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## 58.01.17 - Recycled Water Rules

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**IDAPA 58  
TITLE 01  
CHAPTER 17**

**58.01.17 - RECYCLED WATER RULES**

**000. LEGAL AUTHORITY.**

Pursuant to Title 39, Chapter 1, Idaho Code, the Director of the Department of Environmental Quality is authorized to adopt or formulate and recommend to the Board of Environmental Quality, and the Board of Environmental Quality is authorized to adopt rules, regulations and standards necessary and feasible to protect the environment and the health of citizens of the State including provisions for the issuance of pollution source permits, authorized by Section 39-115, Idaho Code, and review of plans and specifications for wastewater treatment facilities, authorized by Section 39-118, Idaho Code. (4-7-11)

**001. TITLE AND SCOPE.**

**01. Title.** These rules are to be known and cited as Idaho Department of Environmental Quality Rules, IDAPA 58.01.17, "Recycled Water Rules." (4-7-11)

**02. Scope.** These rules establish the procedures and requirements for the issuance and maintenance of pollution source permits for reuse facilities, also referred to in these rules as "reuse permits." (4-7-11)

**002. WRITTEN INTERPRETATIONS.**

Any written statements pertaining to the interpretation of these rules shall be available for review at the Idaho Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255. (4-6-05)

**003. INCORPORATION BY REFERENCE.**

American Water Works Association (AWWA) Standards, effective December 2009, are incorporated by reference into these rules. This document is available for review at the Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, (208)373-0502, or can be purchased from the AWWA, 6666 West Quincy Avenue, Denver, Colorado 80235, Telephone (800) 926-7337. (4-7-11)

**004. ADMINISTRATIVE PROVISIONS.**

Persons may be entitled to appeal agency actions authorized under these rules pursuant to IDAPA 58.01.23, "Rules of Administrative Procedure Before the Board of Environmental Quality." (3-15-02)

**005. CONFIDENTIALITY OF RECORDS.**

Information obtained by the Department under these rules is subject to public disclosure pursuant to the provisions of Chapter 1, Title 74, Idaho Code, and IDAPA 58.01.21, "Rules Governing the Protection and Disclosure of Records in the Possession of the Idaho Department of Environmental Quality." (3-15-02)

**006. OFFICE HOURS -- MAILING ADDRESS AND STREET ADDRESS.**

The state office of the Department of Environmental Quality and the office of the Board of Environmental Quality are located at 1410 N. Hilton, Boise, Idaho 83706-1255, telephone number (208) 373-0502. The office hours are 8:00 a.m. to 5:00 p.m. Monday through Friday. (4-11-06)

**007. (RESERVED)**

**008. REFERENCED MATERIALS.**

**01. Idaho Guidance for Recycled Water.** This document, and subsequent revisions of this document, provides assistance in applying and interpreting these rules relating to the permitting and operations of reuse facilities. Copies of the document are available at the Idaho Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, and online at <http://www.deq.idaho.gov/guidance-documents>. (4-7-11)

**02. Administrative Rules of the Department of Environmental Quality.** The following Administrative Rules of the Department of Environmental Quality are referenced in these rules at <http://adminrules.idaho.gov/rules/current/58/index.html>. (4-7-11)

- a. IDAPA 58.01.02, “Water Quality Standards.” (4-7-11)
- b. IDAPA 58.01.03, “Individual/Subsurface Sewage Disposal Rules.” (4-7-11)
- c. IDAPA 58.01.08, “Idaho Rules for Public Drinking Water Systems.” (4-7-11)
- d. IDAPA 58.01.11, “Ground Water Quality Rule.” (4-7-11)
- e. IDAPA 58.01.16, “Wastewater Rules.” (4-7-11)
- 03. Treatment Technology Report for Recycled Water.** The State of California Treatment Technology Report for Recycled Water, [www.cdph.ca.gov/healthinfo/environhealth/water/pages/waterrecycling.aspx](http://www.cdph.ca.gov/healthinfo/environhealth/water/pages/waterrecycling.aspx). (4-7-11)
- 04. Recommended Standards for Wastewater Facilities.** Recommended Standards for Wastewater Facilities - Great Lakes-Upper Mississippi River Board of State Sanitary Engineers at <http://10statesstandards.com/wastewaterstandards.html>. (4-7-11)
- 05. AWWA Manual M24.** AWWA Manual M24, Chapter 4 for Dual Water Systems. This document is available for review at the Department of Environmental Quality, 1410 N. Hilton, Boise, ID 83706-1255, (208)373-0502, or can be purchased from the AWWA, 6666 West Quincy Avenue, Denver, Colorado 80235, Telephone (800) 926-7337. (4-7-11)
- 06. Idaho Standards for Public Works Construction.** This document is available for a fee through the Local Highway Technical Assistance Council (LHTAC) at LHTAC, 3330 Grace Street, Boise, ID, 83703, (208) 344-0565. (4-7-11)
- 009. -- 099. (RESERVED)**
- 100. APPLICABILITY.**
- 01. Applicability to Reuse Facilities.** All non-excluded reuse facilities are subject to the requirements of these rules. (4-7-11)
- 02. Excluded Facilities.** (4-7-11)
  - a. Land application of wastewater from livestock truck washing facilities, feedlots, dairies and mining are excluded from permit requirements under these rules. (4-7-11)
  - b. The permit requirements set forth in these rules shall not apply to the incidental use of recycled water for landscape irrigation at a municipal wastewater treatment plant if: (4-7-11)
    - i. There is no other recycled water use that would subject the municipal wastewater treatment plant to these rules; (4-7-11)
    - ii. The municipal wastewater treatment plant has been issued an NPDES permit and the quality of the effluent meets that required by an NPDES permit; and (4-7-11)
    - iii. Public access to the area of landscape irrigation is restricted. (4-7-11)
  - c. The Director may exclude other facilities if covered adequately by other law. (4-7-11)
- 03. Reuse Policy.** It is the policy of the Department to promote, where appropriate, the practice of reuse of both municipal and industrial recycled water through the continued creation and implementation of rules and guidance that give permittees various opportunities for new forms of reuse. (4-7-11)
- 101. -- 199. (RESERVED)**

**200. DEFINITIONS.**

For the purpose of these rules, the following definitions apply unless another meaning is clearly indicated by context: (4-1-88)

- 01. Applicant.** The person applying for a reuse permit. (4-7-11)
- 02. Applicable Requirements.** Any state, local or federal statutes, regulations or ordinances to which the facility is subject. (4-1-88)
- 03. Beneficial Use.** Any of the various uses which may be made of the water of Idaho, including, but not limited to, domestic water supplies, industrial water supplies, agricultural water supplies, navigation, recreation in and on the water, wildlife habitat, and aesthetics. The beneficial use is dependent upon actual use, the ability of the water to support a non-existing use either now or in the future, and its likelihood of being used in a given manner. The use of water for the purpose of wastewater dilution or as a receiving water for a waste treatment facility effluent is not a beneficial use. (4-7-11)
- 04. Biochemical Oxygen Demand (BOD).** The measure of the amount of oxygen necessary to satisfy the biochemical oxidation requirements of the organic materials at the time the sample is collected; unless otherwise specified, this term will mean the five (5) day BOD incubated at twenty (20) degrees C. (4-7-11)
- 05. Board.** The Idaho Board of Environmental Quality. (4-7-11)
- 06. Buffer Distances.** A specified distance between an actual point of use of recycled water and a land feature or resource use specified in these rules, such as wells, adjoining property, inhabited dwellings, or other features. (4-7-11)
- 07. Department.** The Idaho Department of Environmental Quality. (4-1-88)
- 08. Director.** The Director of the Department of Environmental Quality or the Director's designee. (4-1-88)
- 09. Ground Water Recharge.** The process of adding recycled water to the zone of saturation. (4-7-11)
- 10. Industrial Wastewater.** All wastewater, treated or untreated, that is not defined as municipal wastewater. (4-7-11)
- 11. Land Application.** A process or activity involving application of recycled water to the land surface. Land application includes, but is not limited to, spray irrigation, ridge and furrow, overland flow, subsurface absorption, and discharge to a rapid infiltration system. (4-7-11)
- 12. Landscape Impoundment.** Any lake, pond, or other water holding feature constructed or managed to store recycled water where swimming, wading, boating, fishing, and other water-based recreational activities are prohibited. A landscape impoundment is created for storage and may incidentally serve a landscaping or aesthetic purpose. (4-7-11)
- 13. Modal Contact Time.** The amount of time elapsed between the time that a tracer, such as salt or dye, is injected into the influent at the entrance to a chamber and the time that the highest concentration of the tracer is observed in the effluent from the chamber. (3-30-07)
- 14. Municipal Wastewater.** Wastewater that contains sewage and associated solids, whether treated or untreated. Municipal wastewater may contain industrial wastewater. Municipal wastewater is also known as domestic wastewater. (4-7-11)
- 15. Non-Contact Cooling Water.** Water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat) or finished product, the land application of which does not have the potential to negatively impact ground water. (4-7-11)

16. **Non-Potable Mains.** The pipelines that collect and/or convey non-potable discharges from or to multiple service connections. Examples would include sewage collection and interceptor mains, storm sewers, non-potable irrigation mains, and recycled water mains. (4-7-11)
17. **Non-Potable Services.** The pipelines that convey non-potable discharges from individual facilities to a connection with the non-potable main. This term also refers to pipelines that convey non-potable water from a pressurized irrigation system, recycled water system, and other non-potable systems to individual consumers. (4-7-11)
18. **Non-Potable Water.** Water not suitable for drinking by humans. (4-7-11)
19. **NTU (Nephelometric Turbidity Unit).** A measure of turbidity based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of the light scattered by a standard reference suspension under the same conditions. (3-30-07)
20. **Operation and Maintenance Manual.** A manual that describes in detail the operation, maintenance, and management of a reuse facility. Operation and maintenance manual is also known as plan of operation. (4-7-11)
21. **Peak Day Flow.** The largest volume of flow to be received during a one (1) day period expressed as a volume per unit time. (4-7-11)
22. **Peak Hour Flow.** The largest volume of flow to be received during a one (1) hour period expressed as a volume per unit time. (4-7-11)
23. **Permit.** Written authorization by the Director to modify, operate, construct, or discharge to a reuse facility. (4-7-11)
24. **Permittee.** The person to whom the reuse permit is issued. (4-7-11)
25. **Person.** An individual, public or private corporation, partnership, association, firm, joint stock company, joint venture, trust, estate, state, municipality, commission, political subdivision of the state, state, or federal agency, department or instrumentality, special district, or interstate body or any legal entity, which is recognized by law as the subject of rights and duties. (4-7-11)
26. **Plan of Operation.** A manual that describes in detail the operation, maintenance, and management of a reuse facility. Plan of operation is also known as operation and maintenance manual. (4-7-11)
27. **Point of Compliance.** That point in the reuse facility where the recycled water must meet the requirements of the permit. A permit may require more than one (1) point of compliance within the facility depending on the constituents to be monitored. (4-7-11)
28. **Potable Water.** Water suitable for drinking by humans. (4-7-11)
29. **Primary Effluent.** Wastewater that has been mechanically treated by screening, degritting, sedimentation and/or skimming processes to remove substantially all floatable and settleable solids. (4-7-11)
30. **Processed Food Crop.** Any crop intended for human consumption that has been changed from its original form and further disinfection occurs. (4-1-88)
31. **Rapid Infiltration System.** Rapid infiltration systems, also known as soil aquifer treatment systems, are highly permeable infiltration basins that are operated using periods of wetting and drying cycles at set frequencies to provide for both anaerobic and aerobic treatment of the wastewater through the vadose zone. (4-7-11)
32. **Raw Food Crop.** Any crop intended for human consumption which is to be used in its original form. (4-1-88)

**33. Recycled Water.** Water that has been treated by a wastewater treatment system and is used in accordance with these rules. (4-7-11)

**34. Restricted Public Access.** Preventing public entry within the area or point of reuse of a facility and the buffer distance around the area by site location or physical structures such as fencing. (4-7-11)

**35. Reuse.** The use of recycled water for, irrigation, ground water recharge, landscape impoundments, toilet flushing in commercial buildings, dust control, and other uses. (4-7-11)

**36. Reuse Facility or Facility.** Any structure or system designed or used for reuse of municipal or industrial wastewater including, but not limited to, industrial and municipal wastewater treatment facilities, pumping and storage facilities, pipeline and distribution facilities, and the property to which the recycled water is applied. This does not include industrial in-plant processes and reuse of process waters within the plant. (4-7-11)

**37. Sewage.** The water-carried human wastes from residences, buildings, industrial establishments and other places, together with such ground water infiltration and surface water as may be present. (4-7-11)

**38. Sludge.** The semi-liquid mass produced and removed by wastewater treatment process. This does not include grit, garbage, and large solids. (4-7-11)

**39. Subsurface Distribution System.** Any system with a point of discharge beneath the earth's surface. (4-7-11)

**40. Turbidity.** A measure of the interference of light passage through water, or visual depth restriction due to the presence of suspended matter such as clay, silt, nonliving organic particulates, plankton and other microscopic organisms. Operationally, turbidity measurements are expressions of certain light scattering and absorbing properties of a water sample. Turbidity is measured by the Nephelometric method. (3-30-07)

**41. Wastewater.** Any combination of liquid or water and pollutants from activities and processes occurring in dwellings, commercial buildings, industrial plants, institutions and other establishments, together with any ground water, surface water, and storm water that may be present; liquid or water that is chemically, biologically, physically or rationally identifiable as containing blackwater, gray water or commercial or industrial pollutants; and sewage. (4-7-11)

**42. Water Pollution.** Any alteration of the physical, thermal, chemical, biological, or radioactive properties of any waters of the state, or the discharge of any pollutant into the waters of the state, which will or is likely to create a nuisance or to render such waters harmful, detrimental or injurious to public health, safety or welfare, or to fish and wildlife, or to domestic, commercial, industrial, recreational, aesthetic, or other beneficial uses. (4-7-11)

**43. Waters and Waters of the State.** All the accumulations of water, surface and underground, natural and artificial, public and private, or parts thereof which are wholly or partially within, which flow through or border upon the state. (4-1-88)

**201. -- 299. (RESERVED)**

**300. PERMIT REQUIREMENTS AND APPLICATION.**

**01. Permit Required.** No person shall construct, modify, operate, or continue to operate a reuse facility without a valid permit issued by the Director as provided in these rules. (4-7-11)

**02. Pre-Application Conference.** Prospective applicants are encouraged to meet with the Department prior to submission of an application to discuss the application procedure and anticipated application requirements. (4-7-11)

**03. Application Contents.** Except as provided in Subsection 300.04, an application for a reuse permit

- shall include the following information: (4-7-11)
- a.** Name, location, and mailing address of the facility; (4-1-88)
  - b.** Name, mailing address, and phone number of the facility owner and signature of the owner or authorized agent; (4-1-88)
  - c.** The nature of the entity owning the facility (federal, state, private, or public entity); (4-1-88)
  - d.** A list of local, state, and federal permits, licenses and approvals related to the activity which have been applied for and which have been received and the dates of application or approval; (4-1-88)
  - e.** A topographic map of the facility site identifying and showing the location and extent of: (4-1-88)
    - i.** Wastewater inlets, outlets, and storage structures and facilities, including the land application area; (4-7-11)
    - ii.** Wells, springs, wetlands, and surface waters; (4-1-88)
    - iii.** Twenty-five (25), fifty (50), and one hundred (100) year flood plains, as available through the Federal Insurance Administration of the Federal Emergency Management Agency; (4-1-88)
    - iv.** Service roads; (4-1-88)
    - v.** Natural or man-made features necessary for treatment; (4-1-88)
    - vi.** Buildings and structures; and (4-1-88)
    - vii.** Process chemicals and residue storage facilities. (4-1-88)
  - f.** A topographic map which may be separate from or combined with the facility site map, extending one quarter (1/4) mile beyond the outer limits of the facility site. The map shall identify and show the location and extent of the following: (4-1-88)
    - i.** Wells, springs, wetlands, and surface waters; (4-6-05)
    - ii.** Public and private drinking water supply sources and source water assessment areas (public water system protection area information); (4-6-05)
    - iii.** Public roads; and (4-1-88)
    - iv.** Dwellings and private and public gathering places. (4-1-88)
  - g.** If the facility site or any portion thereof is leased or rented, a copy of that lease or rental agreement; (4-1-88)
  - h.** The volume of wastewaters to be treated; (4-7-11)
  - i.** The physical, chemical, and biological characteristics of the recycled water to be used; (4-7-11)
  - j.** The climatic, hydrogeologic, and soil characteristics of the facility site; (4-7-11)
  - k.** Description of treatment process and alternatives for disposal of unanticipated excess recycled water that does not meet class specifications; (4-7-11)
  - l.** Site management plans, including a cropping plan where applicable; (4-7-11)



**m.** A statement and supporting documentation demonstrating that the proposed activity shall comply with IDAPA 58.01.11, “Ground Water Quality Rule”; and (4-7-11)

**n.** Any other information the Department may require. The Idaho Guidance for Recycled Water is intended to provide assistance to permit applicants in obtaining a reuse permit and may be considered in determining the need for other information. (4-7-11)

**04. Permit Application Content Exceptions.** Certain permit renewals may not require one (1) or more of the items listed in Subsection 300.03. Application content requirements for permit renewals will be clarified at the pre-application conference. (4-7-11)

**05. Reuse Facility Operation and Maintenance Manual or Plan of Operations.** A facility’s operation and maintenance manual must contain all system components relating to the reuse facility in order to comply with IDAPA 58.01.16 “Wastewater Rules,” Section 425. Manuals and manual amendments are subject to the review and approval provision therein. In addition to the content required by IDAPA 58.01.16.425, manuals for reuse facilities shall include, if applicable: operation and management responsibility, permits and standards, general plant description, operation and control of unit operations, land application site maps, wastewater characterization, cropping plan, hydraulic loading rate, constituent loading rates, compliance activities, seepage rate testing, site management plans, monitoring, site operations and maintenance, solids handling and processing, laboratory testing, general maintenance, records and reports, store room and inventory, personnel, an emergency operating plan, and any other information required by the Department. (4-7-11)

**301. -- 399. (RESERVED)**

**400. APPLICATION PROCESSING PROCEDURE.**

**01. Submittal Date.** In order to allow for adequate processing of permit applications in accordance with these rules, permit applications for new facilities should be submitted at least one hundred eighty (180) days prior to the applicant’s expected commencement of reuse activities. Existing facilities applying for permit renewals shall submit a permit application at least one hundred eighty (180) days prior to expiration of the existing permit. (4-7-11)

**02. Complete Application.** If the application is determined to be complete the Director shall provide written notice to the applicant within thirty (30) days after receipt of the application which shall specify: (4-11-06)

- a.** The effective date of application, which shall be the date of the notice; and (4-7-11)
- b.** A projected schedule for processing the permit which lists the tentative dates for: (4-1-88)
  - i.** Publication of the preliminary permit decision or application denial; and (4-1-88)
  - ii.** The date of issuance of a final permit. (4-1-88)

**03. Incomplete Application.** If the application is determined to be incomplete the Director shall provide written notice to the applicant within thirty (30) days after receipt of the application which specifies deficiencies and specifies additional required information. The Director shall not process an application until it is determined to be complete in accordance with these rules. (4-11-06)

**04. Preliminary Decision/Application Denial.** Within thirty (30) days of the effective date of the application the Director shall issue a preliminary decision to prepare a draft permit, or issue a decision denying the application. The applicant shall be notified in writing of the Director’s preliminary decision or application denial. Notification shall include a staff analysis of the application and a draft permit if appropriate. (4-1-88)

**05. Contents of the Staff Analysis.** The staff analysis shall briefly state the principal facts and the significant questions considered in preparing the draft permit conditions or the intent to deny, and a summary of the basis for the draft conditions or denial with references to applicable requirements and supporting materials. (4-1-88)

**06. Information or Consultation Before Issuance of Draft Permit or Application Denial.** After the application is determined to be complete, additional information or consultation between the applicant and the Department may be needed to clarify, modify, or supplement the application. This action may be initiated by the Director or the applicant. (4-11-06)

**07. Issuance and Contents of the Draft Permit.** (4-11-06)

**a.** Issuance and Contents of the Draft Permit. The Director shall issue a draft permit to the applicant within sixty (60) days of issuing a preliminary decision to prepare a draft permit. The draft permit shall be in the same form as a final permit and shall specify conditions of operation and management which will be required for the issuance of the permit. Permit conditions shall protect the environment and the public health from the hazard potential of an existing or proposed wastewater treatment system. (4-11-06)

**b.** Public Comments. The Department shall provide notice to the public of its issuance of a draft permit. The public may provide written comments for a period of time and in a manner specified in the Department's notice. The Department may, in its discretion, provide an opportunity for the public to provide oral comments.; (4-11-06)

**08. Issuance of the Final Permit.** The Director shall issue a final permit decision in writing to the applicant within sixty (60) days from the issuance of the draft permit, except the Director may issue the decision at a later date in response to a written request to extend the public comment period. (4-11-06)

**09. Effective Date of Final Permit.** The final permit shall become effective upon date of issue unless a later effective date is specified in the permit. (4-1-88)

**10. Continuation of Expiring Permits.** (4-7-11)

**a.** A timely and sufficient application for permit renewal shall administratively extend the terms and conditions of an expired permit pursuant to Section 67-5254, Idaho Code. An application shall be considered timely and sufficient under these rules so long as the Department has determined the application is complete under Subsection 400.02 and the application's effective date under Subsection 400.02.a. is prior to the expiration of the current permit. (4-7-11)

**b.** A permittee shall perform the closure requirements in a permit, the closure requirements of these rules, and complete all closure plan activities notwithstanding the expiration of the permit. (4-7-11)

**401. -- 499. (RESERVED)**

**500. STANDARD PERMIT CONDITIONS.** The following conditions shall apply to and be included in all permits. (4-1-88)

**01. Compliance Required.** The permittee shall comply with all conditions of the permit. (4-1-88)

**02. Renewal Responsibilities.** If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit in accordance with these rules. (4-1-88)

**03. Operation of Facilities.** The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with the permit or these rules. (4-1-88)

**04. Provide Information.** The permittee shall furnish to the Director within a reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these rules. (4-1-88)

**05. Entry and Access.** The permittee shall allow the Director, consistent with Title 39, Chapter 1,

Idaho Code, to: (4-1-88)

- a. Enter the permitted facility. (4-1-88)
- b. Inspect any records that must be kept under the conditions of the permit. (4-1-88)
- c. Inspect any facility, equipment, practice, or operation permitted or required by the permit. (4-1-88)
- d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility. (4-1-88)

**06. Reporting.** The permittee shall report to the Director under the circumstances and in the manner specified in this section: (4-1-88)

a. In writing at least thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process. When the alteration or addition results in a need for a major modification, such alteration or addition shall not be made prior to Department approval issued in accordance with these rules. (4-7-11)

b. In writing thirty (30) days before any anticipated change which would result in noncompliance with any permit condition or these rules. (4-1-88)

c. Orally within twenty-four (24) hours from the time the permittee became aware of any noncompliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director. (4-1-88)

d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any noncompliance unless extended by the Department. This report shall contain: (4-1-88)

- i. A description of the noncompliance and its cause; (4-1-88)
- ii. The period of noncompliance including to the extent possible, times and dates and, if the noncompliance has not been corrected, the anticipated length of time it is expected to continue; and (4-7-11)
- iii. Steps taken or planned, including timelines, to reduce or eliminate the continuance or reoccurrence of the noncompliance. (4-7-11)

e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report. (4-1-88)

**07. Minimize Impacts.** The permittee shall take all necessary actions to eliminate and correct any adverse impact on the public health or the environment resulting from permit noncompliance. (4-1-88)

**08. Compliance with "Ground Water Quality Rule."** Permits issued pursuant to these rules shall require compliance with IDAPA 58.01.11, "Ground Water Quality Rule." (4-7-11)

**501. -- 599. (RESERVED)**

**600. SPECIFIC PERMIT CONDITIONS.**

**01. Basis for Specific Permit Conditions.** Conditions necessary for the protection of the environment and the public health may differ from facility to facility because of varying environmental conditions and wastewater compositions. The Director may establish, on a case-by-case basis, specific permit conditions. Specific conditions shall be established in consideration of characteristics specific to a facility and inherent hazards of those characteristics. Such characteristics include, but are not limited to: (4-1-88)

- a. Chemical, biological, physical, and volumetric characteristics of the wastewater; (4-1-88)
  - b. Geological and climatic nature of the facility site; (4-1-88)
  - c. Size of the site and its proximity to population centers and to ground and surface water; (4-1-88)
  - d. Legal considerations relative to land use and water rights; (4-1-88)
  - e. Techniques used in wastewater distribution and the disposition of that vegetation exposed to wastewaters; (4-1-88)
  - f. Abilities of the soils and vegetative covers to treat the wastewater without undue hazard to the environment or to the public health; and (4-1-88)
  - g. The need for monitoring and record keeping to determine if the facility is being operated in conformance with its design and if its design is adequate to protect the environment and the public health. (4-1-88)
- 02. Duration of Permit.** The permit shall be effective for a fixed term of not more than ten (10) years. (4-7-11)
- 03. Limitations to Operation.** Conditions of the permit may specify or limit: (4-1-88)
- a. Wastewater composition; (4-1-88)
  - b. Method, manner, and frequency of wastewater treatment; (4-1-88)
  - c. Wastewater pretreatment requirements; (4-1-88)
  - d. Physical, chemical, and biological characteristics of a land treatment facility; and (4-11-06)
  - e. Any other condition the Director finds necessary to protect public health or environment. (4-1-88)
- 04. Compliance Schedules.** The Director may establish a compliance schedule for existing facilities as part of the permit conditions including: (4-1-88)
- a. Specific steps or actions to be taken by the permittee to achieve compliance with applicable requirements or final permit conditions; (4-1-88)
  - b. Dates by which those steps or actions are to be taken; and (4-1-88)
  - c. In any case where the period of time for compliance exceeds one (1) year the schedule may also establish interim requirements and the dates for their achievements. (4-1-88)
- 05. Monitoring Requirements.** Any facility may be subject to monitoring requirements including, but not limited to: (4-1-88)
- a. The installation, use, and maintenance of monitoring equipment; (4-1-88)
  - b. Monitoring or sampling methodology, frequency, and locations; (4-1-88)
  - c. Monitored substances or parameters; (4-1-88)
  - d. Testing and analytical procedures; and (4-1-88)
  - e. Reporting requirements including both frequency and form. (4-1-88)

**601. MUNICIPAL RECYCLED WATER: CLASSIFICATION, TREATMENT, USE.**

**01. Class A Recycled Water.** In order to be classified as Class A recycled water, municipal wastewater shall be oxidized, coagulated, clarified, and filtered, or treated by an equivalent process and adequately disinfected. Class A treatment systems shall be reviewed by the Department and approved on a case-by-case basis. The Department may require pilot testing or demonstration prior to approval, or may condition approval upon the successful outcome of such testing or demonstration. (4-7-11)

**a. Disinfection Requirements.** (4-7-11)

**i. Class A recycled water shall be disinfected by either:** (4-7-11)

(1) A chlorine disinfection process that provides a concentration/contact time (CT) of four hundred and fifty (450) milligram-minutes per liter (mg-min/L) measured at the end of the contact time based on total chlorine residual and a modal contact time of not less than ninety (90) minutes based on peak day dry weather flow; or (4-7-11)

(2) A disinfection process that, when combined with filtration, has been demonstrated to achieve 5-log inactivation of virus. Acceptance by the State of California as published in their Treatment Technology Report for Recycled Water is one (1) method to constitute such a demonstration. (4-7-11)

**ii. The median number of total coliform organisms does not exceed two and two-tenths (2.2) per one hundred (100) milliliters, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed. No sample shall exceed twenty-three (23) organisms per one hundred (100) milliliters in any confirmed sample.** (4-7-11)

**iii. Sampling frequency and point of compliance.** (4-7-11)

(1) Class A recycled water shall be sampled and analyzed daily for total coliform when allowed uses specifically require Class A recycled water. The sampling frequency for Class A may be decreased and the alternate frequency will be determined based upon, but not limited to, the following: uses that are allowed with lower class recycled water, the volume of recycled water used, the disinfection method used, the demonstrated disinfection efficiency and reliability, the point of compliance, or other factors demonstrating that the alternative frequency is protective of public health. (4-7-11)

(2) The point of compliance for Class A recycled water for total coliform shall be at any point in the system following final treatment and disinfection contact time. It is recommended that the recycled water also be disinfected following storage. (4-7-11)

**b. Turbidity Requirements.** (4-7-11)

**i. Class A recycled water shall meet the following turbidity limits:** (4-7-11)

(1) For filtration systems utilizing sand or other granular media or cloth media, the daily arithmetic mean of all measurements of turbidity shall not exceed two (2) NTU, and turbidity shall not exceed five (5) NTU at any time. (4-7-11)

(2) For filtration systems utilizing membrane filtration, the daily arithmetic mean of all measurements of turbidity shall not exceed zero point two (0.2) NTU, and turbidity shall not exceed zero point five (0.5) NTU at any time. The turbidity standard shall be met prior to disinfection. (4-7-11)

**ii. One (1) in-line, continuously monitoring, recording turbidimeter is required for each treatment train after filtration and prior to disinfection.** (4-7-11)

**c. Nitrogen, pH and BOD5 Requirements.** (4-7-11)

**i. Total nitrogen at the point of compliance shall not exceed ten (10) mg/L for ground water recharge**

systems and thirty (30) mg/L for residential irrigation and other non-recharge uses. These limits are based on a monthly arithmetic mean as determined from weekly composite sampling. These limits are a maximum value and may not be applicable if the results of an assessment of ground water quality impacts that may be required and is approved by the Department indicate that lower limits are necessary to protect existing ground water quality beneficial uses. (4-7-11)

ii. The pH as determined by daily grab samples or continuous monitoring shall be between six point zero (6.0) and nine point zero (9.0). (4-7-11)

iii. Five (5) Day Biochemical Oxygen Demand (BOD5) shall not exceed five (5) mg/L for ground water recharge systems, and ten (10) mg/L each for residential irrigation and other non-recharge systems, based on a monthly arithmetic mean as determined from weekly composite sampling. (4-7-11)

**02. Class B Recycled Water.** In order to be classified as Class B recycled water, municipal wastewater shall be oxidized, coagulated, clarified, and filtered, or treated by an equivalent process and adequately disinfected. Class B treatment systems shall be reviewed by the Department and approved on a case-by-case basis. The Department may require pilot testing or demonstration prior to approval, or may condition approval upon the successful outcome of such testing or demonstration. (4-7-11)

**a. Disinfection Requirements.** (4-7-11)

i. Class B recycled water shall be disinfected by either: (4-7-11)

(1) A chlorine disinfection process that provides a residual chlorine at the point of compliance of not less than one (1) mg/L total chlorine residual after a contact time of thirty (30) minutes at peak flow; or (4-7-11)

(2) When an alternative disinfection process is used, it must be demonstrated to the satisfaction of the Department that the alternative process is comparable to that achieved by chlorination with a total chlorine residual of one (1) mg/L after a minimum contact time of thirty (30) minutes. (4-7-11)

ii. The median number of total coliform organisms does not exceed two and two-tenths (2.2) per one hundred (100) milliliters, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed. No sample shall exceed twenty-three (23) organisms per one hundred (100) milliliters in any confirmed sample, as determined from the bacteriological results of the last seven (7) days for which analyses have been completed. (4-7-11)

iii. Sampling frequency and point of compliance. (4-7-11)

(1) Class B recycled water shall be sampled and analyzed daily for total coliform when allowed uses specifically require Class B recycled water. The sampling frequency for Class B may be decreased and the alternate frequency will be determined based upon, but not limited to, the following: uses that are allowed with lower class recycled water, the volume of recycled water used, the disinfection method used, the demonstrated disinfection efficiency and reliability, the point of compliance, or other factors demonstrating that the alternative frequency is protective of public health. (4-7-11)

(2) The point of compliance for Class B recycled water for total coliform shall be at any point in the system following final treatment and disinfection contact time. It is recommended that the recycled water also be disinfected following storage. (4-7-11)

**b. Turbidity Requirements.** Class B recycled water shall meet the following: (4-7-11)

i. Turbidity Limits. The daily arithmetic mean of all measurements of turbidity shall not exceed five (5) NTU, and turbidity shall not exceed ten (10) NTU at any time. The turbidity standard shall be met prior to disinfection. (4-7-11)

ii. Monitoring. One (1) in-line, continuously monitoring, recording turbidimeter is required for each treatment train after filtration and prior to disinfection. (4-7-11)

**03. Class C Recycled Water.** In order to be classified as Class C recycled water, municipal wastewater shall be oxidized and adequately disinfected. (4-7-11)

**a. Disinfection Requirements.** (4-7-11)

i. The median number of total coliform organisms does not exceed twenty-three (23) per one hundred (100) milliliters, as determined from the bacteriological results of the last five (5) days for which analyses have been completed. No sample shall exceed two hundred thirty (230) per one hundred (100) milliliters in any confirmed sample. (4-7-11)

ii. Sampling frequency and point of compliance. (4-7-11)

(1) Class C recycled water shall be sampled and analyzed weekly for total coliform when allowed uses specifically require Class C recycled water. The sampling frequency for Class C may be decreased and the alternate frequency will be determined based upon, but not limited to, the following: uses that are allowed with lower class recycled water, the volume of recycled water used, the disinfection method used, the demonstrated disinfection efficiency and reliability, the point of compliance, or other factors demonstrating that the alternative frequency is protective of public health. (4-7-11)

(2) The point of compliance for Class C recycled water for total coliform shall be at any point in the system following final treatment and disinfection contact time. (4-7-11)

**04. Class D Recycled Water.** In order to be classified as Class D recycled water, municipal wastewater shall be oxidized and adequately disinfected. (4-7-11)

**a. Disinfection Requirements.** (4-7-11)

i. The median number of total coliform organisms does not exceed two hundred thirty (230) per one hundred (100) milliliters, as determined from the bacteriological results of the last three (3) days for which analyses have been completed. No sample shall exceed two thousand three hundred (2300) organisms per one hundred (100) milliliters in any confirmed sample. (4-7-11)

ii. Sampling frequency and point of compliance. (4-7-11)

(1) Class D recycled water shall be sampled and analyzed monthly for total coliform when allowed uses specifically require Class D recycled water. The sampling frequency for Class D may be decreased and the alternate frequency will be determined based upon, but not limited to, the following: uses that are allowed with lower class recycled water, the volume of recycled water used, the disinfection method used, the demonstrated disinfection efficiency and reliability, the point of compliance, or other factors demonstrating that the alternative frequency is protective of public health. (4-7-11)

(2) The point of compliance for Class D recycled water for total coliform shall be at any point in the system following final treatment and disinfection contact time. (4-7-11)

**05. Class E Recycled Water.** In order to be classified as Class E recycled water, municipal wastewater shall meet at least primary effluent quality. (4-7-11)

**a. Class E recycled water has no disinfection requirements or applicable coliform standard.** (4-7-11)

**b. Sampling frequency for total coliform.** In general no sampling and analysis are required for Class E recycled water. In cases where sampling and analysis are required (e.g. buffer distance change reduction) the sampling frequency for total coliform will be established consistent with these rules in order to adequately protect human health and the environment. (4-7-11)

**602. MUNICIPAL RECYCLED WATER: CLASSIFICATION AND USES TABLES.**

**01. Municipal Recycled Water -- Classification Tables.** The following tables provide a summary of the treatment requirements of municipal recycled water outlined in Section 601. If there are discrepancies between Sections 601 and 602, the requirements of Section 601 prevail.

| TABLE 1 - CLASSIFICATION TABLE             |   |   |   |                               |                                |          |
|--|---|---|---|-------------------------------|--------------------------------|----------|
| Classification                             |   | Class A   | Class B   | Class C                       | Class D                        | Class E  |
| Oxidized                                   |   | Yes   | Yes   | Yes                           | Yes                            | No       |
| Clarified                                  |   | Yes   | Yes   | No                            | No                             | No       |
| Filtered                                   |   | Yes   | Yes   | No                            | No                             | No       |
| Disinfected                                |   | Yes   | Yes   | Yes                           | Yes                            | No       |
| Total coliform (organisms/100 milliliters) | Median results for last x-days for which analysis have been completed | 2.2<br>7-day median   | 2.2<br>7-day median   | 23<br>5-day median            | 230<br>3-day median            | No limit |
|  | Maximum in any sample   | 23  | 23  | 230                           | 2300                           | No limit |
|  | Monitoring frequency  | Daily, or as determined.  | Daily or as determined.   | Once weekly or as determined. | Once monthly or as determined. |          |
| Disinfection requirements contact time     |   | Contact time of 450 mg-min L with 90 min of modal time<br>Or<br>disinfection to 5-log inactivation of virus | Total chlorine not less than 1mg/L after 30 min contact time at peak flow<br>Or<br>alternate process comparable to this |                               |                                |          |

(4-7-11)

| TABLE 2 - CLASS A AND CLASS B ADDITIONAL REQUIREMENTS |                             |  |                              |
|---|-----------------------------|--|------------------------------|
| Classification  |                             | Class A  | Class B                      |
| Turbidity (NTU)                                       | 24-hr - mean, Not to exceed | Granular or cloth media - 2<br>Membrane filter - 0.2 | Granular or cloth media - 5  |
|   | Maximum, in any sample      | Granular or cloth media - 5<br>Membrane filter - 0.5 | Granular or cloth media - 10 |
|   | Monitoring frequency        | Continuous   | Continuous                   |



| TABLE 2 - CLASS A AND CLASS B ADDITIONAL REQUIREMENTS                                   |   |  |
|---|---|--|
| Classification  | Class A   | Class B  |
| Maximum Total nitrogen (mg/L)   | Ground water recharge - 10<br>Residential irrigation and other non-recharge uses - 30<br><br>or<br><br>As required based on an analysis of ground water impacts | May be required based on an analysis of ground water impacts |
| BOD5 (mg/L)<br><br>Monthly arithmetic mean, from weekly composite samples not to exceed | Ground water recharge - 5<br>Residential irrigation and other non-recharge uses - 10  |  |
| pH<br><br>Daily grab samples or continuous monitoring                                   | Between 6.0 and 9.0   |  |

(4-7-11)

**02. Municipal Recycled Water - Uses.** The following table provides a summary of municipal recycled water uses for which a specific classification is required. Other uses not listed here may be considered on a case-by-case basis and approved by the Department.

| TABLE 3 - RECYCLED WATER USES  |         |         |         |         |         |
|--|---------|---------|---------|---------|---------|
| Recycled Water Uses  | Class A | Class B | Class C | Class D | Class E |
| <b>Uses relating to Irrigation and buffers</b>   |         |         |         |         |         |
| Buffers required   | No      | Yes     | Yes     | Yes     | Yes     |
| Fodder, fiber crops  | Yes     | Yes     | Yes     | Yes     | Yes     |
| Commercial timber, firewood  | Yes     | Yes     | Yes     | Yes     | Yes     |
| Processed food crops or "food crops that must undergo commercial pathogen-destroying processing before being consumed by humans" | Yes     | Yes     | Yes     | Yes     | No      |
| Ornamental nursery stock, or Christmas trees   | Yes     | Yes     | Yes     | Yes     | No      |
| Sod and seed crops not intended for human ingestion  | Yes     | Yes     | Yes     | Yes     | No      |
| Pasture for animals not producing milk for human consumption   | Yes     | Yes     | Yes     | Yes     | No      |
| Pasture for animals producing milk for human consumption   | Yes     | Yes     | Yes     | No      | No      |

| TABLE 3 - RECYCLED WATER USES   |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| Recycled Water Uses   | Class A | Class B | Class C | Class D | Class E |
| Orchards and vineyards irrigation during the fruiting season, if no fruit harvested for raw use comes in contact with the irrigation water or ground, or will only contact the unedible portion of raw food crops | Yes     | Yes     | Yes     | No      | No      |
| Highway medians and roadside vegetation irrigation on sides   | Yes     | Yes     | Yes     | No      | No      |
| Cemetery irrigation   | Yes     | Yes     | Yes     | No      | No      |
| Parks, playgrounds, and school yards during periods of non-use  | Yes     | Yes     | No      | No      | No      |
| Parks, playgrounds, and school yards during periods of use  | Yes     | No      | No      | No      | No      |
| Golf courses  | Yes     | Yes     | No      | No      | No      |
| Food crops, including all edible food crops   | Yes     | Yes     | No      | No      | No      |
| Residential landscape   | Yes     | No      | No      | No      | No      |
| <b>Uses at Industrial, Commercial, or Construction Sites</b>  |         |         |         |         |         |
| Dust suppression at construction sites and control on roads and streets   | Yes     | Yes     | Yes     | No      | No      |
| Toilet flushing at industrial and commercial sites, when only trained maintenance personnel have access to plumbing for repairs   | Yes     | Yes     | Yes     | No      | No      |
| Nonstructural fire fighting   | Yes     | Yes     | Yes     | No      | No      |
| Cleaning roads, sidewalks and outdoor work areas  | Yes     | Yes     | Yes     | No      | No      |
| Backfill consolidation around non-potable piping  | Yes     | Yes     | Yes     | No      | No      |
| Soil compaction   | Yes     | Yes     | Yes     | No      | No      |
| Commercial campus irrigation  | Yes     | Yes     | No      | No      | No      |
| Fire suppression  | Yes     | Yes     | No      | No      | No      |
| Snowmaking for winter parks, resorts  | Yes     | No      | No      | No      | No      |
| Commercial laundries  | Yes     | No      | No      | No      | No      |
| <b>Ground Water Recharge</b>  |         |         |         |         |         |
| Ground water recharge through surface spreading, seepage ponds or other unlined surface water features, such as landscape impoundments  | Yes     | No      | No      | No      | No      |
| <b>Subsurface Distribution</b>  |         |         |         |         |         |
| Subsurface distribution.  | Yes     | Yes     | Yes     | Yes     | No      |

(4-7-11)

**603. MUNICIPAL RECYCLED WATER: ACCESS, EXPOSURE AND SIGNAGE.**

**01. Class A Recycled Water.** When using Class A recycled water the public and personnel at the area of use must be notified that the water is recycled water and is not safe for drinking or human contact. Signs shall be posted and must state "Caution: Recycled Water - Do Not Drink", or equivalent signage both in English and Spanish. (4-7-11)

**a.** Class A distribution system identification and signage. (4-7-11)

**i.** General. All new buried pipe conveying Class A Recycled Water, including service lines, valves, and other appurtenances, shall be colored purple, and the precise color used, e.g., Pantone 512, 522 or equivalent, shall be consistently used throughout the system. The precise color proposed for use shall be identified in the plans and specifications and reviewed by the Department during plan and specification review to ensure the pipes may be adequately identifiable and distinguishable. If fading or discoloration of the purple pipe is experienced during construction, identification tape or locating wire along the pipe is required. Label piping every ten (10) feet "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English. (4-7-11)

**ii.** Identification Tape. If identification tape is installed along with the purple pipe, it shall be prepared with white or black printing on a purple color field as approved by the Department, having the words, "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English. The overall width of the tape shall be at least three (3) inches. Identification tape shall be installed eighteen (18) inches above the transmission pipe longitudinally, shall be centered over the pipe, and shall run continuously along the length of the pipe. (4-7-11)

**iii.** Valve Boxes and Other Surface Identification. All valves shall have locking valve covers that are non-interchangeable with potable water valve covers, and shall have an inscription cast on the top surface stating "Recycled Water." All above ground pipes and pumps shall be consistently color coded (purple) and marked to differentiate Class A recycled water facilities from potable water facilities. (4-7-11)

**b.** Class A recycled water pumping facilities identification and signage. (4-7-11)

**i.** Marking. All exposed and above ground piping, risers, fittings, pumps, valves, etc., shall be painted purple color (Pantone 512, 522 or other equivalent product acceptable to the Department). In addition, all piping shall be identified using an accepted means of labeling reading "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English lettering. In a fenced pump station area, signs shall be posted on the fence on all sides. (4-7-11)

**ii.** Warning Labels. Warning labels shall be installed on designated facilities such as, but not limited to, controller panels and washdown or blow-off hydrants on water trucks, hose bibs, and temporary construction services. The labels shall read, "Caution: Recycled Water - Do Not Drink" or equivalent signage, in both Spanish and English. (4-7-11)

**c.** Class A Lagoon Identification and Signage. Where Class A recycled water is stored or impounded, or used for irrigation in public areas, warning signs shall be installed and contain, at a minimum, one (1) inch purple letters (Pantone 512, 522 or other equivalent product acceptable to the Department) on a white or other high contrast background notifying the public that the water is unsafe to drink. Signs may also have a purple background with white or other high contrast lettering. Warning signs and labels shall read, "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English. (4-7-11)

**d.** Class A Additional Access Requirements. Drinking fountains, picnic tables, food establishments, and other public eating facilities shall be placed out of any spray irrigation area in which Class A recycled water is used, or shall be otherwise protected from contact with the Class A recycled water. Exterior drinking fountains, picnic tables, food establishments, and other public eating facilities shall be shown and called out on the construction plans. If no exterior drinking fountains, picnic tables, food establishments, or other public eating facilities are present in the design area, then it shall be specifically stated on the plans that none are to exist. (4-7-11)

**02. Class B Recycled Water.** When using Class B recycled water, the public and personnel at the use area must be notified that the water used is recycled water and is not safe for drinking or human contact. Signs must be posted and the signs must state that recycled water is used and is not safe for drinking or human contact. Signs shall be posted and must state "Caution: Recycled Water - Do Not Drink", or equivalent signage both in English and

Spanish. (4-7-11)

**03. Class C Recycled Water.** When using Class C recycled water for irrigation, the personnel at the use area must be notified that the water used is recycled water and is not safe for drinking. For the public, signs must be posted around the perimeter of the irrigation site stating that recycled water is used and is not safe for drinking or human contact. Signs shall be posted and must state “Warning: Recycled Water - Do Not Enter”, or equivalent signage both in English and Spanish. (4-7-11)

**04. Class D Recycled Water.** When using Class D recycled water for irrigation, the personnel at the use area must be notified that the water used is recycled water and is not safe for drinking. For the public, signs must be posted around the perimeter of the irrigation site stating that recycled water is used and is not safe for drinking or human contact. Signs shall be posted and must state “Warning: Recycled Water - Do Not Enter”, or equivalent signage both in English and Spanish. (4-7-11)

**05. Class E Undisinfected Recycled Water.** When using Class E undisinfected recycled water for irrigation, public access to the irrigation site shall be prevented using a physical barrier or other measure approved by the Department. Signs shall be posted around the perimeter of the irrigation site stating that recycled water is used and is not safe for drinking or human contact. Signs shall be posted and must state “Warning: Recycled Water - Do Not Enter”, or equivalent signage both in English and Spanish. (4-7-11)

**604. REUSE FACILITIES: BUFFER DISTANCES.**

**01. Buffer Distance Considerations.** Buffer distances shall be established for the following purposes: (4-7-11)

**a.** Protect public health by limiting exposure to recycled water and conditions associated with reuse facilities; (4-7-11)

**b.** Protect waters of the state, including surface water, ground water and drinking water supplies; and (4-7-11)

**c.** Help ensure that the use of recycled water is restricted to within the physical boundaries of the reuse facilities. (4-7-11)

**02. Determining Buffer Distances.** In determining buffer distances for inclusion in a reuse permit the Department will consider the following: (4-7-11)

**a.** Characterization of the recycled water; (4-7-11)

**b.** The method of irrigation; (4-7-11)

**c.** The physical or vegetative barriers; (4-7-11)

**d.** Microbial risk assessments; (4-7-11)

**e.** Any applicable best management practices; (4-7-11)

**f.** Environmental conditions, such as wind speed and direction; and (4-7-11)

**g.** Any other information relevant to the purposes described in this section. (4-7-11)

**605. MUNICIPAL RECYCLED WATER: PRELIMINARY ENGINEERING REPORTS.**

Preliminary engineering reports shall comply with these rules and applicable provisions of IDAPA 58.01.16 “Wastewater Rules.” Preliminary engineering reports for new municipal recycled water systems or major upgrades to municipal recycled water systems shall be submitted to the Department for review and approval prior to submittal of plans and specifications. (4-7-11)

**606. REUSE FACILITY: PLAN AND SPECIFICATION REVIEW.**

All plans and specifications for the construction of new reuse facilities or modification or expansion to same shall be submitted to and approved by the Director in accordance with Chapter 1, Title 39, Idaho Code, and IDAPA 58.01.16, "Wastewater Rules." (4-7-11)

**607. MUNICIPAL RECYCLED WATER: DISTRIBUTION PIPELINES.**

**01. Compliance with Wastewater Rules Required.** The design and construction of municipal recycled water distribution pipelines shall comply with applicable provisions of IDAPA 58.01.16, "Wastewater Rules," Section 430. The design and construction of municipal recycled water distribution pipelines shall also comply with applicable provisions of IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems." Any person or agency that is planning to construct all or part of the distribution system must obtain a plan and specification approval from the Department prior to beginning construction. (4-7-11)

**a.** Recycled water mains shall be treated as non-potable mains when considering their separation from potable water. Recycled water mains shall be treated as potable water mains when considering their separation from sewers. (4-7-11)

**b.** For a system that proposes to use an alternative to the distribution pipeline requirements in these rules, IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," or IDAPA 58.01.16, "Wastewater Rules," the design engineer shall submit data to the Department for review and approval demonstrating that the installation of an alternative will protect public health and environment. (4-7-11)

**02. Additional Distribution System Requirements for Class A Recycled Water.** Class A distribution systems and the continued distribution systems of all of its customers shall have specific requirements including, but not limited to the following. (4-7-11)

**a.** Where Class A recycled water is to be provided by pressure pipeline, the following standards may be used as guidance: the current edition of "Recommended Standards for Wastewater Facilities - Great Lakes-Upper Mississippi River Board of State Sanitary Engineers," the "AWWA Manual M24" Chapter 4 for dual water systems, and the current edition of "Idaho Standards for Public Works Construction." (4-7-11)

**b.** Conversion of Existing Drinking Water or Irrigation Water Lines. Requirements for irrigation systems proposed for conversion from use of non-Class A recycled water to use with Class A recycled water will be considered on a case-by-case basis considering protection of public health and the environment. Existing water lines that are being converted to use with Class A recycled water or a combination of Class A recycled water and irrigation water shall be accurately located, pressure tested and leakage tested prior to conversion in coordination with the Department. AWWA Standard(s) for pressure and leakage testing of drinking water lines shall be utilized on the lines to be converted. The pipeline must be physically disconnected from any potable water lines and brought into compliance with applicable cross connection rules and requirements in IDAPA 58.01.08, "Idaho Rules for Public Drinking Water Systems," Section 543, and must meet minimum separation requirements set forth in these rules. If the existing lines meet approval of the water supplier and the Department based upon the requirements set forth in these rules, the lines shall be approved for Class A recycled water distribution. If regulatory compliance of the system (accurate location, pressure testing, and verification of no cross connections) cannot be verified with record drawings, testing, televising, or otherwise, the lines shall be uncovered, inspected, and identified or otherwise verified to the Department's satisfaction prior to use. All accessible portions of the system must be retrofitted to meet the requirements of these rules. After conversion of the water or irrigation line to a Class A recycled water line, the lines shall be marked as stated in Subsection 603.01.a.iii. of these rules. (4-7-11)

**c.** Blow-off Assemblies. If either an in-line type or end-of-line type blow-off or drain assembly is installed in the system, a plan for proposed discharge or runoff locations shall be submitted to the Department for review and approval. (4-7-11)

**d.** Requirements for mixing Class A recycled water with other irrigation waters. Mixing Class A recycled water with other irrigation waters may be conducted in a pipe to pipe manner if both the other irrigation water source and the Class A source are protected by Department approved backflow devices. Class A recycled water may be mixed with other irrigation water in an unlined pond if the Class A recycled water is permitted for ground

water recharge. Class A recycled water that is permitted for irrigation only and not ground water recharge may be mixed with other irrigation water only in a lined pond. Water from these mixed ponds may then be used for permitted Class A uses. (4-7-11)

e. Requirements for Class A recycled water distribution system operators. All operators of Class A recycled water distribution systems, including operators of distribution systems that utilize a combination of Class A recycled water and other irrigation waters, operators of the distribution system from the wastewater treatment plant to the point of compliance or point of use or point of sale, as applicable, and those operators that are employed by buyers of the Class A recycled water for subsequent use, including home occupants, shall be required to sign a utility user agreement provided by the utility providing the Class A recycled water that states that the user understands the origin of the effluent and the concept of agronomic rate for applying the Class A recycled water. Contracts for sale of Class A recycled water for subsequent use shall also include these requirements. Individual homeowners are allowed to operate or maintain Class A recycled water distribution systems. Providers of the Class A recycled water shall undertake a public education program within its service area to teach potential customers the benefits and responsibilities of using Class A recycled water. (4-7-11)

**608. MUNICIPAL RECYCLED WATER: PUMPING STATIONS.**

**01. Pumping Station Requirements.** All municipal recycled wastewater pumping stations shall comply with applicable provisions of IDAPA 58.01.16 "Wastewater Rules", Sections 440. (4-7-11)

**02. Additional Pumping Station Requirements for Recycled Water.** (4-7-11)

a. Backflow Protection-Seal Water. Any potable water used as seal water for recycled water pump seals shall be protected from backflow with a Department approved backflow prevention device or air gap. (4-7-11)

b. Backflow Protection-Potable and Recycled Water. In no case shall a direct connection be made between the potable and recycled water system. If it is necessary to put potable water into the recycled water distribution system, a Department approved reduced pressure principal device or air gap must be provided to protect the potable water system. (4-7-11)

c. Equipment and Facilities. Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps that have been or may be used with recycled water shall not be used with potable water or sewage. Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps that have been or may be used with sewage shall not be used with recycled water or potable water. (4-7-11)

**609. MUNICIPAL RECYCLED WATER: LAGOONS.**

**01. Requirements for Municipal Recycled Water Lagoons.** All new and existing lagoons for municipal recycled water shall comply with applicable provisions of IDAPA 58.01.16 "Wastewater Rules," Section 493. (4-7-11)

**02. Class A Recycled Water Lagoons.** Surface water features, such as landscape impoundments used for Class A recycled water, that are not lined or sealed to prevent seepage may be approved provided the ground water quality standards for ground water protection are met. (4-7-11)

**610. MUNICIPAL RECYCLED WATER: CLASS A RECYCLED WATER FILTRATION.**

**01. Class A Filtration Technology Approval.** The Department shall approve the following filter technologies for use in compliance with these rules: (4-7-11)

a. Those approved and listed in the State of California Treatment Technology Report for Recycled Water, [www.cdph.ca.gov/healthinfo/vironhealth/water/pages/waterrecycling.aspx](http://www.cdph.ca.gov/healthinfo/vironhealth/water/pages/waterrecycling.aspx). (4-7-11)

b. The Department may consider for approval filtration technologies other than those listed in the report referenced in Subsection 610.01.a. upon submission of a written request accompanied by all necessary product information. Approval of these filtration technologies shall be in accordance with procedures provided in the State of

California Treatment Technology Report for Recycled Water. (4-7-11)

**02. Filter to Waste Requirement.** The Department may require certain types of Class A recycled water filtration facilities to install and operate a filter to waste system that operates each time a filter starts up. Filter to waste systems shall automatically filter to waste until the effluent meets the required turbidity standard. (4-7-11)

**611. MUNICIPAL RECYCLED WATER: RELIABILITY AND REDUNDANCY.**

**01. Reliability and Redundancy Requirements.** The reliability and redundancy for all wastewater systems shall comply with the requirements in IDAPA 58.01.16 "Wastewater Rules." (4-7-11)

**02. Additional Reliability and Redundancy Requirements.** Following are additional reliability and redundancy requirements for Class A recycled water: (4-7-11)

**a.** Class A treatment systems shall have treatment capabilities able to treat peak day flow for the season in which Class A recycled water is being produced. (4-7-11)

**b.** Class A treatment systems shall also provide for one (1) of the following alternative back-up systems: (4-7-11)

**i.** Another permitted disposal option; or (4-7-11)

**ii.** Diversion to adequate lined storage capable of storing Class A recycled water during a malfunction or emergency. (4-7-11)

**c.** An alternative back-up system must be automatically activated if turbidity exceeds or chlorine residual drops below the instantaneous required value for more than five (5) minutes, or if the alternative filtration/disinfection system is not achieving its required 5-log removal/inactivation of virus for more than five (5) minutes. The maximum number of times a facility could exceed on this basis is twice in one (1) week, both of which times are required to be immediately reported. Failure to report or exceeding more than twice in one (1) week are sufficient grounds for the Department to require the system to be shut down for inspection and repair. (4-7-11)

**d.** Class A redundant monitoring equipment and automatic by-pass equipment must be provided. (4-7-11)

**e.** Standby power sufficient to maintain all treatment and distribution works or to meet the requirements for an alternative back-up system shall be required for the Class A recycled water facilities. (4-7-11)

**612. DEMONSTRATION OF TECHNICAL, FINANCIAL, AND MANAGERIAL CAPACITY OF MUNICIPAL REUSE FACILITY.**

**01. Compliance with Wastewater Rules Required.** All reuse facilities shall comply with applicable provisions of IDAPA 58.01.16 "Wastewater Rules," Section 409. (4-7-11)

**02. Exclusion.** New Class A recycled water systems which are public utilities as defined in Sections 61-104 (Corporation), 61-124 (Water System), 61-125 (Water Corporation), and 61-129 (Public Utility), Idaho Code, are governed by and must meet the regulatory requirements of Chapter 1, Title 61, Idaho Code, Public Utilities Law, and IDAPA 31.01.01, "Rules of Procedure of the Idaho Public Utilities Commission." In any conflict arising out of the application of these rules and IDAPA 31.01.01, the provisions and requirements of the Idaho Public Utilities Commission shall prevail. (4-7-11)

**613. REUSE FACILITY: RAPID INFILTRATION SYSTEM.**

Rapid infiltration systems shall be designed such that the beneficial uses of the waters of the state will not be injured. Prior to construction of a new recycled water system that includes as treatment rapid infiltration systems all plans and specification shall be submitted to and approved by the Director before construction can begin. The Preliminary Engineering Report shall include the parameters for the design of the rapid infiltration systems. (4-7-11)

**01. Design and Construction.** Following are the design and construction criteria for rapid infiltration systems: (4-7-11)

**a.** The system shall be designed to allow a relatively high rate of recycled water infiltration into the soil followed by rapid percolation; (4-7-11)

**b.** The system shall consist of either two (2) or more cells which can be alternately loaded and rested, or one (1) cell preceded by an effluent storage or stabilization pond system. Where only one (1) cell is provided, the storage and stabilization pond(s) shall have sufficient capacity to allow intermittent loading of the rapid infiltration systems; (4-7-11)

**c.** The rapid infiltration system shall be designed to provide even distribution of the recycled water and prevent erosion; (4-7-11)

**d.** The system shall be designed to ensure that the subsurface soils have the capacity to transmit the applied recycled water down and away from the basins at an acceptable rate to avoid excessive water mounding beneath the basin that would interfere with infiltration at the basins surface; and (4-7-11)

**e.** The system shall be designed to ensure proper operation during the winter conditions in cold climate areas. (4-7-11)

**02. Discharge Requirements.** Following are the discharge requirements for recycled water discharged to a rapid infiltration system: (4-7-11)

**a.** The discharge to a rapid infiltration system may not exceed the hydraulic, organic, nitrogen, suspended solids or other limitations specified in the permit or plans developed pursuant to a permit requirement. In determining discharge limitations, the Department shall consider past operating performance, the ability of the soils to treat the pollutants in the recycled water, hydrogeologic characteristics of the site such as permeability and infiltration rates, and other relevant information; and (4-7-11)

**b.** Compliance with IDAPA 58.01.11, "Ground Water Quality Rule," and IDAPA 58.01.02, "Water Quality Standards" shall be ensured. (4-7-11)

**614. GROUND WATER RECHARGE: CLASS A RECYCLED WATER.**

All ground water recharge systems shall comply with IDAPA 58.01.11, "Ground Water Quality Rule." The minimum requirements for site location and aquifer storage time shall be based on site-specific modeling and any source water assessment zone studies for public drinking water wells in the area. The owners of these systems must control the ownership of this down gradient area to prohibit future wells from being drilled in the impact zone of the ground water recharge system. Authorization from the Idaho Department of Water Resources is required for ground water injection wells. (4-7-11)

**615. SUBSURFACE DISTRIBUTION OF RECYCLED WATER.**

**01. Subsurface Use of Recycled Water.** The subsurface distribution and use of recycled water must be designed and located so that compliance with IDAPA 58.01.11, "Ground Water Quality Rule," is maintained and pollutants cannot be reasonably expected to enter waters of the state in concentrations resulting in injury to beneficial uses. In addition, the subsurface distribution and use of recycled water shall comply with these rules, and with applicable IDAPA 58.01.03, "Individual/Subsurface Sewage Disposal Rules." (4-7-11)

**02. Design and Construction.** (4-7-11)

**a.** The system shall be constructed to prevent surface runoff from entering the system. (4-7-11)

**b.** Precautions shall be taken during construction of the subsurface distribution system to minimize compaction and prevent a reduction in soil infiltration rate. (4-7-11)

**c.** Erosion control measures shall be taken during construction to prevent erosion of soil into surface



water. (4-7-11)

**03. Discharge Limitations.** (4-7-11)

**a.** Prior to discharge to a subsurface system, the wastewater shall be treated such that the recycled water is Class A, B, C or D quality. (4-7-11)

**b.** The discharge to a subsurface distribution system may not exceed the hydraulic, organic, nitrogen, or other limitations specified in a permit or plans developed pursuant to a permit requirement. The Department shall consider past operating performance, the ability of the soils to treat the pollutants in the discharge, hydrogeologic characteristics of the site such as permeability and infiltration rates and other relevant information. (4-7-11)

**616. PERMIT FOR USE OF INDUSTRIAL RECYCLED WATER.**

Industrial recycled water shall only be used in accordance with a permit issued pursuant to these rules. Permit conditions and limitations shall be developed by the Department on a case-by-case basis taking into account the specific characteristics of the wastewater to be recycled, the treatment necessary to ensure the use of such recycled water is in compliance with IDAPA 58.01.11, "Ground Water Quality Rule," and IDAPA 58.01.02, "Water Quality Standards." Unless otherwise indicated in this section, the permit application, processing and issuance procedures provided in this rule shall apply to industrial reuse permits. (4-7-11)

**01. Additional Application Contents.** In addition to the requirements in Section 300 of these rules, a permit application for reuse of industrial recycled water shall include: (4-7-11)

**a.** The source of the water and the projected rates and volumes; and (4-7-11)

**b.** The chemical, biological, and physical characteristics of the industrial recycled water from each source. (4-7-11)

**02. Permit Content.** The Department shall include the requirements of Section 500, Standard Permit Conditions, in all permits issued for use of industrial recycled water. The Department shall develop additional permit conditions on a case-by-case basis considering the following factors: (4-7-11)

**a.** The risk to public health and the environment; (4-7-11)

**b.** The degree of public access to the site where the recycled water is used and the degree of human exposure anticipated; (4-7-11)

**c.** Any additional measures necessary to prevent nuisance conditions; (4-7-11)

**d.** Specific recycled water quality necessary for the intended type of reuse; and (4-7-11)

**e.** The means of application of the recycled water. (4-7-11)

**617. -- 699. (RESERVED)**

**700. PERMIT MODIFICATION.**

**01. Modification of Permits.** A permit modification may be initiated by the receipt of a request for modification from the permittee, or may be initiated by the Department if one (1) or more of the following causes for modification exist: (4-7-11)

**a.** Alterations. There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit. (4-7-11)

**b.** New standards or regulations. The standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was

issued. (4-7-11)

**c.** Compliance schedules. The Department determines good cause exists for modification of a compliance schedule or terms and conditions of a permit. (4-7-11)

**d.** Non-limited pollutants. When the level of discharge of any pollutant which is not limited in the permit exceeds the level which may cause an adverse impact to surface or ground waters. (4-7-11)

**e.** To correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions. (4-7-11)

**f.** When a treatment technology proposed, installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit. (4-7-11)

**02. Minor Modifications.** Minor modifications are those which if granted would not result in any increased hazard to the environment or to the public health. If a permit modification satisfies the criteria for “minor modifications,” the permit may be modified without issuance of a draft permit or public review. Minor modifications are normally limited to: (4-7-11)

**a.** The correction of typographical errors or formatting changes; (4-7-11)

**b.** Transfer of ownership or operational control, or responsible official; (4-7-11)

**c.** A change in monitoring or reporting frequency requirements, or revision of a laboratory method; (4-7-11)

**d.** Change compliance due date in a schedule of compliance, provided the new date does not exceed six (6) months; (4-7-11)

**e.** Change or add a sampling location; (4-7-11)

**f.** Change to a higher level of treatment without a change in end uses; (4-7-11)

**g.** Change in terminology; (4-7-11)

**h.** Removal of an allowed use; (4-7-11)

**i.** Correct minor technical errors, such as citations of law, and citations of construction specifications; (4-7-11)

**j.** Change in a contingency plan resulting in equal or more efficient responsiveness; or (4-7-11)

**k.** Removal of acreage from irrigation without an increase in loadings. (4-7-11)

**03. Major Modifications.** All modifications not considered minor shall be considered major modifications. The procedure for making major modifications shall be the same as that used for a new permit under these rules. Some examples of the major modifications are: (4-7-11)

**a.** Changes in the treatment system; (4-7-11)

**b.** Adding an allowed use; (4-7-11)

**c.** Changes to a lower (less treated) class of water; (4-7-11)

**d.** Addition of acreage used for irrigation; or (4-7-11)

**e.** Changes to less stringent discharge limitations. (4-7-11)

**701. -- 799. (RESERVED)**

**800. PERMIT TRANSFERABLE.**

**01. General.** A permit may be transferred only upon approval of the Department. No transfer is required for a corporate name change as long as the secretary of state can verify that a change in name alone has occurred. An attempted transfer is not effective for any purpose until approved in writing by the Department. (4-7-11)

**02. Request for Transfer.** Either the permit holder (permittee) or the person to whom the permit is proposed to be transferee (transferee) shall submit to the department a request for transfer at least thirty (30) days before the proposed transfer date. The request for transfer shall include: (4-7-11)

**a.** Legal name and address of the permittee; (4-7-11)

**b.** Legal name and address of the transferee; (4-7-11)

**c.** Location and the common name of the facility; (4-7-11)

**d.** Date of proposed transfer; (4-7-11)

**e.** Sufficient documentation for the Department to determine that the transferee will meet the requirements listed in IDAPA 58.01.16 "Wastewater Rules," Section 409, relating to technical, financial and managerial capacity; (4-7-11)

**f.** A signed declaration by the transferee that the transferee has reviewed the permit and understands the terms of the permit; (4-7-11)

**g.** A sworn statement that the request is made with the full knowledge and consent of the permittee if the transferee is submitting the request; (4-7-11)

**h.** Identification of any judicial decree, compliance agreement, enforcement order, or other outstanding obligating instrument, the terms of which have not been met, along with legal instruments sufficient to address liabilities under such decree, agreement, order, or other obligating instrument; and (4-7-11)

**i.** Any other information the director may reasonably require. (4-7-11)

**03. Effective Date of Transfer.** Responsibility for compliance with the terms and conditions of the permit and liability for any violation associated therewith is assumed by the transferee, effective on the date indicated in the approved transfer. (4-7-11)

**04. Compliance with Permit Conditions Pending Transfer Approval.** Prior to a transfer approval, the permittee shall continue to be responsible for compliance with the terms and conditions of the permit and be liable for any violation associated therewith, regardless of whether ownership or operational control of the permitted facility has been transferred. (4-7-11)

**05. Transferee Liability Prior to Transfer Approval.** If a proposed transferee causes or allows operation of the facility under his ownership or control before approval of the permit transfer, such transferee shall be considered to be operating without a permit or authorization required by these rules and may be cited for additional violations as applicable. (4-7-11)

**06. Compliance Record of Transferee.** The director may consider the prior compliance record of the transferee, if any, in the decision to approve or disapprove a transfer. (4-7-11)

**801. TEMPORARY CESSATION OF OPERATIONS AND CLOSURE.**

**01. Temporary Cessation.** A permittee shall implement any applicable conditions specified in the permit for temporary cessation of operations. When the permit does not specify applicable temporary cessation conditions, the permittee shall notify the Director prior to a temporary cessation of operations at the facility greater than sixty (60) days in duration and any cessation not for regular maintenance or repair. Cessation of operations necessary for regular maintenance or repair of a duration of sixty (60) days or less are not required to notify the Department under this section. All notifications required under this section shall include a proposed temporary cessation plan that will ensure the cessation of operations will not pose a threat to human health or the environment. (4-7-11)

**02. Closure.** A closure plan shall be required when a facility is closed voluntarily and when a permit is revoked or expires. A permittee shall implement any applicable conditions specified in the permit for closure of the facility. Unless otherwise directed by the terms of the permit or by the Director, the permittee shall submit a closure plan to the Director for approval at least ninety (90) days prior to ceasing operations. The closure plan shall ensure that the closed facility will not pose a threat to human health and the environment. Closure plan approval may be conditioned upon a permittee's agreement to complete such site investigations, monitoring, and any necessary remediation activities that may be required. (4-7-11)

**802. -- 919. (RESERVED)**

**920. PERMIT REVOCATION.**

**01. Conditions for Revocation.** The Director may revoke a permit if the permittee violates any permit condition or these rules, or the Director becomes aware of any omission or misrepresentation of condition or information relied upon when issuing the permit. (4-7-11)

**02. Notice of Revocation.** Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee requests an administrative hearing in writing. The hearing shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure Before the Board of Environmental Quality." (5-3-03)

**03. Emergency Action.** If the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Director shall provide the permittee a revocation hearing and prior notice thereof. Such hearings shall be conducted in accordance with IDAPA 58.01.23, "Rules of Administrative Procedure Before the Board of Environmental Quality." (3-15-02)

**04. Revocation and Closure.** A permittee shall perform the closure requirements in a permit, the closure requirements of these rules, and complete all closure plan activities notwithstanding the revocation of the permit. (4-7-11)

**921. -- 929. (RESERVED)**

**930. VIOLATIONS.**

Any person violating any provision of these rules or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor. (4-1-88)

**931. -- 939. (RESERVED)**

**940. WAIVERS.**

Waivers from the requirements of these rules may be granted by the Director on a case-by-case basis upon full demonstration by the person requesting the waivers that such activities for which the waivers are granted will not have a detrimental effect upon existing water quality and beneficial uses are adequately protected. (4-7-11)

**941. -- 999. (RESERVED)**

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