Presented below are water quality standards that are in effect for Clean Water Act purposes.

EPA is posting these standards as a convenience to users and has made a reasonable effort to assure their accuracy. Additionally, EPA has made a reasonable effort to identify parts of the standards that are not approved, disapproved, or are otherwise not in effect for Clean Water Act purposes.

R317. Environmental Quality, Water Quality.
R317-2. Standards of Quality for Waters of the State.
R317-2-1A. Statement of Intent.

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

R317-2-1B. Authority.

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

R317-2-1C. 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.

R317-2-2. Scope.

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

R317-2-3. Antidegradation Policy.

3.1 Maintenance of Water Quality

Waters whose existing quality is better than the established standards for the designated uses will be maintained at high quality unless it is determined by the 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-by-parameter 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
(l) 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.

f. Implementation Procedures

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, 2011, 2014, 2017, and 2020 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 water-oriented wildlife not included in Classes 3A, 3B, or 3C, including the necessary aquatic organisms in their food chain.

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

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

6.5 Class 5 -- The Great Salt Lake.

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 Section R317-2-14 shall apply to each of the classes assigned to waters of the state as specified in Section R317-2-6. It shall be unlawful and a violation of this rule 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 Subsection R317-1-3.1 or as authorized by schedules of compliance. The Director has authority to issue schedules of compliance for dischargers to meet UPDES water quality-based effluent limits.

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% 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 this rule, 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 in Subsections (7.3)(a) through (d).

a. Quantitative biological assessments may be used to assess whether the purposes and designated uses identified in Section R317-2-6 are supported.

b. The results of the quantitative biological assessments may be used for purposes of water quality assessment, including those assessments required by Sections 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 in a Biennial Integrated Report or TMDL until a thorough evaluation of potential causes, including nonchemical stressors such as habitat degradation, 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.

10.2 Field Analyses

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

Ivie Creek and its tributaries from the confluence with Muddy Creek to the confluence with Quitchupah Creek		2B		3C	4*
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	3A		4
Ivie Creek and tributaries, from Highway U-10 to headwaters		2B	3A		4
Muddy Creek and tributaries, from Highway U-10 crossing to headwaters	1C	2B	3A		4
San Juan River and tributaries from Lake Powell to state line except as listed below:	1C	2A		3B	4
Johnson Creek and tributaries, from confluence with Recapture Creek to headwaters	1C	2B	3A		4
Verdure Creek and tributaries, from Highway US-191 crossing to headwaters		2B	3A		4
North Creek and tributaries, from confluence with Montezuma Creek to headwaters	1C	2B	3A		4
South Creek and tributaries, from confluence with Montezuma Creek to headwaters	1C	2B	3A		4
Spring Creek and tributaries, from confluence with Vega Creek to headwaters		2B	3A		4
Montezuma Creek and tributaries, from U.S. Highway 191 to headwaters	1C	2B	3A		4
Colorado River and tributaries, from Lake Powell to state line except as listed below:	1C	2A		3B	4
Indian Creek and tributaries, through Newspaper Rock State Park to headwaters	1C	2B	3A		4
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	1C	2A	3A		4
Castle Creek from confluence with the Colorado River to Seventh Day Adventist Diversion	1C	2A		3B	4*
Onion Creek from the confluence with Colorado River to road crossing above Stinking Springs	1C	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	3A	4
LaSal Creek and tributaries from state line to headwaters		2B	3A	4
Lion Canyon Creek and tributaries, from state line to headwaters		2B	3A	4
Little Dolores River and tributaries, from confluence with Colorado River to state line		2B	3C	4
Bitter Creek and tributaries, from confluence with Colorado River to headwaters		2B	3C	4

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

b. Green River Drainage

TABLE

Green River and tributaries, from confluence with Colorado River to state line, except as listed below:	1C	2A	3B	4
Thompson Creek and tributaries from Interstate 70 to headwaters		2B	3C	4
San Rafael River and tributaries from confluence with Green River to confluence with Ferron Creek, except as listed below:		2B	3C	
San Rafael River from the confluence with the Green River to Buckhorn Crossing		2B	3C	4*
San Rafael River from Buckhorn Crossing to the confluence with Huntington Creek and Cottonwood Creek		2B	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		2B	3C	4*
Ferron Creek and tributaries, from Millsite Reservoir to headwaters	1C	2B	3A	4
Huntington Creek and tributaries, from confluence with Cottonwood Creek to Highway U-10 crossing		2B	3C	4*
Huntington Creek and tributaries from Highway U-10 crossing to headwaters	1C	2B	3A	4
Cottonwood Creek and tributaries from confluence with Huntington Creek to Highway U-57 crossing, except as listed below:		2B	3C	4
Cottonwood Creek from the confluence with Huntington Creek to U-57		2B	3C	4*
Rock Canyon Creek from the confluence with Cottonwood				

Creek to headwaters		2B		3C		4*
Cottonwood Creek and tributaries from Highway U-57 crossing to headwaters	1C	2B	3A			4
Cottonwood Canal, Emery County	1C	2B			3E	4
Price River and tributaries, from confluence with Green River to Carbon Canal Diversion at Price City Golf Course, except as listed below		2B		3C		4
Price River and tributaries from confluence with Green River to confluence with Soldier Creek		2B		3C		4*
Price River and tributaries from the confluence with Soldier Creek to Carbon Canal Diversion		2B		3C		4*
Grassy Trail Creek and tributaries, from Grassy Trail Creek Reservoir to headwaters	1C	2B	3A			4
Price River and tributaries, from Carbon Canal Diversion at Price City Golf Course to Price City Water Treatment Plant intake		2B	3A			4
Price River and tributaries, from Price City Water Treatment Plant intake to headwaters	1C	2B	3A			4
Range Creek and tributaries, from confluence with Green River to Range Creek Ranch		2B	3A			4
Range Creek and tributaries, from Range Creek Ranch to headwaters	1C	2B	3A			4
Rock Creek and tributaries, from confluence with Green River to headwaters		2B	3A			4
Nine Mile Creek and tributaries, from confluence with Green River to headwaters		2B	3A			4
Pariette Draw and tributaries, from confluence with Green River to headwaters		2B	3B	3D		4
Willow Creek and tributaries (Uintah County), from confluence with Green River to headwaters		2B	3A			4
White River and tributaries, from confluence with Green River to state line, except as listed below:		2B	3B			4
Bitter Creek and tributaries from White River to headwaters		2B	3A			4
Duchesne River and tributaries, from confluence with Green River to Myton Water Treatment Plant intake, except as listed below		2B	3B			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	3A			4
Power House Canal from confluence with Uinta River						

to headwaters		2B	3A			4
Whiterocks River and Canal, from Tridell Water Treatment Plant to headwaters	1C	2B	3A			4
Duchesne River and tributaries, from Myton Water Treatment Plant intake to headwaters	1C	2B	3A			4
Lake Fork River and tributaries, from confluence with Duchesne River to headwaters	1C	2B	3A			4
Lake Fork Canal from Dry Gulch Canal Diversion to Moon Lake	1C	2B			3E	4
Dry Gulch Canal, from Myton Water Treatment Plant to Lake Fork Canal	1C	2B			3E	4
Ashley Creek and tributaries, from confluence with Green River to Steinaker diversion		2B		3B		4
Ashley Creek and tributaries, from Steinaker diversion to headwaters	1C	2B	3A			4
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	1C	2B	3A			4
Jones Hole Creek and tributaries from confluence with Green River to headwaters		2B	3A			
Diamond Gulch Creek and tributaries, from confluence with Green River to headwaters		2B	3A			4
Pot Creek and tributaries, from Crouse Reservoir to headwaters		2B	3A			4
Green River and tributaries, from Utah-Colorado state line to Flaming Gorge Dam, except as listed below:	2A		3A			4
Sears Creek and tributaries, Daggett County		2B	3A			
Tolivers Creek and tributaries, Daggett County		2B	3A			
Red Creek and tributaries, from confluence with Green River to state line		2B		3C		4
Jackson Creek and tributaries, Daggett County		2B	3A			
Davenport Creek and tributaries, Daggett County		2B	3A			
Goslin Creek and tributaries, Daggett County		2B	3A			
Gorge Creek and tributaries, Daggett County		2B	3A			
Beaver Creek and tributaries, Daggett County		2B	3A			
O-Wi-Yu-Kuts Creek and tributaries, Daggett County		2B	3A			

Tributaries to Flaming Gorge Reservoir, except as listed below		2B	3A		4
Birch Spring Draw and tributaries, from Flaming Gorge Reservoir to headwaters		2B		3C	4
Spring Creek and tributaries, from Flaming Gorge Reservoir to headwaters		2B	3A		
All tributaries of Flaming Gorge Reservoir from Utah-Wyoming state line to headwaters		2B	3A		4

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

13.2 Lower Colorado River Basin

a. Virgin River Drainage

TABLE

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

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

b. Kanab Creek Drainage

TABLE

Kanab Creek and tributaries, from state line to immediately below the confluence with Sink Valley Wash	2B	3C		4
Kanab Creek and tributaries, from immediately below the confluence with Sink Valley Wash to Simpson Hollow Wash	2B	3C		4*
Kanab Creek and tributaries, from immediately above Simpson Hollow Wash to irrigation diversion at confluence with Reservoir Canyon	2B	3C		4*
Kanab Creek and tributaries, from irrigation diversion at confluence with Reservoir Canyon to headwaters	2B	3A		4
Johnson Wash and tributaries, from state line to confluence with Skutumpah Canyon	2B	3C		4
Johnson Wash and tributaries, from confluence with Skutumpah Canyon to headwaters	2B	3A		4

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

13.3 Bear River Basin

a. Bear River Drainage

TABLE

Bear River and tributaries, from Great Salt Lake to Utah-Idaho border, except as listed below:	2B	3B	3D	4
Perry Canyon Creek from U.S. Forest boundary to headwaters	2B	3A		4
Box Elder Creek from confluence with Black Slough to Brigham City Reservoir (Mayor's Pond)	2B	3C		4
Box Elder Creek, from Brigham City Reservoir (Mayor's Pond) to headwaters	2B	3A		4
Salt Creek from confluence with Bear River to Crystal Hot Springs	2B	3B	3D	
Malad River and tributaries, from confluence with Bear River to state line	2B	3C		
Little Bear River and tributaries, from Cutler Reservoir to headwaters, except as listed below:	2B	3A	3D	4
South Fork Spring Creek from confluence with Pelican Pond Slough Stream to U.S. Highway 89	2B	3A	3D	4*
Logan River and tributaries, from Cutler Reservoir to headwaters	2B	3A	3D	4
Blacksmith Fork and tributaries, from confluence with Logan River to headwaters, except as listed below	2B	3A		4
Sheep Creek and tributaries from Confluence with Blacksmith Fork River to headwaters	1C	2B	3A	4
Newton Creek and tributaries,				

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

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

13.4 Weber River Basin

a. Weber River Drainage

TABLE

Willard Creek, from Willard Bay Reservoir to headwaters		2B	3A		4
Weber River, from Great Salt Lake to Slaterville diversion, except as listed below:		2B		3C 3D	4
Four Mile Creek from Interstate 15 to headwaters		2B	3A		4
Weber River and tributaries, from Slaterville diversion to Stoddard diversion, except as listed below		2B	3A		4
Ogden River and tributaries, from confluence with Weber River to Pineview Dam, except as listed below:		2A	3A		4
Wheeler Creek from confluence with Ogden River to headwaters	1C	2B	3A		4
All tributaries to Pineview Reservoir	1C	2B	3A		4
Strongs Canyon Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
Burch Creek and tributaries, from					

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

13.5 Utah Lake-Jordan River Basin

a. Jordan River Drainage

				TABLE	
Jordan River, from Farmington Bay to North Temple Street, Salt Lake City		2B	3B*	3D	4
State Canal, from Farmington Bay to confluence with the Jordan River		2B	3B*	3D	4
Jordan River, from North Temple Street in Salt Lake City to confluence with Little Cottonwood Creek		2B	3B*		4
Surplus Canal from Great Salt Lake to the diversion from the Jordan River		2B	3B*	3D	4
Jordan River from confluence with Little Cottonwood Creek to Narrows Diversion		2B	3B		4
Jordan River, from Narrows Diversion to Utah Lake	1C	2B	3B		4
City Creek, from Memory Park in Salt Lake City to City Creek Water Treatment Plant		2B	3A		
City Creek, from City Creek Water Treatment Plant to headwaters	1C	2B	3A		
Red Butte Creek and tributaries, from Liberty Park pond inlet to Red Butte Reservoir		2B	3A		4
Red Butte Creek and tributaries, from Red Butte Reservoir to headwaters	1C	2B	3A		
Emigration Creek and tributaries, from 1100 East in Salt Lake City to headwaters		2B	3A		4
Parleys Creek and tributaries, from 1300 East in Salt Lake City to Mountain Dell Reservoir	1C	2B	3A		
Parleys Creek and tributaries, from Mountain Dell Reservoir to headwaters	1C	2B	3A		
Mill Creek (Salt Lake County) from confluence with Jordan River to Interstate 15		2B		3C*	4
Mill Creek (Salt Lake County) and tributaries, from Interstate 15 to headwaters		2B	3A		4

Big Cottonwood Creek and tributaries, from confluence with Jordan River to Big Cottonwood Water Treatment Plant		2B	3A	4
Big Cottonwood Creek and tributaries from Big Cottonwood Water Treatment Plant to headwaters	1C	2B	3A	
Deaf Smith Canyon Creek and tributaries	1C	2B	3A	4
Little Cottonwood Creek and tributaries, from confluence with Jordan River to Metropolitan Water Treatment Plant		2B	3A	4
Little Cottonwood Creek and tributaries, from Metropolitan Water Treatment Plant to headwaters	1C	2B	3A	
Bells Canyon Creek and tributaries, from Lower Bells Canyon Reservoir to headwaters	1C	2B	3A	
Little Willow Creek and tributaries, from Draper Irrigation Company diversion to headwaters	1C	2B	3A	
Big Willow Creek and tributaries, from Draper Irrigation Company diversion to headwaters	1C	2B	3A	
South Fork of Dry Creek and tributaries, from Draper Irrigation Company diversion to headwaters	1C	2B	3A	
All permanent streams on east slope of Oquirrh Mountains (Coon, Barneys, Bingham, Butterfield, and Rose Creeks)		2B	3D	4
Kersey Creek from confluence of C-7 Ditch to headwaters		2B	3D	

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

b. Provo River Drainage

TABLE

Provo River and tributaries, from Utah Lake to Provo City Diversion (2230 North St)		2B	3A	4
Provo River and tributaries, from Provo City Diversion (2230 North St) to headwaters, except as listed below:	1C	2B	3A	4
Upper Falls drainage above Provo City diversion	1C	2B	3A	
Bridal Veil Falls drainage above Provo City diversion	1C	2B	3A	
Lost Creek and tributaries above Provo City diversion	1C	2B	3A	

c. Utah Lake Drainage

TABLE

Dry Creek and tributaries (above Alpine), from U.S. National Forest boundary to headwaters		2B	3A	4
American Fork Creek and tributaries, from diversion at mouth of American				

Fork Canyon to headwaters		2B	3A			4
Spring Creek and tributaries, from Utah Lake near Lehi to headwaters		2B	3A			4
Lindon Hollow Creek and tributaries, from Utah Lake to headwaters		2B		3B		4
Grove Creek from Murdock Diversion to headwaters	1C	2B	3A			
Battle Creek from Murdock Diversion to Headwaters	1C	2B	3A			
Rock Canyon Creek and tributaries (East of Provo), from U.S. National Forest boundary to headwaters	1C	2B	3A			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	3A			4
Ironton Canal from Utah Lake (Provo Bay) to the east boundary of the Denver and Rio Grande Western Railroad right-of-way		2B		3C		4
Ironton Canal from the east boundary of the Denver and Rio Grande Western Railroad right-of-way to the point of diversion from Spring Creek		2B	3A			4
Hobble Creek and tributaries, from Utah Lake to headwaters		2B	3A			4
Dry Creek and tributaries, from Utah Lake (Provo Bay) to U.S. Highway 89		2B			3E	4
Dry Creek and tributaries, from U.S. Highway 89 to headwaters		2B	3A			4
Spanish Fork River and tributaries, from Utah Lake to diversion at Moark Junction		2B		3B	3D	4
Spanish Fork River and tributaries, from diversion at Moark Junction to headwaters		2B	3A			4
Benjamin Slough and tributaries, from Utah Lake to headwaters, except as listed below		2B		3B		4
Beer Creek (Utah County) from 4850 West (in NE1/4NE1/4 sec. 36, T.8.S., R.1.E.) to headwaters		2B		3C		4

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

13.6 Sevier River Basin

a. Sevier River Drainage

TABLE

Sevier River and tributaries, from Sevier Lake to Gunnison Bend Reservoir to U.S. National Forest boundary, except as listed below:	2B	3C	4
Sevier River from Gunnison Bend Reservoir to Clear Lake	2B	3C	4*
Beaver River and tributaries, from Minersville City to headwaters	2B	3A	4
Little Creek and tributaries, from irrigation diversion to headwaters	2B	3A	4
Pinto Creek and tributaries, from Newcastle Reservoir to headwaters	2B	3A	4
Coal Creek and tributaries	2B	3A	4
Summit Creek and tributaries	2B	3A	4
Parowan Creek and tributaries	2B	3A	4
Tributaries to Sevier River from Sevier Lake to Gunnison Bend Reservoir from U.S. National Forest boundary to headwaters, including:	2B	3A	4
Pioneer Creek and tributaries, Millard County	2B	3A	4
Chalk Creek and tributaries, Millard County	2B	3A	4
Meadow Creek and tributaries, Millard County	2B	3A	4
Corn Creek and tributaries, Millard County	2B	3A	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*
Oak Creek and tributaries Millard County	2B	3A	4

Round Valley Creek and tributaries, Millard County	2B	3A			4
Judd Creek and tributaries, Juab County	2B	3A			4
Meadow Creek and tributaries, Juab County	2B	3A			4
Cherry Creek and tributaries, Juab County	2B	3A			4
Tanner Creek and tributaries, Juab County	2B			3E	4
Baker Hot Springs, Juab County	2B		3D		4
Chicken Creek and tributaries, Juab County	2B	3A			4
San Pitch River and tributaries, from confluence with Sevier River to Highway U-132 crossing, except as listed below:	2B	3C	3D		4
San Pitch River from below Gunnison Reservoir to the Sevier River	2B	3C	3D		4*
Twelve Mile Creek (South Creek) and tributaries, from U.S. National Forest boundary to headwaters	2B	3A			4
Six Mile Creek and tributaries, Sanpete County	2B	3A			4
Manti Creek (South Creek) and tributaries, from U.S. National Forest boundary to headwaters	2B	3A			4
Ephraim Creek (Cottonwood Creek) and tributaries, from U.S. National Forest to headwaters	2B	3A			4
Oak Creek and tributaries, from U.S. National Forest boundary near Spring City to headwaters	2B	3A			4
Fountain Green Creek and tributaries, from U.S. National Forest boundary to headwaters	2B	3A			4
San Pitch River and tributaries, from Highway U-132 crossing to headwaters	2B	3A			4
Lost Creek from the confluence with Sevier River to U.S. National Forest boundary	2B	3C	3D		4*
Brine Creek-Petersen Creek from the confluence with the Sevier River to Highway U-119 Crossing	2B	3C	3D		4*
Tributaries to Sevier River from Gunnison Bend Reservoir to Annabella diversion from U.S. National Forest boundary to headwaters	2B	3A			4
Sevier River and tributaries, from Annabella diversion to headwaters	2B	3A			4
Monroe Creek and tributaries, from diversion to headwaters	2B	3A			4
Little Creek and tributaries, from irrigation diversion to headwaters	2B	3A			4

Pinto Creek and tributaries, from Newcastle Reservoir to headwaters		2B	3A		4
Coal Creek and tributaries		2B	3A		4
Summit Creek and tributaries		2B	3A		4
Parowan Creek and tributaries		2B	3A		4
Duck Creek and tributaries	1C	2B	3A		4

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

13.7 Great Salt Lake Basin

a. Western Great Salt Lake Drainage

				TABLE	
Grouse Creek and tributaries, Box Elder County		2B	3A		4
Muddy Creek and tributaries, Box Elder County		2B	3A		4
Dove Creek and tributaries, Box Elder County		2B	3A		4
Pine Creek and tributaries, Box Elder County		2B	3A		4
Rock Creek and tributaries, Box Elder County		2B	3A		4
Fisher Creek and tributaries, Box Elder County		2B	3A		4
Dunn Creek and tributaries, Box Elder County		2B	3A		4
Indian Creek and tributaries, Box Elder County		2B	3A		4
Tenmile Creek and tributaries, Box Elder County		2B	3A		4
Curlew (Deep) Creek, Box Elder County		2B	3A		4
Blue Creek and tributaries, Box Elder County, from Bear River Bay, Great Salt Lake to Blue Creek Reservoir		2B		3D	4*
Blue Creek and tributaries from Blue Creek Reservoir to headwaters		2B	3B		4*
All perennial streams on the east slope of the Pilot Mountain Range	1C	2B	3A		4
Donner Creek and tributaries, from irrigation diversion to Utah-Nevada state line		2B	3A		4
Bettridge Creek and tributaries, from irrigation diversion to Utah-Nevada state line		2B	3A		4
North Willow Creek and tributaries, Tooele County		2B	3A		4
South Willow Creek and tributaries, Tooele County		2B	3A		4
Hickman Creek and tributaries, Tooele County		2B	3A		4
Barlow Creek and tributaries, Tooele County		2B	3A		4
Clover Creek and tributaries, Tooele County		2B	3A		4

Faust Creek and tributaries, Tooele County		2B	3A		4
Vernon Creek and tributaries, Tooele County		2B	3A		4
Ophir Creek and tributaries, Tooele County		2B	3A		4
Soldier Creek and tributaries, from the Drinking Water Treatment Facility to headwaters, Tooele County	1C	2B	3A		4
Settlement Canyon Creek and tributaries, Tooele County		2B	3A		4
Middle Canyon Creek and tributaries, Tooele County		2B	3A		4
Tank Wash and tributaries, Tooele County		2B	3A		4
Basin Creek and tributaries, Juab and Tooele Counties		2B	3A		4
Thomas Creek and tributaries, Juab County		2B	3A		4
Indian Farm Creek and tributaries, Juab County		2B	3A		4
Cottonwood Creek and tributaries, Juab County		2B	3A		4
Red Cedar Creek and tributaries, Juab County		2B	3A		4
Granite Creek and tributaries, Juab County		2B	3A		4
Trout Creek and tributaries, Juab County		2B	3A		4
Birch Creek and tributaries, Juab County		2B	3A		4
Deep Creek and tributaries, from Rock Spring Creek to headwaters, Juab and Tooele Counties		2B	3A		4
Cold Spring, Juab County		2B		3C 3D	
Cane Spring, Juab County		2B		3C 3D	
Lake Creek, from Garrison (Pruess) Reservoir to Nevada state line		2B	3A		4
Snake Creek and tributaries, Millard County		2B	3B		4
Salt Marsh Spring Complex, Millard County		2B	3A		
Twin Springs, Millard County		2B	3B		
Tule Spring, Millard County		2B		3C 3D	
Coyote Spring Complex, Millard County		2B		3C 3D	
Hamblin Valley Wash and tributaries, from Nevada state line to headwaters (Beaver and Iron Counties)		2B		3D	4
Indian Creek and tributaries, Beaver County, from Indian Creek Reservoir to headwaters		2B	3A		4
Shoal Creek and tributaries,					

Iron County		2B	3A		4

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

b. Farmington Bay Drainage

TABLE

Corbett Creek and tributaries, from Highway to headwaters		2B	3A		4
Kays Creek and tributaries, from Farmington Bay to U.S. National Forest boundary		2B	3B		4
North Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters		2B	3A		4
Middle Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
South Fork Kays Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
Snow Creek and tributaries		2B		3C	4
Holmes Creek and tributaries, from Farmington Bay to U.S. National Forest boundary		2B	3B		4
Holmes Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
Baer Creek and tributaries, from Farmington Bay to Interstate 15		2B	3B		4
Baer Creek and tributaries, from Interstate 15 to U.S. Highway 89		2B	3B		4
Baer Creek and tributaries, from U.S. Highway 89 to headwaters	1C	2B	3A		4
Shepard Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
Farmington Creek and tributaries, from Farmington Bay Waterfowl Management Area to U.S. National Forest boundary		2B	3B		4
Farmington Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
Rudd Creek and tributaries, from Davis aqueduct to headwaters		2B	3A		4
Steed Creek and tributaries, from U.S. National Forest boundary to headwaters	1C	2B	3A		4
Davis Creek and tributaries, from U.S. Highway 89 to headwaters		2B	3A		4
Lone Pine Creek and tributaries, from U.S. Highway 89 to headwaters		2B	3A		4
Ricks Creek and tributaries, from Highway Interstate 15 to headwaters	1C	2B	3A		4
Barnard Creek and tributaries, from U.S. Highway 89 to headwaters		2B	3A		4

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

13.8 Snake River Basin

a. Raft River Drainage (Box Elder County)

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

Meadow Creek and tributaries, from state line to headwaters	2B	3A		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	3A	3D	
Clear Lake Waterfowl Management Area, Millard County	2B		3C 3D	
Desert Lake Waterfowl Management Area, Emery County	2B		3C 3D	
Farmington Bay Waterfowl Management Area, Davis and Salt Lake Counties	2B		3C 3D	
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 County	2B		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	
Howard Slough Waterfowl Management Area, Weber County	2B		3C 3D	
Locomotive Springs Waterfowl Management Area, Box Elder County	2B	3B	3D	
Ogden Bay Waterfowl Management Area, Weber County	2B		3C 3D	

Ouray National Wildlife Refuge, Uintah County		2B	3B	3D	
Powell Slough Waterfowl Management Area, Utah County		2B	3C	3D	
Public Shooting Grounds Waterfowl Management Area, Box Elder County		2B	3C	3D	
Salt Creek Waterfowl Management Area, Box Elder County		2B	3C	3D	
Stewart Lake Waterfowl Management Area, Uintah County		2B	3B	3D	
Timpie Springs Waterfowl Management Area, Tooele County		2B	3B	3D	

13.12 Lakes and Reservoirs. 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	3A		4
Manderfield Reservoir		2B	3A		4
LaBaron Reservoir		2B	3A		4
Kents Lake		2B	3A		4
Minersville Reservoir		2B	3A	3D	4
Puffer Lake		2B	3A		
Three Creeks Reservoir		2B	3A		4

b. Box Elder County

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

c. Cache County

					TABLE
Hyrum Reservoir		2A	3A		4
Newton Reservoir		2B	3A		4
Porcupine Reservoir		2B	3A		4
Pelican Pond		2B	3B		4
Tony Grove Lake		2B	3A		4

d. Carbon County

					TABLE
Grassy Trail Creek Reservoir	1C	2B	3A		4
Olsen Pond		2B	3B		4

Scofield Reservoir	1C	2B	3A	4

e. Daggett County

TABLE

Browne Reservoir		2B	3A	4
Daggett Lake		2B	3A	4
Flaming Gorge Reservoir (Utah portion)	1C	2A	3A	4
Long Park Reservoir	1C	2B	3A	4
Sheep Creek Reservoir		2B	3A	4
Spirit Lake		2B	3A	4
Upper Potter Lake		2B	3A	4

f. Davis County

TABLE

Farmington Ponds		2B	3A	4
Kaysville Highway Ponds		2B	3A	4
Holmes Creek Reservoir		2B	3B	4

g. Duchesne County

TABLE

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

Elbow Lake		2B	3A	4
Farmers Lake		2B	3A	4
Fern Lake		2B	3A	4
Fish Hatchery Lake		2B	3A	4
Five Point Reservoir		2B	3A	4
Fox Lake Reservoir		2B	3A	4
Governors Lake		2B	3A	4
Granddaddy Lake		2B	3A	4
Hoover Lake		2B	3A	4
Island Lake		2B	3A	4
Jean Lake		2B	3A	4
Jordan Lake		2B	3A	4
Kidney Lake		2B	3A	4
Kidney Lake West		2B	3A	4
Lily Lake		2B	3A	4
Midview Reservoir (Lake Boreham)		2B	3B	4
Milk Reservoir		2B	3A	4
Mirror Lake		2B	3A	4
Mohawk Lake		2B	3A	4
Moon Lake	1C	2A	3A	4
North Star Lake		2B	3A	4
Palisade Lake		2B	3A	4
Pine Island Lake		2B	3A	4
Pinto Lake		2B	3A	4
Pole Creek Lake		2B	3A	4
Potters Lake		2B	3A	4
Powell Lake		2B	3A	4
Pyramid Lake		2A	3A	4
Queant Lake		2B	3A	4
Rainbow Lake		2B	3A	4
Red Creek Reservoir		2B	3A	4
Rudolph Lake		2B	3A	4
Scout Lake		2A	3A	4
Spider Lake		2B	3A	4
Spirit Lake		2B	3A	4
Starvation Reservoir	1C	2A	3A	4
Superior Lake		2B	3A	4
Swasey Hole Reservoir		2B	3A	4
Taylor Lake		2B	3A	4
Thompson Lake		2B	3A	4

Timothy Reservoir #1		2B	3A		4
Timothy Reservoir #6		2B	3A		4
Timothy Reservoir #7		2B	3A		4
Twin Pots Reservoir	1C	2B	3A		4
Upper Stillwater Reservoir	1C	2B	3A		4
X - 24 Lake		2B	3A		4

h. Emery County

TABLE

Cleveland Reservoir		2B	3A		4
Electric Lake		2B	3A		4
Huntington Reservoir		2B	3A		4
Huntington North Reservoir		2A		3B	4
Joes Valley Reservoir		2A	3A		4
Millsite Reservoir	1C	2A	3A		4

i. Garfield County

TABLE

Barney Lake		2B	3A		4
Cyclone Lake		2B	3A		4
Deer Lake		2B	3A		4
Jacobs Valley Reservoir		2B		3C 3D	4
Lower Bowns Reservoir		2B	3A		4
North Creek Reservoir		2B	3A		4
Panguitch Lake		2B	3A		4
Pine Lake		2B	3A		4
Oak Creek Reservoir (Upper Bowns)		2B	3A		4
Pleasant Lake		2B	3A		4
Posey Lake		2B	3A		4
Purple Lake		2B	3A		4
Raft Lake		2B	3A		4
Row Lake #3		2B	3A		4
Row Lake #7		2B	3A		4
Spectacle Reservoir		2B	3A		4
Tropic Reservoir		2B	3A		4
West Deer Lake		2B	3A		4
Wide Hollow Reservoir		2B	3A		4

j. Iron County

TABLE

Newcastle Reservoir		2B	3A		4

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

k. Juab County

TABLE

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

l. Kane County

TABLE

Navajo Lake		2B	3A		4

m. Millard County

TABLE

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

n. Morgan County

TABLE

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

o. Piute County

TABLE

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

p. Rich County

TABLE

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

q. Salt Lake County

TABLE

Decker Lake		2B	3B	3D	4
Lake Mary	1C	2B	3A		

Little Dell Reservoir	1C	2B	3A	
Mountain Dell Reservoir	1C	2B	3A	

r. San Juan County

					TABLE
Blanding Reservoir #4	1C	2B	3A		4
Dark Canyon Lake	1C	2B	3A		4
Kens Lake		2B	3A*		4
Lake Powell (Utah portion)	1C	2A		3B	4
Lloyds Lake	1C	2B	3A		4
Monticello Lake		2B	3A		4
Recapture Reservoir		2B	3A		4

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

s. Sanpete County

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

t. Sevier County

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

Salina Reservoir	2B	3A	4
Sheep Valley Reservoir	2B	3A	4

u. Summit County

TABLE

Abes Lake	2B	3A	4
Alexander Lake	2B	3A	4
Amethyst Lake	2B	3A	4
Beaver Lake	2B	3A	4
Beaver Meadow Reservoir	2B	3A	4
Big Elk Reservoir	2B	3A	4
Blanchard Lake	2B	3A	4
Bridger Lake	2B	3A	4
China Lake	2B	3A	4
Cliff Lake	2B	3A	4
Clyde Lake	2B	3A	4
Coffin Lake	2B	3A	4
Cuberant Lake	2B	3A	4
East Red Castle Lake	2B	3A	4
Echo Reservoir	1C 2A	3A	4
Fish Lake	2B	3A	4
Fish Reservoir	2B	3A	4
Haystack Reservoir #1	2B	3A	4
Henrys Fork Reservoir	2B	3A	4
Hoop Lake	2B	3A	4
Island Lake	2B	3A	4
Island Reservoir	2B	3A	4
Jesson Lake	2B	3A	4
Kamas Lake	2B	3A	4
Lily Lake	2B	3A	4
Lost Reservoir	2B	3A	4
Lower Red Castle Lake	2B	3A	4
Lyman Lake	2A	3A	4
Marsh Lake	2B	3A	4
Marshall Lake	2B	3A	4
McPheters Lake	2B	3A	4
Meadow Reservoir	2B	3A	4
Meeks Cabin Reservoir	2B	3A	4
Notch Mountain Reservoir	2B	3A	4
Red Castle Lake	2B	3A	4
Rockport Reservoir	1C 2A	3A	4

Ryder Lake		2B	3A	4
Sand Reservoir		2B	3A	4
Scow Lake		2B	3A	4
Smith Moorehouse Reservoir	1C	2B	3A	4
Star Lake		2B	3A	4
Stateline Reservoir		2B	3A	4
Tamarack Lake		2B	3A	4
Trial Lake	1C	2B	3A	4
Upper Lyman Lake		2B	3A	4
Upper Red Castle		2B	3A	4
Wall Lake Reservoir		2B	3A	4
Washington Reservoir		2B	3A	4
Whitney Reservoir		2B	3A	4

v. Tooele County

TABLE

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

w. Uintah County

TABLE

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

Red Fleet Reservoir	1C	2A	3A		4
Steinaker Reservoir	1C	2A	3A		4
Towave Reservoir		2B	3A		4
Weaver Reservoir		2B	3A		4
Whiterocks Lake		2B	3A		4
Workman Lake		2B	3A		4

x. Utah County

TABLE

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

y. Wasatch County

TABLE

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

z. Washington County

TABLE

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

aa. Wayne County

TABLE

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

bb. Weber County

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

13.13 Unclassified Waters

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

R317-2-14. Numeric Criteria.

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

Parameter	Domestic Source 1C(1)	Recreation and Aesthetics 2A	2B	Agri-culture 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 226, 228		
(Combined)	5			
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	

FOOTNOTES:

(1) See also numeric criteria for water and organism in Table 2.14.6.

(2) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by approved laboratory methods for the required detection levels.

(3) Reserved

(4) SITE SPECIFIC STANDARDS FOR TOTAL DISSOLVED 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 maximum 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 River to Seventh Day Adventist Diversion: 1,800 mg/l;

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

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

Huntington Creek and tributaries from the confluence 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 to protect the livestock watering agricultural existing use;

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

Kanab Creek and tributaries from immediately below the confluence with Sink Valley Wash to the confluence of Simpson Hollow Wash: April through November, daily maximum 1,900 mg/l. December through March, daily maximum 1,700 mg/l. Assessments shall be based on TDS concentrations measured in Kanab Creek.;

Kanab Creek and tributaries from immediately above Simpson Hollow Wash to irrigation diversion at confluence with Reservoir Canyon: April through November, daily maximum 1,400 mg/l. Assessments shall be based on TDS concentrations measured in Kanab Creek.;

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

Muddy Creek and tributaries from the confluence with 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 River to road crossing above Stinking Springs: 3000 mg/l;

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

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

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

Quitchupah Creek and tributaries from the confluence with Ivie Creek to Highway U-10: 3,800 mg/l provided that total sulfate not exceed 2,000 mg/l to protect the livestock watering agricultural existing use;

Rock Canyon Creek from the confluence with Cottonwood Creek to headwaters: 3,500 mg/l;

San Pitch River from below Gunnison Reservoir to the Sevier River: 2,400 mg/l;

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

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

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

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

Silver Creek and tributaries, Summit County, from confluence with Tollgate Creek to headwaters: maximum 1,900 mg/L.

South Fork Spring Creek from confluence with Pelican 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 Tempe Springs: 2,360 mg/l

(5) Investigations should be conducted to develop more information where these pollution indicator levels are exceeded. These indicators are superseded by numeric criteria 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, such as in National Wildlife Refuges and State Waterfowl Management Areas, the criteria may be considered attained provided the density attributable to non-wildlife sources is less than the criteria. Exceedences of E. coli from nonhuman nonpoint sources will generally be addressed through appropriate Federal, State, and local nonpoint source programs.

Measurement of E. coli using the "Quanti-Tray 2000" procedure is approved as a field analysis. Other EPA approved methods may also be used.

For water quality assessment purposes, up to 10% 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 data sets, where exceedences of these criteria are observed, follow-up ambient monitoring should be conducted to better characterize water quality.

TABLE 2.14.2
NUMERIC CRITERIA FOR AQUATIC WILDLIFE(8)

Parameter	Aquatic Wildlife				
	3A	3B	3C	3D	5
PHYSICAL					

Total Dissolved Gases	(1)	(1)		
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 (TOTAL RECOVERABLE, UG/L)				
Aluminum (4) (5)				
4 Day Average	87	87	87	87
1 Hour Average	750	750	750	750
METALS, METALLOIDS AND SUBSTANCES (4) (DISSOLVED, UG/L) (6)				
Arsenic (Trivalent)				
4 Day Average	150	150	150	150
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 Hour Average	16	16	16	16
Chromium (Trivalent) (7)				
4 Day Average	74	74	74	74
1 Hour Average	570	570	570	570
Copper (7)				
4 Day Average	9	9	9	9
1 Hour Average	13	13	13	13
Cyanide (Free)				
4 Day Average	5.2	5.2	5.2	
1 Hour Average	22	22	22	22
Iron (Maximum)	1000	1000	1000	1000
Lead (7)				
4 Day Average	2.5	2.5	2.5	2.5
1 Hour Average	65	65	65	65
Mercury				
4 Day Average	0.012	0.012	0.012	0.012
Nickel (7)				
4 Day Average	52	52	52	52
1 Hour Average	468	468	468	468
Selenium				
4 Day Average	4.6	4.6	4.6	4.6
1 Hour Average	18.4	18.4	18.4	18.4
Selenium (14) Gilbert Bay (Class 5A) Great Salt Lake Geometric Mean over Nesting Season (mg/kg dry wt)				12.5
Silver				

1 Hour Average (7)	3.2	3.2	3.2	3.2
Tributyltin				
4 Day Average	0.072	0.072	0.072	0.072
1 Hour Average	0.46	0.46	0.46	0.46
Zinc (7)				
4 Day Average	120	120	120	120
1 Hour Average	120	120	120	120
INORGANICS				
(MG/L) (4)				
Total Ammonia as N (9)				
30 Day Average	(9a)	(9a)	(9a)	(9a)
1 Hour Average	(9b)	(9b)	(9b)	(9b)
Chlorine (Total Residual)				
4 Day Average	0.011	0.011	0.011	0.011
1 Hour Average	0.019	0.019	0.019	0.019
Hydrogen Sulfide				
(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	0.0043	0.0043
1 Hour Average	1.2	1.2	1.2	1.2
Chlorpyrifos				
4 Day Average	0.041	0.041	0.041	0.041
1 Hour Average	0.083	0.083	0.083	0.083
4,4' -DDT				
4 Day Average	0.0010	0.0010	0.0010	0.0010
1 Hour Average	0.55	0.55	0.55	0.55
Diazinon				
4 Day Average	0.17	0.17	0.17	0.17
1 Hour Average	0.17	0.17	0.17	0.17
Dieldrin				
4 Day Average	0.056	0.056	0.056	0.056
1 Hour Average	0.24	0.24	0.24	0.24
Alpha-Endosulfan				
4 Day Average	0.056	0.056	0.056	0.056
1 Hour Average	0.11	0.11	0.11	0.11
beta-Endosulfan				
4 Day Average	0.056	0.056	0.056	0.056
1 Day Average	0.11	0.11	0.11	0.11
Endrin				
4 Day Average	0.036	0.036	0.036	0.036
1 Hour Average	0.086	0.086	0.086	0.086
Heptachlor				
4 Day Average	0.0038	0.0038	0.0038	0.0038
1 Hour Average	0.26	0.26	0.26	0.26
Heptachlor epoxide				
4 Day Average	0.0038	0.0038	0.0038	0.0038
1 Hour Average	0.26	0.26	0.26	0.26

Hexachlorocyclohexane (Lindane)				
4 Day Average	0.08	0.08	0.08	0.08
1 Hour Average	1.0	1.0	1.0	1.0
Methoxychlor (Maximum)	0.03	0.03	0.03	0.03
Mirex (Maximum)	0.001	0.001	0.001	0.001
Nonylphenol				
4 Day Average	6.6	6.6	6.6	6.6
1 Hour Average	28.0	28.0	28.0	28.0
Parathion				
4 Day Average	0.013	0.013	0.013	0.013
1 Hour Average	0.066	0.066	0.066	0.066
PCBs				
4 Day Average	0.014	0.014	0.014	0.014
Pentachlorophenol (11)				
4 Day Average	15	15	15	15
1 Hour Average	19	19	19	19
Toxaphene				
4 Day Average	0.0002	0.0002	0.0002	0.0002
1 Hour Average	0.73	0.73	0.73	0.73
POLLUTION INDICATORS (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		

FOOTNOTES:

(1) Not to exceed 110% of saturation.

(2) These limits are not applicable to lower water levels in deep impoundments. First number in column is for when early life stages are present, second number is for when all other life stages present.

(2a) These criteria are not applicable to Great Salt Lake impounded wetlands. Surface water in these wetlands 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 degrees C.

(4) Where criteria are listed as 4-day average and 1-hour average concentrations, these concentrations should not be exceeded more often than once every three years on the average.

(5) The criterion for aluminum will be implemented as follows:

Until January 25, 2026, where the pH is equal to or greater than 7.0 and the hardness is equal to or greater than 50 ppm as CaC03 in the receiving water after mixing, the 87 ug/1 chronic criterion, expressed as total recoverable, will not apply, and aluminum will be regulated based on compliance with the 750 ug/1 acute aluminum criterion expressed as total recoverable.

On and after January 25, 2026, the one-hour and four-day aluminum criteria are incorporated by reference from Appendix K, Recommended Criteria for Various Water Chemistry Conditions, Final Ambient Water Quality Criteria for Aluminum 2018, EPA-822-R-18-001.

(5a) For water chemistry conditions not specifically listed in Appendix K, the criteria are the more stringent of the criteria bracketed by the two most similar water chemistry conditions or may be interpolated using the same equations used to create the Appendix K tables.

(5b) Criteria based on ambient water chemistry conditions must protect the water body over the full range of water chemistry conditions, including during conditions when aluminum is most toxic.

(5c) For characterizing ambient waters, total recoverable analytical methods may be used or different scientifically appropriate analytical methods that measure the bioavailable fraction of aluminum that includes the measurement of amorphous aluminum hydroxide yet minimizes the measurement of mineralized forms of aluminum such as aluminum silicates associated with suspended sediment particles or clays.

(6) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by EPA approved laboratory methods for the required detection levels.

(7) Hardness dependent criteria. 100 mg/l used. Conversion factors for ratio of total recoverable metals to dissolved metals must also be applied.

In waters with a hardness greater than 400 mg/l as CaC03, calculations will assume a hardness of 400 mg/l as CaC03. See Table 2.14.3 for complete equations for hardness and conversion factors.

(8) See also numeric criteria for organism only in Table 2.14.6.

(9) The following equations are used to calculate Ammonia criteria concentrations:

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

Fish Early Life Stages are Present:

mg/l as N (Chronic) = $((0.0577/(1+10^{7.688-pH})) + (2.487/(1+10^{pH-7.688}))) * MIN (2.85, 1.45*10^{0.028*(25-T)})$

Fish Early Life Stages are Absent:

mg/1 as N (Chronic) = $((0.0577/(1+10^{7.688-pH})) + (2.487/(1+10^{pH-7.688}))) * 1.45*10^{0.028* (25-MAX(T,7))})$

Mill Creek (Salt Lake County) from confluence with Jordan River to Interstate 15, Jordan River from Farmington Bay to confluence with Little Cottonwood Creek, Surplus Canal from 900 South Street to diversion from the Jordan River, State Canal, Fish Early Life Stages are Present:

mg/l as N (Chronic) = $0.9405 * ((0.0278/(1+10^{7.688-pH})) + (1.1994/(1+10^{pH-7.688}))) * MIN(6.920,(7.547*10^{0.028*(20-T)}))$

Mill Creek (Salt Lake County) from confluence with Jordan River to Interstate 15, Jordan River from Farmington Bay to confluence with Little Cottonwood Creek, Surplus Canal from 900 South Street to diversion from the Jordan River, State Canal, Fish Early Life Stages are Absent:

mg/L as N (chronic) = $0.9405 * ((0.0278/(1+10^{7.688-pH})) + (1.1994/(1+10^{pH-7.688}))) * (7.547*10^{0.028*(20-MAX (T,7))})$

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

Class 3A:

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

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 Farmington Bay to confluence with Little Cottonwood Creek, Surplus Canal from 900 South Street to diversion from the Jordan River, State Canal:

mg/l as N (Acute) = $0.7249 * ((0.0114/(1+10^{7.204-pH}))+(1.6181/(1+10^{pH-7.204}))) * MIN(51.93,(62.15*10^{0.036*(20-T)}))$

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

of the "Early Life Stages are Absent" criterion is determined to be appropriate.

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

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

(12) Total Phosphorus as P (mg/l) as a pollution indicator for lakes and reservoirs shall be 0.025. These indicators are superseded by numeric criteria in waters where promulgated.

(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 or embryo of aquatic dependent birds using Gilbert Bay based upon a minimum of five samples over the nesting 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 sufficient intensity to determine if selenium concentrations within the Great Salt Lake ecosystem are increasing.

5.0 mg/kg: Increased monitoring to address data gaps, loadings, and areas of uncertainty identified from initial Great Salt Lake selenium studies.

6.4 mg/kg: Initiation of a Level II Antidegradation 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. Formalize and implement TMDL.

Antidegradation
Level II Review procedures associated with this standard are referenced at R317-2-3.5.C.

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

pH	Class 3A	Class 3B, 3C, 3D
6.5	32.6	48.8
6.6	31.3	46.8
6.7	29.8	44.6
6.8	28.1	42.0
6.9	26.2	39.1
7.0	24.1	36.1
7.1	22.0	32.8
7.2	19.7	29.5
7.3	17.5	26.2
7.4	15.4	23.0
7.5	13.3	19.9
7.6	11.4	17.0
7.7	9.65	14.4
7.8	8.11	12.1
7.9	6.77	10.1
8.0	5.62	8.40
8.1	4.64	6.95
8.2	3.83	5.72
8.3	3.15	4.71
8.4	2.59	3.88
8.5	2.14	3.20
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

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

Fish Early Life Stages Present
Temperature, C

pH	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	0.27	0.24	0.21
9.0	0.49	0.49	0.44	0.39	0.34	0.30	0.26	0.23	0.20	0.18

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

Fish Early Life Stages Absent
Temperature, C

pH	0-7	8	9	10	11	12	13	14	16
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.36	6.89	6.06
6.6	10.7	9.99	9.37	8.79	8.24	7.72	7.24	6.79	5.97
6.7	10.5	9.81	9.20	8.62	8.08	7.58	7.11	6.66	5.86
6.8	10.2	9.58	8.98	8.42	7.90	7.40	6.94	6.51	5.72
6.9	9.93	9.31	8.73	8.19	7.68	7.20	6.75	6.33	5.56
7.0	9.60	9.00	8.43	7.91	7.41	6.95	6.52	6.11	5.37
7.1	9.20	8.63	8.09	7.58	7.11	6.67	6.25	5.86	5.15
7.2	8.75	8.20	7.69	7.21	6.76	6.34	5.94	5.57	4.90
7.3	8.24	7.73	7.25	6.79	6.37	5.97	5.60	5.25	4.61
7.4	7.69	7.21	6.76	6.33	5.94	5.57	5.22	4.89	4.30
7.5	7.09	6.64	6.23	5.84	5.48	5.13	4.81	4.51	3.97
7.6	6.46	6.05	5.67	5.32	4.99	4.68	4.38	4.11	3.61
7.7	5.81	5.45	5.11	4.79	4.49	4.21	3.95	3.70	3.25
7.8	5.17	4.84	4.54	4.26	3.99	3.74	3.51	3.29	2.89
7.9	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89	2.54
8.0	3.95	3.70	3.47	3.26	3.05	2.86	2.68	2.52	2.21
8.1	3.41	3.19	2.99	2.81	2.63	2.47	2.31	2.17	1.91
8.2	2.91	2.73	2.56	2.40	2.25	2.11	1.98	1.85	1.63
8.3	2.47	2.32	2.18	2.04	1.91	1.79	1.68	1.58	1.39
8.4	2.09	1.96	1.84	1.73	1.62	1.52	1.42	1.33	1.17
8.5	1.77	1.66	1.55	1.46	1.37	1.28	1.20	1.13	0.990
8.6	1.49	1.40	1.31	1.23	1.15	1.08	1.01	0.951	0.836
8.7	1.26	1.18	1.11	1.04	0.976	0.915	0.858	0.805	0.707
8.8	1.07	1.01	0.944	0.885	0.829	0.778	0.729	0.684	0.601
8.9	0.917	0.860	0.806	0.758	0.709	0.664	0.623	0.584	0.513
9.0	0.790	0.740	0.694	0.651	0.610	0.572	0.536	0.503	0.442

pH	18	20	22	24	26	28	30
6.5	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	4.41	3.78	3.33	2.92	2.57	2.26	1.99
7.3	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	2.86	2.51	2.21	1.94	1.71	1.50	1.32

7.8	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	1.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	1.68	1.47	1.29	1.14	1.00	0.879	0.733
8.2	1.43	1.26	1.11	1.073	0.855	0.752	0.661
8.3	1.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	1.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.735	0.646	0.568	0.499	0.439	0.396	0.339
8.7	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.389	0.342	0.300	0.264	0.232	0.204	0.179

TABLE 2.14.3a
EQUATIONS TO CONVERT TOTAL RECOVERABLE METALS STANDARD
WITH HARDNESS (1) DEPENDENCE TO DISSOLVED METALS STANDARD
BY APPLICATION OF A CONVERSION FACTOR (CF).

Parameter	4-Day Average (Chronic) Concentration (UG/L)
CADMIUM	CF * $e^{(0.7977*\ln(\text{hardness})-3.909)}$ CF = 1.101672 - ln(hardness) (0.041838)
CHROMIUM III	CF * $e^{(0.8190(\ln(\text{hardness}))+0.6848}$ CF = 0.860
COPPER	CF * $e^{(0.8545(\ln(\text{hardness}))-1.702)}$ CF = 0.960
LEAD	CF * $e^{(1.273(\ln(\text{hardness}))-4.705)}$ CF = 1.46203 - ln(hardness)(0.145712)
NICKEL	CF * $e^{(0.8460(\ln(\text{hardness}))+0.0584)}$ CF = 0.997
SILVER	N/A
ZINC	Cf * $e^{(0.8473(\ln(\text{hardness}))+0.884)}$ CF = 0.986

TABLE 2.14.3b
EQUATIONS TO CONVERT TOTAL RECOVERABLE METALS STANDARD
WITH HARDNESS (1) DEPENDENCE TO DISSOLVED METALS STANDARD
BY APPLICATION OF A CONVERSION FACTOR (CF).

Parameter	1-Hour Average (Acute) Concentration (UG/L)
CADMIUM	CF * $e^{(0.9789*\ln(\text{hardness})-3.866)}$ CF = 1.136672 - ln(hardness)(0.041838)
CHROMIUM (III)	CF * $e^{(0.8190(\ln(\text{hardness}))+3.7256)}$ CF = 0.316
COPPER	CF * $e^{(0.9422(\ln(\text{hardness}))-1.700)}$ CF = 0.960
LEAD	CF * $e^{(1.273(\ln(\text{hardness}))-1.460)}$ CF = 1.46203 - ln(hardness)(0.145712)
NICKEL	CF * $e^{(0.8460(\ln(\text{hardness}))+2.255)}$ CF= 0.998
SILVER	CF * $e^{(1.72(\ln(\text{hardness}))-6.59)}$ CF = 0.85
ZINC	CF * $e^{(0.8473(\ln(\text{hardness}))+0.884)}$ CF = 0.978

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

TABLE 2.14.4
EQUATIONS FOR PENTACHLOROPHENOL
(pH DEPENDENT)

4-Day Average (Chronic)	1-Hour Average (Acute)

Concentration (UG/L)	Concentration (UG/L)
$e^{(1.005(pH))-5.134}$	$e^{(1.005(pH))-4.869}$

TABLE 2.14.5
SITE SPECIFIC CRITERIA FOR DISSOLVED OXYGEN FOR
JORDAN RIVER FROM FARMINGTON BAY TO CONFLUENCE WITH LITTLE
COTTONWOOD CREEK, SURPLUS CANAL, AND STATE CANAL

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

TABLE 2.14.6
LIST OF HUMAN HEALTH CRITERIA (CONSUMPTION)

Chemical Parameter and CAS #	Water and Organism (ug/L)	Organism Only (ug/L)
	Class 1C	Class 3A,3B,3C,3D
Antimony 7440-36-0	5.6	640
Arsenic 7440-38-2	A	A
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	A
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	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 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 address 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 CRITERIA FOR CLASSES 2A and 2B (1)

Nutrient Parameters	Criteria
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 through 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 boundary to confluence with Crandall Creek and Crandall Creek to headwaters.

TABLE 2.14.8
NUTRIENT CRITERIA FOR CLASSES 3A, 3B, 3C, and 3D(1)

Nutrient Parameters	Criteria(2)
Total Phosphorus	0.035 mg/L)(3), and
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 through 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 boundary to confluence with Crandall Creek and Crandall Creek to headwaters.

(2) For water quality assessments, Table 8, Decision Matrix That Will Be Used to Assess Support of Headwater Aquatic Life Uses for Nutrient-related Water Quality Problems, "Proposed Nutrient Criteria: Utah Headwater Streams," Utah Division of 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 least three transects perpendicular to stream flow and spatially dispersed along a reach of at least 50 meters

(5) Not to be exceeded during the index period of algal growth through senescence.

KEY: water pollution, water quality standards
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