B	3
А	4			
Timothy Rese	rvoir #6		2B	3
А	4			
Timothy Rese	rvoir #7		2B	3
A	4			
Twin Pots Re	servoir	1 C	2B	3
А	4			
Upper Stillwa	ater Reservoir	1 C	2B	3
A	4			
X - 24 Lake			2B	3
A 24 Luke	4		20	,

TABLE			
Clevela	and Reservoir	2B	3
A	4		
Electri	ic Lake	2B	3
А	4		
Hunting	gton Reservoir	2B	3
A	4		
Hunting	gton North Reservoir	2A	
3B	4		
Joes Va	alley Reservoir	2A	3
A	4		
Millsit	te Reservoir	1C 2A	3
A	4		

i. Garfield County

ΤΔ	ABLE			
Ва	irney Lake		2B	3
Α		4		
	clone Lake		2B	3
Α		4		
	er Lake		2B	3
Α		4		
	cobs Valley	Reservoir	2B	
30	3D 4			
	ower Bowns R		2B	3
Α		4		
	orth Creek R		2B	3
Α		4		
	nguitch Lak		2B	3
Α		4		
Pi	ne Lake		2B	3
Α		4		
0a	ık Creek Res	ervoir (Upper Bowns)	2B	3
Α		4		
P1	easant Lake.		2B	3
А		4		
Pc	sey Lake		2B	3

A	4		
Purple Lake		2B	3
A	4		
Raft Lake A	4	2B	3
Row Lake #3	4	2B	3
Row Lake #7		2B	3
Α	4		-
Spectacle R	eservoir	2B	3
А	4		
Tropic Rese	rvoir	2B	3
А	4		
West Deer L		2B	3
A	4		
Wide Hollow	Reservoir	2B	3
А	4		

j. Iron County

TABLE		
Newcast:	le Reservoir	2B 3
Α	4	
Red Cree	ek Reservoir	2B 3
Α	4	
Yankee I	Meadow Reservoir	2B 3
Α	4	

k. Juab County

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

l. Kane County

TABLE

Navajo Lake

A 4

m. Millard County

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

n. Morgan County

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

o. Piute County

TABLE		
Dames V. D		20.2
Barney R	deservoir 4	2B 3
A	4	
Lower Bo	oxcreek Reservoir	2B 3
Α	4	
Manning	Meadow Reservoir	2B 3
Α	4	
Otter Cr	reek Reservoir	2B 3
A	4	25 5
Piute Reservoir		2B 3
Α	4	
Upper Bo	xcreek Reservoir	2B 3
Α	4	

p. Rich County

TA	ABLE		
Be	ear Lake (Utah portion) 2A 4		3
Bi A	irch Creek Reservoir 4	2B	3
Li A	ittle Creek Reservoir 4	2B	3
Wo	oodruff Creek Reservoir 4	2B	3

q. Salt Lake County

TABLE		
Decker Lake 3B 3D 4		2B
Lake Mary A	1 C	2B 3
Little Dell Reservoir A	1 C	2B 3
Mountain Dell Reservoir A	1 C	2B 3

r. San Juan County

TABLE		
Blanding Reservoir #4	1 C	2B 3
A 4		
Dark Canyon Lake A 4	1 C	2B 3
Kens Lake A* 4		2B 3
Lake Powell (Utah portion) 3B 4	1C 2A	A
Lloyds Lake	1 C	2B 3
A 4		
Monticello Lake A 4		2B 3
Recapture Reservoir		2B 3
<pre>(*) Site-specific criteria are associa is use.</pre>	ated wi	th th

s. Sanpete County

TABLE		
Duck Fork Reservoir		2B 3
A 4		
Fairview Lakes	1 C	2B 3
A 4		
Ferron Reservoir		2B 3
A 4		20 3
Lower Gooseberry Reservoir	1 C	2B 3
A 4		
Gunnison Reservoir		2B
3C 4		
Island Lake		20.2
A 4		2B 3
Miller Flat Reservoir		2B 3
A 4		
Ninemile Reservoir		2B 3
A 4		
Palisade Reservoir	24	3
A 4		
Rolfson Reservoir		2B
3C 4		
Twin Lakes		2B 3

А	4	
Willow Lake		2B 3
Α	4	

t. Sevier County

TABLE Annabella Reservoir 2B 3 4 Big Lake 2B 3 4 Α 2B 3 Farnsworth Lake 4 Fish Lake 2B 3 Α 4 Forsythe Reservoir 2B 3 4 Α Johnson Valley Reservoir 2B 3 A 4 Koosharem Reservoir 2B 3 A 4 Lost Creek Reservoir 2B 3 A 4 Redmond Lake 2B 3B 4 Rex Reservoir 2B 3 4 Salina Reservoir 2B 3

А	4	
Sheep Valle	ey Reservoir 4	2B 3

u. Summit County

TABLE			
Abes Lake		2B	3
А	4		
Alexander Lak	ce c	2B	3
Α	4		
Amethyst Lake		2B	3
A	4		,
B Lala		2.0	2
Beaver Lake A	4	2B	3
Beaver Meadow A	Reservoir 4	2B	3
^	7		
Big Elk Reser		2B	3
А	4		
Blanchard Lak	ce	2B	3
А	4		
Bridger Lake		2B	3
А	4		
China Lake		2B	3
А	4		
Cliff Lake		2B	3
Α	4		_
Clyda Laka		2B	2
Clyde Lake		∠D	5

А	4	
Coffin Lak		2B 3
A	4	
Cuberant L		2B 3
A	4	
East Red C	astle Lake	2B 3
A	4	
Echo Reser	voir	1C 2A 3
A	4	
Fish Lake		2B 3
A	4	
Fish Reser	voir	2B 3
A	4	
Haystack R	eservoir #1	2B 3
A	4	
Henrys For	k Reservoir	2B 3A
4		
Hoop Lake		2B 3
A	4	
Island Lak	e	2B 3
A	4	
Island Res	ervoir	2B 3
A	4	25 3
Jesson Lak	e	2B 3

Α	4	
Kamas Lake A	4	2B 3
Lily Lake A	4	2B 3
Lost Reservo A	ir 4	2B 3
Lower Red Ca A	stle Lake 4	2B 3
Lyman Lake A	4	2A 3
Marsh Lake A	4	2B 3
Marshall Lak A	e 4	2B 3
McPheters La A	ke 4	2B 3
Meadow Reser A	voir 4	2B 3
Meeks Cabin A	Reservoir 4	2B 3
Notch Mounta A	in Reservoir 4	2B 3

Red Castle La	ke 4		2B	3
Rockport Rese	rvoir 4	1C 2A		3
Ryder Lake A	4		2B	3
Sand Reservoi			2B	3
A Scow Lake	4		2B	3
A Smith Mooreho	4 use Reservoir	1 C	2B	3
A Stan Lake	4		20	2
Star Lake A	4		2B	3
Stateline Res	ervoir 4		2B	3
Tamarack Lake	4		2B	3
Trial Lake	4	1 C	2B	3
Upper Lyman L			2B	3
A Upper Red Cas	4 tle		2B	3
A	4			

Wall Lake Reservoir 2B 3
A 4
Washington Reservoir 2B 3
A 4
Whitney Reservoir 2B 3
A 4

v. Tooele County

TABLE	
Blue Lake 3B 4	2В
Clear Lake 3B 4	2В
Grantsville Reservoir A 4	2B 3
Horseshoe Lake 3B 4	2В
Kanaka Lake 3B 4	2В
Rush Lake 3B	2В
Settlement Canyon Reservoir A 4	2B 3
Stansbury Lake 3B 4	2В
Vernon Reservoir	2B 3

TABLE Ashley Twin Lakes (Ashley Creek) 1C 2B 3 4 Α Bottle Hollow Reservoir 2B 3 Brough Reservoir 2B 3 Α 4 Calder Reservoir 2B 3 4 Α Crouse Reservoir 2B 3 Α 4 East Park Reservoir 2B 3 Α Fish Lake 2B 3 Α 4 Goose Lake #2 2B 3 4 Α 2B 3 Matt Warner Reservoir Α Oaks Park Reservoir 2B 3 4 Paradise Park Reservoir 2B 3

A	4				
Pelican L 3B	-ake 4			2B	
Red Fleet	Reservoir 4	1 C	2A		3
Steinaker A	Reservoir 4	1 C	2A		3
Towave Re	eservoir 4			2B	3
Weaver Re	eservoir 4			2B	3
Whiterock A	ks Lake 4			2B	3
Workman L	₋ake 4			2B	3

x. Utah County

TABLE	
Big East Lake	2B 3
A 4	20 3
Salem Pond	2A 3
A 4	
Silver Flat Lake Reservoir A 4	2B 3
Tibble Fork Resevoir A 4	2B 3
Utah Lake	2A
3B 3D 4	ZA

y. Wasatch County

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

z. Washington County

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

TABLE		
Blind Lake		2B 3
А	4	
Cook Lake		2B 3
А	4	
Donkey Rese	rvoir	2B 3
Α	4	
Fish Creek	Reservoir	2B 3
А	4	
Mill Meadow	Reservoir	2B 3
А	4	
Raft Lake		2B 3
А	4	

bb. Weber County

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

All waters not specifically classified are presumptively classified: 2B, 3D

R317-2-14. Numeric Criteria.

Α	D I	[=	2	. •	1 /	1		1
А	D I	ட	=	_	_	14	+	_	

NUMER

IC CRITERIA FOR DOMESTIC,

RECREA

TION, AND AGRICULTURAL USES

Domestic Recreation

and Agri-

Parameter Source Aestheti

cs culture

1C(1) 2A

2B 4

BACTERIOLOGICAL

(30-DAY GEOMETRIC

MEAN) (NO.)/100 ML) (7)

E. coli 206 126

206

MAXIMUM

(NO.)/100 ML) (7)

E. coli 668 409

668

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	4.0	
	Nitrates as N	10	
	Total Dissolved		
	Solids (4)		
1200			
		RADIOLOGICAL	
	(MAXIMUM pCi/L)		
	Gross Alpha	15	
15			
	Gross Beta	4 mrem/yr	Radium 22
	di 033 Deta	· c, y ·	Naaram 22
6, 2		, y.	Naaram 22

Strontium 90	8		
Tritium	20000		
Uranium	30		
ORGANICS			
(MAXIMUM UG/L)			
2,4-D 94-75-7	70		
2,4,5-TP 93-72-1	10		
Alachlor 15972-60-8	2		
Atrazine 1912-24-9	3		
Carbofuran 1563-66-2	40		
Dichloroethylene (cis-	_		
1,2) 156-59-2	70		
Dalapon 75-99-0	200		
Di(2ethylhexl)adipate			
103-23-1	400		
Dibromochloropropane			
96-12-8	0.2		
Dinoseb 88-85-7	7		
Diquat 85-00-7	20		
Endothall 145-73-3	100		
Ethylene Dibromide			
106-93-4	0.05		
Glyphosate 1071-83-6	700		
Xylenes 1330-20-7	10,000		
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	

- (1) See also numeric criteria for water and o rganism in Table 2.14.6.
- (2) The dissolved metals method involves filt ration of the sample in the field, acidification of the sample i n the field, no digestion process in the laboratory, and analysis by approved laboratory methods for the required detection leve ls.
 - (3) Reserved
- (4) SITE SPECIFIC STANDARDS FOR TOTAL DISSOLV ED SOLIDS (TDS)

Blue Creek and tributaries, Box Elder County, from Bear River

Bay, Great Salt Lake to Blue Creek Reservoir:

March through October daily maximum 4,900 mg/l and an average of

3,800 mg/l; November through February daily maximu m 6,300 mg/l

and an average of 4,700 mg/l. Assessments will be based on TDS

concentrations measured at the location of STORET 4960740.

Blue Creek Reservoir and tributaries, Box Elder County,

daily maximum 2,100 mg/l;

Castle Creek from confluence with the Colorado Riv er to Seventh

Day Adventist Diversion: 1,800 mg/l;

```
Cottonwood Creek from the confluence with Huntingt
on Creek to
Highway U-57: 3,500 mg/l;
Ferron Creek from the confluence with San Rafael R
iver to Highway
U-10: 3,500 mg/l;
Huntington Creek and tributaries from the confluen
ce with
Cottonwood Creek to Highway U-10: 4,800 mg/l;
Ivie Creek and its tributaries from the confluence
with Muddy
Creek to the confluence with Quitchupah Creek: 3,
800 mg/l
provided that total sulfate not exceed 2,000 mg/l
protect the livestock watering agricultural existi
ng use;
Ivie Creek and its tributaries from the confluence
with
Quitchupah Creek to Highway U-10: 2,600 mg/l;
Lost Creek from the confluence with Sevier River t
o U.S.
National Forest boundary: 4,600 mg/l;
Muddy Creek and tributaries from the confluence wi
th Ivie Creek
to Highway U-10: 2,600 mg/l;
Muddy Creek from confluence with Fremont River to
confluence with
```

```
Ivie 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 Rive
r to road
crossing above Stinking Springs: 3000 mg/l;
Brine Creek-Petersen Creek, from the confluence wi
th the Sevier
River to Highway U-119 Crossing: 9,700 mg/l;
Price River and tributaries from confluence with G
reen River to
confluence with Soldier Creek: 3,000 mg/l;
Price River and tributaries from the confluence wi
th Soldier
Creek to Carbon Canal Diversion: 1,700 mg/l;
Quitchupah Creek and tributaries from the confluen
ce with Ivie
Creek to Highway U-10: 3,800 mg/l provided that to
tal sulfate not
exceed 2,000 mg/l to protect the livestock waterin
g agricultural
existing use;
Rock Canyon Creek from the confluence with Cottonw
ood Creek to
headwaters: 3,500 mg/l;
San Pitch River from below Gunnison Reservoir to t
```

```
he Sevier
River: 2,400 mg/l;
San Rafael River from the confluence with the Gree
n 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/1;
Sevier River between Gunnison Bend Reservoir and D
MAD Reservoir:
1,725 mg/l;
Sevier River from Gunnison Bend Reservoir to Craft
s Lake:
3,370 \text{ mg/l};
Silver Creek and tributaries, Summit County, from
confluence
with Tollgate Creek to headwaters: maximum 1,900 m
g/L.
South Fork Spring Creek from confluence with Pelic
an Pond
Slough Stream to U.S. Highway 89 1,450 mg/l
(Apr.-Sept.)
                                        1,950 mg/l
(Oct.-March)
Virgin River from the Utah/Arizona border to Pah T
empe Springs:
2,360 mg/l
```

(5) Investigations should be conducted to dev elop more

information where these pollution indicator levels are exceeded.

These indicators are superseded by numeric criteri a in waters where promulgated.

(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 E. coli are

primarily from natural sources (wildlife), e.g., i
n National

Wildlife Refuges and State Waterfowl Management Ar eas, the

criteria may be considered attained provided the d ensity

attributable to non-wildlife sources is less than the criteria.

Exceedences of E. coli from nonhuman nonpoint sour ces will

generally be addressed through appropriate Federa 1, State, and

local nonpoint source programs.

Measurement of E. coli using the "Quanti-Tray 2000" procedure

is approved as a field analysis. Other EPA approve d methods may

also be used.

For water quality assessment purposes, up to 1 0% of

representative samples may exceed the 668 per 100 ml criterion

(for 1C and 2B waters) and 409 per 100 ml (for 2A waters). For

small datasets, where exceedences of these criteri a are

observed, follow-up ambient monitoring should be c onducted to

better characterize water quality.

```
TABLE
2.14.2
                                   NUMERIC CR
ITERIA FOR AQUATIC WILDLIFE(8)
    Parameter
                       Aquatic Wildlife
                        3A
                                3B
                                        3C
        5
3D
    PHYSICAL
    Total Dissolved
                        (1)
                               (1)
      Gases
    Minimum Dissolved Oxygen
      (MG/L) (2)(2a)
      30 Day Average 6.5
                                5.5
                                         5.0
5.0
      7 Day Average 9.5/5.0 6.0/4.0
      Minimum
                        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)(2a) 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	4 11 4	750	750	750
750	1 Hour Average	750	750	750
750				
	Arsenic (Trivalent)			
	4 Day Average	150	150	150
150	, 0			
	1 Hour Average	340	340	340
340				
	Cadmium (7)			
	4 Day Average	0.72	0.72	0.72
0.72				
	1 Hour Average	1.8	1.8	1.8
1.8				
	Chromium			
	(Hexavalent)			
	4 Day Average	11	11	11
11	1 Have Avenage	1.0	1.0	1.5
16	1 Hour Average	16	16	16
16	Chromium			
	(Trivalent) (7)			
	4 Day Average	74	74	74
74				
	1 Hour Average	570	570	570
570	2			
	Copper (7)			
	4 Day Average	9	9	9
9				

13	1 Hour Average	13	13	13
	Cyanide (Free)			
	4 Day Average	5.2	5.2	5.2
	1 Hour Average	22	22	22
22				
	Iron (Maximum)	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	0.01
2	0.012			
	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	, J			-
	1 Hour Average	18.4	18.4	18.4
18.4				
	Selenium (14)			
	Gilbert Bay (Class 5	A)		
	Great Salt Lake	• • /		
	S. Cat Juit Lunc			

12.5	Geometric Mean over Nesting Season (mg/kg dry wt)			
	Silver			
3.2	1 Hour Average (7)	3.2	3.2	3.2
	Tributyltin			
2	4 Day Average 0.072	0.072	0.072	0.07
	U	0.46	0.46	0.46
0.46				
	Zinc (7)			
	4 Day Average	120	120	120
120	1 Hours Avenage	120	120	120
120	1 Hour Average	120	120	120
	INORGANICS			
	(MG/L) (4)			
	Total Ammonia as N (9)			
(9a)	30 Day Average	(9a)	(9a)	(9a)
(34)	1 Hour Average	(9b)	(9b)	(9b)
(9b)				
	Chlorine (Total Residual)			
	4 Day Average	0.011	0.011	0.01
1	0.011 1 Hour Average	0.019	0.019	0.01
9	0.019			

	Hydrogen Sulfide			
	(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)			
	ORGANICS (UG/L) (4)			
	Acrolein			
	4 Day Average	3.0	3.0	3.0
3.0				
	1 Hour Average	3.0	3.0	3.0
3.0				
	Aldrin			
	1 Hour Average	1.5	1.5	1.5
1.5				
	Carbaryl			
	4 Day Average	2.1	2.1	2.1
2.1				
	1 Hour Average	2.1	2.1	2.1
2.1				
	Chlordane			
	4 Day Average	0.0043	0.0043	0.00
43	0.0043			
	1 Hour Average	1.2	1.2	1.2
1.2				
	Chlorpyrifos			
	4 Day Average	0.041	0.041	0.04
	, 3-	-	- -	

1	0.041			
		0.083	0.083	0.08
3	_			
	4,4' -DDT			
	4 Day Average	0.0010	0.0010	0.00
10	0.0010			
	1 Hour Average	0.55	0.55	0.55
0.55				
	Diazinon			_
	4 Day Average	0.17	0.17	0.17
0.17		0.17	0 17	0 17
0.17	8	0.17	0.17	0.17
0.17				
	Dieldrin			
	4 Day Average	0.056	0.056	0.05
6	0.056			
	1 Hour Average	0.24	0.24	0.24
0.24				
	Alpha-Endosulfan			
	4 Day Average	0.056	0.056	0.05
6	0.056			
	1 Hour Average	0.11	0.11	0.11
0.11				
	hata Fada 36			
	beta-Endosulfan	0.056	0.056	0.05
6	4 Day Average 0.056	0.056	0.056	0.05
0	1 Day Average	0.11	0.11	0.11
0.11		0.11	0.11	0.11
	Endrin			

	4 Day Average	0.036	0.036	0.03
6	0.036			
	1 Hour Average	0.086	0.086	0.08
6	0.086			
	Heptachlor			
	4 Day Average	0.0038	0.0038	0.00
38	0.0038			
	1 Hour Average	0.26	0.26	0.26
0.26				
	Heptachlor epoxide			
	4 Day Average	0.0038	0.0038	0.00
38	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	0.00
1	0.001			
	Nanylaharal			
	Nonylphenol	6 6	6 6	6.6
6.6	4 Day Average	6.6	6.6	0.0
0.0	1 Houn Avenage	28.0	28.0	28.0
28.0	1 Hour Average	20.0	20.0	20.0
20.0				

	Parathion			
	4 Day Average	0.013	0.013	0.01
3	0.013			
	1 Hour Average	0.066	0.066	0.06
6	0.066			
	DCD c			
	PCBs	0 014	0 014	0 01
4	4 Day Average	0.014	0.014	0.01
4	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	0.00
02	0.0002			
	1 Hour Average	0.73	0.73	0.73
0.73	}			
	POLLUTION			
	INDICATORS (10)			
	Gross Alpha (pCi/L)	15	15	15
15				
	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	
FOOT	NOTES:			

- (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 f or when

early life stages are present, second number is for when all

other life stages present.

(2a) These criteria are not applicable to Great Salt Lake

impounded wetlands. Surface water in these wetlan
ds shall be

protected from changes in pH and dissolved oxygen that create

significant adverse impacts to the existing beneficial uses.

To ensure protection of uses, the Director shall develop reasonable protocols and guidelines that quantify the

physical, chemical, and biological integrity of these waters.

These protocols and guidelines will include input from

local governments, the regulated community, and the general

public. The Director will inform the Water Quality Board of any protocols or guidelines that are developed.

- (3) Site Specific Standards for Temperature Kens Lake: From June 1st - September 20th, 27 degr ees C.
- (4) Where criteria are listed as 4-day averag e and

1-hour average concentrations, these concentration s should not

be exceeded more often than once every three years on the average.

(5) The dissolved metals method involves filt ration of

the sample in the field, acidification of the samp le in the

field, no digestion process in the laboratory, and analysis by

EPA approved laboratory methods for the required detection levels.

(6) The criterion for aluminum will be implem ented as

follows:

Where the pH is equal to or greater than $7.0\ a$ nd the

hardness is equal to or greater than 50 ppm as CaC 03 in the

receiving water after mixing, the 87 ug/1 chronic criterion

(expressed as total recoverable) will not apply, a
nd aluminum

will be regulated based on compliance with the 750 ug/1 acute

aluminum criterion (expressed as total recoverable).

(7) Hardness dependent criteria. 100 mg/l us ed.

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 CaC03,

calculations will assume a hardness of 400 mg/l as CaC03. See

```
Table 2.14.3 for complete equations for hardness a
nd conversion
factors.
    (8) See also numeric criteria for organism on
ly in
Table 2.14.6.
    (9) The following equations are used to calcu
late 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:
    mg/l as N (Chronic) = ((0.0577/(1+10<sup>7.688-pH</sup>)) +
(2.487/(1+
10^{\text{pH}-7.688}))) * MIN (2.85, 1.45*10^{0.028*(25-T)})
    Fish Early Life Stages are Absent:
    mg/1 as N (Chronic) = ((0.0577/(1+10<sup>7.688-pH</sup>)) +
(2.487/
(1+10^{pH-7.688})) * 1.45*10^{0.028*} (25-MAX(T,7))
    Mill Creek (Salt Lake County) from confluence
with Jordan River
to Interstate 15, Jordan River from 900 South Stre
et to confluence
with Mill Creek, Surplus Canal from 900 South Stre
et to diversion
from the Jordan River, Fish Early Life Stages are
 Present:
    mg/l as N (Chronic) = 0.9405 * ((0.0278/(1+10)
^{7.688-pH})) + ((1.1994/(1+10<sup>pH-7.688</sup>))) * MIN(6.920,(7.
547*10<sup>0.028*(20-T)</sup>)))
```

```
Mill Creek (Salt Lake County) from confluence
with Jordan River
to Interstate 15, Jordan River from 900 South Stre
et to confluence
with Mill Creek, Surplus Canal from 900 South Stre
et to diversion
from the Jordan River, Fish Early Life Stages are
Absent:
    mg/L as N (chronic) = 09.405 * (((0.0278/(1+10)
7.688-pH)) +
(1.1994/(1+10^{pH-7.688}))) * (7.547*10^{0.028*(20-MAX}(T,7)))
    (9b) The one-hour average concentration of tot
al ammonia
nitrogen (in mg/l as N) does not exceed, more than
once every
three years on the average the acute criterion cal
culated
using the following equations.
    Class 3A:
    mg/l \text{ as } N \text{ (Acute)} = (0.275/(1+10^{7.204-pH})) + (3)
9.0/1+10^{pH-7.204})
    Class 3B, 3C, 3D:
    mg/l as N (Acute) = 0.411/(1+10^{7.204-pH})) + (58.
4/(1+10^{pH-7.204})
    Mill Creek (Salt Lake County) from confluence
with Jordan River
to Interstate 15, Jordan River from 900 South Stre
et to confluence
with Mill Creek, Surplus Canal from 900 South Stre
et to diversion
from the Jordan River:
    mg/l as N (Acute) = 0.729 * (((0.0114/(1+10<sup>7.20</sup>)
<sup>4-pH</sup>))+(1.6181/
(1+10^{pH-7.204})) * MIN(51.93,(62.15*10<sup>0.036*(20-T)</sup>))
    In addition, the highest four-day average with
```

in the 30-day period should not exceed 2.5 times the chronic cri terion. The "Fish Early Life Stages are Present" 30-day av erage total ammonia criterion will be applied by default unles s it is determined by the Director, on a site-specific bas is, that it is appropriate to apply the "Fish Early Life Stage" s are Absent" 30-day average criterion for all or some p ortion of the year. At a minimum, the "Fish Early Life Stag es are Present" criterion will apply from the beginning o f spawning through the end of the early life stages. Early 1 ife stages include the pre-hatch embryonic stage, the post-ha tch free embryo or yolk-sac fry stage, and the larval stage for the species of fish expected to occur at the site. Th e Director will consult with the Division of Wildlife Resourc es in making such determinations. The Division will maintain i nformation regarding the waterbodies and time periods where a pplication of the "Early Life Stages are Absent" criterion is determined to be appropriate.

(10) Investigation should be conducted to dev

elop more

information where these levels are exceeded.

(11) pH dependent criteria. pH 7.8 used in t able. See

Table 2.14.4 for equation.

(12) Total Phosphorus as $P \ (mg/l)$ as a pollut ion indicator

for lakes and reservoirs shall be 0.025. These ind icators are

superseded by numeric criteria in waters where pro mulgated.

- (13) Reserved
- (14) The selenium water quality standard of 12.5 (mg/kg dry

weight) for Gilbert Bay is a tissue based standard using the

complete egg/embryo of aquatic dependent birds usi ng Gilbert Bay

based upon a minimum of five samples over the nest ing season.

Assessment procedures are incorporated as a part of this

standard as follows:

Egg Concentration Triggers: DWQ Responses

Below 5.0 mg/kg: Routine monitoring with sufficien t intensity

to determine if selenium concentrations within the Great Salt

Lake ecosystem are increasing.

5.0 mg/kg: Increased monitoring to address data ga
ps,

loadings, and areas of uncertainty identified from

initial Great
Salt Lake selenium studies.

6.4 mg/kg: Initiation of a Level II Antidegradatio
n review by the

State for all discharge permit renewals or new discharge permits

to Great Salt Lake. The Level II Antidegradation review may

include an analysis of loading reductions.

9.8 mg/kg: Initiation of preliminary TMDL studies
to evaluate
selenium loading sources.

12.5 mg/kg and above: Declare impairment. Formaliz
e and
implement TMDL.

Antidegradation

Level II Review procedures associated with this st andard are

referenced at R317-2-3.5.C.

1.5		TAB					
LE		1-HOUR AV					
ERAGE (ACUTE) CONCENTRATION OF TO							
TAL AMMONIA AS N	(MG/L)						
рН	Class 3A	Class 3					
B, 3C, 3D	22.6	4					
6.5 8.8	32.6	4					
6.6	31.3	4					
6.8							
6.7	29.8	4					
4.6 6.8	28.1	4					
2.0							
6.9	26.2	3					
9.1 7.0	24.1	3					
6.1	24.1	3					
7.1	22.0	3					
2.8							
7.2 9.5	19.7	2					
7.3	17.5	2					
6.2							
7.4	15.4	2					
7.5	13.3	1					
9.9							
7.6	11.4	1					
7.0	0.65	1					
7.7	9.65	1					

1			
4.4			
	7.8	8.11	1
2.1			
	7.9	6.77	1
0.1			
	8.0	5.62	8.
40			
	8.1	4.64	6.
95			
	8.2	3.83	5.
72	• • •		
, -	8.3	3.15	4.
71	0.3	3.13	→•
/ 1	8.4	2.59	3.
88	0.4	2.33	٥.
00	0 5	2 14	3.
20	8.5	2.14	٥.
20	0.6	4 77	2
	8.6	1.77	2.
65			
	8.7	1.47	2.
20			
	8.8	1.23	1.
84			
	8.9	1.04	1.
56			
	9.0	0.89	1.
32			

LE

30-DAY AVE

RAGE (CHRONIC) CONCENTRATION OF

TO

TAL AMMONIA AS N (MG/1)

Fish Early Life Stages Present Temperature, C

			Temperature,			С	
рН	0	14	16	18	20	22	24
26	28	30					
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62
3.18	2.80	2.46					
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56
3.13	2.75	2.42					
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50
3.07	2.70	2.37					
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42
3.00	2.64	2.32					
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32
2.92	2.57	2.25					
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21
2.82	2.48	2.18					
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08
2.70	2.38	2.09					
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92
2.57	2.26	1.99					
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76
2.42	2.13	1.87					
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57
2.26	1.98	1.74					
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37
2.08	1.83	1.61					

7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16
1.90	1.67	1.47					
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94
1.71	1.50	1.32					
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73
1.52	1.33	1.17					
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
	0.24						
9.0	0.49	0.49	0.44	0.39	0.34	0.30	0.26
0.23	0.20	0.18					
I .							

							TAB
LE						30-DAY	AVE
RAGE (CH	RONIC) C	ONCENT	RATION	OF			
							ТО
TAL AMMO	NIA AS N	(MG/1)				
		Fish	Early	Life S	tages	Absent	
			Temp	eratur	e, C		
рН	0-7	8	9	10	11	12	13
14 16							
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.3
6 6.89	6.06						
6.6	10.7	9.99	9.37	8.79	8.24	7.72	7.2
4 6.79	5.97						
6.7	10.5	9.81	9.20	8.62	8.08	7.58	7.1
1 6.66	5.86						
6.8	10.2	9.58	8.98	8.42	7.90	7.40	6.9
4 6.51							
	9.93	9.31	8.73	8.19	7.68	7.20	6.7
5 6.33							
	9.60	9.00	8.43	7.91	7.41	6.95	6.5
2 6.11		0.40					
	9.20	8.63	8.09	7.58	7.11	6.67	6.2
5 5.86		0 20	7 60	7 21	6 76	6 24	г о
	8.75	8.20	7.69	7.21	6.76	6.34	5.9
4 5.57		7 72	7 25	6 70	6 27	E 07	F 6
7.3 0 5.25	8.24	7.73	7.25	6.79	0.3/	5.97	5.6
	7.69	7 21	6 76	6 33	5 0/	5 57	5 2
2 4.89		7.21	0.70	0.55	3.34	3.37	3.2
	7.09	6.64	6.23	5.84	5.48	5.13	4.8
1 4.51		J.J-1	0.25	J. 0	5.10	J. ±J	
	6.46	6.05	5.67	5.32	4.99	4.68	4.3

```
8 4.11 3.61
7.7 5.81 5.45 5.11 4.79 4.49 4.21 3.9
5 3.70 3.25
7.8 5.17 4.84 4.54 4.26 3.99 3.74 3.5
1 3.29 2.89
7.9 4.54 4.26 3.99 3.74 3.51 3.29 3.0
9 2.89 2.54
8.0 3.95 3.70 3.47 3.26 3.05 2.86 2.6
8 2.52 2.21
8.1 3.41 3.19 2.99 2.81 2.63 2.47 2.3
1 2.17 1.91
8.2 2.91 2.73 2.56 2.40 2.25 2.11 1.9
8 1.85 1.63
8.3 2.47 2.32 2.18 2.04 1.91 1.79 1.6
8 1.58 1.39
8.4
    2.09 1.96 1.84 1.73 1.62 1.52 1.4
2 1.33 1.17
8.5
    1.77 1.66 1.55 1.46 1.37 1.28 1.2
0 1.13 0.990
8.6
     1.49 1.40 1.31 1.23 1.15 1.08 1.0
1 0.951 0.836
8.7 1.26 1.18 1.11 1.04 0.976 0.915 0.8
58 0.805 0.707
8.8 1.07 1.01 0.944 0.885 0.829 0.778 0.7
29 0.684 0.601
8.9 0.917 0.860 0.806 0.758 0.709 0.664 0.6
23 0.584 0.513
9.0 0.790 0.740 0.694 0.651 0.610 0.572 0.5
36 0.503 0.442
       18 20 22 24 26 28 30
рН
6.5 5.33 4.68 4.12 3.62 3.18 2.80 2.4
6
6.6 5.25 4.61 4.05 3.56 3.13 2.75 2.4
2
```

	6.7 7	5.15	4.52	3.98	3.50	3.07	2.70	2.3
	6.8	5.03	4.42	3.89	3.42	3.00	2.64	2.3
	2 6.9	4.89	4.30	3.78	3.32	2.92	2.57	2.2
	5 7.0	4.72	4.15	3.65	3.21	2.82	2.48	2.1
	8 7.1	4.53	3.98	3.50	3.08	2.70	2.38	2.0
	9							
	7.2 9	4.41	3./8	3.33	2.92	2.5/	2.26	1.9
	7.3 7	4.06	3.57	3.13	2.76	2.42	2.13	1.8
	7.4 4	3.78	3.32	2.92	2.57	2.26	1.98	1.7
	7.5 1	3.49	3.06	2.69	2.37	2.08	1.83	1.6
	_	3.18	2.79	2.45	2.16	1.90	1.67	1.4
	7 7.7	2.86	2.51	2.21	1.94	1.71	1.50	1.3
	2 7.8	2.54	2.23	1.96	1.73	1.52	1.33	1.1
	7 7.9	2.24	1.96	1.73	1.52	1.33	1.17	1.0
	3							
	8.0 97	1.94	1./1	1.50	1.32	1.16	1.02	0.8
	8.1 33	1.68	1.47	1.29	1.14	1.00	0.879	0.7
	8.2 61	1.43	1.26	1.11	1.073	0.855	0.752	0.6
	8.3	1.22	1.07	0.941	0.827	0.727	0.639	0.5
	62 8.4	1.03	0.906	0.796	0.700	0.615	0.541	0.4
- 1								

75							
8.5	0.870	0.765	0.672	0.591	0.520	0.457	0.4
01							
8.6	0.735	0.646	0.568	0.499	0.439	0.396	0.3
39							
8.7	0.622	0.547	0.480	0.422	0.371	0.326	0.2
87							
8.8	0.528	0.464	0.408	0.359	0.315	0.277	0.2
44							
8.9	0.451	0.397	0.349	0.306	0.269	0.237	0.2
08							
9.0	0.389	0.342	0.300	0.264	0.232	0.204	0.1
79							

```
2.14.3a
```

EQUATIONS TO CONV

ERT TOTAL RECOVERABLE METALS STANDARD

WITH HARDNESS (1)

DEPENDENCE TO DISSOLVED METALS STANDARD

BY APPLICAT

ION OF A CONVERSION FACTOR (CF).

Parameter 4-Day Average (Chronic)

Concentration (UG/L)

CADMIUM CF * $e^{(0.7977*ln(hardness)-3.909)}$

CF = 1.101672 - ln(hardness) (0.04183)

8)

CHROMIUM III

CF * e (0.8190(ln(hardness)) + 0.6848

CF = 0.860

COPPER CF * $e^{(0.8545(ln(hardness)) -1.702)}$

CF = 0.960

LEAD CF * $e^{(1.273(ln(hardness))-4.705)}$

CF = 1.46203 - ln(hardness)(0.145712)

NICKEL CF * $e^{(0.8460(ln(hardness))+0.0584)}$

CF = 0.997

SILVER N/A

ZINC Cf * $e^{(0.8473(ln(hardness))+0.884)}$

CF = 0.986

```
2.14.3b
```

EQUATIONS TO CONV

ERT TOTAL RECOVERABLE METALS STANDARD

WITH HARDNESS (1)

DEPENDENCE TO DISSOLVED METALS STANDARD

BY APPLICAT

ION OF A CONVERSION FACTOR (CF).

Parameter 1-Hour Average (Acute)

Concentration (UG/L)

CADMIUM CF * e (0.9789*ln(hardness)-3.866)

CF = 1.136672 - ln(hardness)(0.041)

838)

CHROMIUM (III) CF * $e^{(0.8190(ln(hardness)))} +3.7256)$

CF = 0.316

COPPER CF * $e^{(0.9422(\ln(\text{hardness}))-1.700)}$

CF = 0.960

LEAD CF * $e^{(1.273(ln(hardness))-1.460)}$

CF = 1.46203 - ln(hardness)(0.1457)

12)

NICKEL CF * $e^{(0.8460(ln(hardness)) + 2.255)}$

CF= 0.998

SILVER CF * $e^{(1.72(ln(hardness))-6.59)}$

CF = 0.85

ZINC CF * $e^{(0.8473(ln(hardness)) + 0.884)}$

CF = 0.978

FOOTNOTE:

(1) Hardness as $mg/l CaCO_3$.

TABLE

2.14.4

EQUAT

IONS FOR PENTACHLOROPHENOL

(pH DEPENDENT)

4-Day Average (Chronic) 1-Hour Avera

ge (Acute)

Concentration (UG/L) Concentratio

n (UG/L)

 $e^{(1.005(pH))-5.134}$ $e^{(1.005(pH))-4.869}$

	TABLE
2.14.5	SIT
E SPECIFIC CRITERIA FOR	
	DISSOLV
ED OXYGEN FOR JORDAN RIVER,	CURRI
US CANAL, AND STATE CANAL	SURPL
(SEE SECTION 2.13)	
DISSOLVED OXYGEN:	
May-July	
7-day average	5.5 mg/l
30-day average	5.5 mg/l
Instantaneous minimum	4.5 mg/l
August-April	
30-day average	5.5 mg/l
Instantaneous minimum	4.0 mg/l

LIST OF HUM

AN HEALTH CRITERIA (CONSUMPTION)

Chemical Parameter Water and Organism Organism Only
and CAS # (ug/L)

(ug/L)

Class 1C Class

3A,3B,3C,3D

Antimony 7440-36-0 5.6

640

Arsenic 7440-38-2 A

Α

Beryllium 7440-41-7 C

C

Chromium III 16065-83-1 C

C

Chromium VI 18540-29-9 C

C

Copper 7440-50-8 1,300

Mercury 7439-97-6 A

Α

Nickel 7440-02-0 610

4,600

Selenium 7782-49-2 170

4,200

Thallium 7440-28-0 0.24

0.47

Zinc 7440-66-6 7,400

26,000

	Free Cyanide 57-12-5	4
	400	
	Asbestos 1332-21-4	7 million
		Fibers/L
	2,3,7,8-TCDD Dioxin 1746-01-6	5.0 E -9 B
	5.1 E-9 B	
	Acrolein 107-02-8	3
	400	
	Acrylonitrile 107-13-1	0.061
	7.0	
	Benzene 71-43-2	2.1 B
	51 B	
	Bromoform 75-25-2	7.0 B
	120 B	
	Carbon Tetrachloride 56-23-5	0.4 B
	5 B	
	Chlorobenzene 108-90-7	100 MCL
	800	
	Chlorodibromomethane 124-48-1	0.80 B
	21 B	
	Chloroform 67-66-3	60 B
	2,000 B	
	Dichlorobromomethane 75-27-4	0.95 B
	27 B	
	1,2-Dichloroethane 107-06-2	9.9 B
	2,000 B	
	1,1-Dichloroethylene 75-35-4	300 MCL
	20,000	
	1,2-Dichloropropane 78-87-5	0.90 B
	31 B	
	1,3-Dichloropropene 542-75-6	0.27
	12	
	Ethylbenzene 100-41-4	68
	130	
	Methyl Bromide 74-83-9	100
- 1		

10,000	
Methylene Chloride 75-09-2	20 B
1,000 B	
1,1,2,2-Tetrachloroethane	
79-34-5	0.2 B
3 B	
Tetrachloroethylene 127-18-4	10 B
29 B	
Toluene 108-88-3	57
520	
1,2 -Trans-Dichloroethylene	
156-60-5	100 MCL
4,000	
1,1,1-Trichloroethane 71-55-6	10,000 MCL
200,000	
1,1,2-Trichloroethane 79-00-5	0.55 B
8.9 B	
Trichloroethylene 79-01-6	0.6 B
7 B	
Vinyl Chloride 75-01-4	0.022
1.6	
2-Chlorophenol 95-57-8	30
800	
2,4-Dichlorophenol 120-83-2	10
60	
2,4-Dimethylphenol 105-67-9	100
3,000	
2-Methyl-4,6-Dinitrophenol	
534-52-1	2
30	
2,4-Dinitrophenol 51-28-5	10
300	
3-Methyl-4-Chlorophenol	
59-50-7	500
2,000	

	Pentachlorophenol 87-86-5	0.03 B
	0.04 B	
	Phenol 108-95-2	4,000
	300,000	
	2,4,5-Trichlorophenol 95-95-4	300
	600	
	2,4,6-Trichlorophenol 88-06-2	1.5 B
	2.8 B	
	Acenaphthene 83-32-9	70
	90	
	Anthracene 120-12-7	300
	400	
	Benzidine 92-87-5	0.00014 B
	0.011 B	
	BenzoaAnthracene 56-55-3	0.0012 B
	0.0013 B	
	BenzoaPyrene 50-32-8	0.00012 B
	0.00013 B	
	BenzobFluoranthene 205-99-2	0.0012 B
	0.0013 B	
	BenzokFluoranthene 207-08-9	0.012 B
	0.013 B	
	Bis2-Chloro1methylether	
	542-88-1	0.00015
	0.017	
	Bis2-Chloro1methylethylether	
	108-60-1	200 B
	4000	
	Bis2-ChloroethylEther	
	111-44-4	0.030 B
	2.2 B	
	Bis2-Chloroisopropy1Ether	
	39638-32-9	1,400
	65,000	
	Bis2-EthylhexylPhthalate	
1		

117-81-7	0.32 B
0.37 B	
Butylbenzyl Phthalate	
85-68-7	0.10
0.10	
2-Chloronaphthalene 91-58-7	800
1,000	
Chrysene 218-01-9	0.12 B
0.13 B	
Dibenzoa, hAnthracene 53-70-3	0.00012 B
0.00013 B	
1,2-Dichlorobenzene 95-50-1	1,000
3,000	
1,3-Dichlorobenzene 541-73-1	7
10	
1,4-Dichlorobenzene 106-46-7	300
900	
3,3-Dichlorobenzidine	
91-94-1	0.049 B
0.15 B	
Diethyl Phthalate 84-66-2	600
600	
Dimethyl Phthalate 131-11-3	2,000
2,000	
Di-n-Butyl Phthalate 84-74-2	20
30	
2,4-Dinitrotoluene 121-14-2	0.049 B
1.7 B	
Dinitrophenols 25550-58-7	10
1,000	
1,2-Diphenylhydrazine	
122-66-7	0.03 B
0.2 B	
Fluoranthene 206-44-0	20
20	

Fluorene 86-73-7	50
70	
Hexachlorobenzene 118-74-1	0.000079 B
0.000079 B	
Hexachlorobutadiene 87-68-3	0.01 B
0.01 B	
Hexachloroethane 67-72-1	0.1 B
0.1 B	
Hexachlorocyclopentadiene	
77-47-4	4
4	
Ideno 1,2,3-cdPyrene	
193-39-5	0.0012 B
0.0013 B	
Isophorone 78-59-1	34 B
1,800 B	
Nitrobenzene 98-95-3	10
600	
N-Nitrosodiethylamine 55-18-5	0.0008 B
1.24 B	
N-Nitrosodimethylamine	
62-75-9	0.00069 B
3.0 B	
N-Nitrosodi-n-Propylamine	
621-64-7	0.0050 B
0.51 B	
N-Nitrosodiphenylamine	
86-30-6	3.3 B
6.0 B	
N-Nitrosopyrrolidine 930-55-2	0.016 B
34 B	
Pentachlorobenzene 608-93-5	0.1
0.1	
Pyrene 129-00-0	20
30	

1,2,4-Trichlorobenzene	
120-82-1	0.071 MCL
0.076	
Aldrin 309-00-2	0.00000077 B
0.00000077 B	
alpha-BHC 319-84-6	0.00036 B
0.00039 B	
beta-BHC 319-85-7	0.0080 B
0.014 B	
gamma-BHC (Lindane) 58-89-9	4.2 MCL
4.4	
Hexachlorocyclohexane (HCH)	
Technical 608-73-1	0.0066
0.010	
Chlordane 57-74-9	0.00031 B
0.00032 B	
4,4-DDT 50-29-3	0.000030 B
0.000030 B	
4,4-DDE 72-55-9	0.000018 B
0.000018 B	
4,4-DDD 72-54-8	0.00012 B
0.00012 B	
Dieldrin 60-57-1	0.0000012 B
0.0000012 B	
alpha-Endosulfan 959-98-8	20
30	
beta-Endosulfan 33213-65-9	20
40	
Endosulfan Sulfate 1031-07-8	20
40	
Endrin 72-20-8	0.03
0.03	
Endrin Aldehyde 7421-93-4	1
1	
Heptachlor 76-44-8	0.0000059 B

0.0000059 B

Heptachlor Epoxide 1024-57-3 0.000032 B

0.000032 B

Methoxychlor 72-43-5

0.02

0.02

Polychlorinated Biphenyls

(PCBs) 1336-36-3

0.000064 B,D

0.000064 B,D

Toxaphene 8001-35-2

0.00070 B

0.00071 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 ad dress

this contaminant in NPDES permit actions using the State's existing

narrative criteria for toxics

D. This standard applies to total PCBs.

TABLE

2.14.7

NUTRIENT CR

ITERIA FOR CLASSES 2A and 2B (1)

Nutrient Criteria

Parameters

Periphyton 125 mg/m2 chlorophyll

-a

or

49 g/m2 ash free dry

mass

FOOTNOTES:

(1)Applicable to all Category 1 and Category 2 streams with

the following exceptions: Quitchupah Creek throug h Convulsion

Canyon from U. S. Forest Service boundary upstream to East Spring

Canyon headwaters; North Fork of Quitchupah Creek from the U. S.

Forest Service boundary upstream to its confluence with South Fork;

Huntington Creek from U. S. Forest Service boundar y to confluence

with Crandall Creek and Crandall Creek to headwate rs.

NUTRIENT CRITER

IA FOR CLASSES 3A, 3B, 3C, and 3D(1)

Nutrient Criteria(2)

Parameters

Total Phosphorus 0.035 mg/L)(3), an

d

Total Nitrogen 0.40 mg/L)(3),

or

Total Phosphorus 0.080 mg/L(3), and

Total Nitrogen 0.80 mg/L(3), and

Filamentous Algae 33% cover(4), or

Gross Primary Production 6 g O2/m2-day(5),

or

Ecosystem Respiration 5 g O2/m2-day(5)

FOOTNOTES:

(1)Applicable to all Category 1 and Category 2 streams with

the following exceptions: Quitchupah Creek throug h Convulsion

Canyon from U. S. Forest Service boundary upstream to East Spring

Canyon headwaters; North Fork of Quitchupah Creek from the U. S.

Forest Service boundary upstream to its confluence with South Fork;

Huntington Creek from U. S. Forest Service boundar y to confluence

with Crandall Creek and Crandall Creek to headwate rs.

(2)For water quality assessments, Table 8, Dec ision Matrix That

Will Be Used to Assess Support of Headwater Aquati c Life Uses for

Nutrient-related Water Quality Problems, "Proposed Nutrient

Criteria: Utah Headwater Streams", Utah Division o f Water Quality,

March, 2019 is incorporated by reference.

(3)Not to be exceeded seasonal average for the index period

of algal growth through senescence.

(4)Not to be exceeded average based on at leas
t 3 transects

perpendicular to stream flow and spatially dispers ed along a reach

of at least 50 meters

(5) Not to be exceeded during the index period of algal

growth through senescence.



water pollution, water quality standards

Date of Enactment or Last Substantive Amendment

Notice of Continuation

September 26, 2017

<u>Authorizing, Implemented, or</u> <u>Interpreted Law</u>

19-5; FWPCA 33 USC 1251, 1311-1317, 1329

Additional Information

Contact

For questions regarding the *content* or *application* of rules under Title R317, please contact the promulgating agency (Environmental Quality, Water Quality). A list of agencies with links to their homepages is available at http://www.rules.utah.gov/contact/agencycontacts.htm.