Mark Up of R317-2 Standards of Quality for Waters of the State Proposed Changes July 28, 2011

Yellow Highlighting for nonsubstantive changes
Green Highlighting for substantive changes

- 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 domestic, agricultural, industrial, recreational and 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 Executive Secretary 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 Executive Secretary will incorporate appropriate changes and return to the Water Quality Board to petition for formal adoption of the proposed changes following the Division of Administrative Rules' rulemaking procedures.

# R317-2-2. Scope.

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

### R317-2-3. Antidegradation Policy.

#### 3.1 Maintenance of Water Quality

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

In those cases where potential water quality impairment associated with a thermal discharge is involved, the antidegradation policy and implementing method shall be consistent with Section 316 of the Federal Clean Water Act.

# 3.2 Category 1 3.5 [C1] 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 \(\frac{1}{2}\).\(\frac{3}{5}\) 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 Regulations for Individual Wastewater Disposal Systems (R317-501 through R317-515). Other diffuse sources (nonpoint sources) of wastes shall be controlled to the extent feasible through implementation of best management practices or regulatory programs.

Projects such as, but not limited to, construction of dams or roads will be considered Discharges [[C2]] 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  $\frac{1}{2}$  Waters are listed in R317-2-12.1.

# 3.3 Category 2 3 Waters

Category 2 3 Waters are designated surface water segments which are treated as Category 1 3.5 Waters except that a point source discharge may be permitted provided that the discharge does not degrade existing water quality. Discharges [[3]] 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 3 Waters are listed in R317-

#### 2-12.2.

3.4 Category 3 2 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 public participation, as described in Section 3.5e.

- a. Activities Subject to Antidegradation Review (ADR)
- For all State waters, antidegradation reviews will be conducted for proposed federally regulated activities, such as those under Clean Water Act Sections 401 (FERC and other Federal actions), 402 (UPDES permits), and 404 (Army Corps of Engineers permits). The Executive Secretary may conduct an ADR on 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  $\frac{1}{2}$  Waters and Category  $\frac{2}{3}$ reviews shall be consistent with the Waters, requirement established in Sections 3.2 and 3.3, respectively.
- 3. For Category 2 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:
- 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;
- (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 (d) [C4] a new or renewed UPDES permit is being issued, and

water quality based effluent limits are not required for a specific pollutant because it has been determined that the discharge will not cause, have reasonable potential to cause, or contribute to an exceedance of a State water quality standard for the pollutant 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 permits, CWA Section 404 nationwide and general permits, or activities of short duration, will be deemed to have a temporary and limited effect on water quality where there is a reasonable factual basis to support such a conclusion. The 404 nationwide permits decision will be made at the time of permit issuance, as part of the Division's water quality certification under CWA Section 401. Where it is determined that the category of activities will result in temporary and limited effects, subsequent individual activities authorized under such permits will not be subject to further antidegradation review. Factors to be considered in determining whether water quality effects will be temporary and limited may include the following:
- (a) Length of time during which water quality will be lowered.
- (b) Percent change in ambient concentrations of pollutants of concern
  - (c) Pollutants affected
- (d) Likelihood for long-term water quality benefits to the segment (e.g., dredging of contaminated sediments)
- (e) Potential for any residual long-term influences on existing uses.
- (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 Division of Water Quality will develop any needed UPDES permits for public notice following the normal permit issuance process.

The ADR will cover the following requirements or determinations:

1. Will all Statutory and regulatory requirements be met?

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

2. Are there any reasonable less-degrading alternatives?

There will be an evaluation of whether there are any reasonable non-degrading or less degrading alternatives for the proposed activity. This question will be addressed by the Division based on information provided by the project proponent. Control alternatives for a proposed activity will be evaluated in an effort to avoid or minimize degradation of the receiving water.

Alternatives to be considered, evaluated, and implemented to the extent feasible, could include pollutant trading, water conservation, water recycling and reuse, land application, total containment, etc.

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

- (a) innovative or alternative treatment options
- (b) more effective treatment options or higher treatment levels
  - (c) connection to other wastewater treatment facilities
  - (d) process changes or product or raw material substitution
- (e) seasonal or controlled discharge options to minimize discharging during critical water quality periods
  - (f) pollutant trading
  - (q) water conservation
  - (h) water recycle and reuse
- (i) alternative discharge locations or alternative receiving waters
  - (j) land application
  - (k) total containment
- (1) 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. Special Procedures for 404 Permits.

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

- (a) makes a determination that the proposed activity discharges are unavoidable (i.e., necessary):
- (b) examines alternatives to the proposed activity and authorize only the least damaging practicable alternative; and
- (c) requires mitigation for all impacts associated with the activity. A 404(b)(1) finding document is produced as a result of this procedure and is the basis for the permit decision. Public participation is provided for in the process. Because the 404(b)(1) guidelines contains an alternatives analysis, the executive secretary will not require development of a separate alternatives analysis for the anti-degradation review. The division will use the analysis in the 404(b)(1) finding document in completing its anti-degradation review and 401 certification.
- 4. Does the proposed activity have economic and social importance?

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

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

- (a) employment (i.e., increasing, maintaining, or avoiding a reduction in employment);
  - (b) increased production;
  - (c) improved community tax base;
  - (d) housing;
  - (e) correction of an environmental or public health problem;

and

- (f) other information that may be necessary to determine the social and economic importance of the proposed surface water discharge.
- The applicant may submit a proposal to mitigate any adverse environmental effects of the proposed activity (e.g., improvement, bank stabilization). instream habitat 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. effective mitigation plan may, in some cases, allow the Executive Secretary to authorize proposed activities that would otherwise not be authorized.
- 6. Will water quality standards be violated by the discharge?

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

7. Will existing uses be maintained and protected?

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

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

An Antidegradation Level II Review will be required by the Executive Secretary for discharges to waters with a Class 1C drinking water use assigned.

Depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream water quality standards, may be required by the Executive Secretary in order to adequately protect public health and the environment. Such additional

treatment may include additional disinfection, suspended solids removal to make the disinfection process more effective, removal of any specific contaminants for which drinking water maximum contaminant levels (MCLs) exists, and/or nutrient removal to reduce the organic content of raw water used as a source for domestic water systems.

Additional monitoring may include analyses for viruses, Giardia, Cryptosporidium, other pathogenic organisms, and/or any contaminant for which drinking water MCLs exist. Depending on the results of such monitoring, more stringent treatment may then be required.

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

### e. Public Notice

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

#### f. Implementation Procedures

The Executive Secretary 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 Executive Secretary 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 regulations to waters of the Colorado River and its tributaries, such waters shall be protected also by requirements of "Proposed Water Quality Standards for Salinity including Numeric Criteria and Plan of Implementation for Salinity Control, Colorado River System, June 1975" and a supplement dated August 26, 1975, entitled "Supplement, including Modifications to Proposed Water Quality Standards for Salinity including Numeric Criteria and Plan

of Implementation for Salinity Control, Colorado River System, June 1975", as approved by the seven Colorado River Basin States and the U.S. Environmental Protection Agency, as updated by the 1978 Revision and the 1981, 1984, 1987, 1990, 1993, 1996, 1999, 2002, 2005, and 2008 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, 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 shall discharged to mixing effluents zones 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

The numeric criteria listed in R317-2-14 shall apply to each of the classes assigned to waters of the State as specified in It shall be unlawful and a violation of regulations for any person to discharge or place any wastes or other substances in such manner as may interfere with designated uses protected by assigned classes or to cause any of the applicable standards to be violated, except as provided in R317-1-3.1. At a minimum, assessment of the beneficial use support for waters of the state will be conducted biennially and available for 30-day period of public comment and review. Monitoring locations and target indicators of water quality standards shall be prioritized and published yearly. For water quality assessment purposes, up to 10 percent of the representative samples may exceed the minimum or maximum criteria for dissolved oxygen, pH, coli, total dissolved solids, and temperature, including situations where such criteria have been adopted on a sitespecific basis. The Board may allow site specific modifications based upon bicassay or other tests performed in accordance with standard procedures determined by the Board. Site[cs]-specific criterion may be developed based on bioassay or other tests performed in accordance with standard procedures determined by the Board by rulemaking where natural or un-alterable conditions or other factors as defined in 40 CFR 131.10(g) prevent the attainment of the statewide criterion.

7.2 Narrative Standards

It shall be unlawful, and a violation of these regulations, for any person to discharge or place any waste or other substance

in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste; or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

# R317-2-8. Protection of Downstream Uses.

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

# R317-2-9. Intermittent Waters.

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

# R317-2-10. Laboratory and Field Analyses.

10.1 Laboratory Analyses

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

10.2 Field Analyses

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

#### R317-2-11. Public Participation.

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

# R317-2-12. Category $\frac{1}{2}$ and Category $\frac{2}{3}$ Waters.

12.1 Category ± 3.5 Waters.

In addition to assigned use classes, the following surface waters of the State are hereby designated as Category  $\frac{1}{2.5}$  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:

Category 2 3 Waters as listed in R317-2-12.2.

Weber River[[66]<mark>, a tributary to the Great Salt Lake, in the Weber River Drainage from Uintah to Mountain Green.</mark>

- b. Other surface waters, which may include segments within U.S. National Forests as follows:
  - 1. Colorado River Drainage

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

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

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

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

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

2. Green River Drainage

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

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

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

Ashley Creek and tributaries, from Steinaker diversion to headwaters.

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

Green River, from state line to Flaming Gorge Dam.

Tollivers Creek, from confluence with Green River to headwaters.

Allen Creek, from confluence with Green River to headwaters.

3. Virgin River Drainage

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

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

4. Kanab Creek Drainage

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

5. Bear River Drainage

Swan Creek and tributaries, from Bear Lake to headwaters.

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

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

Woodruff Creek and tributaries, from Woodruff diversion to headwaters.

6. Weber River Drainage

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

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

Chalk Creek and tributaries, from U.S [C7] . Highway 189 Main Street in Coalville to headwaters.

Weber River and tributaries, from U.S [C8] . Highway 189 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 Height Bench diversion to headwaters (Davis County).

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

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

12.2 Category 2 3 Waters.

In addition to assigned use classes, the following surface waters of the State are hereby designated as Category  $\frac{2}{3}$  Waters:

a. Green River Drainage

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

Electric Lake.

b. [C9] Weber River Drainage

Weber River from Uintah to Mountain Green.

# R317-2-13. Classification of Waters of the State (see R317-2-6).

a. Colorado River Drainage

13.1 Upper Colorado River Basin

#### TABLE

| Paria River and tributaries, from state line to headwaters  |    | 2B    | 3C | 4 |
|---|----|-------|----|---|
| All tributaries to Lake Powell, except as listed below Tributaries to Escalante River from confluence with Boulder Creek to |    | 2B 3B |    | 4 |
| headwaters, including Boulder Creek   |    | 2B 3A |    | 4 |
| Dirty Devil River and<br>tributaries, from Lake<br>Powell to Fremont River  |    | 2B    | 3C | 4 |
| Deer Creek and tributaries,<br>from confluence with Boulder<br>Creek to headwaters  |    | 2B 3A |    | 4 |
| Fremont River and<br>tributaries, from confluence<br>with Muddy Creek to Capitol  |    |       |    |   |
| Reef National Park, except as listed below  | 1C | 2B    | 3C | 4 |

| tributaries, from confluence<br>with Fremont Rive <mark>r</mark> to East<br>boundary of Capitol Reef<br>National Park        |       | 2B |    | 3C          | 4  |
|--|-------|----|----|-------------|----|
| Pleasant Creek and<br>tributaries, from East<br>boundary of Capitol Reef<br>National Park to headwaters                      | 1C    | 2B | 3A |             |    |
| Fremont River and<br>tributaries, through Capitol<br>Reef National Park to<br>headwaters<br>4                                |       |    | 1C | 2A[[C10] 2B | 3A |
| Muddy Creek and tributaries,<br>from confluence with Fremont<br>River to Highway U-10<br>crossing, except as listed<br>below |       | 2B |    | 3C          | 4  |
| Quitchupah Creek and<br>Tributaries, from Highway<br>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,<br>from Highway U-10 crossing<br>to headwaters  | 1C    | 2B | 3A |             | 4  |
| San Juan River and<br>Tributaries, from Lake<br>Powell to state line except As<br>listed below:                              | 1C 2A |    |    | 3B          | 4  |
| Johnson Creek and<br>tributaries, from confluence<br>with Recapture Creek to<br>headwaters                                   | 1C    | 2B | 3A |             | 4  |
| Verdure Creek and tributaries,<br>from Highway US-191 crossing<br>to headwaters  |       | 2B | 3A |             | 4  |
| North Creek and tributaries,<br>from confluence with Montezuma<br>Creek to headwaters  | 1C    | 2B | 3A |             | 4  |
| South Creek and tributaries,   |       |    |    |             |    |

|      | rom confluence with Montezuma<br>reek to headwaters   | 1C   | 2B | 3A |    |    | 4 |
|------|---|------|----|----|----|----|---|
| f    | pring Creek and tributaries,<br>rom confluence with Vega<br>reek to headwaters                |      | 2B | 3A |    |    | 4 |
| f    | ontezuma Creek and tributaries,<br>rom U.S. Highway 191 to<br>eadwaters                       | 1C   | 2B | 3A |    |    | 4 |
| from | ado River and tributaries,<br>Lake Powell to state line<br>t as listed below                  | 1C 2 | 2A |    | 3B |    | 4 |
|      | Indian Creek and tributaries,<br>through Newspaper Rock State<br>Park to headwaters           | 1C   | 2B | 3A |    |    | 4 |
|      | Kane Canyon Creek and<br>tributaries, from confluence with<br>Colorado River to headwaters    |      | 2B |    | :  | 3C | 4 |
|      | Mill Creek and tributaries, from confluence with Colorado River to headwaters                 | 1C   | 2B | 3A |    |    | 4 |
|      | Dolores River and tributaries,<br>from confluence with Colorado<br>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<br>tributaries, from state line to<br>headwaters                        |      | 2B | 3A |    |    | 4 |
|      | Little Dolores River and<br>tributaries, from confluence<br>with Colorado River to state line |      | 2B |    | :  | 3C | 4 |
|      | Bitter Creek and tributaries,<br>from confluence with Colorado<br>River to headwaters         |      | 2B |    | :  | 3C | 4 |

b. Green River Drainage

| Green River and tributaries, from confluence with Colorado River to state line except as listed below:                            | 1C 2F | A  | 3B |    | 4    |
|---|-------|----|----|----|------|
| Thompson Creek and tributaries from Interstate Highway 70 to headwaters   |       | 2B |    | 3C | 4    |
| San Rafael River and tributaries, from confluence with Green River to confluence with Ferron Creek                                |       | 2B |    | 3C | 4    |
| Ferron Creek and tributaries, from confluence with San  |       |    |    |    |      |
| Rafael River to Millsite<br>Reservoir   |       | 2B |    | 3C | 4    |
| Ferron Creek and tributaries,<br>from Millsite Reservoir to<br>headwaters<br>Huntington Creek and<br>tributaries, from confluence | 1C    | 2B | 3A |    | 4    |
| with Cottonwood Creek to<br>Highway U-10 crossing   |       | 2B |    | 3C | 4    |
| Huntington Creek and<br>tributaries, from Highway<br>U-10 crossing to headwaters  | 1C    | 2B | 3A |    | 4    |
| Cottonwood Creek and tributaries, from confluence with Huntington Creek to  |       |    |    |    |      |
| Highway U-57 crossing<br>Cottonwood Creek and   |       | 2B |    | 3C | 4    |
| tributaries, from Highway<br>U-57 crossing to headwaters  | 1C    | 2B | 3A |    | 4    |
| Cottonwood Canal, Emery<br>County   | 1C    | 2B |    |    | 3E 4 |
| Price River and tributaries,<br>from confluence with Green<br>River to Carbon Canal<br>Diversion at Price City Golf Course        |       | 2B |    | 3C | 4    |
| Except as listed below 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 City Golf Course to Price City Water Treatment Plant intake.       |    | 2B 3A |    |    | 4 |
| Price River and tributaries,<br>from Price<br>City Water Treatment Plant<br>intake to headwaters                               | 1C | 2B 3A |    |    | 4 |
| Range Creek and tributaries,<br>from confluence with Green<br>River to Range Creek Ranch                                       |    | 2B 3A |    |    | 4 |
| Range Creek and tributaries,<br>from Range Creek Ranch to<br>headwaters  | 1C | 2B 3A |    |    | 4 |
| Rock Creek and tributaries,<br>from confluence with Green<br>River to headwaters   |    | 2B 3A |    |    | 4 |
| Nine Mile Creek and<br>tributaries, from confluence<br>with Green River to headwaters  |    | 2B 3A |    |    | 4 |
| Pariette Draw and<br>tributaries, from confluence<br>with Green River to headwaters  |    | 2B    | 3B | 3D | 4 |
| Willow Creek and tributaries<br>(Uintah County), from<br>confluence with Green River<br>to headwaters                          |    | 2B 3A |    |    | 4 |
| White River and tributaries,<br>from confluence with Green<br>River to state line, except<br>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 |

| From confluence with Duchesne<br>River to Highway US-40 crossing                                     |    | 2B    | 3B | 4    |
|--|----|-------|----|------|
| Uinta River and tributaries,<br>From Highway US-4- crossing<br>to headwaters                         |    | 2B 3A |    | 4    |
| Power House Canal from<br>Confluence with Uinta River<br>to headwaters                               |    | 2B 3A |    | 4    |
| Whiterocks River and Canal,<br>From Tridell Water<br>Treatment Plant to<br>Headwaters                | 1C | 2B 3A |    | 4    |
| Duchesne River and<br>tributaries, from Myton<br>Water Treatment Plant intake<br>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<br>Gulch Canal Diversion to<br>Moon Lake                                    | 1C | 2B    |    | 3E 4 |
| Dry Gulch Canal, from<br>Myton Water Treatment<br>Plant to Lake Fork Canal                           | 1C | 2B    |    | 3E 4 |
| Ashley Creek and<br>tributaries, from confluence<br>with Green River to<br>Steinaker diversion       |    | 2B    | 3B | 4    |
| Ashley Creek and tributaries,<br>from Steinaker diversion to<br>headwaters                           | 1C | 2B 3A |    | 4    |
| Big Brush Creek and<br>tributaries, from confluence<br>with Green River to Tyzack<br>(Red Fleet) Dam |    | 2B    | 3B | 4    |
| Big Brush Creek and<br>tributaries, from Tyzack<br>(Red Fleet) Dam to<br>headwaters                  | 1C | 2B 3A |    | 4    |

|      | Jones Hole Creek and<br>tributaries, from confluence<br>with Green River to<br>headwaters           | 2B | 3A |    |   |
|------|---|----|----|----|---|
|      | Diamond Gulch Creek and<br>tributaries, from confluence<br>with Green River to<br>headwaters        | 2B | 3A |    | 4 |
|      | Pot Creek and tributaries,<br>from Crouse Reservoir to<br>headwaters                                | 2B | 3A |    | 4 |
| Utal | en River and tributaries, from<br>h-Colorado state line to Flaming Gorge<br>except as listed below: | 2A | 3A |    | 4 |
|      | Sears Creek and tributaries,<br>Daggett County  | 2B | 3A |    |   |
|      | Tolivers Creek and<br>tributaries, Daggett County   | 2B | 3A |    |   |
|      | Red Creek and tributaries,<br>from confluence with Green<br>River to state line                     | 2B |    | 3C | 4 |
|      | Jackson Creek and<br>tributaries, Daggett County  | 2B | 3A |    |   |
|      | Davenport Creek and<br>tributaries, Daggett County  | 2B | 3A |    |   |
|      | Goslin Creek and tributaries,<br>Daggett County   | 2B | 3A |    |   |
|      | Gorge Creek and tributaries,<br>Daggett County  | 2B | 3A |    |   |
|      | Beaver Creek and tributaries,<br>Daggett County   | 2B | 3A |    |   |
|      | O-Wi-Yu-Kuts Creek and<br>tributaries, <u>Daggett</u> County  | 2B | 3A |    |   |
|      | butaries to Flaming Gorge<br>ervoir, except as listed below   | 2B | 3A |    | 4 |
| tri  | ch Spring Draw and<br>butaries, from Flaming<br>ge Reservoir to headwaters                          | 2B |    | 3C | 4 |

| Spring Creek and tributaries,<br>from Flaming Gorge Reservoir<br>to headwaters                              |       | 2B | 3A |    |    |   |   |
|---|-------|----|----|----|----|---|---|
| All Tributaries of Flaming Gorge<br>Reservoir from Utah-Wyoming state line<br>to headwaters                 |       | 2B | 3A |    |    | 4 |   |
| 13.2 Lower Colorado River Basin<br>a. Virgin River Drainage   |       |    |    |    |    |   |   |
| TABLE   |       |    |    |    |    |   |   |
| Beaver Dam Wash and tributaries, from Motoqua to headwaters   |       | 2B |    | 3B |    | 4 | : |
| Virgin River and tributaries<br>from state line to Quail Creek<br>diversion except as listed below          |       | 2B |    | 3B |    | 4 |   |
| Santa Clara River from confluence with Virgin River to Gunlock Reservoir                                    | 1C    | 2B |    | 3B |    | 4 | = |
| Santa Clara River and<br>tributaries, from Gunlock<br>Reservoir to headwaters                               |       | 2B | 3A |    |    | 4 | = |
| Leed's Creek, from confluence with Quail Creek to headwaters  |       | 2B | 3A |    |    | 4 | : |
| Quail Creek from Quail Creek<br>Reservoir to headwaters   | 1C    | 2B | 3A |    |    | 4 | : |
| Ash Creek and tributaries,<br>from confluence with Virgin<br>River to Ash Creek Reservoir                   |       | 2B | 3A |    |    | 4 | = |
| Ash Creek and tributaries,<br>From Ash Creek Reservoir<br>to headwaters                                     |       | 2B | 3A |    |    | 4 |   |
| Virgin River and tributaries,<br>from the Quail Creek diversion<br>to headwaters, except as listed<br>below | 1C    | 2B |    |    | 3C | 4 |   |
|   | TC    | ΔĎ |    |    | 3C | 4 | : |
| North Fork Virgin River and tributaries   | 1C 2A |    | 3A |    |    | 4 | : |
| East Fork Virgin River, from town of Glendale to headwaters   |       | 2B | 3A |    |    | 4 | : |

| Kolob Creek, from confluence with Virgin River to headwaters  | 2B 3A |       | 4 |
|---|-------|-------|---|
| b. Kanab Creek Drainage   |       |       |   |
| TABLE   |       |       |   |
| Kanab Creek and tributaries,<br>from state line to irrigation<br>diversion at confluence with<br>Reservoir Canyon | 2B    | 3C    | 4 |
| Kanab Creek and tributaries,<br>from irrigation diversion at<br>confluence with Reservoir Canyon<br>to headwaters | 2B 3A |       | 4 |
| Johnson Wash and tributaries,<br>from state line to confluence<br>with Skutumpah Canyon                           | 2B    | 3C    | 4 |
| Johnson Wash and tributaries,<br>from confluence with<br>Skutumpah Canyon to headwaters                           | 2B 3A |       | 4 |
| 13.3 Bear River Basin<br>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.<br>Forest boundary to headwaters   | 2B 3A |       | 4 |
| Box Elder Creek from confluence<br>with Black Slough to Brigham<br>City Reservoir (the Mayor's Pond)              | 2B    | 3C    | 4 |
| Box Elder Creek, from Brigham<br>City Reservoir (the Mayor's Pond)<br>to headwaters                               | 2B 3A |       | 4 |
| Salt Creek, from confluence with<br>Bear River to Crystal Hot Springs   | 2B    | 3B 3D |   |
| Malad River and tributaries,<br>from confluence with Bear River<br>to state line                                  | 2B    | 3C    |   |

| Little Bear River and<br>tributaries, from Cutler<br>Reservoir to headwaters                      |    | 2B 3 | 3A         | 3D | 4 |
|---|----|------|------------|----|---|
| Logan River and tributaries, from Cutler Reservoir to headwaters                                  |    | 2B 3 | 3A         | 3D | 4 |
| Blacksmith Fork and tributaries,<br>from confluence with Logan River<br>to headwaters             |    | 2B 3 | 3A         |    | 4 |
| Newton Creek and tributaries,<br>from Cutler Reservoir to Newton<br>Reservoir                     |    | 2B 3 | 3A         |    | 4 |
| Clarkston Creek and tributaries,<br>from Newton Reservoir to<br>headwaters                        |    | 2B 3 | 3A         |    | 4 |
| Birch Creek and tributaries, from confluence with Clarkston Creek to headwaters                   |    | 2B 3 | 3A         |    | 4 |
| Summit Creek and tributaries, from confluence with Bear River to headwaters                       |    | 2B 3 | 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 3 | 3 <b>A</b> |    | 4 |
| All tributaries to Bear Lake from<br>Bear Lake to headwaters, except as<br>listed below           |    | 2B 3 | 3 <b>A</b> |    | 4 |
| Swan Springs tributary to Swan<br>Creek   | 1C | 2B 3 | 3A         |    |   |
| Bear River and tributaries in Rich County   |    | 2B 3 | 3A         |    | 4 |
| Bear River and tributaries, from Utah-Wyoming state line to headwaters (Summit County)            |    | 2B 3 | 3A         |    | 4 |
| Mill Creek and tributaries, from state line to headwaters (Summit                                 |    |      |            |    |   |

| County)   |    | 2B 3A |           | 4    |
|---|----|-------|-----------|------|
| 13.4 Weber River Basin<br>a. Weber River Drainage   |    |       |           |      |
| TABLE   |    |       |           |      |
| Willard Creek, from Willard Bay<br>Reservoir to headwaters  |    | 2B 3A |           | 4    |
| Weber River, from Great Salt Lake<br>to Slaterville diversion, except<br>as listed below:                   |    | 2B    | 3C 3D     | 4    |
| Four Mile Creek from I-15<br>To headwaters  |    | 2B 3A |           | 4    |
| Weber River and tributaries, from<br>Slaterville diversion to Stoddard<br>diversion, except as listed below |    | 2B 3A |           | 4    |
| Ogden River and tributaries, From confluence with Weber River To Pineview Dam, except as listed Below 4     |    |       | 2A[c11] 2 | B 3A |
| Wheeler Creek from<br>Confluence with Ogden<br>River to headwaters  | 1C | 2B 3A |           | 4    |
| All tributaries to<br>Pineview Reservoir  | 1C | 2B 3A |           | 4    |
| Strongs Canyon Creek and<br>Tributaries, from U.S. National<br>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<br>Stoddard diversion to<br>headwaters                                    | 1C | 2B 3A |           | 4    |

# a. Jordan River Drainage

# TABLE

| Jordan River, from Farmington<br>Bay to North Temple Street,<br>Salt Lake City   |         | 2B    | 3B | * | 3D | 4        |
|--|---------|-------|----|---|----|----------|
| State Canal, from Farmington<br>Bay to confluence with the<br>Jordan River   |         | 2B    | 3B | * | 3D | 4        |
| Jordan River, from North Temple<br>Street in Salt Lake City to<br>confluence with Little<br>Cottonwood Creek                             |         | 2B    | 3B | * |    | 4        |
| Surplus Canal from Great Salt<br>Lake to the diversion from the<br>Jordan River  |         | 2B    | 3B | * | 3D | 4        |
| Jordan River from confluence with<br>Little Cottonwood Creek to<br>Narrows Diversion   |         | 2B 3A |    |   |    | 4        |
| Jordan River, from Narrows<br>Diversion to Utah Lake   | 1C      | 2B    | 3B |   |    | 4        |
| City Creek, from Memory Park<br>in Salt Lake City to City Creek<br>Water Treatment Plant   |         | 2B 3A |    |   |    |          |
| City Creek, from City Creek Water<br>Treatment Plant to headwaters   | 1C      | 2B 3A |    |   |    |          |
| Red [C12] Butte Creek and tributaries  4 from Liberty Park pond inlet to Red Butte Reservoir   |         |       |    |   | 2B | 3A       |
| Red Butte Creek and tributaries,<br>from Red Butte Reservoir to<br>headwaters  | 1C      | 2B 3A |    |   |    |          |
| Emigration Creek and tributaries, from [C13] Foothill Boulevard 1100 East Lake City to headwaters  | in Salt | 2B 3A |    |   |    | <u>4</u> |
| Parley's Creek and tributaries,<br>from 1300 East in Salt Lake City<br>to Mountain Dell Reservoir <del>to</del><br><del>headwaters</del> | 1C      | 2B 3A |    |   |    |          |

| Parley's Creek and tributaries,<br>from Mountain Dell Reservoir to<br>headwaters  | 1C | 2B 3A |    |   |
|---|----|-------|----|---|
| Mill Creek (Salt Lake County)<br>from confluence with Jordan<br>River to Interstate Highway 15                            |    | 2B    | 3C | 4 |
| Mill Creek (Salt Lake County)<br>and tributaries from Interstate<br>Highway 15 to headwaters                              |    | 2B 3A |    | 4 |
| Big Cottonwood Creek and<br>tributaries, from confluence<br>with Jordan River to Big Cottonwood<br>Water Treatment Plant  |    | 2B 3A |    | 4 |
| Big Cottonwood Creek and  |    |       |    |   |
| tributaries, from Big Cottonwood<br>Water Treatment Plant to  |    |       |    |   |
| headwaters<br>Deaf Smith Canyon Creek and   | 1C | 2B 3A |    |   |
| tributaries   | 1C | 2B 3A |    | 4 |
| Little Cottonwood Creek and<br>tributaries, from confluence<br>with Jordan River to Metropolitan<br>Water Treatment Plant |    | 2B 3A |    | 4 |
| Little Cottonwood Creek and<br>tributaries, from Metropolitan<br>Water Treatment Plant to                                 | 1C | 20 27 |    |   |
| headwaters  | 10 | 2B 3A |    |   |
| Bell Canyon Creek and tributaries, from lower Bell's Canyon reservoir to headwaters                                       | 1C | 2B 3A |    |   |
| Little Willow Creek and<br>tributaries, from Draper<br>Irrigation Company diversion to                                    |    |       |    |   |
| headwaters Big Willow Creek and tributaries,  | 1C | 2B 3A |    |   |
| from Draper Irrigation Company<br>diversion to headwaters   | 1C | 2B 3A |    |   |
| South Fork of Dry Creek and tributaries, from Draper  |    |       |    |   |
| Irrigation Company diversion to headwaters  | 1C | 2B 3A |    |   |
| All permanent streams on east   |    |       |    |   |

|        | slope of Oquirrh Mountains (Coon, Barney's, Bingham, Butterfield, and Rose Creeks)                          |         | 2B  |     |       | 3D    | 4  |
|--------|---|---------|-----|-----|-------|-------|----|
|        | Kersey Creek from confluence of C-7<br>Ditch to headwaters  |         | 2B  |     |       | 3D    |    |
|        | * Site specific criteria for dissolved  | oxygen. | . : | See | Table | 2.14. | 5. |
|        | b. Provo River Drainage   |         |     |     |       |       |    |
|        | TABLE   |         |     |     |       |       |    |
| Ī      | Provo River and tributaries, from Utah Lake to Murdock diversion  |         | 2B  | 3A  |       |       | 4  |
| 1      | Provo River and tributaries, from Murdock Diversion to headwaters, except as listed below                   | 1C      | 2B  | 3A  |       |       | 4  |
| <br>   | Upper Falls drainage above Provo<br>City diversion  | 1C      | 2B  | 3A  |       |       |    |
| l<br>1 | Bridal Veil Falls drainage above Provo City diversion   | 1C      | 2B  | 3A  |       |       |    |
| I      | 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<br>tributaries, from diversion at<br>mouth of American Fork Canyon to<br>headwaters |         | 2B  | 3A  |       |       | 4  |
|        | Spring Creek and tributaries, from Utah Lake near Lehi to headwaters  |         | 2B  | 3A  |       |       | 4  |
|        | Lindon Hollow Creek and<br>tributaries, from Utah Lake to<br>headwaters                                     |         | 2B  |     | 3B    |       | 4  |

| Rock Canyon Creek and tributaries (East of Provo) from U.S. National Forest boundary to headwaters  | 1C | 2B 3 <i>F</i> | Δ  |    | 4 |
|---|----|---------------|----|----|---|
| Mill Race (except from Interstate<br>Highway 15 to the Provo City WWTP<br>discharge) and tributaries from<br>Utah Lake to headwaters                    |    | 2B            | 3B |    | 4 |
| Mill Race from Interstate Highway<br>15 to the Provo City wastewater<br>treatment plant discharge   |    | 2B            | 3B |    | 4 |
| Spring Creek and tributaries from Utah Lake (Provo Bay) to 50 feet upstream from the east boundary of the Industrial Parkway Road Right-of-way          |    | 2B            | 3B |    | 4 |
| Tributary to Spring Creek (Utah County) which receives the Springville City WWTP effluent from confluence with Spring Creek to headwaters               |    | 2B            |    | 3D | 4 |
| Spring Creek and tributaries from 50 feet upstream from the east boundary of the Industrial Parkway Road right-of-way to the headwaters                 |    | 2B 3 <i>F</i> | 7  |    | 4 |
| Ironton Canal from Utah Lake<br>(Provo Bay) to the east boundary<br>of the Denver and Rio Grande<br>Western Railroad right-of-way                       |    | 2B            | 3C |    | 4 |
| Ironton Canal from the east<br>boundary of the Denver and Rio<br>Grande Western Railroad<br>right-of-way to the point<br>of diversion from Spring Creek |    | 2B 3 <i>I</i> | A  |    | 4 |
| Hobble Creek and tributaries,<br>from Utah Lake to headwaters<br>Dry Creek and tributaries from   |    | 2B 3 <i>I</i> |    |    | 4 |
| Utah Lake (Provo Bay) to<br>Highway-US 89   |    | 2B            |    | 3E | 4 |
| Dry Creek and tributaries<br>from Highway-US 89 to<br>headwaters  |    | 2B 3 <i>F</i> | A  |    | 4 |

Spanish Fork River and

| tributaries, from Utah Lake to<br>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<br>tributaries from Utah Lake to<br>headwaters, except as listed<br>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 Burriston Creek, from Mona Reservoir to headwaters          |    | 3A<br>3A |    |    |    | 4 |
| Peteetneet Creek and tributaries,<br>from irrigation diversion above<br>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<br>a. Sevier River Drainage  |    |          |    |    |    |   |
| TABLE  |    |          |    |    |    |   |
| Sevier River and tributaries from<br>Sevier Lake to Gunnison Bend<br>Reservoir to U.S.National Forest<br>boundary except |    |          |    |    |    |   |
| as listed below  | 2B |          |    | 3C |    | 4 |
| Beaver River and tributaries<br>from Minersville City to headwaters  | 2B | ЗА       |    |    |    | 4 |
| Little Creek and tributaries,  |    |          |    |    |    |   |

| From irrigation diversion to Headwaters  | 2B 3A |    | 4  |
|--|-------|----|----|
| Pinto Creek and tributaries,<br>From Newcastle Reservoir to<br>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<br>from Sevier Lake to Gunnison<br>Bend Reservoir from U.S.<br>National Forest boundary to                             |       |    |    |
| headwaters, including: Pioneer Creek and tributaries,  | 2B 3A |    | 4  |
| Millard County   | 2B 3A |    | 4  |
| Chalk Creek and tributaries,<br>Millard County   | 2B 3A |    | 4  |
| Meadow Creek and tributaries,<br>Millard County  | 2B 3A |    | 4  |
| Corn Creek and tributaries,<br>Millard County  | 2B 3A |    | 4  |
| Sevier River and tributaries below U.S. National Forest boundary from Gunnison Bend Reservoir to Annabella Diversion except except as listed below |       | 2B | 3B |
| Oak Creek and tributaries,<br>Millard County   | 2B 3A |    | 4  |
| Round Valley Creek and tributaries, Millard County   | 2B 3A |    | 4  |
| Judd Creek and tributaries,<br>Juab County   | 2B 3A |    | 4  |
| Meadow Creek and tributaries,<br>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,<br>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 30 | C 3D 4 |
| Twelve Mile Creek (South Creek) and tributaries, from U.S. Forest Service boundary to headwaters   | 2B 3A | 4      |
| Six Mile Creek and<br>tributaries, Sanpete County  | 2B 3A | 4      |
| Manti Creek (South Creek)<br>and tributaries, from U.S.<br>Forest Service<br>boundary to headwaters  | 2B 3A | 4      |
| Ephraim Creek (Cottonwood Creek) and tributaries, from U.S. Forest Service to headwaters   | 2B 3A | 4      |
| Oak Creek and tributaries, from U.S. Forest Service boundary near Spring City to headwaters  | 2B 3A | 4      |
| Fountain Green Creek and tributaries, from U.S. Forest Service boundary to headwaters  | 2B 3A | 4      |
| San Pitch River and tributaries, from Highway U-132 crossing to headwaters   | 2B 3A | 4      |
| Tributaries to Sevier River from<br>Gunnison Bend Reservoir to<br>Annabelle Diversion from U.S.<br>National Forest boundary to<br>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,<br>from Newcastle Reservoir to<br>headwaters | :    | 2B | 3A | 4 |
| Coal Creek and tributaries  | :    | 2B | 3A | 4 |
| Summit Creek and tributaries  | :    | 2B | 3A | 4 |
| Parowan Creek and tributaries   | 2    | 2B | 3A | 4 |
| Duck Creek and tributaries  | 1C 2 | 2B | 3A | 4 |
| 13.7 Great Salt Lake Basin<br>a. Western Great Salt Lake Draina           | ge   |    |    |   |
| TABLE   |      |    |    |   |
| Grouse Creek and tributaries, Box<br>Elder County                         | :    | 2B | 3A | 4 |
| Muddy Creek and tributaries, Box<br>Elder County                          | :    | 2B | 3A | 4 |
| Dove Creek and tributaries, Box Elder County                              | :    | 2B | 3A | 4 |
| Pine Creek and tributaries, Box<br>Elder County                           | 2    | 2B | 3A | 4 |
| Rock Creek and tributaries, Box<br>Elder County                           | 2    | 2B | 3A | 4 |
| Fisher Creek and tributaries, Box<br>Elder County                         | 2    | 2B | 3A | 4 |
| Dunn Creek and tributaries, Box<br>Elder County                           | 2    | 2B | 3A | 4 |
| Indian Creek and tributaries,<br>Box Elder County                         | 2    | 2B | 3A | 4 |
| Tenmile Creek and tributaries,<br>Box Elder County                        | :    | 2B | 3A | 4 |

| Curlew (Deep) Creek, Box Elder<br>County  |    | 2B 3A |    | 4 |
|---|----|-------|----|---|
| Blue Creek and tributaries, from<br>Great Salt Lake to Blue Creek<br>Reservoir                              |    | 2B    | 3D | 4 |
| Blue Creek and tributaries, from<br>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,<br>from irrigation diversion to<br>Utah-Nevada state line                     |    | 2B 3A |    | 4 |
| Bettridge Creek and tributaries,<br>from irrigation diversion to<br>Utah-Nevada state line                  |    | 2B 3A |    | 4 |
| North Willow Creek and<br>tributaries, Tooele County  |    | 2B 3A |    | 4 |
| South Willow Creek and<br>tributaries, Tooele County  |    | 2B 3A |    | 4 |
| Hickman Creek and tributaries,<br>Tooele County   |    | 2B 3A |    | 4 |
| Barlow Creek and tributaries,<br>Tooele County  |    | 2B 3A |    | 4 |
| Clover Creek and tributaries,<br>Tooele County  |    | 2B 3A |    | 4 |
| Faust Creek and tributaries,<br>Tooele County   |    | 2B 3A |    | 4 |
| Vernon Creek and tributaries,<br>Tooele County  |    | 2B 3A |    | 4 |
| Ophir Creek and tributaries,<br>Tooele County   |    | 2B 3A |    | 4 |
| Soldier Creek and Tributaries<br>from the Drinking Water Treatment<br>Facility Headwaters, Tooele<br>County | 1C | 2B 3A |    | 4 |
| Settlement Canyon Creek and tributaries, Tooele County  |    | 2B 3A |    | 4 |

| Middle Canyon Creek and<br>tributaries, Tooele County   | 2B 3A    | 4 |
|---|----------|---|
| Tank Wash and tributaries,<br>Tooele County   | 2B 3A    | 4 |
| Basin Creek and tributaries,<br>Juab and Tooele Counties  | 2B 3A    | 4 |
| Thomas Creek and tributaries,<br>Juab County  | 2B 3A    | 4 |
| Indian Farm Creek and<br>tributaries, Juab County   | 2B 3A    | 4 |
| Cottonwood Creek and<br>tributaries, Juab County  | 2B 3A    | 4 |
| Red Cedar Creek and tributaries,<br>Juab County   | 2B 3A    | 4 |
| Granite Creek and tributaries,<br>Juab County   | 2B 3A    | 4 |
| Trout Creek and tributaries,<br>Juab County   | 2B 3A    | 4 |
| Birch Creek and tributaries,<br>Juab County   | 2B 3A    | 4 |
| Deep Creek and tributaries,<br>from Rock Spring Creek to<br>headwaters, Juab and Tooele<br>Counties | 2B 3A    | 4 |
| Cold Spring, Juab County  | 2B 3C 3D |   |
| Cane Spring, Juab County  | 2B 3C 3D |   |
| Lake Creek, from Garrison<br>(Pruess) Reservoir to Nevada<br>state line                             | 2B 3A    | 4 |
| Snake Creek and tributaries,<br>Millard County  | 2B 3B    | 4 |
| Salt Marsh Spring Complex,<br>Millard County  | 2B 3A    |   |
| Twin Springs, Millard County  | 2B 3B    |   |
| Tule Spring, Millard County   | 2B 3C 3D |   |

| Coyote Spring Complex, Millard<br>County  |    | 2B    | 3C 3D |   |
|---|----|-------|-------|---|
| Hamblin Valley Wash and<br>tributaries, from Nevada state<br>line to headwaters (Beaver and<br>Iron Counties) |    | 2B    | 3D    | 4 |
| Indian Creek and tributaries,<br>Beaver County, from Indian Creek<br>Reservoir to headwaters                  |    | 2B 3A |       | 4 |
| Shoal Creek and tributaries,<br>Iron County   |    | 2B 3A |       | 4 |
| b. Farmington Bay Drainage  |    |       |       |   |
| TABLE   |    |       |       |   |
| Corbett Creek and tributaries, from Highway to headwaters   |    | 2B 3A |       | 4 |
| Kays Creek and tributaries,<br>from Farmington Bay to U.S.<br>National Forest boundary                        |    | 2B    | 3B    | 4 |
| North Fork Kays Creek and<br>tributaries, from U.S. National<br>Forest boundary to headwaters                 |    | 2B 3A |       | 4 |
| Middle Fork Kays Creek and<br>tributaries, from U.S. National<br>Forest boundary to headwaters                | 1C | 2B 3A |       | 4 |
| South Fork Kays Creek and<br>tributaries, from U.S. National<br>Forest boundary to headwaters                 | 1C | 2B 3A |       | 4 |
| Snow Creek and tributaries  |    | 2B    | 3C    | 4 |
| Holmes Creek and tributaries,<br>from Farmington Bay to U.S.<br>National Forest boundary                      |    | 2B    | 3B    | 4 |
| Holmes Creek and tributaries,<br>from U.S. National Forest<br>boundary to headwaters                          | 1C | 2B 3A |       | 4 |
| Baer Creek and tributaries,<br>from Farmington Bay to<br>Interstate Highway 15                                |    | 2B    | 3C    | 4 |

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

| Barton Creek and tributaries,<br>from U.S. National Forest<br>boundary to headwaters                                  |       | 2B | 3A |    |    | 4 |
|---|-------|----|----|----|----|---|
| Mill Creek (Davis County) and<br>tributaries, from confluence<br>with State Canal to U.S.<br>National Forest boundary |       | 2B |    | 3B |    | 4 |
| Mill Creek (Davis County)<br>and tributaries, from U.S.<br>National Forest boundary to<br>headwaters                  | 1C    | 2B | 3A |    |    | 4 |
| North Canyon Creek and<br>tributaries, from U.S. National<br>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<br>a. Raft River Drainage (Box Elder   | Count | у) |    |    |    |   |
| TABLE   |       |    |    |    |    |   |
| Raft River and tributaries  |       | 2B | 3A |    |    | 4 |
| Clear Creek and tributaries,<br>from Utah-Idaho state line to<br>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

| Bear River National Wildlife<br>Refuge, Box Elder County   | 2B    | 3B | 3D |          |
|--|-------|----|----|----------|
| Bear River Bay Open Water below approximately 4,208 ft. Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft. | 2B    | 3B | 3D | 5C<br>5E |
| Brown's Park Waterfowl Management<br>Area, Daggett County  | 2B 3A |    | 3D |          |
| Clear Lake Waterfowl Management<br>Area, Millard County  | 2B    | 3C | 3D |          |
| Desert Lake Waterfowl Management<br>Area, Emery County   | 2B    | 3C | 3D |          |
| Farmington Bay Waterfowl<br>Management Area, Davis and<br>Salt Lake Counties   | 2B    | 3C | 3D |          |
| Farmington Bay   |       |    |    |          |

| Open Water below approximately 4,208 ft. Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft.              | 2B | 3B 3I | 5D<br>5E |
|--|----|-------|----------|
| Fish Springs National<br>Wildlife Refuge, Juab County  | 2B | 3C 3I | )        |
| Harold Crane Waterfowl<br>Management Area, Box Elder<br>County   | 2B | 3C 3I | )        |
| Open Water below approximately 4,208 ft. Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft.              | 2B | 3B 3I | 5A<br>5E |
| Gunnison Bay Open Water below approximately 4,208 ft. Transitional Waters approximately 4,208 ft. to Open Water Open Water above approximately 4,208 ft. | 2B | 3B 3I | 5B<br>5E |
| Howard Slough Waterfowl<br>Management Area, Weber County   | 2B | 3C 3I | )        |
| Locomotive Springs Waterfowl<br>Management Area, Box Elder County  | 2B | 3B 3I | )        |
| Ogden Bay Waterfowl Management<br>Area, Weber County   | 2B | 3C 3I | )        |
| Ouray National Wildlife Refuge,<br>Uintah County   | 2B | 3B 3I | )        |
| Powell Slough Waterfowl<br>Management Area, Utah County  | 2B | 3C 3I | )        |
| Public Shooting Grounds Waterfowl<br>Management Area, Box Elder County   | 2B | 3C 3I | )        |
| Salt Creek Waterfowl Management<br>Area, Box Elder County  | 2B | 3C 3I | )        |
| Stewart Lake Waterfowl Management<br>Area, Uintah County   | 2B | 3B 3I | )        |

Timpie Springs Waterfowl Management Area, Tooele County

2B 3B 3D

2B 3B

4

|      | 13.   | 12   | Lak | es   | and  | Re  | sei | cvoir | s. | All   | la | akes | and  | any  | res | serv | oirs |
|------|-------|------|-----|------|------|-----|-----|-------|----|-------|----|------|------|------|-----|------|------|
| grea | ater  | than | 10  | acı  | res  | not | li  | sted  | in | 13.   | 12 | are  | assi | gned | by  | def  | ault |
| to   | the   | cla  | ssi | fica | atio | n   | of  | the   | ٤  | strea | am | wit  | h w  | hich | th  | еу   | are  |
| asso | ociat | ed.  |     |      |      |     |     |       |    |       |    |      |      |      |     |      |      |

## a. Beaver County

Pelican Pond

|  | TABLE |       |               |    |    |    |      |       |
|--|-------|-------|---------------|----|----|----|------|-------|
| Anderson Meadow Reservoir                            |       |       | 2B            | 3A |    |    |      | 4     |
| Manderfield Reservoir                                |       |       | 2B            | 3A |    |    |      | 4     |
| LaBaron Reservoir                                    |       |       | 2B            | 3A |    |    |      | 4     |
| Kent's 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 | <del>2B</del> |    | 3B |    | 3D   | 4     |
| c. Cache County                                      |       |       |               |    |    |    |      |       |
|  | TABLE |       |               |    |    |    |      |       |
| Hyrum Reservoir<br>4                                 |       |       |               |    | 2A | 2B | 3A** | [C14] |
| Newton Reservoir                                     |       |       | 2B            | 3A |    |    |      | 4     |
| Porcupine Reservoir                                  |       |       | 2B            | 3A |    |    |      | 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 | <del>2B</del> | 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                             | 42    |       | 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 |
| Farmer's 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 |
| Governor's Lake        |    | 2B 3A | 4 |
| Granddaddy Lake        |    | 2B 3A | 4 |
| Hoover Lake            |    | 2B 3A | 4 |

| Island Lake                      |      | 2                 | 3 A |    | 4 |
|----------------------------------|------|-------------------|-----|----|---|
| Jean Lake                        |      | 2                 | 3 A |    | 4 |
| Jordan Lake                      |      | 2                 | 3 A |    | 4 |
| Kidney Lake                      |      | 2                 | 3 A |    | 4 |
| Kidney Lake West                 |      | 2                 | 3 A |    | 4 |
| Lily Lake                        |      | 2                 | 3 A |    | 4 |
| Midview Reservoir (Lake Boreham) |      | 2                 | 3   | 3B | 4 |
| Milk Reservoir                   |      | 2                 | 3 A |    | 4 |
| Mirror Lake                      |      | 2                 | 3 A |    | 4 |
| Mohawk Lake                      |      | 2                 | 3 A |    | 4 |
| Moon Lake                        | 1C 2 | A <del>2:</del>   | 3A  |    | 4 |
| North Star Lake                  |      | 2                 | 3 A |    | 4 |
| Palisade Lake                    |      | 2                 | 3 A |    | 4 |
| Pine Island Lake                 |      | 2                 | 3 A |    | 4 |
| Pinto Lake                       |      | 2                 | 3 A |    | 4 |
| Pole Creek Lake                  |      | 2                 | 3 A |    | 4 |
| Potter's Lake                    |      | 2                 | 3 A |    | 4 |
| Powell Lake                      |      | 2                 | 3 A |    | 4 |
| Pyramid Lake                     | 2    | A <del>2:</del>   | 3A  |    | 4 |
| Queant Lake                      |      | 2                 | 3 A |    | 4 |
| Rainbow Lake                     |      | 2                 | 3 A |    | 4 |
| Red Creek Reservoir              |      | 2                 | 3 A |    | 4 |
| Rudolph Lake                     |      | 2                 | 3 A |    | 4 |
| Scout Lake                       | 2    | A <mark>2:</mark> | 3A  |    | 4 |
| Spider Lake                      |      | 2                 | 3 A |    | 4 |
| Spirit Lake                      |      | 2                 | 3 A |    | 4 |
| Starvation Reservoir             | 1C 2 | A <del>2</del>    | 3A  |    | 4 |

|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|-------|-----------------|-------------|--------------------|--|----|--|--|---|---|
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       | 1C              |             | 2B                 | 3A   |    |  |  |   | 4   |
|       | 1C              |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             |                    |  |    |  |  |   |   |
| FABLE |                 |             |                    |  |    |  |  |   |   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       | :               | 2A          | <mark>2B</mark>    |  | 3B |  |  |   | 4   |
|       | ,               | 2A          | 2B                 | 3A   |    |  |  |   | 4   |
|       | 1C              | 2A          | <mark>2B</mark>    | 3A   |    |  |  |   | 4   |
|       |                 |             |                    |  |    |  |  |   |   |
| ΓABLE |                 |             |                    |  |    |  |  |   |   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             |                    |  |    |  |  |   |   |
|       |                 |             | 2B                 | 3A   |    |  |  |   | 4   |
|       |                 |             | 2B<br>2B           | 3A   |    | 3C   | 3D   |   | 4   |
|       |                 |             | 2B                 | 3A<br>3A   |    | 3C   | 3D   |   |   |
|       | TABLE     TABLE | 1C<br>TABLE | TABLE  2A 2A 1C 2A | 2B 2B 2B 2B 2B 2B 2B 2B 1C 2B 2B 2B 2B 2B 2B 1C 2B 2 | 1C | TABLE  2B 3A  2B 3A | TABLE  2B 3A | 2B 3A 2C 2B 3A 2C 2C 2C 3A 2C 2C 3C 3C 3C 2C 3C 3C 3C 2C 3C 3C 3C 2C 3C 3C 3C 2C 3C 3C 3C 2C 3C 3C 3C 2C 3C 3C 3C 3C 2C 3C 3C 2C 3C 3C 3C | 2B 3A |

| Panguitch Lake                 |       | 2B 3.              | A     | 4 |
|--------------------------------|-------|--------------------|-------|---|
| Pine Lake                      |       | 2B 3.              | A     | 4 |
| Oak Creek Reservoir (Upper Bow | ns)   | 2B 3.              | A     | 4 |
| Pleasant Lake                  |       | 2B 3.              | A     | 4 |
| Posey Lake                     |       | 2B 3.              | A     | 4 |
| Purple Lake                    |       | 2B 3.              | A     | 4 |
| Raft Lake                      |       | 2B 3.              | A     | 4 |
| Row Lake #3                    |       | 2B 3.              | A     | 4 |
| Row Lake #7                    |       | 2B 3.              | A     | 4 |
| Spectacle Reservoir            |       | 2B 3.              | A     | 4 |
| Tropic Reservoir               |       | 2B 3.              | A     | 4 |
| West Deer Lake                 |       | 2B 3.              | A     | 4 |
| Wide Hollow Reservoir          |       | 2B 3.              | A     | 4 |
| j. Iron County                 |       |                    |       |   |
|                                | TABLE |                    |       |   |
| Newcastle Reservoir            |       | 2B 3.              | A     | 4 |
| Red Creek Reservoir            |       | 2B 3.              | A     | 4 |
| Yankee Meadow Reservoir        |       | 2B 3.              | A     | 4 |
| k. Juab County                 |       |                    |       |   |
|                                | TABLE |                    |       |   |
| Chicken Creek Reservoir        |       | 2B                 | 3C 3D | 4 |
| Mona Reservoir                 |       | 2B                 | 3B    | 4 |
| Sevier Bridge (Yuba) Reservoir |       | 2A <mark>2B</mark> | 3B    | 4 |
| 1. Kane County                 |       |                    |       |   |
|                                | TABLE |                    |       |   |
| Navajo Lake                    |       | 2B 3.              | A     | 4 |
| m. Millard County              |       |                    |       |   |

| DMAD Reservoir                 |       |       | 2B              |    | 3B |    |    | 4 |
|--------------------------------|-------|-------|-----------------|----|----|----|----|---|
| Fools Creek Reservoir          |       |       | 2B              |    |    | 3C | 3D | 4 |
| Garrison Reservoir (Pruess Lak | e)    |       | 2B              |    | 3B |    |    | 4 |
| Gunnison Bend Reservoir        |       |       | 2B              |    | 3B |    |    | 4 |
| n. Morgan County               |       |       |                 |    |    |    |    |   |
|                                | TABLE |       |                 |    |    |    |    |   |
| East Canyon Reservoir          |       | 1C 2A | <mark>2B</mark> | 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    | <mark>2B</mark> | 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 |
|                                |       |       |                 |    |    |    |    |   |

| 1C    | 2B                   | 3A   |    |  |
|-------|----------------------|--|----|--|
| 1C    | 2B                   | 3A   |    |  |
| 1C    | 2B                   | 3A   |    |  |
|       |                      |  |    |  |
|       |                      |  |    |  |
| 1C    | 2B                   | 3A   |    | 4  |
| 1C    | 2B                   | 3A   |    | 4  |
|       | 2B                   | 3A**   |    | 4  |
| 1C 2A | <mark>2B</mark>      | 3B   |    | 4  |
| 1C    | 2B                   | 3A   |    | 4  |
|       | 2B                   | 3A   |    | 4  |
|       | 2B                   | 3A   |    | 4  |
|       |                      |  |    |  |
|       |                      |  |    |  |
|       | 2B                   | 3A   |    | 4  |
| 1C    | 2B                   | 3A   |    | 4  |
|       | 2B                   | 3A   |    | 4  |
| 1C    | 2B                   | 3A   |    | 4  |
|       | 2B                   |  | 3C | 4  |
|       | 2B                   | 3A   |    | 4  |
|       | 2B                   | 3A   |    | 4  |
|       | 2B                   | 3A   |    | 4  |
| 2A    | <mark>2B</mark>      | 3A   |    | 4  |
|       | 2B                   |  | 3C | 4  |
|       | 2B                   | 3 A  |    | 4  |
|       |                      | 011  |    |  |
|       | 1C 1C 1C 1C 1C 1C 1C | 1C 2B 1C 2B 1C 2B 1C 2B 1C 2B 1C 2B 2B 1C 2B 2B 1C 2B 2B 1C 2B 2 | 1C | 1C 2B 3A   2B 3A   1C 2B 3A   3C 3B |

t. Sevier County

| Annabella Reservoir      | 2B 3. | A  | 4 |
|--------------------------|-------|----|---|
| Big Lake                 | 2B 3. | A  | 4 |
| Farnsworth Lake          | 2B 3. | A  | 4 |
| Fish Lake                | 2B 3. | A  | 4 |
| Forsythe Reservoir       | 2B 3. | A  | 4 |
| Johnson Valley Reservoir | 2B 3. | A  | 4 |
| Koosharem Reservoir      | 2B 3. | A  | 4 |
| Lost Creek Reservoir     | 2B 3. | A  | 4 |
| Redmond Lake             | 2B    | 3B | 4 |
| Rex Reservoir            | 2B 3. | A  | 4 |
| Salina Reservoir         | 2B 3. | A  | 4 |
| Sheep Valley Reservoir   | 2B 3. | A  | 4 |
| u. Summit County         |       |    |   |
| TABLE                    |       |    |   |
| Abes Lake                | 2B 3. | A  | 4 |
| Alexander Lake           | 2B 3. | A  | 4 |
| Amethyst Lake            | 2B 3. | A  | 4 |
| Beaver Lake              | 2B 3. | A  | 4 |
| Beaver Meadow Reservoir  | 2B 3. | A  | 4 |
| Big Elk Reservoir        | 2B 3. | A  | 4 |
| Blanchard Lake           | 2B 3. | A  | 4 |
| Bridger Lake             | 2B 3. | A  | 4 |
| China Lake               | 2B 3. | A  | 4 |
| Cliff Lake               | 2B 3. | A  | 4 |
| Clyde Lake               | 2B 3. | A  | 4 |
|                          |       |    |   |

| Coffin Lake              | 2B 3A                    | 4 |
|--------------------------|--------------------------|---|
| Cuberant Lake            | 2B 3A                    | 4 |
| East Red Castle Lake     | 2B 3A                    | 4 |
| Echo Reservoir           | 1C 2A <mark>2B</mark> 3A | 4 |
| Fish Lake                | 2B 3A                    | 4 |
| Fish Reservoir           | 2B 3A                    | 4 |
| Haystack Reservoir #1    | 2B 3A                    | 4 |
| Henry's 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 <mark>2B</mark> 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 <del>2B</del> 3A   | 4 |
| Ryder Lake               | 2B 3A                    | 4 |
| Sand Reservoir           | 2B 3A                    | 4 |

| Scow Lake                      |       |    | 2B 3 <i>P</i> | A  | 4 |
|--------------------------------|-------|----|---------------|----|---|
| Smith Moorehouse Reservoir     |       | 1C | 2B 3 <i>P</i> | A  | 4 |
| Star Lake                      |       |    | 2B 3 <i>P</i> | A  | 4 |
| Stateline Reservoir            |       |    | 2B 3 <i>P</i> | A  | 4 |
| Tamarack Lake                  |       |    | 2B 3A         | A  | 4 |
| Trial Lake                     |       | 1C | 2B 3A         | A  | 4 |
| Upper Lyman Lake               |       |    | 2B 3A         | A  | 4 |
| Upper Red Castle               |       |    | 2B 3 <i>I</i> | A  | 4 |
| Wall Lake Reservoir            |       |    | 2B 3A         | A  | 4 |
| Washington Reservoir           |       |    | 2B 3A         | A  | 4 |
| Whitney Reservoir              |       |    | 2B 3A         | A  | 4 |
| v. Tooele County               |       |    |               |    |   |
|                                | TABLE |    |               |    |   |
| Blue Lake                      |       |    | 2B            | 3B | 4 |
| Clear Lake                     |       |    | 2B            | 3B | 4 |
| Grantsville Reservoir          |       |    | 2B 3A         | A  | 4 |
| Horseshoe Lake                 |       |    | 2B            | 3B | 4 |
| Kanaka Lake                    |       |    | 2B            | 3B | 4 |
| Rush Lake                      |       |    | 2B            | 3B |   |
| Settlement Canyon Reservoir    |       |    | 2B 3 <i>I</i> | A  | 4 |
| Stansbury Lake                 |       |    | 2B            | 3B | 4 |
| Vernon Reservoir               |       |    | 2B 3A         | A  | 4 |
| w. Uintah County               |       |    |               |    |   |
|                                | TABLE |    |               |    |   |
| Ashley Twin Lakes (Ashley Cree | k)    | 1C | 2B 3 <i>I</i> | A  | 4 |
| Bottle Hollow Reservoir        |       |    | 2B 3 <i>P</i> | A  | 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 | <mark>2B</mark> | 3A |    | 4 |
| Steinaker Reservoir     | 1C | 2A | <mark>2B</mark> | 3A |    | 4 |
| Towave Reservoir        |    |    | 2B              | 3A |    | 4 |
| Weaver Reservoir        |    |    | 2B              | 3A |    | 4 |
| Whiterocks Lake         |    |    | 2B              | 3A |    | 4 |
| Workman Lake            |    |    | 2B              | ЗА |    | 4 |

x. Utah County

| Big East Lake<br>4[C15]    |       |    |    |    |    |    | 2B | 3A |
|----------------------------|-------|----|----|----|----|----|----|----|
| Salem Pond                 |       | 2A |    | 3A |    |    |    | 4  |
| Silver Flat Lake Reservoir |       |    | 2B | 3A |    |    |    | 4  |
| Tibble Fork Resevoir       |       |    | 2B | 3A |    |    |    | 4  |
| Utah Lake                  |       |    | 2B |    | 3B | 3D |    | 4  |
| y. Wasatch County          |       |    |    |    |    |    |    |    |
|                            | TABLE |    |    |    |    |    |    |    |
| Currant Creek Reservoir    |       | 1C | 2B | 3A |    |    |    | 4  |

| Deer Creek Reservoir  |                | 1C 2A | <mark>2B</mark>            | 3A                   |    |    |               | 4                |
|---|----------------|-------|----------------------------|----------------------|----|----|---------------|------------------|
| Jordanelle Reservoir  |                | 1C 2A |                            | 3A                   |    |    |               | 4                |
| Mill Hollow Reservoir   |                |       | 2B                         | ЗА                   |    |    |               | 4                |
| Strawberry Reservoir  |                | 1C    | 2B                         | 3A                   |    |    |               | 4                |
| z. Washington County  |                |       |                            |                      |    |    |               |                  |
|   | TABLE          |       |                            |                      |    |    |               |                  |
| Baker Dam Reservoir   |                |       | 2B                         | 3A                   |    |    |               | 4                |
| Gunlock Reservoir   |                | 1C 2A | <mark>2B</mark>            |                      | 3B |    |               | 4                |
| Ivins Reservoir   |                |       | 2B                         |                      | 3B |    |               | 4                |
| Kolob Reservoir   |                |       | 2B                         | 3A                   |    |    |               | 4                |
| Lower Enterprise Reservoir  |                |       | 2B                         | 3A                   |    |    |               | 4                |
| Quail Creek Reservoir   |                | 1C 2A | <mark>2B</mark>            |                      | 3B |    |               | 4                |
| Sand Hollow Reservoir   |                |       |                            | 1C                   | 2A |    |               | 3B               |
| 1[C10]  |                |       |                            |                      |    |    |               |                  |
| Unner Enterprise Peservoir  |                |       | 20                         | 27                   |    |    |               | 1                |
| Upper Enterprise Reservoir  |                |       | 2B                         | 3A                   |    |    |               | 4                |
| aa. Wayne County  | TARLE          |       | 2B                         | 3A                   |    |    |               | 4                |
| aa. Wayne County  | TABLE          |       |                            |                      |    |    |               | _                |
| aa. Wayne County Blind Lake   | TABLE          |       | 2B                         | 3A                   |    |    |               | 4                |
| aa. Wayne County  Blind Lake  Cook Lake   | TABLE          |       | 2B<br>2B                   | 3A<br>3A             |    |    |               | 4                |
| aa. Wayne County  Blind Lake  Cook Lake  Donkey Reservoir   | TABLE          |       | 2B<br>2B<br>2B             | 3A<br>3A<br>3A       |    |    |               | 4 4              |
| aa. Wayne County  Blind Lake  Cook Lake  Donkey Reservoir  Fish Creek Reservoir   | TABLE          |       | 2B<br>2B<br>2B<br>2B       | 3A<br>3A<br>3A       |    |    |               | 4<br>4<br>4      |
| aa. Wayne County  Blind Lake Cook Lake Donkey Reservoir Fish Creek Reservoir Mill Meadow Reservoir                            | TABLE          |       | 2B<br>2B<br>2B<br>2B<br>2B | 3A<br>3A<br>3A<br>3A |    |    |               | 4 4              |
| aa. Wayne County  Blind Lake  Cook Lake  Donkey Reservoir  Fish Creek Reservoir   | TABLE          |       | 2B<br>2B<br>2B<br>2B<br>2B | 3A<br>3A<br>3A       |    |    |               | 4<br>4<br>4      |
| aa. Wayne County  Blind Lake Cook Lake Donkey Reservoir Fish Creek Reservoir Mill Meadow Reservoir                            | TABLE          |       | 2B<br>2B<br>2B<br>2B<br>2B | 3A<br>3A<br>3A<br>3A |    |    |               | 4<br>4<br>4<br>4 |
| aa. Wayne County  Blind Lake Cook Lake Donkey Reservoir Fish Creek Reservoir Mill Meadow Reservoir Raft Lake bb. Weber County | TABLE<br>TABLE |       | 2B<br>2B<br>2B<br>2B<br>2B | 3A<br>3A<br>3A<br>3A |    |    |               | 4<br>4<br>4<br>4 |
| aa. Wayne County  Blind Lake Cook Lake Donkey Reservoir Fish Creek Reservoir Mill Meadow Reservoir Raft Lake bb. Weber County |                |       | 2B<br>2B<br>2B<br>2B<br>2B | 3A<br>3A<br>3A<br>3A |    |    |               | 4<br>4<br>4<br>4 |
| aa. Wayne County  Blind Lake Cook Lake Donkey Reservoir Fish Creek Reservoir Mill Meadow Reservoir Raft Lake bb. Weber County |                |       | 2B<br>2B<br>2B<br>2B<br>2B | 3A<br>3A<br>3A<br>3A | 1C | 2A | <del>2B</del> | 4<br>4<br>4<br>4 |

## \*\* Denotes site-specific temperature, see Table 2.14.2 Notes

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   | Domest<br>Sourc |                                | R | ecreat<br>Aesth<br>2A | eti. |        |   | gri-<br>ulture<br>4 |
|---|-----------------|--------------------------------|---|-----------------------|------|--------|---|---------------------|
| BACTERIOLOGICA<br>(30-DAY GEOMET<br>MEAN) (NO.)/10<br>E. coli | RIC             | (7)<br>206                     |   | 126                   | 20   | 6      |   |                     |
| MAXIMUM (NO.)/100 ML) E. coli PHYSICAL                        | (7)             | 668                            |   | 409                   | 66   | 8      |   |                     |
| pH (RANGE)<br>Turbidity Incr<br>(NTU)                         | ease            | 6.5-9.0                        |   | 6.5-9<br>10           | .0   | 6.5-9. | 0 | 6.5-9.0             |
| MG/L) (2)<br>Arsenic  | LVED, M         | 0.01                           |   |                       |      |        |   | 0.1                 |
| Barium<br>Beryllium<br>Cadmium<br>Chromium<br>Copper          |                 | 1.0<br><0.004<br>0.01<br>0.05  |   |                       |      |        |   | 0.01<br>0.10<br>0.2 |
| Lead<br>Mercury<br>Selenium<br>Silver                         |                 | 0.015<br>0.002<br>0.05<br>0.05 |   |                       |      |        |   | 0.1                 |
| INORGANICS<br>(MAXIMUM MG/L)<br>Bromate<br>Boron              |                 | 0.01                           |   |                       |      |        |   | 0.75                |
| Chlorite<br>Fluoride (3)<br>Nitrates as N<br>Total Dissolve   | d               | <1.0<br>1.4-2.4<br>10          |   |                       |      |        |   | 0.75                |
| Solids <del>(4)</del><br>(MAXIMUM pCi/L                       | )               | RADIOLO                        |   | CAL                   |      |        |   | 1200                |
|   |                 | 77                             | - |                       |      |        |   |                     |

| Gross Alpha Gross Beta (Combined) Strontium 90 Tritium Uranium | 15<br>4 mrem/yr<br>5<br>8<br>20000<br>30 |        | Radiu | m 226, | 15<br>228 |
|--|--|--------|-------|--------|-----------|
| ORGANICS<br>(MAXIMUM UG/L)                                     |  |        |       |        |           |
| Chlorophenoxy Herbicides 2,4-D 2,4,5-TP Methoxychlor           | 70<br>10<br>40                           |        |       |        |           |
| POLLUTION INDICATORS (5)                                       |  |        |       |        |           |
| BOD (MG/L) Nitrate as N (MG/L)                                 |  | 5<br>4 |       | 5<br>4 | 5         |
| Total Phosphorus as P (MG/L)(6)                                |  | 0.0    | 5     | 0.05   |           |

### FOOTNOTES:

- (1) Reserved
- (2) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by approved laboratory methods for the required detection levels.
- (3) Maximum concentration varies according to the daily maximum mean air temperature.

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

(4) Site [C18] specific criteria for total dissolved solids may be adopted by rulemaking where it is demonstrated that: (a) a less stringent criterion is appropriate because of natural or un alterable conditions; or (b) a less stringent, site specific criterion and/or date specified criterion is protective of existing and attainable agricultural uses; or (c) a more stringent criterion is attainable and necessary for the protection of sensitive crops. Reserved

For water quality assessment purposes, up to 10% of representative samples may exceed the standard.

SITE SPECIFIC STANDARDS FOR TOTAL DISSOLVED SOLIDS (TDS)

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

Cottonwood Creek from the confluence with Huntington Creek to I-57:

3,500 mg/l;

Ferron Creek from the confluence with San Rafael River to Highway 10:

3,500 mg/l;

Huntington Creek and tributaries from the confluence with Cottonwood

Creek to U-10: 4,800 mg/l;

Ivie Creek and its tributaries from the confluence with Muddy Creek

to 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 U10: 2,600 mg/l;

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

Muddy Creek and tributaries from the confluence with Ivie Creek toU-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 U-119 Crossing: 9,700 mg/l;

Price River and tributaries from confluence with Green River to confluence with [C19] Coal Soldier Creek:
3,000 mg/l;

Price River and tributaries from the

confluence with <del>Coal Creek</del> <u>Soldier Creek</u> to Carbon Canal Diversion:

### 1,700 mg/l

Quitchupah Creek from the confluence with Ivie Creek to 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 Clear Lake: 3,370 mg/l;

South Fork Spring Creek from confluence with Pelican Pond Slough Stream to US 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.
- (6) Total Phosphorus as P (mg/l) indicator for lakes and reservoirs shall be 0.025.
- (7) Where the criteria are exceeded and there is a reasonable basis for concluding that the indicator bacteria E. coli are primarily from natural sources (wildlife), e.g., 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 datasets, 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<br>3A        | Wildlife<br>3B | 3C         | 3D         | 5 |
|--|----------------------|----------------|------------|------------|---|
| PHYSICAL   | JA                   | 36             | 30         | 30         | J |
| Total Dissolved<br>Gases   | (1)                  | (1)            |            |            |   |
| Minimum Dissolved Oxyg<br>(MG/L) (2)(2a)<br>30 Day Average<br>7 Day Average      | en<br>6.5<br>9.5/5.0 |                | 5.0        | 5.0        |   |
| Minimum  | 8.0/4.0              | 5.0/3.0        | 3.0        | 3.0        |   |
| Max. Temperature(C) (3)  | 20                   | 27             | 27         |            |   |
| Max. Temperature<br>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<br>(NTU)<br>METALS (4)<br>(DISSOLVED,<br>UG/L)(5)<br>Aluminum | 10                   | 10             | 15         | 15         |   |
| 4 Day Average (6)<br>1 Hour Average  | 87<br>750            | 87<br>750      | 87<br>750  | 87<br>750  |   |
| Arsenic (Trivalent)<br>4 Day Average<br>1 Hour Average                           | 150<br>340           | 150<br>340     | 150<br>340 | 150<br>340 |   |
| Cadmium (7)<br>4 Day Average<br>1 Hour Average                                   |                      | 0.25<br>2.0    | 0.25       | 0.25       |   |
| Chromium (Hexavalent) 4 Day Average 1 Hour Average Chromium (Trivalent) (7)      | 11<br>16             | 11<br>16       | 11<br>16   | 11<br>16   |   |
| 4 Day Average<br>1 Hour Average  | 74<br>570            | 74<br>570      | 74<br>570  | 74<br>570  |   |

|       | Copper (7)<br>4 Day Average<br>1 Hour Average  | 9<br>13                 | 9<br>13           | 9<br>13                 | 9<br>13      |   |  |  |  |
|-------|--|-------------------------|-------------------|-------------------------|--------------|---|--|--|--|
|       | Cyanide (Free)<br>4 Day Average<br>1 Hour Average<br>Iron (Maximum)                                    | 5.2<br>22<br>1000       | 5.2<br>22<br>1000 | 5.2<br>22<br>1000       | 22<br>1000   |   |  |  |  |
|       | Lead (7)<br>4 Day Average<br>1 Hour Average  | 2.5<br>65               | 2.5<br>65         | 2.5<br>65               | 2.5<br>65    |   |  |  |  |
| [C20] | Mercury<br>4 Day Average<br><del>1 Hour Average</del>  | 0.012<br><del>2.4</del> | 0.012<br>2.4      | 0.012<br><del>2.4</del> | 0.012<br>2.4 | ļ |  |  |  |
|       | Nickel (7)<br>4 Day Average<br>1 Hour Average  | 52<br>468               | 52<br>468         | 52<br>468               | 52<br>468    |   |  |  |  |
|       | Selenium<br>4 Day Average<br>1 Hour Average  | 4.6<br>18.4             | 4.6<br>18.4       | 4.6<br>18.4             | 4.6<br>18.4  |   |  |  |  |
|       | Selenium (14) Gilbert Bay (Class 5A) Great Salt Lake Geometric Mean over Nesting Season (mg/kg dry wt) |                         |                   |                         |              |   |  |  |  |
|       | Silver<br>1 Hour Average (7)   | 1.6                     | 1.6               | 1.6                     | 1.6          |   |  |  |  |
|       | Tributyl [C21] Tin<br>4 Day Average  | 0.072                   | 0.072             | 0.072                   | 0.072        |   |  |  |  |
|       | 1 Hour Average   | 0.46                    | 0.46              | 0.46                    | 0.46         |   |  |  |  |
|       | Zinc (7)<br>4 Day Average<br>1 Hour Average  | 120<br>120              | 120<br>120        | 120<br>120              | 120<br>120   |   |  |  |  |
|       | INORGANICS<br>(MG/L) (4)<br>Total Ammonia as N (9)<br>30 Day Average<br>1 Hour Average                 | (9a)<br>(9b)            | (9a)<br>(9b)      | (9a)<br>(9b)            | (9a)<br>(9b) |   |  |  |  |
|       | Chlorine (Total<br>Residual)<br>4 Day Average<br>1 Hour Average  | 0.011                   | 0.011             | 0.011                   | 0.011        |   |  |  |  |

| Hydrogen Sulfide<br>(Undissociated,<br>Max. UG/L)<br>Phenol(Maximum)<br>RADIOLOGICAL | (13)<br>2.0<br>0.01<br>(MAXIMUM pCi/L | 2.0<br>0.01<br>) | 2.0            | 2.0            |
|--|---------------------------------------|------------------|----------------|----------------|
| Gross Alpha (10)   | 15                                    | 15               | 15             | 15             |
| ORGANICS (UG/L)<br><u>A</u> [C22] <mark>crolein</mark>                               |                                       |                  |                |                |
| 4 Day Average  | 3.0                                   | 3.0              | 3.0            | 3.0            |
| <u> </u>   | 3.0                                   | 3.0              | 3.0            | 3.0            |
| Aldrin<br>1 Hour Average   | 1.5                                   | 1.5              | 1.5            | 1.5            |
| Chlordane<br>4 Day Average<br>1 Hour Average   | 0.0043<br>1.2                         | 0.0043           | 0.0043<br>1.2  | 0.0043<br>1.2  |
| Chlorpyrifos <sub>[C23]</sub> 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<br>4 Day Average<br>1 Hour Average   | 0.0010<br>0.55                        | 0.0010<br>0.55   | 0.0010<br>0.55 | 0.0010<br>0.55 |
| Diazinon<br>4 Day Average<br>1 Hour Average  | 0.17<br>0.17                          | 0.17<br>0.17     | 0.17<br>0.17   | 0.17<br>0.17   |
| Dieldrin<br>4 Day Average<br>1 Hour Average  | 0.056<br>0.24                         | 0.056<br>0.24    | 0.056<br>0.24  | 0.056<br>0.24  |
| Alpha-Endosulfan<br>4 Day Average<br>1 Hour Average                                  | 0.056<br>0.11                         | 0.056<br>0.11    | 0.056<br>0.11  | 0.056<br>0.11  |
| beta-Endosulfan<br>4 Day Average<br>1 Day Average                                    | 0.056<br>0.11                         | 0.056<br>0.11    | 0.056<br>0.11  | 0.056<br>0.11  |
| Endrin<br>4 Day Average<br>1 Hour Average  | 0.036<br>0.086                        | 0.036<br>0.086   | 0.036<br>0.086 | 0.036<br>0.086 |
| Heptachlor<br>4 Day Average<br>1 Hour Average  | 0.0038<br>0.26                        | 0.0038<br>0.26   | 0.0038<br>0.26 | 0.0038<br>0.26 |

| Heptachlor epoxide<br>4 Day Average<br>1 Hour Average   | 0.0038<br>0.26                    | 0.0038<br>0.26            | 0.0038<br>0.26 | 0.0038<br>0.26 |
|---|-----------------------------------|---------------------------|----------------|----------------|
| Hexachlorocyclohexane<br>(Lindane)<br>4 Day Average<br>1 Hour Average                               | 0.08                              | 0.08                      | 0.08           | 0.08           |
| Methoxychlor<br>(Maximum)<br>Mirex (Maximum)  | 0.03<br>0.001                     | 0.03<br>0.001             | 0.03<br>0.001  | 0.03<br>0.001  |
| Nonylphenol<br>4 Day Average<br>1 Hour Average  | 6.6<br>28.0                       | 6.6<br>28.0               | 6.6<br>28.0    | 6.6<br>28.0    |
| Parathion<br>4 Day Average<br>1 Hour Average  | 0.013<br>0.066                    | 0.013<br>0.066            | 0.013<br>0.066 | 0.013<br>0.066 |
| PCB's<br>4 Day Average  | 0.014                             | 0.014                     | 0.014          | 0.014          |
| Pentachlorophenol (11)<br>4 Day Average<br>1 Hour Average   | 15<br>19                          | 15<br>19                  | 15<br>19       | 15<br>19       |
| Toxaphene<br>4 Day Average<br>1 Hour Average  | 0.0002<br>0.73                    | 0.0002<br>0.73            | 0.0002<br>0.73 | 0.0002<br>0.73 |
| POLLUTION INDICATORS (11) Gross Beta (pCi/L) BOD (MG/L) Nitrate as N (MG/L) Total Phosphorus as P(N | 50<br>5<br>4<br>MG/L) (12<br>0.05 | 50<br>5<br>4<br>)<br>0.05 | 50<br>5<br>4   | 50<br>5        |

### 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 Executive Secretary 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 Executive Secretary will inform the Water Quality Board of any protocols or guidelines that are developed.

(3) [C24] The temperature standard shall be at background where it can be shown that natural or un alterable conditions prevent its attainment. In such cases rulemaking will be undertaken to modify the standard accordingly. Reserved

Site Specific Standards for Temperature

Ken's Lake: From June 1<sup>st</sup> - September 20<sup>th</sup>, 27 degrees C.

- (4) Where criteria are listed as 4-day average and 1-hour average concentrations, these concentrations should not be exceeded more often than once every three years on the average.
- (5) The dissolved metals method involves filtration of the sample in the field, acidification of the sample in the field, no digestion process in the laboratory, and analysis by EPA approved laboratory methods for the required detection levels.
- (6) The criterion for aluminum will be implemented as follows:
- Where the pH is equal to or greater than 7.0 and the hardness is equal to or greater than 50 ppm as 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).
- (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) Reserved
- (9) The following equations are used to calculate Ammonia criteria concentrations:
- (9a) The thirty-day average concentration of total ammonia nitrogen (in mg/l as N) does not exceed, more than once every three years on the average, the chronic criterion calculated using the following equations.

Fish Early Life Stages are Present:

```
\begin{array}{l} \text{mg/l as N (Chronic)} = ((0.0577/(1+10^{7.688-pH})) + (2.487/(1+10^{pH-7.688}))) & \text{MIN } (2.85, 1.45*10^{0.028*(25-T)}) \\ \text{Fish Early Life Stages are Absent:} \end{array}
```

(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:

 $mg/l \text{ as N (Acute)} = 0.411/(1+10^{7.204-pH})) + (58.4/(1+10^{pH-7.204}))$ In addition, the highest four-day average within the 30-day period should not exceed 2.5 times the chronic criterion. The "Fish Early Life Stages are Present" 30-day average total ammonia criterion will be applied by default unless it is determined by the Division, on a site-specific basis, that it is appropriate to apply the "Fish Early Life Stages are Absent" 30-day average criterion for all or some portion of the year. At a minimum, the "Fish Early Life Stages are Present" criterion will apply from the beginning of spawning through the end of the early life stages. Early life stages include the pre-hatch embryonic stage, the post-hatch free embryo or yolk-sac fry stage, and the larval stage for the species of fish expected to occur at the site. The division will consult with the Division of Wildlife Resources in making such determinations. The Division will maintain information regarding the waterbodies and time periods where application of the "Early Life Stages are Absent" criterion is determined to be appropriate.

- (10) Investigation should be conducted to develop more information where these levels are exceeded.
- (11) pH dependent criteria. pH 7.8 used in table. See Table 2.14.4 for equation.
- (12) Total Phosphorus as P (mg/l) as a pollution indicator for lakes and reservoirs shall be 0.025.
- (13) Formula to convert dissolved sulfide to un-disassociated hydrogen sulfide is:  $H_2S$  = Dissolved Sulfide \*  $e^{((-1.92 + pH) + 12.05)}$
- (14) The selenium water quality standard of 12.5 (mg/kg dry weight) for Gilbert Bay is a tissue based standard using the complete egg/embryo of aquatic dependent birds 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)

# TABLE 30-DAY AVERAGE (CHRONIC) CONCENTRATION OF TOTAL AMMONIA AS N (MG/1)

## Fish Early Life Stages Present

|     |      |      |      | Temper | ature, | C    |      |      |      |      |
|-----|------|------|------|--------|--------|------|------|------|------|------|
| рН  | 0    | 14   | 16   | 18     | 20     | 22   | 24   | 26   | 28   | 30   |
| 6.5 | 6.67 | 6.67 | 6.06 | 5.33   | 4.68   | 4.12 | 3.62 | 3.18 | 2.80 | 2.46 |
| 6.6 | 6.57 | 6.57 | 5.97 | 5.25   | 4.61   | 4.05 | 3.56 | 3.13 | 2.75 | 2.42 |
| 6.7 | 6.44 | 6.44 | 5.86 | 5.15   | 4.52   | 3.98 | 3.50 | 3.07 | 2.70 | 2.37 |
| 6.8 | 6.29 | 6.29 | 5.72 | 5.03   | 4.42   | 3.89 | 3.42 | 3.00 | 2.64 | 2.32 |
| 6.9 | 6.12 | 6.12 | 5.56 | 4.89   | 4.30   | 3.78 | 3.32 | 2.92 | 2.57 | 2.25 |

| 7.0 | 5.91 | 5.91 | 5.37 | 4.72 | 4.15 | 3.65 | 3.21 | 2.82 | 2.48 | 2.18 |
|-----|------|------|------|------|------|------|------|------|------|------|
| 7.1 | 5.67 | 5.67 | 5.15 | 4.53 | 3.98 | 3.50 | 3.08 | 2.70 | 2.38 | 2.09 |
| 7.2 | 5.39 | 5.39 | 4.90 | 4.31 | 3.78 | 3.33 | 2.92 | 2.57 | 2.26 | 1.99 |
| 7.3 | 5.08 | 5.08 | 4.61 | 4.06 | 3.57 | 3.13 | 2.76 | 2.42 | 2.13 | 1.87 |
| 7.4 | 4.73 | 4.73 | 4.30 | 3.78 | 3.32 | 2.92 | 2.57 | 2.26 | 1.98 | 1.74 |
| 7.5 | 4.36 | 4.36 | 3.97 | 3.49 | 3.06 | 2.69 | 2.37 | 2.08 | 1.83 | 1.61 |
| 7.6 | 3.98 | 3.98 | 3.61 | 3.18 | 2.79 | 2.45 | 2.16 | 1.90 | 1.67 | 1.47 |
| 7.7 | 3.58 | 3.58 | 3.25 | 2.86 | 2.51 | 2.21 | 1.94 | 1.71 | 1.50 | 1.32 |
| 7.8 | 3.18 | 3.18 | 2.89 | 2.54 | 2.23 | 1.96 | 1.73 | 1.52 | 1.33 | 1.17 |
| 7.9 | 2.80 | 2.80 | 2.54 | 2.24 | 1.96 | 1.73 | 1.52 | 1.33 | 1.17 | 1.03 |
| 8.0 | 2.43 | 2.43 | 2.21 | 1.94 | 1.71 | 1.50 | 1.32 | 1.16 | 1.02 | 0.90 |
| 8.1 | 2.10 | 2.10 | 1.91 | 1.68 | 1.47 | 1.29 | 1.14 | 1.00 | 0.88 | 0.77 |
| 8.2 | 1.79 | 1.79 | 1.63 | 1.43 | 1.26 | 1.11 | 0.97 | 0.86 | 0.75 | 0.66 |
| 8.3 | 1.52 | 1.52 | 1.39 | 1.22 | 1.07 | 0.94 | 0.83 | 0.73 | 0.64 | 0.56 |
| 8.4 | 1.29 | 1.29 | 1.17 | 1.03 | 0.91 | 0.80 | 0.70 | 0.62 | 0.54 | 0.48 |
| 8.5 | 1.09 | 1.09 | 0.99 | 0.87 | 0.76 | 0.67 | 0.59 | 0.52 | 0.46 | 0.40 |
| 8.6 | 0.92 | 0.92 | 0.84 | 0.73 | 0.65 | 0.57 | 0.50 | 0.44 | 0.39 | 0.34 |
| 8.7 | 0.78 | 0.78 | 0.71 | 0.62 | 0.55 | 0.48 | 0.42 | 0.37 | 0.33 | 0.29 |
| 8.8 | 0.66 | 0.66 | 0.60 | 0.53 | 0.46 | 0.41 | 0.36 | 0.32 | 0.28 | 0.24 |
| 8.9 | 0.56 | 0.56 | 0.51 | 0.45 | 0.40 | 0.35 | 0.31 | 0.27 | 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/1)

## Fish Early Life Stages Absent Temperature, C

| icmperaeure, e |       |      |      |      |       |       |       |       |       |
|----------------|-------|------|------|------|-------|-------|-------|-------|-------|
| рН             | 0 - 7 | 8    | 9    | 10   | 11    | 12    | 13    | 14    | 16    |
| 6.5            | 10.8  | 10.1 | 9.51 | 8.92 | 8.36  | 7.84  | 7.36  | 6.89  | 6.06  |
| 6.6            | 10.7  | 10.1 | 9.37 | 9.37 | 8.79  | 8.24  | 7.72  | 7.24  | 6.36  |
| 6.7            | 10.5  | 9.99 | 9.20 | 8.62 | 8.08  | 7.58  | 7.11  | 6.66  | 5.86  |
| 6.8            | 10.2  | 9.81 | 8.98 | 8.42 | 7.90  | 7.40  | 6.94  | 6.51  | 5.72  |
| 6.9            | 9.93  | 9.31 | 8.73 | 8.19 | 7.68  | 7.20  | 6.75  | 6.33  | 5.56  |
| 7.0            | 9.60  | 9.00 | 8.43 | 7.91 | 7.41  | 6.95  | 6.52  | 6.11  | 5.37  |
| 7.1            | 9.20  | 8.63 | 8.09 | 7.58 | 7.11  | 6.67  | 6.25  | 5.86  | 5.15  |
| 7.2            | 8.75  | 8.20 | 7.69 | 7.21 | 6.76  | 6.34  | 5.94  | 5.57  | 4.90  |
| 7.3            | 8.24  | 7.73 | 7.25 | 6.79 | 6.37  | 5.97  | 5.60  | 5.25  | 4.61  |
| 7.4            | 7.69  | 7.21 | 6.76 | 6.33 | 5.94  | 5.57  | 5.22  | 4.89  | 4.30  |
| 7.5            | 7.09  | 6.64 | 6.23 | 5.84 | 5.48  | 5.13  | 4.81  | 4.51  | 3.97  |
| 7.6            | 6.46  | 6.05 | 5.67 | 5.32 | 4.99  | 4.68  | 4.38  | 4.11  | 3.61  |
| 7.7            | 5.81  | 5.45 | 5.11 | 4.79 | 4.49  | 4.21  | 3.95  | 3.70  | 3.25  |
| 7.8            | 5.17  | 4.84 | 4.54 | 4.26 | 3.99  | 3.74  | 3.51  | 3.29  | 2.89  |
| 7.9            | 4.54  | 4.26 | 3.99 | 3.74 | 3.51  | 3.29  | 3.09  | 2.89  | 2.54  |
| 8.0            | 3.95  | 3.70 | 3.47 | 3.26 | 3.05  | 2.86  | 2.68  | 2.52  | 2.21  |
| 8.1            | 3.41  | 3.19 | 2.99 | 2.81 | 2.63  | 2.47  | 2.31  | 2.17  | 1.91  |
| 8.2            | 2.91  | 2.73 | 2.56 | 2.40 | 2.25  | 2.11  | 1.98  | 1.85  | 1.63  |
| 8.3            | 2.47  | 2.32 | 2.18 | 2.04 | 1.91  | 1.79  | 1.68  | 1.58  | 1.39  |
| 8.4            | 2.09  | 1.96 | 1.84 | 1.73 | 1.62  | 1.52  | 1.42  | 1.33  | 1.17  |
| 8.5            | 1.77  | 1.66 | 1.55 | 1.46 | 1.37  | 1.28  | 1.20  | 1.13  | 0.990 |
| 8.6            | 1.49  | 1.40 | 1.31 | 1.23 | 1.15  | 1.08  | 1.01  | 0.951 | 0.836 |
| 8.7            | 1.26  | 1.18 | 1.11 | 1.04 | 0.976 | 0.915 | 0.858 | 0.805 | 0.707 |
|                |       |      |      |      |       |       |       |       |       |

```
1.07 1.01 0.944 0.885 0.829 0.778 0.729 0.684 0.601
8.8
8.9
         0.917 0.860 0.806 0.758 0.709 0.664 0.623 0.584 0.513
         0.790 0.740 .694 0.651 0.610 0.572 0.536 0.503 0.442
9.0
         18
                20
                      22
                             24
                                    26
                                          28
Нф
                                                 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
                                  3.00
                            3.42
                                         2.64 2.32
         4.89 4.30 3.78 3.32 2.92 2.57 2.25
6.9
7.0
         4.72 4.15 3.65 3.21 2.82 2.48 2.18

      4.53
      3.98
      3.50
      3.08
      2.70
      2.38
      2.09

      4.41
      3.78
      3.33
      2.92
      2.57
      2.26
      1.99

7.1
7.2
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
         3.49 3.06 2.69 2.37 2.08 1.83 1.61
7.5
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
        2.24 1.96 1.73 1.52 1.33 1.17 1.03
7.9
8.0
        0.94 1.71 1.50 1.32 1.16 1.02 0.897
8.1
         0.68 1.47 1.29 1.14 1.00 0.879 0.733
        0.43 1.26 1.11 0.073 0.855 0.752 0.661
8.2
       0.22 1.07 0.941 0.827 0.727 0.639 0.562
8.3
        0.03 0.906 0.796 0.700 0.615 0.541 0.475
8.4
8.5
        0.870 0.765 0.672 0.591 0.520 0.457 0.401
      0.735 0.646 0.568 0.499 0.439 0.396 0.339
0.622 0.547 0.480 0.422 0.371 0.326 0.287
0.528 0.464 0.408 0.359 0.315 0.277 0.244
8.6
8.7
8.8
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).

CF = 1.46203 - ln(hardness)(0.145712)

NICKEL CF \* e (0.8460(ln(hardness))+0.0584)

CF = 0.997

SILVER N/A

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

CF = 1.136672 - ln(hardness)(0.041838)

CHROMIUM (III) CF \* e (0.8190(ln(hardness)) +3.7256)

CF = 0.316

CF = 0.960

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

CF = 1.46203 - ln(hardness)(0.145712)

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

CF = 0.998

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

CF = 0.85

ZINC CF \* e<sup>(0.8473(ln(hardness))</sup> +0.884

CF = 0.978

FOOTNOTE:

(1) Hardness as mg/l CaCO,.

## TABLE 2.14.4 EQUATIONS FOR PENTACHLOROPHENOL (pH DEPENDENT)

4-Day Average (Chronic) 1-Hour Average (Acute)
Concentration (UG/L) Concentration (UG/L)

e<sup>(1.005(pH))-5.134</sup>

## TABLE 2.14.5 SITE SPECIFIC CRITERIA FOR

DISSOLVED OXYGEN FOR JORDAN RIVER, SURPLUS CANAL, AND STATE CANAL (SEE SECTION 2.13)

## DISSOLVED OXYGEN:

| May-July              |                 |
|-----------------------|-----------------|
| 7-day average         | 5.5  mg/l       |
| 30-day average        | 5.5  mg/l       |
| Instantaneous minimum | 4.5  mg/l       |
|                       |                 |
| August-April          |                 |
| 30-day average        | 5.5  mg/l       |
| Instantaneous minimum | $4.0~{ m mg/l}$ |

## TABLE 2.14.6 LIST OF HUMAN HEALTH CRITERIA (CONSUMPTION)

|                      | Chemical | Parameter          |         | and Organism       |
|----------------------|----------|--------------------|---------|--------------------|
|                      | 1-       | /T \               |         | nism Only          |
|                      |          | ıg/L)              |         | g/L)               |
| Antimon.             | Cla      | ass 1C             | Class . | 3A,3B,3C,3D        |
| Antimony<br>Arsenic  |          | 5.6                |         | 640                |
|                      |          | A<br>C             |         | A<br>C             |
| Beryllium<br>Cadmium |          | C                  |         | C                  |
| Chromium III         |          | C                  |         | C                  |
| Chromium VI          |          | C                  |         | C                  |
| Copper               |          | 1,300              |         | C                  |
| Lead                 |          | C C                |         | С                  |
| Mercury              |          | A                  |         | A                  |
| Nickel               |          | 100 MCL            |         | 4,600              |
| Selenium             |          | A                  |         | 4,200              |
| Silver               |          |                    |         | 1,200              |
| Thallium             |          | 0.24               |         | 0.47               |
| Zinc                 |          | 7,400              |         | 26,000             |
| Cyanide              |          | 140                |         | 140                |
| Asbestos             |          | 7 million          |         |                    |
|                      |          | Fibers/L           |         |                    |
| 2,3,7,8-TCDD Dioxin  |          | 5.0 E -9 B         |         | 5.1 E-9 B          |
| Acrolein [C25]       |          | <del>190</del> 6.0 |         | <del>290</del> 9.0 |
| Acrylonitrile        |          | 0.051 B            |         | 0.25 B             |
| Alachlor             |          | 2.0                |         |                    |
| Atrazine             |          | 3.0                |         |                    |
| Benzene              |          | 2.2 B              |         | 51 B               |
| Bromoform            |          | 4.3 B              |         | 140 B              |
| Carbofuran           |          | 40                 |         |                    |
| Carbon Tetrachloride | 9        | 0.23 B             |         | 1.6 B              |
| Chlorobenzene        |          | 100 MCL            |         | 1,600              |
| Chlorodibromomethane | 3        | 0.40 B             |         | 13 B               |
| Chloroethane         | 74-1     |                    |         |                    |
| 2-Chloroethylvinyl E | rtner    |                    |         |                    |

| Chloroform Dalapon Di (2ethylhexl) adipate   | 5.7 B<br>200<br>400                                     | 470 B  |
|--|---|--|
| Dibromochloropropane Dichlorobromomethane 1,1-Dichloroethane   | 0.2<br>0.55 B   | 17 B   |
| 1,2-Dichloroethane 1,1-Dichloroethylene Dichloroethylene (cis-1,2) Dinoseb Diquat                        | 0.38 B<br>7 MCL<br>70<br>7.0<br>20                      | 37 B<br>7,100  |
| 1,2-Dichloropropane<br>1,3-Dichloropropene   | 0.50 B<br>0.34  | 15 B<br>21   |
| Endothall Ethylbenzene Ethylene Dibromide Glyphosate   | 100<br>530<br>0.05<br>700                               | 2,100  |
| Haloacetic acids Methyl Bromide Methyl Chloride  | 60 E<br>47<br>F   | 1,500<br>F   |
| Methylene Chloride<br>Ocamyl (vidate)<br>Picloram<br>Simazine  | 4.6 B<br>200<br>500<br>4                                | 590 B  |
| Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene  | 100<br>0.17 B<br>0.69 B<br>1,000                        | 4.0 B<br>3.3 B<br>15,000                             |
| 1,2 -Trans-Dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Vinyl Chloride | 100 MCL<br>200 MCL<br>0.59 B<br>2.5 B<br>0.025          | 10,000<br>F<br>16 B<br>30 B<br>2.4                   |
| <pre>Xylenes 2-Chlorophenol 2,4-Dichlorophenol</pre>   | 10,000<br>81<br>77                                      | 150<br>2902,4-                                       |
| Dimethylphenol 2-Methyl-4,6-Dinitrophenol 2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol                  | 380<br>13.0<br>69                                       | 850<br>280<br>5,300                                  |
| 3-Methyl-4-Chlorophenol<br>Penetachlorophenol<br>Phenol <sub>[C26]</sub><br>860,000                      | 0.27 B<br><del>21000</del> — <u>10,400</u>              | 3.0 B<br><del>1,700,000</del>                        |
| 2,4,6-Trichlorophenol<br>Acenaphthene<br>Acenaphthylene  | 1.4 B<br>670  | 2.4 B<br>990   |
| Anthracene Benzidine BenzoaAnthracene BenzoaPyrene BenzobFluoranthene                                    | 8,300<br>0.000086 B<br>0.0038 B<br>0.0038 B<br>0.0038 B | 40,000<br>0.00020 B<br>0.018 B<br>0.018 B<br>0.018 B |

| D   -   D                                  |                  |     |                    |
|--|------------------|-----|--------------------|
| BenzoghiPerylene<br>BenzokFluoranthene     | 0.0038 B         |     | 0.018 B            |
| Bis2-ChloroethoxyMethane                   | 0.0030 B         |     | 0.010 B            |
| Bis2-ChloroethylEther                      | 0.030 B          |     | 0.53 B             |
| Bis2-Chloroisopropy1Ether                  | 1,400            |     | 65,000             |
| Bis2-EthylhexylPhthalate                   | 1.2 B            |     | 2.2 B              |
| 4-Bromophenyl Phenyl Ether                 |                  |     |                    |
| Butylbenzyl Phthalate                      | 1,500            |     | 1,900              |
| 2-Chloronaphthalene                        | 1,000            |     | 1,600              |
| 4-Chlorophenyl Phenyl Ether                |                  |     |                    |
| Chrysene                                   | 0.0038 B         |     | 0.018 B            |
| Dibenzoa, hAnthracene                      | 0.0038 B         |     | 0.018 B            |
| 1,2-Dichlorobenzene                        | 420              |     | 1,300              |
| 1,3-Dichlorobenzene                        | 320              |     | 960                |
| 1,4-Dichlorobenzene                        | 63               |     | 190                |
| 3,3-Dichlorobenzidine                      | 0.021 B          |     | 0.028 B            |
| Diethyl Phthalate                          | 17,000           |     | 44,000             |
| Dimethyl Phthalate<br>Di-n-Butyl Phthalate | 270,000<br>2,000 |     | 1,100,000<br>4,500 |
| 2,4-Dinitrotoluene                         | 0.11 B           |     | 3.4 B              |
| 2,6-Dinitrotoluene                         | 0.11 D           |     | J.4 D              |
| Di-n-Octyl Phthalate                       |                  |     |                    |
| 1,2-Diphenylhydrazine                      | 0.036 B          |     | 0.20 B             |
| Fluoranthene                               | 130              | 140 |                    |
| Fluorene                                   | 1,100            |     | 5,300              |
| Hexachlorobenzene                          | 0.00028 B        |     | 0.00029 B          |
| Hexachlorobutedine                         | 0.44 B           |     | 18 B               |
| Hexachloroethane                           | 1.4 B            |     | 3.3 B              |
| Hexachlorocyclopentadiene                  | 40               |     | 1,100              |
| Ideno 1,2,3-cdPyrene                       | 0.0038 B         |     | 0.018 B            |
| Isophorone                                 | 35 B             |     | 960 B              |
| Naphthalene                                | 4 =              |     |                    |
| Nitrobenzene                               | 17               |     | 690                |
| N-Nitrosodimethylamine                     | 0.00069 B        |     | 3.0 B              |
| N-Nitrosodi-n-Propylamine                  | 0.005 B<br>3.3 B |     | 0.51 B             |
| N-Nitrosodiphenylamine<br>Phenanthrene     | э.э Б            |     | 6.0 B              |
| Pyrene                                     | 830              |     | 4,000              |
| 1,2,4-Trichlorobenzene                     | 35               |     | 70                 |
| Aldrin                                     | 0.000049 B       |     | 0.000050 B         |
| alpha-BHC                                  | 0.0026 B         |     | 0.0049 B           |
| beta-BHC                                   | 0.0091 B         |     | 0.017 B            |
| gamma-BHC (Lindane)                        | 0.2 MCL          |     | 1.8                |
| delta-BHC                                  |                  |     |                    |
| Chlordane                                  | 0.00080 B        |     | 0.00081 B          |
| 4,4-DDT                                    | 0.00022 B        |     | 0.00022 B          |
| 4,4-DDE                                    | 0.00022 B        |     | 0.00022 B          |
| 4,4-DDD                                    | 0.00031 B        |     | 0.00031 B          |
| Dieldrin                                   | 0.000052 B       |     | 0.000054 B         |
| alpha-Endosulfan                           | 62               |     | 89                 |
| beta-Endosulfan                            | 62               |     | 89                 |
| Endosulfan Sulfate<br>Endrin               | 62<br>0.059      |     | 89<br>0.060        |
| DIGE III                                   | 70               |     | 0.000              |
|  | <i>1</i> O       |     |                    |

Endrin Aldehyde 0.29 0.30

Heptachlor 0.000079 B 0.000079 B

Heptachlor Epoxide 0.000039 B 0.000039 B

Polychlorinated Biphenyls 0.000064 B,D 0.000064 B,D

PCB's

Toxaphene 0.00028 B 0.00028 B

Footnotes:

- A. See Table 2.14.2
- B. Based on carcinogenicity of 10-6 risk.
- C. EPA has not calculated a human criterion for this contaminant. However, permit authorities should address this contaminant in NPDES permit actions using the State's existing narrative criteria for toxics
  - D. This standard applies to total PCBs.

KEY: water pollution, water quality standards Date of Enactment or Last Substantive Amendment: April 1, 2010 Notice of Continuation: October 2, 2007

Authorizing, and Implemented or Interpreted Law: 19-5