

**ORDINANCE NO. 2854**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CORONA, CALIFORNIA, ADOPTING RECYCLED WATER USER RATES AND AMENDING THE RATE SETTING PROCEDURES CONTAINED IN THE RECYCLED WATER RULES AND REGULATIONS**

**WHEREAS**, the City Council adopted Resolution No. 99-88 on October 6, 1999, regarding Rules and Regulations for the use of recycled water; and

**WHEREAS**, the City Council adopted Ordinance No. 2547 on September 5, 2001, regarding the Rules and Regulations for the use of recycled water on properties not owned and facilities not operated by the City of Corona, and adopting a related addendum to the program environmental impact report the Recycled Water Master Plan and Market Study; and

**WHEREAS**, the City Council adopted No. Ordinance 2826 and Resolution No. 2006-63 revising the Rules and Regulations on May 17, 2006 to include the distribution and use of recycled water for landscape irrigation and other non-potable uses as they become available on public and/or private property. The revised Rules and Regulations replace Resolution No. 99-88 and Ordinance No. 2547 in their entirety.

**WHEREAS**, the City Council has determined that the Recycled Water Rules and Regulations require revision to Section 9.1 to clarify that recycled water rates must be set by ordinance and adopted by not less than a two-thirds (2/3) vote. The revised Rules and Regulations attached hereto as Exhibit "A" will replace the Recycled Water Rules and Regulations which were attached to Ordinance No. 2826 in their entirety.

**WHEREAS**, there are no private customers in the City receiving recycled water service which will be affected by the new recycled water rate proposed herein at the time this ordinance is adopted.

**WHEREAS**, the City Council has determined that the Recycled Water User Rates as set forth in the attached Exhibit "B" should be established.

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF CORONA, CALIFORNIA, DOES ORDAIN AS FOLLOWS:**

**SECTION 1.** The City hereby replaces, in their entirety, the Recycled Water Rules and Regulations which were attached to Ordinance No. 2826 with the Recycled Water Rules and Regulations attached hereto as Exhibit "A" in order to clarify that recycled water rates must be set by ordinance and adopted by not less than a two-thirds (2/3) vote pursuant to California health and Safety Code Section 5470 et seq.

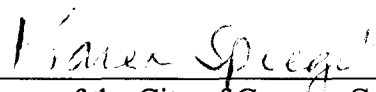
**SECTION 2.** The City Council hereby establishes, by not less than a two-thirds (2/3) vote, the Recycled Water User Fees to read as set forth in Exhibit "B" attached hereto and incorporated herein by reference.

**SECTION 3.** Exhibit "A" and Exhibit "B" attached hereto may be amended from time to time by ordinance in accordance with the requirements of applicable law.

**SECTION 4.** This Ordinance supersedes and voids all prior ordinances, resolutions, and other Council actions which are inconsistent with its terms.

**SECTION 5.** The Mayor shall sign this Ordinance, and the City Clerk shall attest thereto and shall with fifteen (15) days of its adoption cause it or a summary of it to be published in The Press Enterprise, a newspaper published and circulated in the City of Corona; and thereupon and thereafter this Ordinance shall take effect and be in force according to law.

**ADOPTED** this 20<sup>th</sup> day of September, 2006.

  
\_\_\_\_\_  
Mayor of the City of Corona, California

**ATTEST:**

  
\_\_\_\_\_  
City Clerk of the City of Corona, California

**CERTIFICATION**

I, VICTORIA J. WASKO, City Clerk of the City of Corona, California, do hereby certify that the foregoing Ordinance was regularly introduced at an adjourned regular meeting of the City Council of the City of Corona, California, duly held the 6th day of September 2006, and thereafter at a regular meeting thereof held on the 20th day of September 2006, it was duly passed and adopted by the following vote of the Council:

**AYES: MILLER, MONTANEZ, NOLAN, SPIEGEL, TALBERT**

**NOES: NONE**

**ABSENT: NONE**

**ABSTAINED: NONE**

**IN WITNESS WHEREOF**, I have hereunto set my hand and affixed the official seal of the City of Corona, California, this 20th day of September 2006.

  
\_\_\_\_\_  
City Clerk of the City of Corona, California

(SEAL)



**EXHIBIT "A"**

**CITY OF CORONA**  
**DEPARTMENT OF WATER AND POWER**  
**RECYCLED WATER RULES AND REGULATIONS**  
**FOR USE ON PUBLIC AND/OR PRIVATE PROPERTY**

Adopted May 17, 2006  
By Ordinance No. 2826

Revised September 20, 2006  
By Ordinance No. 2854

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## SECTION 1

### INTRODUCTION

#### 1.1 GENERAL

The City of Corona is primarily dependent on imported water for domestic, commercial and industrial uses. This imported supply is considered limited and its future reliability uncertain. In addition, transport of imported water requires tremendous energy input which constitutes a considerable portion of the total water cost to the end user. It is in the best interest of the City of Corona to promote and implement innovative water management strategies to conserve water and energy resources while still satisfying the water needs of its citizens.

On July 5, 2001, the Corona City Council adopted the Recycled Water Master Plan, which provides for the planning of wastewater reclamation facilities, fostering the use of recycled water, controlling its safe distribution, and permitting and regulating its use. On July 18, 2001, the City Council adopted Ordinance No. 2544 establishing general provisions related to use of recycled water (the "Recycled Water Ordinance"). The basis for the ordinance is California Water Code Section 13551, which states that the continued use of potable water for greenbelt irrigation and certain other non-domestic water uses is an unreasonable use of water if recycled water is available and suitable for such purposes.

The use of water recycled from domestic or municipal sewage is regulated by the California Regional Water Quality Control Board (RWQCB). California Water Code Section 13551 establishes a state policy to encourage the use of recycled water. Permission to use recycled water is based on the ability to adequately treat domestic wastewater to the point that the recycled water (effluent) meets the requirements of Title 22, Chapter 3 regulations of the California Code of Regulations. Title 22 was promulgated by the State Department of Health Services to ensure proper health protection and specify the degree of treatment to match the intended applications.

With the adoption of the Recycled Water Ordinance and in accordance with Section 13.28.040(c) of the Municipal Code, the following Rules and Regulations have been developed to govern the distribution and use of recycled water for landscape irrigation and other non-potable uses as they become available.

These regulations address the application of recycled water for irrigation and construction use. Other proposed uses will be reviewed on a case-by-case basis by the Director and the regulatory agencies. In all cases, the City's approval of any proposed use will be contingent upon the proposed use being acceptable to the regulatory agencies. Only those uses specified in the User Agreement are authorized uses.

## **1.2 POLICY**

It is the policy of the City of Corona that recycled water be used for any purpose or project approved for recycled water use, when it is economically, financially and technically feasible, as mandated by the Recycled Water Ordinance. Use of potable water for non-domestic uses shall be contrary to the City policy, shall not be considered the most beneficial use of a natural resource and shall be avoided to the maximum extent possible.

The distribution and use of recycled water shall be consistent with the standards and requirements of regulatory agencies for the protection of public health and welfare, and the preservation of the quality of the environment.

All offsite facilities are the responsibility of the Director and shall be under the management and control of the City. Only the Director and those authorized by the Director shall have any right to operate said system and/or property in any manner. The Director shall be responsible for the operation of the offsite distribution system and for the surveillance of all users. Users shall be responsible for the quality assessment of recycled water as it relates to compliance with requirements of the regulatory agencies.

The City reserves the right to take any action with respect to the operation of the recycled water system and at such time as it deems proper to safeguard public health.

## **1.3 PURPOSE**

The Rules and Regulations set forth herein pertain to recycled water service provided by the City of Corona within the City's service area. These Rules and Regulations establish procedures for the distribution and use of recycled water on public and/or private property.

The City shall enforce these regulations in all matters concerning the use of any recycled water and/or recycled water service. Each and every condition and requirement with respect to the use, connection, disconnection, reconnection, and/or discontinuance of recycled water and/or recycled water service provided by and set forth in these regulations, shall apply with equal force and effect to any person, persons, or firm, public or private. There shall be no deviation from these regulations except upon authorization by the City, who will act at all times within any and all regulatory agency constraints. An approved standard appeals procedure shall be provided and action of the Council shall be final.

These regulations may be amended by Council resolution at any regular or special meeting for cause determined by the Council or City staff, and without the approval of any user or owner. These Rules and Regulations shall be interpreted in accordance with the purposes, policy, and intent of the Recycled Water Ordinance and the definitions set forth in Section 2 herein. Moreover, any amendments so made are immediately incorporated by these regulations and will be administered as such. Insofar as these regulations are based upon portions of the California Code of Regulations, Title 17 and Title 22, any amendments to those documents are hereby also immediately incorporated by these regulations. These regulations shall take precedence when requirements contained herein are more stringent than those specified in Federal, State or local governing codes, rules and regulations.

Recycled water service from the City is subject to the availability of facilities and adequate capacity in these facilities to move recycled water to the location of the proposed use.

It is the general intent of the City to provide recycled water to all service areas in the City identified in the Recycled Water Master Plan and subsequent additions, revisions or updates of the plan, herein referred to as "Master Plan". It is the intent of the City that existing owners of property, identified in the Master Plan as being potential users within areas designated for recycled water use, qualify for a recycled water use permit from the City in accordance with these Rules and Regulations.

Insofar as these Rules and Regulations support portions of the California Code of Regulations, Title 22, any amendment of the California Code of Regulations which may be pertinent to these Rules and Regulations shall be incorporated accordingly.

#### **1.4 GOALS**

Because recycled water is considered unsafe for human consumption, it is important that these Rules and Regulations contain provisions, which minimize or eliminate the possible misuse of the recycled water.

Recycled water shall be distributed and used in a manner that meets all Federal, State, and local requirements and shall be distributed and used to achieve the following:

- a. Prevent direct human consumption of recycled water through:
  - i. Adherence to all applicable rules and regulations.
  - ii. Posting of warning signs by the user.
  - iii. Establishment of a cross-connection/backflow prevention program.
- b. Control run-off and ponding of recycled water at all times by controlling the installation and operation of the systems using recycled water.
- c. Prevent contamination of potable water supplies.
- d. Isolate contamination by other sources, such as wastewater, sludge, urban run-off, or other substances, which may come into contact with the recycled water.

*The use of gray water is expressly excluded from these Rules and Regulations.*

## SECTION 2

### DEFINITIONS

The terms hereinafter set forth, unless otherwise specified, shall have the following meanings:

**AEROSOL:** (see WINDBLOWN SPRAY).

**AIR-GAP SEPARATION:** A physical separation between the free-flowing discharge end of a water supply pipeline and an open or non-pressure receiving vessel. The separation shall be at least double the diameter of the supply pipe, measured vertically above the overflow rim of the vessel, and in no case less than one inch. The design shall be to the satisfaction of the City of Corona.

**AMERICAN WATER WORKS ASSOCIATION (AWWA):** The American Water Works Association California-Nevada Section.

**APPLICANT:** Any person, firm, corporation, association, agency or authorized representative who applies for recycled water service under the terms of these Rules and Regulations.

**APPLICATION RATE:** The rate at which recycled water is applied to an irrigation or construction area expressed in inches per hour (or cm/hr).

**APPROVED BACKFLOW PREVENTER:** A device installed to protect the potable water supply from contamination by recycled water as approved by California State Health Services Department and the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, School of Engineering.

**APPROVED CHECK VALVE:** A watertight semiautomatic device which seats readily and completely and is designed to permit flow in only one direction, as approved by California State Health Services Department and the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, School of Engineering (USC).

**APPROVED DOUBLE CHECK VALVE ASSEMBLY (DC):** An assembly of at least two independently acting approved check valves including tightly closing shutoff valve assemblies on each side of the check valve assembly and test cocks available for testing the water tightness of each check valve as approved by California State Health Services Department and the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, School of Engineering.

**APPROVED USE:** The use of recycled water in a manner, and for such purpose, as is designated in a recycled water permit issued by the City and in compliance with any and all applicable regulatory agency requirements.

**APPROVED USE AREA:** A site, with well-defined boundaries, designated in a recycled water permit issued by the City to receive recycled water for an approved use.

**AS-BUILT DRAWINGS:** (see RECORD DRAWINGS).

**AUTOMATIC SYSTEM:** An electronic, electrical or mechanical system which includes automatic controllers, valves, and associated equipment required for the programming of effective water application rates when using recycled water.

**BACKFLOW:** A condition which results in the flow of water into City pipelines from a source other than an approved water supply.

**BUILDING INSPECTION DEPARTMENT:** The City of Corona's Building Department.

**CAPACITY CHARGE:** A one-time charge determined from the Schedule of Rates of the City, and payable by the customer for obtaining recycled water. The purpose of this charge is for the expansion of recycled water facilities to accommodate future growth.

**CITY:** The City of Corona Department of Water & Power.

**CITY COUNCIL:** The City Council for the City of Corona.

**CITY MANAGER:** The City Manager of the City of Corona or his/her designee.

**COMMERCIAL USE:** The use of recycled water for toilets, urinals, decorative fountains, landscape irrigation and other related uses.

**CONNECTION FEE:** A charge imposed by the City for establishing or reestablishing recycled water service, including construction and/or installation of offsite facilities.

**CONSTRUCTION USE:** The approved use of recycled water to support construction activities such as soil compaction and dust control during grading.

**CONTRACTOR:** A person, persons, or firm entering into a legal agreement with the owner, customer, or the City for the performance of work on all or any portion of facilities subject to these regulations.

**COUNTY:** The County of Riverside, California.

**CROSS-CONNECTION:** Any unprotected connection between any part of a potable water system and a recycled water system, and/or between any part of a recycled water system and other sources such as sewers and sludge force mains, whereby contamination may enter either the potable water or recycled water system.

**CUSTOMER:** Any person, firm, corporation, association, or agency that holds a valid recycled water permit issued by the City for use of recycled water.

**DESIGN AREA:** (see APPROVED USE AREA).

**DESIGNATED USE AREA:** The area covered by the recycled water permit.

**DESIGNEE:** The authorized representative designated by the General Manager of Corona Department of Water & Power.

**DEPARTMENT OF HEALTH SERVICES (DHS):** The State Department of Health Services of the State of California.

**DIRECTOR:** The General Manager of Corona Department of Water & Power or his/her authorized representative (designee).

**DIRECT BENEFICIAL USE:** The use of recycled water, which has been transported from the point of production to the point of use without an intervening discharge to waters of the State.

**DISCHARGE:** Any release or distribution of recycled water to a sewerage system, or storm drain system.

**DRAWINGS:** The plans, working drawings, detail drawings, profiles, typical cross sections and supplemental drawings or reproductions thereof, approved by the director or designee, which show locations, character, dimensions or details of the work.

**GPH:** The rate of recycled water delivery in gallons per hour.

**GPM:** The rate of recycled water delivery in gallons per minute.

**GRAY WATER:** Untreated wastewater other than toilet and/or urinal wastes.

**GREENBELT AREAS:** Parcels of recreational or unoccupied public or private lands within the service area, including but not limited to golf courses, cemeteries, parks and landscaping of common areas within the service area.

**HCF:** The unit of water quantity measurement delivered to the user in hundreds of cubic feet.

**INDUSTRIAL PROCESS WATER:** Water used in industrial facilities for rinsing, washing, cooling, circulating, or construction.

**INFILTRATION RATE:** The rate at which water will penetrate the soil surface and enters the soil profile, expressed in inches per hour (or cm/hr).

**INSPECTOR:** Any person authorized by the City to perform inspections of either onsite or offsite facilities or areas prior to construction, during construction, after construction and during operation.

**LANDSCAPE IMPOUNDMENT:** A body of water which is stored or used for aesthetic enjoyment or which otherwise serves a function not intended to include bodily contact.

**MUNICIPAL CODE:** The Municipal Code of the City of Corona.

**NON-POTABLE WATER:** Water that has not been treated for, or is not acceptable for, human consumption in conformance with Federal, State and local water standards.  
Non-potable water includes recycled water.

**NON-RESTRICTED RECREATIONAL IMPOUNDMENT:** An impoundment of water in which no limitations are imposed on body-contact water sport activities.

**OFFSITE FACILITIES:** Facilities under the control of the City including, but not limited to, recycled water transmission mains, recycled water pipelines, reservoirs, pumping stations, treatment plants, and other appurtenances and property. For recycled water service, offsite facilities shall be those upstream of the point of connection with the customer's onsite facilities, which typically start at the downstream end of the meter tailpiece.

**ONSITE FACILITIES:** The facilities under the control of the applicant, owner or customer including, but not limited to, landscape irrigation systems and agricultural irrigation systems. For recycled water service, the onsite facilities shall be those downstream of the recycled water service connection, which shall normally be the downstream end of the meter tailpiece.

**ONSITE SUPERVISOR:** (see RECYCLED WATER SUPERVISOR)

**OPERATIONS PERSONNEL:** Any employee of the user, owner, or customer, whether permanent or temporary, or any contracted worker whose regular or assigned work involves the supervision, operation, or maintenance of equipment, facilities, or a system using recycled water.

**PANTONE:** A color standard system referenced in the American Water Works Association California-Nevada Section Guidelines for Distribution of Non-potable Water.

**PERMIT:** (see USER PERMIT)

**PERMITTED CAPACITY OF RECYCLED WATER:** The amount of recycled water that the user is entitled to have for the area and use specified in the recycled water user permit.

**PLANNING DEPARTMENT:** The Planning Department of the City of Corona.

**POINT OF CONNECTION (POC):** The point of connection of the onsite facilities to the offsite facilities of the recycled water distribution system.

**PONDING:** The retention of recycled water on the surface of the ground or other manmade surfaces, other than the designated use area, for a period of time following the cessation of an approved recycled water use activity such that a hazard or potential hazard to public health results.

**POTABLE WATER:** Water that is pure, wholesome and suitable for human consumption, and which conforms to the latest edition of the U.S. Public Health Service Drinking Water Standards, the California Safe Drinking Water Act, and any other applicable standards.



**RECORD DRAWINGS:** Approved Mylar drawings that correctly show the completed onsite facilities and/or offsite facilities as constructed or modified. These drawings shall show all potable water, recycled water and sewer lines, and other utility lines.

**RECREATIONAL IMPOUNDMENT:** A body of water used for recreational activities including, but not limited to, fishing, boating, and/or swimming. Allowable uses will depend on treatment level of the recycled water.

**RECYCLED WATER:** Shall have the definition set forth in Title 22, Division 4 of the California Code of Regulations and shall mean water which, as a result of treatment of wastewater, is suitable for a direct beneficial use or a controlled use that otherwise would not occur. Specifically excluded from this definition is gray water.

**RECYCLED WATER DISTRIBUTION LINES:** Recycled water pipelines and appurtenances acquired or constructed and owned by the City, and used for the conveyance of recycled water between the recycled water transmission mains and the individual recycled water service lines.

**RECYCLED WATER FACILITIES:** Systems, structures, etc., used in the treatment, storage, pumping, transmission and distribution of recycled water.

**RECYCLED WATER SERVICE CONNECTION:** The point of connection (POC) of the customer's onsite facilities with the recycled water service line of the City (offsite facilities), which shall normally be the downstream end of the recycled water meter tailpiece.

**RECYCLED WATER SERVICE LINE:** The City's pipeline between its recycled water distribution system and the recycled water service connection.

**RECYCLED WATER SUPERVISOR:** Individual designated by the user who oversees the use of recycled water on the user's site. The individual must have completed a City approved Recycled Water Supervisor Program.

**RECYCLED WATER TRANSMISSION MAINS:** Major recycled water pipelines and appurtenances acquired or constructed and owned by the City, and used for the conveyance of recycled water between the water reclamation plant and pump station, reservoir, and/or the recycled water distribution mains.

**REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE (RPPD):** A backflow preventer incorporating not less than two check valves, an automatically operated differential relief valve located between the two check valves, a tightly closing shut-off valve on each side of the check valve assembly, and equipped with necessary test cocks for testing as approved by the California State Health Services Department and the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California, School of Engineering (USC).

**REGULATORY AGENCIES:** Those public entities legally constituted by Federal, State, and local statutes to protect public health and water quality.

**RESTRICTED RECREATIONAL IMPOUNDMENT:** A body of recycled water in which recreation is limited to fishing, boating, and other non-body-contact water recreation activities.

**RETROFIT:** To change or modify in part or whole the existing plumbing of an onsite potable water system in order to serve recycled water.

**RUNOFF:** The movement of recycled water beyond the boundaries of the designated use area along the surface of the ground or other natural or man-made surfaces including, but not limited to, pedestrian walkways, streets, playground surfaces, grassy slopes and drainage courses.

**RWQCB:** The Regional Water Quality Control Board of the State of California, Santa Ana Region.

**SCHEDULE OF RATES:** A schedule containing fees, charges, and deposits determined and issued by the City for the uses and services of recycled water.

**SEPARATION:** The horizontal and/or vertical distance between a recycled water pipeline and potable water pipeline, sewer pipeline, or a sludge force main. The separation shall be the clear out-to-out distance between the pipelines in question.

**SERVICE AREA:** All areas identified for recycled water use in the Water Reclamation and Reuse Conceptual Master Plan, and the Recycled Water Distribution Master Plan, including all subsequent revisions and updates for use of recycled water within the Corona service area.

**SITE SUPERVISOR:** (See RECYCLED WATER SUPERVISOR)

**SPRAY IRRIGATION:** Application of recycled water to land to maintain vegetation or support growth of vegetation by spraying it from sprinklers or orifices in piping.

**SSPWC:** The latest edition of the Standard Specifications for Public Works Construction, including the Regional Supplement Amendments of the County of Riverside, commonly known as the "Green Book".

**SUPPLEMENTAL SUPPLY:** The use of the public potable water system as a backup or supplemental source of water for a dual-plumbed recycled water system. Such use will be allowed only when the connection between the two systems is protected by an air gap separation which complies with the requirements of sections 7602(a) and 7603(a) of title 17, California Code of Regulations, and the approval of the public water system has been obtained.

**SURFACE IRRIGATION:** Application of recycled water by means other than spraying.

**UNAUTHORIZED DISCHARGE:** Any release of recycled water that violates these Rules and Regulations or any applicable Federal, State, or local statutes, regulations, ordinances, contracts or other requirements.

**USER:** Any individual or entity responsible for handling and use of recycled water.

**USER PERMIT OR RECYCLED WATER PERMIT:** A permit issued by the City to a recycled water service applicant after the satisfactory completion of the service application procedures set forth in these Rules and Regulations and in the Recycled Water Ordinance (Chapter 13.28 of the Municipal Code). This permit constitutes a service agreement, which legally binds the user to all conditions of these Rules and Regulations.

**USER'S RECYCLED WATER SUPERVISOR:** A person designated and authorized by the user, owner, or customer and who shall be responsible for operating the onsite facilities and for the application of the guidelines, criteria, and standards of these Rules and Regulations. The designated supervisor shall be certified by the City to operate and maintain the onsite facilities, and to assume the responsibilities outlined in Section 5.2.2.

**WASTEWATER:** A combination of water and water-carried wastes, whether treated or untreated, discharged into or permitted to enter a public sewer.

**WINDBLOWN SPRAY:** Dispersed, airborne particles of recycled water resulting from the discharge of recycled water and capable of being transmitted through the air to locations other than those for which the direct application of recycled water was intended.

## SECTION 3

### RECYCLED WATER SERVICE REQUIREMENTS

#### 3.0 GENERAL

It is the intent of the City that recycled water service be provided in accordance with these Rules and Regulations to all areas identified in the Recycled Water Master Plan and subsequent updates, additions, revisions, or amendments for the use of recycled water, as and when such recycled water becomes available.

#### 3.1 SERVICE CONDITIONS

The City shall control and schedule recycled water distribution to customers. The provision of recycled water service and the use of recycled water by any customer shall be subject to all the terms and conditions of these Rules and Regulations and the Recycled Water Ordinance (Chapter 13.28 of the Municipal Code).

#### 3.2 EXISTING WATER SERVICE CUSTOMERS [RESERVED]

#### 3.3 NEW DEVELOPMENT [RESERVED]

#### 3.4 EXISTING CUSTOMERS SEEKING TO ALTER OR REMODEL [RESERVED]

#### 3.5 APPLICATION PROCEDURE

##### 3.5.1 Filing Application for Recycled Water Service

The applicant shall meet with the City at the earliest possible date to determine whether the design area is within the City's service area. At this time the availability of recycled water and the proximity of the site to the offsite recycled water system will be reviewed. Feasibility acceptance must be obtained prior to making formal application for recycled water service.

An applicant meeting the requirements for recycled water service who would like recycled water service, or who is otherwise required to obtain a recycled water permit pursuant to the requirements of these Rules and Regulations, the Recycled Water Ordinance or other applicable laws, shall file an application for recycled water use with the Corona Department of Water & Power. The application form shall contain detailed information concerning the applicant as follows:

- a. The applicant's relationship to the property for which recycled water service is requested. In cases where the applicant is not the legal owner of the property, the legal owner shall consent to the application on a supplemental notarized form.
- b. The address and legal description of the property covered by the application.
- c. The purpose for which the property is or will be used.
- d. The proposed use of recycled water within a specifically defined designated use area on the property.
- e. The estimated service requirements for recycled water.
- f. The designation of a proposed User's Recycled Water Supervisor.
- g. Any special condition for service pursuant to these Rules and Regulations.

The application form, signed by the owner, shall be accompanied by plans and specifications per Section 4.5 delineating the proposed recycled water designated use area, the proposed location, size, and type of all recycled water service connections and onsite facilities, and any areas in which recycled water must be specifically excluded.

#### 3.5.2 Compliance of Application with Regulatory Requirements

The applicant for recycled water shall agree to comply with the requirements of these Rules and Regulations and any and all applicable Federal, State and local statutes, ordinances, regulations and other requirements.

#### 3.5.3 Application Fees and Other Charges

Application fees, deposits, and capacity charges shall be paid in accordance with the schedule of rates of the City and shall be subject to all terms and conditions of these Rules and Regulations.

#### 3.5.4 Review of Application by the City

Upon receipt of an application for recycled water service, the City shall review the application and conduct any necessary investigation in order to determine whether the City will provide recycled water service. The City may prescribe requirements in writing to the applicant as to the facilities necessary to be constructed including design, manner of construction, method of operation and conditions of service.

## 3.6 PERMITS

### 3.6.1 Permit Issuance

The City shall issue a recycled water permit (user permit) following approval of the customer's application. The recycled water permit shall incorporate all the provisions of these Rules and Regulations by express reference, and any additional requirements prescribed by the City, to protect public health and welfare.

The City shall review the plans for the on-site recycled water system, (see Section 4.5), and shall conduct a field inspection before a permit is granted. The recycled water permit shall become effective only after all construction of recycled water facilities has been completed, tested, and inspected, and the City determines the applicant is in compliance with all permit conditions.

The recycled water permit shall specify all allowable uses of recycled water and all restrictions thereon.

The recycled water permit shall state the capacity of recycled water to be provided to the customer under the permit, and shall contain the express condition that delivery of the full capacity is subject to the City's supply capabilities. The City shall make a good faith effort to supply full permitted capacity, but shall be held harmless in the event that such a volume is not available for any reason, including, but not limited to, reduced plant production, increased demand, repairs to facilities, or regulatory compliance.

A copy of the user's current recycled water permit must be available for review at all times, clearly posted at the use site, and/or on file at the user's office.

### 3.6.2 Permit Renewal

The use of a recycled water permit shall be effective for a period not to exceed four years. The City reserves the right to suspend or terminate the permit, or to modify its terms and conditions, if any of the following occurs:

- a. A change of the owner or user of the property covered by the permit.
- b. A change in the use of the property covered by the permit.
- c. A change in the qualitative characteristics of recycled water.
- d. A violation of these Rules and Regulations and/or other applicable regulations.
- e. A change in Federal or State regulations.

### **3.7 ESTABLISHING SERVICE**

#### **3.7.1 Request for Service Connection**

Following the completion of construction and/or installation of the recycled water facilities as applicable, the customer shall request the City to install the service connection.

The request for service connection shall be accompanied by all required fees for installation and connection as indicated in the current schedule of rates and as appropriate for the size and type of service.

#### **3.7.2 Request for Service Start-Up**

Following final acceptance of the onsite facilities by the City, the customer shall request service start-up. The request for start-up shall be accompanied by any outstanding cash payments as per the current schedule of rates in addition to those indicated in Section 3.5.3.

#### **3.7.3 Temporary Use of Potable Water**

At the discretion of the City, potable water may be made available to a customer on a temporary basis, until recycled water is made available. Before the customer receives temporary potable water, a recycled water permit must be obtained. Prior to commencement of recycled water service, an inspection of the onsite facilities shall be conducted by the City to verify that the facilities have been maintained and are in compliance with the recycled water permit. Upon verification of compliance, the customer shall request service start-up.

#### **3.7.4 Suspension of Service**

The City may suspend or terminate recycled water service at any time the recycled water at the terminal point of the City's reclamation plant does not meet the requirements of the regulatory agencies. Recycled water service would, in such cases, be restored when the recycled water meets the governing requirements at the terminal point of the treatment plant. In addition, an approved air gap separation must be used in any connection for temporary potable water.

### **3.8 CONDITIONS FOR RECYCLED WATER SERVICE**

Permits for recycled water service and any connections for service made, as provided in the permit issued under these Rules and Regulations, shall be subject to the following conditions:

#### **3.8.1 Adherence to Permit Conditions:**

Except as otherwise provided herein, all recycled water will be provided to the user in the quantity and according to the conditions specified in the Permit for Recycled Water Service.

### 3.8.2 Control of Facilities (Liability)

- a. The City shall control, maintain and repair recycled water service lines and meters. The user shall repair and maintain in good working condition the recycled water service connections and onsite facilities. The user shall implement a preventative maintenance program designed to ensure the continued operation of all system elements within the guidelines of these Rules and Regulations. The user shall be responsible for furnishing all maintenance and operations personnel with the system operating and maintenance instructions and record drawings to ensure proper system operation in accordance with system design and these regulations. At least one complete set of this information shall be kept onsite or in the nearest field office or maintenance building established by the user. The user is responsible for properly disseminating this information to all appropriate operations personnel. The City shall be entitled to inspect and test all connections and onsite facilities in the manner specified in Section 6.
- b. The City and its agents shall be indemnified and held harmless by the permit holder from and against all claims, damages, losses or expenses arising from the use of recycled water under the permit, from the use of facilities by which recycled water is conveyed, or from the inability or failure of the City to provide recycled water, except that the City shall retain liability for its established sole negligence or willful misconduct.

### 3.8.3 Extension of Distribution Mains.

Unless otherwise provided by written agreement between the Applicant and the City, the Applicant shall pay for all onsite facilities, including their installation, as well as for recycled water service lines and extension of recycled water transmission and distribution mains in order to provide recycled water service to the Applicant, in accordance with the provisions of these Rules and Regulations.

#### 3.8.3.1 Reimbursement Agreement.

In cases where an Applicant requests recycled water services in areas where the City does not have existing transmission and distribution mains, the Applicant's request for recycled water service shall be addressed as follows:

Where the City determines it is necessary to extend transmission and distribution mains to areas not included within a subdivision or area proposed by the Applicant in a permit application, or where the City determines that oversized or additional facilities may be needed to accommodate future development, the City may grant the recycled water permit contingent upon the Applicant financing and developing, at its sole cost and expense, such oversized service lines and facilities. In this event,



the City and Applicant may enter into a reimbursement agreement whereby City will either (i) directly reimburse Applicant for the Applicant's cost of the improvements, above what would normally have to be constructed or (ii) require subsequent Applicants benefiting from such improvements to pay to the City an amount, to be determined by the City Council in accordance with the common practice, which represents the subsequent Applicants' cost above what would normally have to be constructed. The City will then pay to the Applicant the amounts collected from the subsequent Applicants. A reimbursement agreement may, however, contain a provision stating that the City's obligation to either directly reimburse the Applicant or collect such amounts from subsequent Applicants pursuant to Section 3.8.3.1 shall expire in a given number of years from the date of execution of such reimbursement agreement.

#### 3.8.3.2 Participation Agreement.

In cases where the City intends to construct and develop a planned capital improvement project according to a planned timetable, and where the Applicant desires to undertake to complete such planned capital improvement project prior to the City's completion date, the Applicant and the City may enter into a participation agreement whereby Applicant shall agree to complete the planned capital improvement project in accordance with such design requirements and specifications of the City. The participation agreement shall provide for the equitable sharing of the costs of the capital improvement project between the Applicant and the City in accordance with such mutually agreed upon terms.

#### 3.8.4 Prohibition of Changes

Except for minor modifications for standard maintenance or emergency repairs, the customer shall not make any changes in or additions to the onsite recycled water system. Any proposed changes or alterations to the existing onsite facilities shall be approved by the City prior to implementation.

#### 3.8.5 Services to Common Areas

The City reserves the right to supply recycled water to contiguous areas of a single ownership through a single recycled water service connection.

Common areas owned or operated by homeowners' associations or similar cooperatives should have only one service connection whenever it is practical, and will be operated as a single ownership.

A recycled water service connection and water meter shall not be used to supply property not covered by the permit authorizing the connection.

### 3.8.6 Subdividing an Approved Service Area

- a. When a property provided with a recycled water service connection and water meter is subdivided, such connection and meter shall be considered as serving the lot or parcel of land on which the meter is located. Additional recycled water distribution mains and/or service lines will be required for all subdivided areas in accordance with these Rules and Regulations, unless the subdivider provides covenants, conditions, and restrictions (CC&R) properly recorded with the County Recorder for the operation of onsite recycled water facilities serving more than one lot.
- b. All recycled water shall be metered. Customers shall be charged at the current rate for the recycled water. All customers shall have and maintain the necessary permits for recycled water use as specified in Section 3.6.
- c. Every recycled water service connection and meter assembly shall include a curb cock or wheel valve, as approved by the City, on the inlet side of the meter, which shall be used exclusively by the City for controlling the recycled water supply through the recycled water service line. If the curb cock or wheel valve is damaged by the customer or the customer's use, repair and/or replacement by the City shall be at the customer's expense.

### 3.8.7 Temporary Discontinuation of Recycled Water Service

If real or potential hazards are evidenced at a site utilizing recycled water at any time, the City reserves the right and has the authority to terminate recycled water service without notice to the user in the interest of protecting public health until the situation is remedied.

By reason of circumstances beyond the control of the City, or in order to protect the facilities of the City, or for the protection of public health, safety and welfare of the residents or property owners of the City, recycled water service may be terminated under the conditions set forth below:

- a. On a temporary or permanent basis in the manner provided for in Section 11.2 and 11.3.
- b. On a temporary basis, at any time the recycled water at the terminal point of the City's water reclamation plant takeoff, does not meet the requirements of the regulatory agencies, including but not limited to those prescribed by the California Code of Regulations, Title 22, Division 4. Recycled water service would in such cases, be renewed at such time that recycled water at the terminal point of the water reclamation plant would again meet the requirements of the regulatory agencies or at such time that the City would supplement the recycled water system from the potable water system in the manner provided by Section 3.7.3.

- c. Whenever such action is warranted by the City pursuant to Section 13.28.070 of the Municipal Code or Section 11 of these Rules and Regulations.

#### 3.8.8 Conditions of Pressure and Service

Pressure and service shall be provided on an as available basis, at the location of the customer's meter. The City shall state the desirable pressure of the system in the department's design guide. All customers shall hold the City harmless from any and all damages and liabilities caused in whole or in part by pressure conditions, water quality variations, or interruptions in service. It shall be the owner's responsibility to install booster pumps to increase pressure if necessary.

### 3.9 **SIZE AND LOCATION OF SERVICE CONNECTIONS**

The City reserves the right to determine the size and location of recycled water service lines, service connections, and meters and shall also have the right to determine the kind and size of backflow prevention devices and any and all other appurtenances to the service.

The recycled water service lines shall be extended to a curb line, or property line of the customer's property, abutting upon a public street, highway, road, or City easement in which recycled water distribution mains are installed.

### 3.10 **ILLEGAL CONNECTIONS**

No person shall make any connection to recycled water facilities of the City without a permit from the City. Penalties for violations may be assessed according to Section 11 of these Rules and Regulations and/or Section 13.28.070 of the Municipal Code.

### 3.11 **METER TESTING**

Any customer may request that the meter through which the recycled water is being furnished be examined and tested by the City for the purpose of ascertaining whether or not it is correctly registering the amount of recycled water being delivered through it. In such an event, the customer shall make a request to the billing section of the City for a Meter Controversy Test. The meter testing shall be performed in conformance with the standards set by the City for potable water meters.

### 3.12 **CROSS-CONNECTION PREVENTION**

#### 3.12.1 Purpose

The primary purpose of this Section is to protect the City's potable water supply from possible contamination by prohibiting and preventing cross-connections between the potable water distribution system and the recycled water distribution system, in accordance with Title 17, Chapter 5 of the California Code of Regulations. The secondary purpose is to protect the recycled water system from other contaminants.

These provisions are in addition to, and not in lieu of, the controls and requirements of other regulatory agencies, such as the State Department of Health Services.

Cross-connections between the recycled water system and the potable water system, whether by design, construction practice, or system operation, are strictly prohibited.

### 3.12.2 Backflow Prevention

Regulations governing backflow prevention devices are intended to protect the City's potable water supplies and are not intended to protect users from potential hazards of cross-connections in the user's onsite facilities.

- a. City approved backflow prevention for the City's potable water supply shall be provided by the user in accordance with the specifications of, and as required by the Corona Department of Water & Power.
- b. Provision, installation, maintenance, and testing of backflow prevention devices shall be the sole responsibility and duty of the customer, and shall be done at the customer's expense. Testing of backflow prevention devices shall be done at least once a year, or more often, in those instances where successive tests indicate repeated failures. Defective devices shall be repaired or replaced at the expense of the customer. Devices that require repairs, replacement, or relocation must also be tested before putting them into service. A certified tester shall conduct testing. The customer shall submit to the City the original testing certificates as proof of compliance. The City shall keep records of tests and repairs, for a period of at least three years, and such records shall be made available to any concerned regulatory agency on request. All inspection and testing shall be done to the satisfaction of the City and the regulatory agencies concerned.

The installation and inspection of backflow prevention devices shall be done by a certified inspector at the expense of the customer. The customer shall submit to the City the original inspection certificates as proof of compliance. All inspection and testing shall be done to the satisfaction of the City and the regulatory agencies concerned.

### 3.12.3 Type of Protection

The level of protection required is relative to the degree of hazard that the City determines exists on the premises served. The following methods are listed in order of increasing levels of protection: no protection, single check valve, double check valve (DC), reduced pressure principle backflow prevention device (RPPD) and air gap separation (AG). The user may choose a higher level of protection than required by the City. Minimum types required, relative to various situations, are listed below. Situations not listed shall be evaluated on a case by case basis and the appropriate level of protection required shall be determined by the City in consultation with the State Department of Health Services. Backflow protection for the City's potable water system shall be provided at the water service connection.

### 3.12.3.1 Backflow Protection Situations

- 1) On premises having an auxiliary water supply such as recycled or non-potable water and there are no interconnections between the auxiliary system and the potable system, a RPPD shall be provided on the potable water service.
- 2) On premises where the City's potable water system is used to supplement the recycled water supply, an air gap separation shall be provided.
- 3) On premises where hazardous materials and toxic substances are stored, handled, or produced in any manner in which substances may enter both the potable water and the recycled water systems, an air gap separation to both systems shall be provided to avoid contamination of the potable water as well as degradation of the recycled water. A RPPD may be provided in lieu of an air gap if approved by the City and State DHS.

### 3.12.3.2 Color-Coding Dual or Multiple Water Systems

Where any property subject to recycled water service is served by or contains dual or multiple water systems and piping, the exposed portion of recycled water pipelines, valves, and other fittings shall be painted purple, banded or marked to distinguish clearly which is used for potable water and which is used for recycled water. (See also Section 4.2.6, Color-coding Exposed Recycled Water Facilities) In addition, all new unexposed recycled water pipes installed on any such property shall be similarly colored purple, banded and/or marked. All recycled water appurtenances and facilities shall be posted and/or tagged with bilingual precautionary signage with the wording "CAUTION: RECYCLED WATER – DO NOT DRINK", and "PELIGRO: AGUA IMPURA - NO BEBER". Main shut-off valves shall be clearly identified to distinguish between recycled water and potable water systems.

### 3.12.4 User's Designated Recycled Water Supervisor

The operation and surveillance of onsite systems shall be under the management of the onsite Recycled Water Supervisor designated by the user. A qualified person shall be assigned to supervise the use site. The use site supervisor shall attend a Recycled Water Class approved by SDHS. This supervisor or his representative shall be available during normal working hours, at an address listed with the City for the purpose of hosting an inspection tour or for discussing operational aspects of the system. The onsite supervisor or his representative shall be available via telephone at a number listed with the City for emergency off-hours contact.

The user's designated Recycled Water Supervisor, whose qualifications and responsibilities are discussed in Section 5.2.2, shall be responsible for the prevention of any cross-connections on the property, and in the event of a cross-connection to the

potable water system, the user shall immediately shut off the main recycled water supply valve and depressurize the recycled water system to prevent further mixing with the potable supply, and shall also immediately advise the City of the occurrence of the cross-connection. The local and State health officers shall be immediately advised by the City so that appropriate measures may be taken to control any contamination or pollution.

The user shall assume all responsibilities for the prevention of cross-connections between the on-site facilities and any potable water supply, and shall indemnify and hold the City harmless from and against any claim of damage or loss which is caused or is alleged to have been caused, in whole or in part, by cross-connections of on-site facilities. Notwithstanding this covenant, the user shall be subject to these Rules and Regulations pertaining to the use of recycled water as otherwise provided herein, including but not limited to, those allowing the City or the State Department of Health Services to inspect and approve all on-site recycled water facilities as specified in Sections 5.2.1. and 6.

### **3.13 CONVERSION TO/FROM RECYCLED WATER SERVICE**

#### **3.13.1 Conversion to Recycled Water Service**

Proposals to construct a new onsite recycled water system or to retrofit an existing potable or non-potable system to serve recycled water for irrigation purposes shall satisfy the requirements of these Rules and Regulations. Applicants that propose to use recycled water for industrial applications or for other special uses, may be required to supply additional information on a case-by-case basis.

When an applicant proposes the conversion of, or is required to convert, any existing potable water irrigation system to a recycled water irrigation system, the City may conduct a comprehensive investigation of the existing onsite facilities. The applicant shall cooperate with the City in its efforts to obtain information, review existing documents, and inspect the onsite facilities.

The City and/or the State Department of Health Services shall review the proposed retrofit drawings and investigation reports, and determine any measures necessary to bring the existing system into full compliance with these Rules and Regulations. The City and/or the State Department of Health Services may deny issuance of a recycled water use permit if either determines that the proposed conversion cannot be safely made.

#### **3.13.2 Conversion from Recycled Water Service**

If, due to onsite failure of the recycled water system, or use violations, the City determines it necessary to convert the onsite facilities from recycled water supply to a potable water system, or other water supply, it shall be the responsibility of the user to pay all costs for such conversion, unless determined otherwise by the City. Conversion costs may include but are not limited to the following:

- a) Isolation of the recycled water service supply by capping at the recycled water main, or abandoning the service in a manner approved by the City.

- b) Installation of approved backflow devices on all potable water meter connections.
- c) Removal and replacement of all fittings not suitable for use with potable water with fittings approved for use with potable water.
- d) Hydraulic testing and disinfection of the pipeline to be converted.
- e) Notification of all personnel involved with the operation of the abandoned recycled water service.
- f) Removal of all warning signs and labels.
- g) Provision and installation of all potable water lines and facilities and any capacity fees due, as provided for in these Rules and Regulations.

### **3.14 AUTHORIZED USES OF RECYCLED WATER**

The uses of recycled water may include, but are not limited to, landscape irrigation, agricultural irrigation, construction water, industrial process water, commercial use, groundwater recharge, enhancement of wildlife habitat, and recreational impoundment. Each such use must be considered for approval by the City on a case-by-case basis. Determinations as to specific uses to be allowed shall be in accordance with the standards set forth in Title 22, Division 4 of the California Code of Regulations. The City may, at its discretion, set forth specific requirements as conditions to providing such services and/or require specific approval from the appropriate regulatory agencies.

The use of recycled water in swimming pools is **not permitted**.

### **3.15 SCHEDULING RECYCLED WATER**

The City will control and schedule the delivery of recycled water if, in the opinion of the City, scheduling is necessary for purposes including, but not limited to, the maintenance of an acceptable working pressure in the recycled water system and the provision for reasonable safeguards in relation to public health.

### **3.16 TEMPORARY/EMERGENCY CONNECTIONS TO THE POTABLE WATER SYSTEM**

If, in the opinion of the City an emergency exists, or is threatened to occur, whereby all or a portion of the water in the recycled water system is not available, the City may approve a temporary connection to the potable water system. Such a temporary connection shall be made in accordance with Sections 4 and 5 of these Rules and Regulations. The decision to allow temporary service to the potable water system shall be at the sole discretion of the City as stipulated in Section 3.7.3, and the City shall maintain and operate all connections.

Before such temporary connection is made, the portion where potable water is to be supplied shall be isolated by an air gap separation from the remainder of the recycled water system. This isolation shall occur at either individual services or on the offsite system, as determined by the City. An approved backflow prevention device shall be installed on the potable water lines in accordance with Section 3.12 of these Rules and Regulations and all applicable regulations of the governing agencies. The emergency connection shall be removed before connection is re-established to the recycled water system. The disconnection to the potable water service and the re-connection to the recycled water service must be inspected and approved by a City inspector prior to resuming delivery of recycled water service.

On a case-by-case basis, the City of Corona and the State DHS may approve a temporary potable water connection for a customer's recycled water system without an air gap. Currently the only other approved connection is a Swivel Ell type connection, which is designed to allow only one water source to serve the customer's system at any given time. An approved backflow device must be installed on the potable water service prior to the customer's connection, in accordance with Section 3.12. At no time shall the potable water system be connected to a system simultaneously served by a non-potable source.

The City, at its own discretion, may provide potable water or disinfected raw water in lieu of recycled water.

### **3.17 ADDITIONAL RESTRICTIONS ON THE USES OF RECYCLED WATER**

#### **3.17.1 Run-off, Ponding and Overspray**

- a. The onsite facilities shall be designed to meet the peak moisture demand of all plant materials used within the design area and to apply irrigation water in a manner compatible with the infiltration rates of the soil types within the approved use area.

Conditions that directly or indirectly cause a run-off of recycled water outside of the approved recycled water use area; cause a ponding of recycled water; or permit windblown spray to pass outside of the approved use area, whether by design, construction practice, or system operation, shall be eliminated or controlled to the greatest extent possible with the use of the best practicable technology or methodology.

- b. The use of recycled water shall be limited to those uses permitted by federal and state law, and to those uses approved by the City for the recycled water service area.

#### **3.17.2 Protection of Drinking Fountains and Public Facilities**

All drinking fountains, food establishments, or public facilities such as picnic tables located within the approved use area shall be protected from contact with recycled water, whether by windblown spray, mist or by direct application through irrigation or other approved use. Lack of such protection, whether by design, construction practice or system operation, is strictly prohibited.



### 3.17.3 Hose Bibs and Quick Couplers

Hose bibs are prohibited on recycled water systems. The use of quick couplers is at the sole discretion of the City.

### 3.17.4 Fire Hydrants and Fire Services

Recycled water shall not be used to supply fire hydrants or fire services on any onsite system.

### 3.17.5 Irrigation or Impoundment of Recycled Water Near Wells

There shall be no irrigation with or impoundment of recycled water within 100 feet of any well used for potable supply, or 100 feet of any irrigation well unless it can be demonstrated to the satisfaction of the City and the regulatory agencies that special circumstances justify lesser distances to be acceptable.

### 3.17.6 Spray Irrigation

No spray irrigation of any recycled water, other than disinfected tertiary recycled water, shall take place within 100 feet of a residence or a place where public exposure could be similar to that of a park, playground, or schoolyard.

## SECTION 4

### FACILITIES DESIGN AND CONSTRUCTION

#### 4.1 DESIGN GUIDELINES FOR OFF/ONSITE FACILITIES

The design of offsite facilities, including the preparation of plans and specifications, shall be under the supervision of an engineer registered with the State of California. The design of the onsite facilities that will use recycled water and the preparation of plans and specifications, shall be under the supervision of a landscape architect, civil engineer or mechanical engineer registered with the State of California. All offsite and onsite recycled water facilities shall comply with the Guidelines for Distribution of Non-potable Water developed by the American Water Works Association (AWWA) California-Nevada Section, and the State Health Services Department Guidelines for Use of Recycled Water, and shall also comply with all the requirements, conditions and standards set forth in the current edition of the Standard Specifications for Public Works Construction including the Regional Amendments and City of Corona, and the Standard Drawings of the City of Corona, the City's Landscape Technical Manual, Park and Recreation Consultant's Guide, and the provisions of these Rules and Regulations, and other related design standards and construction specification guidelines.

The recycled water system, including both offsite and onsite facilities, shall be separate and independent of any potable water system. The City shall inspect the construction of all facilities that will use or receive recycled water to verify that the facilities are constructed in conformance with the approved drawings and these regulations.

#### 4.2 OFFSITE RECYCLED WATER FACILITIES

The City of Corona provides all offsite recycled water systems not subject to special assessments. Where extension of recycled water transmission mains or distribution mains is required to accommodate future development, the cost of extension shall be borne by the benefited property owners or the City as provided in Section 3.8.3.1 of these Rules and Regulations.

##### 4.2.1 Depth of Pipe Cover

Transmission/distribution mains shall be installed a minimum of 3 feet below the finished grade unless approved otherwise. The depth of cover on service lines shall be considered on a case-by-case basis in accordance with the City's Landscape Technical Manual.

##### 4.2.2 Separations

The following separation criteria apply between recycled water pipelines and other utility pipelines.

#### 4.2.2.1 Horizontal

A 10-foot separation of recycled water transmission/ distribution pipelines shall be maintained at all times between a potable water pipeline and/or a parallel sanitary sewer, a sewer force main or sludge pipeline. Separation distance shall be measured from the nearest edges of the facilities. If a 10-foot separation is not possible, the approval for special construction requirements shall be obtained from the City and the Department of Health Services prior to commencement of construction. Common trench construction shall not be permitted. In any event, a horizontal separation less than 4 feet shall not be allowed.

#### 4.2.2.2 Vertical

On new systems, potable water, recycled water, and sewer lines should be located from the ground surface in order of descending quality. Potable water shall be above recycled water which should be above sewer. Minimum vertical separation should be one foot between top and bottom surfaces of pipes. Exceptions to this general rule are as follows:

- a. On irrigation systems where intermittently pressurized recycled water lines (laterals) serve sprinkler heads, the potable water line(s) may be placed under the recycled water laterals. No special construction requirements are necessary provided that one-foot vertical separation is maintained.
- b. On sites using pressurized irrigation laterals with valve-in-head sprinklers, the potable water line(s) may be placed under the recycled water laterals if additional protection is provided for the potable line. Common practices include sleeving or automatic flow control/shut off devices installed and functioning properly on each lateral that crosses a potable line.

#### 4.2.3 Color Identification of Recycled Water Pipes

All new transmission/distribution mains in the recycled water system, including service pipelines, valves and other appurtenances shall either be colored purple and embossed or integrally stamped/marked "CAUTION: RECYCLED WATER - DO NOT DRINK", and "PELIGRO: AGUA IMPURA - NO BEBER", or be installed with a purple identification tape, and/or a purple polyethylene or vinyl wrap (see Section 4.2.5.).

Color-coded identification (caution) tape differentiating the recycled water piping from other utility lines shall be consistent throughout the service area. The purple color shall be Pantone 522.

When converting an existing potable water pipeline to recycled water usage the water pipeline shall be accurately located and tested in coordination with the City and the regulatory agencies, and the necessary actions taken to bring the water pipeline and appurtenances in compliance with these Rules and Regulations. If the existing pipeline meets approval of the City and the regulatory agencies, except for the pipe identification, the pipeline shall be approved for recycled water service. If verification of the existing pipeline is not possible, the pipeline shall be uncovered, inspected, and identified prior to use. However, all replacements of an offsite distribution and/or delivery system connected to a recycled water irrigation system shall be color-coded for identification in accordance with the provisions of these Rules and Regulations.

#### 4.2.4 Identification Tapes

Identification tapes for protection and identification of the pipeline shall be prepared with black printing on a purple field having the words "CAUTION: RECYCLED WATER - DO NOT DRINK", and "PELIGRO: AGUA IMPURA – NO BEBER" alternately on the tape.

Identification tapes shall be installed over the pipe longitudinally 2 feet below the finished surface and shall be centered over the pipeline. The identification shall be continuous in its coverage over the pipe. Additionally, in cases where pipe is not clearly marked for recycled water and not purple in color, i.e. ductile iron pipe, identification tape shall be fastened to each pipe length. Taping attached to sections of pipe before they are placed in the trench shall have overlaps sufficient for continuous coverage. Other satisfactory means of securing the tape during backfill of the trench may be used if suitable for the work, as determined by the City. Sample tape markings and the inscriptions that go with it are as shown in the following figure.

CAUTION: RECYCLED WATER - DO NOT DRINK

Alternating with

PELIGRO: AGUA IMPURA - NO BEBER

Sample Tape Marking

#### 4.2.5 Recycled Water Valve Castings and Covers

All valve covers on offsite recycled water transmission lines must have a recognizable inscription RW cast on the top surface. The inside of covers must be painted purple by using Pantone 522.

#### 4.2.6 Color-Coding Exposed Potable and Recycled Water Facilities

All potable and recycled water lines, services, risers and appurtenances located above grade shall be identified by either a paint band system or adhesive vinyl tape. Paint bands shall be 1-inch wide fusion bonded epoxy coating. Paint bands for the recycled water piping shall be purple in color. Paint bands for the potable water piping shall be blue in color. The paint bands shall be located a maximum of 10 feet apart. The paint shall be resistant to alkalis, acids, chipping, fading and moisture. The coating thickness shall be as recommended by coating manufacturer. Adhesive vinyl tape shall be resistant to alkalis; acids, sunlight and moisture and the tape width shall be a minimum of 3-inches. The tape shall be color-coded and imprinted with wording to identify the piping system. The tape shall be installed longitudinally along the pipe and spaced at a maximum of 10-foot intervals.

#### 4.2.7 Blow-off and Air and Vacuum Assemblies

Either in-line type or end-of-line type blow-off or drain assembly shall be installed for removing water or sediment from the pipe. Blow-off assemblies must be installed in a low point of the pipeline. The line tap for the assembly shall be no closer than 18 inches to a valve, coupling, joint, or fitting unless it is at the end of the line. The discharge from blow-offs should be designed to drain into a sewer. The discharge of recycled water to storm drains is restricted. If there is no sewer that can receive the discharge from a blow-off, the Regional Water Quality Control Board and the State DEH must be consulted regarding acceptable alternatives. All regulatory agency regulations must be strictly adhered to regarding the discharge and disposal of recycled water in a non-approved site area. Blow-off assemblies must be provided per Corona Standard. Air and vacuum valves must be provided in high points of the pipeline system and sized according to the manufacturer's recommendations. Air and vacuum valves must be provided per Corona Standard. All appurtenances for blow-off and air and vacuum valve assemblies must be consistently color-coded purple by using Pantone 522 and marked to differentiate recycled water facilities from potable water and/or wastewater facilities.

### **4.3 ONSITE RECYCLED WATER FACILITIES**

All onsite recycled water facilities which specifically benefit the approved use area shall be provided by the applicant, owner or customer at his/her expense unless an applicable retrofit agreement is in place. The customer shall make, at his/her expense, any modification to the potable water system on the premises which are required by the City in order to permit recycled water service, including but not limited to the installation by the customer of City approved backflow preventers. Onsite recycled water facilities shall be designed to accommodate the use

of recycled water in those areas where the City has determined that recycled water will be supplied in the future, even though recycled water service is not immediately available when the design area is ready for construction. Provisions shall be made for connection to the recycled water system when it becomes available. In the interim, potable water will be supplied to the onsite facilities through an approved temporary potable water connection in accordance with Section 3.7.3. Such temporary connection to the potable water system shall be provided with an approved reduced pressure backflow prevention device installed by the user to the satisfaction of the City and the Department of Health Services.

Plans and specifications for customer recycled water facilities shall be submitted to the City as specified in Section 4.5 of these Rules and Regulations.

#### 4.3.1 Pressure Requirements

Service pressure availability shall be determined by the City. The Applicant shall design on-site facilities for available pressure.

When a reasonable service pressure is not available to onsite facilities not previously served from the City potable water system, the user shall be responsible for correcting the situation by utilizing pressure regulators or booster pumps as necessary. Whenever possible, the City will operate the recycled water system at a lower pressure than the potable water system serving the same zone to minimize contamination in the event of a cross-connection.

##### 4.3.1.1 Booster Pumps:

Customers who use booster pumps to increase the operating pressure shall identify the pumping systems as recycled water, avoid release of recycled water in an uncontrolled manner, and provide a proper drainage of the packing seal water. At least one sign in English and Spanish shall be posted on the premises of the booster pumps, which can be readily seen by all operations personnel working in the area. The City may require a backflow prevention device to protect the recycled water distribution system from backpressure that may be caused by using booster pumps.

##### 4.3.1.2 Sealing Water

Potable water shall not be used as seal water for recycled water pump seals.

#### 4.3.2 Identification of Onsite Pipes and Fittings

All recycled water pipelines shall be identified by using a purple color code that differentiates them from potable water piping. New on-site recycled water pipelines shall utilize purple colored pipe.

All recycled water control devices shall be tagged with identification tags. Tags shall be weatherproof plastic with minimum dimensions of 2¼-inch by 2¾-inch, purple in color, with the words “RECYCLED WATER - DO NOT DRINK” and “AVISO - AGUA IMPURA - NO TOME” imprinted on one side and the international do not drink symbol on the other side as shown on Standard Detail RW-114, *Tag for Recycled Water*. Control devices shall be identified as noted on Standard Detail RW-114.

Approved use areas for recycled water service shall also be posted with precautionary notices to warn the public as per Section 5.3.

When converting an existing potable water line to recycled water usage, the water line shall be accurately located and tested in coordination with the City and responsible regulatory agencies, and the necessary actions taken to bring the water line and appurtenances in compliance with these Rules and Regulations. If the existing line meets approval of the City and the responsible regulatory agencies, except for the pipe identification, the line shall be approved for recycled water service. If verification of the existing line is not possible, the line shall be uncovered, inspected, and identified prior to use. However, all replacements of an existing recycled water irrigation system shall be color-coded for identification in accordance with the provisions of these Rules and Regulations.

#### 4.3.3 Pipeline Identification Tapes

A warning tape with metallic backing shall be installed on all recycled water pressure and/or non-pressure service pipelines. A purple tape with black lettering stating: "CAUTION: RECYCLED WATER - DO NOT DRINK", and "PELIGRO: AGUA IMPURA - NO BEBER" shall be fastened to the top of the pipe. The tape shall run continuously the entire length of the pipe and shall be at least three inches or pipe diameter, whichever is less, in width (see Section 4.2.4 for tape samples and colors).

#### 4.3.4 Color-Code for Recycled Water Pipes

Recycled water pipelines shall be color-coded purple or identified as specified above in Sections 4.3.2 and 4.3.3. See Section 4.2.6 for exposed piping identification requirements.

When potable water is being supplied to an area, which is also being supplied with recycled water, any exposed potable water main shall also be identified to minimize the potential of a cross-connection to the recycled water system. A color-coded tape, as determined by the City, with the words "CAUTION: DRINKING WATER LINE" and "CUIDADO: TUBERIA DE AGUA POTABLE" shall be adhered directly to the potable water pipe at a maximum spacing of 10-foot intervals. This tape shall be at least three inches in width. The color code for potable water shall be blue to differentiate it from recycled water.

#### 4.3.5 Valve Box Identification

All new recycled water valve boxes and covers for irrigation control valves, isolation valves, quick couplers, etc., shall be color-coded purple. Existing covers may be retrofitted with a nameplate marked: “Recycled Water – Do Not Drink – No Tomar” and permanently attached to the cover. Valve cover identification is illustrated on Standard detail RW-119, *Sign/Tag for Recycled Water Irrigation Box Covers/Lid*.

#### 4.3.6 Separation

Refer to Section 4.2.2 for horizontal and vertical separations.

#### 4.3.7 Hundred Year Flood Clause

##### 4.3.7.1 Runoff and Erosion

All recycled water storage facilities owned and/or operated by recycled water users shall be protected against erosion, overland runoff, and other impacts resulting from 100-year frequency 24- hour-duration storms to the satisfaction of the City.

##### 4.3.7.2 Peak Flood Levels

All recycled water storage facilities owned and/or operated by recycled water users shall be protected against 100-year frequency peak stream flows, as defined by the Riverside County Flood Control Department, to the satisfaction of the City.

#### 4.3.8 Storage Facilities

Onsite storage tanks used for storing recycled water shall be of adequate design and structural integrity to ensure that leaks or ruptures will not occur in the course of normal use. All above-ground storage tanks shall be contained within a fence or other enclosure that will restrict access by the general public to these facilities at all times. Outlet control with positive shut-off valves shall be provided for each storage facility. All storage facilities should be identified by signs containing the words “CAUTION: RECYCLED WATER – DO NOT DRINK”, in English and Spanish, and contain the universal symbol for do not drink. The signs shall conform to Standard Detail RW-120. The signs should be posted on the fence and at the entrance to the facility.

#### 4.3.9 Swivel Ell Connections

When the recycled water supply is temporarily unavailable, potable water may be used as an emergency source of supply. If a storage tank with an appropriate air gap from the potable water source is not provided for the recycled water system, a swivel ell



connection is necessary to allow augmentation of the supply with potable water. The potable water supply must never be directly connected to the recycled water supply. To ensure that this requirement is achieved, a swivel ell connection is used to preclude connecting both sources to the use area at the same time.

Swivel ell connections are illustrated in Standard Detail RW-123, *Swivel Ell for Recycled and Potable Water Supply*. In an emergency, the swivel ell is switched from the normal recycled water connection to the potable connection. This procedure is reversed once the recycled water supply is restored. The potable water supply must be protected by an approved reduced pressure principle backflow preventer.

#### **4.4 RECYCLED WATER FOR CONSTRUCTION USE**

##### **4.4.1 Permits**

The use of recycled water for construction purposes requires approval of the City and the State DEH. The permit shall be obtained prior to beginning construction. Recycled water must be obtained from an approved water tanker filling station.

##### **4.4.2 Uses**

Recycled water for construction purposes may only be used for soil compaction during grading operations, dust control and consolidation and compaction of backfill in trenches for non-potable water, sanitary sewer, storm drain, gas and electric pipelines. Recycled water shall not be used for water jetting and consolidation or compaction of backfill in trenches for potable water pipelines.

##### **4.4.3 Equipment**

Vehicles used for distributing recycled water for soil compaction and dust control shall be provided with an adequate tank and plumbing system to ensure that leaks and ruptures will not occur in the course of normal use. Control valves shall be provided such that recycled water can be applied in a controlled fashion on the approved use area, and completely retained during transit to all other areas. Spray heads or nozzles shall be provided and configured in such a way that the recycled water is uniformly applied, and runoff, ponding or windblown spray conditions prevented. Each tank shall be equipped with an approved airgap separation. Above ground recycled water appurtenances, hoses, pipes, meters, etc., shall be color-coded purple and/or stamped/marked "CAUTION RECYCLED WATER – DO NOT DRINK" in English and "AVISO, AGUA IMPURA NO TOME" in Spanish and shall be clearly visible. Water towers and trucks utilizing recycled water shall be properly identified and clearly marked with recycled water warning signs to the satisfaction of the City.

Equipment operators shall be instructed about the requirements contained herein and the potential health hazards involved with the use of recycled water. Water trucks, hoses, drop tanks, etc. shall be identified as containing recycled water and not suitable for drinking water.

Recycled water shall not be introduced into any domestic water piping system. No unprotected connection shall be made between equipment containing recycled water and any part of a domestic water system.

Service connections, equipped with recycled water meters, for the construction use of recycled water shall be provided by the City at locations convenient to the user but at the discretion of the City. A secure fence or enclosure must be provided to prevent vandalism or unauthorized use of recycled water. This enclosure shall have an approved sign stating: "CAUTION: RECYCLED WATER – DO NOT DRINK" in English and "AVISO, AGUA IMPURA NO TOME" in Spanish.

#### 4.4.4 Ponds

Ponds used for storage of recycled water shall be fenced and posted to limit public access. Fences shall be in accordance with Title 17 of the Municipal Code.

#### 4.4.5 Equipment and Facilities Cleaning

Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps which have been used with recycled water shall be cleaned and disinfected before removal from the approved use area for use at another job site. This disinfection and cleaning shall be performed in the presence of the City inspector.

### 4.5 SUBMITTALS

The following information shall be submitted to and approved by the City prior to commencing construction of any on-site recycled water system.

#### 4.5.1 Customer's Plans and Specifications

Plans and specifications prepared by a civil engineer, a mechanical engineer or a landscape architect registered with the State of California, for the construction of onsite recycled water facilities shall be submitted to the City and State DHS for review and approval. The plans shall delineate the proposed recycled water service area, the proposed location, size and type of all recycled water service connections and onsite facilities. The plans shall include the layout of existing potable water pipelines and facilities including any areas in which recycled water must be specifically excluded. A declaration of responsible charge shall be included on the cover sheet as follows:

Declaration of Responsible Charge

I hereby declare that I am the \_\_\_\_\_ of work for this project, and that I have exercised responsible charges over the design of this project as defined in section 6703 of the Business and Professions Code and that the design is consistent with current standards.

I understand that the check of project drawings and specifications by the City of Corona and the State Department of Health Services (SDHS) is confined to a review only and does not relieve me, as the \_\_\_\_\_ of work, of my responsibilities for project design.

Firm name and address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone No: \_\_\_\_\_

By: \_\_\_\_\_ Date \_\_\_\_\_  
Name

Registration No. \_\_\_\_\_ Expiration Date: \_\_\_\_\_

4.5.2 Information on Customer's Plans

The following information shall be provided on the plans for every customer applying for any recycled water service meter:

- a. Application information as specified in Section 3.5.1.
- b. Meter size (inches), City to verify.
- c. Irrigated area to be served through the recycled water meter (square feet or acres).
- d. Peak flow through the meter (gpm).
- e. Estimate of the yearly-recycled water requirement (acre-feet or HCF).
- f. Service pressure at the meter as provided by the City (psi).
- g. Topographic contours of the site, or if not available, sufficient information to determine elevation differences within the site.
- h. Direction of drainage.
- i. Location of wells (if applicable).
- j. Location of 100 Year Flood Plain (if applicable).
- k. Location of potable water lines and sanitary sewers.
- l. Location of storm drains.
- m. Location of watercourses.

#### 4.5.3 Information Required for Recycled Water Irrigation Systems

If the onsite facilities include a landscape irrigation system the following data for the materials used in the irrigation system shall be included on the plans:

- a. A pipe schedule listing pipe sizes and materials of construction.
- b. Valve types/sizes.
- c. The following information for each type of sprinkler head:
  - i. Sprinkler radius (feet).
  - ii. Operating pressure (psi).
  - iii. Flow (gpm or gph).
  - iv. Sprinkler pattern.
  - v. Manufacturer, model number and all pertinent information.
- d. Drip irrigation information and all pertinent equipment.
- e. Estimates of application rate, acres to be irrigated, soil texture and soil infiltration rate, and information on pressure requirement, hourly delivery rate, and the wetting pattern of sprinklers.

#### 4.5.4 Additional Information to be Shown on Customer's Plans

Exterior drinking fountains, potable water hose bibs, public eating and cooking facilities, playground equipment, tot lots, and outdoor swimming pools and spa locations shall be shown and identified on the plans. If no exterior drinking fountains or other public facilities are present in the design area, then it shall be specifically stated on the plans that none exist. The design and proposed locations for recycled water “DO NOT DRINK” signs shall be shown on the plans. An additional, detailed signage plan may be required by the City and will be determined on a case-by-case basis.

#### 4.5.5 Standard Notes for Inclusion on Customer's Plans

Provide the following notes on the recycled water improvement and irrigation plans under the heading "Recycled Water General Notes":

## RECYCLED WATER GENERAL NOTES

1. 48 hours prior to commencement of any excavation on-site improvements, the contractor shall notify the City of Corona Department of Water & Power at (951) 736-2263.
2. All work shall be done in accordance with the City of Corona's Rules and Regulations for the Use of Recycled Water (latest edition), and the State Department of Health Services requirements.
3. Drinking water fountains and designated outdoor eating areas shall be protected against contact with recycled water spray mist or runoff.
4. Relocate or adjust all irrigation heads to prevent overspraying onto sidewalks, streets, private lots, and non-designated use areas.
5. Best management practices shall be used to eliminate or control to the best extent possible ponding, runoff, overspray and misting.
6. Non-designated use areas shall be protected from contact with recycled water, whether by windblown spray or by direct application through irrigation or other use. Lack of protection, whether by design, construction practice, or system operation is strictly prohibited.
7. Hose bibs on recycled water systems are prohibited.
8. Cross connections between recycled water lines and potable water lines are strictly prohibited.
9. Recycled water quick coupling valves shall be designed for use on recycled water systems per the City of Corona's Rules and Regulations for the Use of Recycled Water.
10. No substitution of pipe materials will be allowed without prior approval by the City.
11. All new irrigation pipe shall be color-coded purple (pantone 522) stenciled with "CAUTION: RECYCLED WATER- DO NOT DRINK" in English and "AVISO, AGUA IMPURA NO TOME" in Spanish. Orient the stenciling to the top of the trench for laterals. Install purple metallic tape over the recycled water mains as described in the City of Corona's Rules and Regulations for the Use of Recycled Water.
12. Burial of all piping shall be in accordance with the City of Corona's Rules and Regulations for the use of Recycled Water.

13. Hours for irrigation with recycled water are from 10:00 p.m. to 6:00 a.m. The hours for irrigation with disinfected tertiary recycled water may be modified by the local authority. Irrigation with water of a lesser quality than disinfected tertiary recycled water shall be between the hours of 10:00 p.m. and 6:00 a.m.
14. When potable water lines and recycled water lines cross, the recycled water line shall be installed within a protective sleeve. The sleeve shall extend 10 feet from each side of the outside edge of the potable line.
15. On new on-site systems, potable water, constant pressure recycled water and sewer lines should be placed preferably ten feet apart. Four-foot separation may be acceptable with approval of City Inspector separation less than four foot will not be acceptable without Department of Health Services approval. Measurements shall be between facing surfaces, not pipe centerlines.
16. Constant pressure recycled water lines shall cross at least twelve inches below potable water lines and maintain at least twelve inches crossing separation between other utilities.
17. On recycled water systems, all appurtenances (sprinkler heads, valve boxes, etc.) shall be color-coded purple (Pantone #522) per AWWA Guidelines and Section 116815 of the California Health and Safety Code.
18. All recycled water sprinkler control valves and other below grade facilities within boxes shall be tagged with identification tags. Tags shall be weather proof plastic, purple in color, with words "WARNING RECYCLED WATER - DO NOT DRINK", and "AVISO: AGUA IMPURA – NO TOMAR" on the one side and international do not drink symbol on the other. Imprinting shall be permanent and black in color. One tag shall be attached to each valve as follows: Attach to valve stem directly or with plastic tie wrap; or Attach to solenoid wire directly or with plastic tie wrap.
19. The developer/contractor shall conduct a cross-connection control shutdown test and coverage test as directed by the City and the State Department of Health Services prior to any use of recycled water.
20. The required cross connection control shutdown test shall be done by either the City's certified Cross-Connection Specialist or an outside contractor who is a certified Cross-Connection Specialist as defined in Section 4.7.3, of the City of Corona Rules & Regulations for Use of Recycled Water. Copies of inspection reports shall be provided to the City.
21. An annual cross connection inspection will be done by the City subject to approval by the State Department of Health Services. Copies of the inspection reports will be forwarded to the non-inspection party.

22. Prior to conversion to recycled water, an on-site supervisor shall be designated in writing. This individual shall be familiar with plumbing systems within the property, with the basic concepts of backflow/cross connection protection, and the specific requirements of recycled water systems. The designated "site supervisor" shall attend a Site Supervisor Class approved by the State Department of Health Services. Copies of the site supervisor's certificate with a 24-hour contact telephone number shall be provided to the City and the State Department of Health Services.

In case of emergency contact \_\_\_\_\_ at \_\_\_\_\_

After hours contact \_\_\_\_\_ at \_\_\_\_\_

23. All maintenance personnel shall be educated on a continuous basis as to the presence of recycled water. Personnel must be informed that recycled water is meant for irrigation purposes only and is not approved for drinking purposes, hand washing, cleaning of tools, etc. Given the high turnover rate of employees in the landscape industry, it is important this information be reiterated on an almost daily basis.
24. A physical separation shall be provided between adjacent areas of irrigation with recycled water and potable water. Separation shall be provided by distance, concrete mow strips, chain fences, or other City approved methods.
25. There shall be no direct (pipe-to-pipe) drainage of recycled water into the storm drains.
26. The City inspector shall approve the exact locations of all signs.

## **4.6 RECORD (AS-BUILT) DRAWINGS**

The applicant, customer, or owner shall submit as-built record drawings to the City before a request for service start-up is made.

All changes in the work constituting departures from the original design drawings shall be accurately recorded on one set of drawings and submitted to the City. Any changes or modifications to the approved drawings shall be in conformance with these rules and regulations and approved by the City inspector.

## **4.7 RECYCLED WATER INSPECTION PROCEDURES**

### 4.7.1 General

This Section summarizes the inspection procedures for recycled water.

### 4.7.2 Coverage Test

Upon completion of the construction of any irrigation system, the system is inspected to determine its adequacy to meet health and safety concerns. The coverage test looks at overspray, misting, ponding, runoff, color-coding, and signage. The City's Recycled Water (RW) Cross-Connection Specialist schedules the coverage test with the customer site supervisor and DHS. Any punchlist is finalized by the RW Cross-Connection Specialist. Changes from the approved design are marked on as-built drawings. A DHS representative may be an observer during the test. This procedure may be performed concurrently with the Shutdown Test as described in the following section.

This inspection should also be conducted on sites without potable water, such as landscape maintenance districts (LMDs). On LMDs, the inspection relates to the possibility of the inhalation of recycled water irrigation spray, overspray and misting into nonuse areas, and excessive runoff into area storm drains. The inspection must also include the possibility of cross-connecting the irrigation system and other private potable water systems. The overspray, ponding, and runoff inspection is not necessary on sites that use only drip irrigation. This procedure may be performed separately from the Shutdown Test as described in the following section.

### 4.7.3 Shutdown Test (Cross-Connection Control Test)

The cross-connection control shutdown test is based in law on Section 13521 and 13523 of the California Water Code, Sections 60314 and 60316 of Title 22, Section 7604 of Title 17 of the California Code of Regulations (CCR), and Chapter 7, Sections 116800 and 116805 of the California Health and Safety Code. Cross-connection control tests are conducted on all sites containing potable and recycled water systems. The individual responsible for overseeing the cross-connection control test must hold a current American Water Works Association (AWWA) certification as a Cross-Connection Control Specialist. A complete cross-connection control test must be scheduled before the initial



activation of the site's recycled water system and be retested at least once every four years thereafter to dual plumbed sites. Also, based on Section 7604 of Title 22, a site walkthrough and record check must be scheduled annually for dual plumbed sites. Section 7604 of Title 17 CCR refers to non-dual plumbed sites. The frequency of the shutdown test and inspection of non-dual plumbed sites is determined by the regulatory agency. These tests may be conducted by the water purveyor's cross-connection control specialist or a contract specialist with oversight by local or state health departments.

**A. Shutdown Test Purpose**

The purpose or reason for the test is to demonstrate that at the time of the test, there were no discoverable cross-connections between the use site potable water systems and the use site recycled water systems.

**B. General Test Procedure**

Shut off the recycled water meter(s), depressurize the recycled distribution system, and maintain a pressurized potable water system. Attach 24-hour pressure recorders to points in the recycled water system. If the recycled system re-pressurizes, it could be cross-connected to the potable water system.

Due to the possibility of check valves, the procedure is reversed. Pressurize the recycled distribution system and depressurize the potable water system. The test may take up to 48 hours to complete. If cross-connections are discovered during the test, the cross-connections must be eliminated before the recycled water distribution system is activated (for new systems) or reactivated (for existing systems).

**C. New and Retrofit Site Considerations**

Cross-connection control tests and use site inspections are conducted on two types of recycled water use sites. The first type is new construction with complete sets of planning and inspection documents. The second is the retrofit with minimal or no planning and inspection documents. Although the basis for the test is the same for each type, the retrofit can pose additional challenges because of the lack of knowledge of the site and the existing plumbing layout. When dealing with retrofits, the site must be carefully inspected by the City's Recycled Water Specialist (RWS). Minimal plans should be available, either as existing as-builts or as developed by the customer. The site must be surveyed by the City's RWS and DEH before final submission of the site retrofit plans for review and approval by the City and DEH. The shut down testing will be conducted only after final site plan approval.

## **D. Dual-Plumbing Systems**

The results of the cross-connection control test for dual-plumbed systems are compiled in a standard engineering report and distributed to all concerned parties. The specific requirements of the engineering report are contained in Section 60314 of Title 22, CCR.

### **4.8 PROCEDURES**

#### 4.8.1 Notification

Notification to schedule the cross-connection control test depends on the agreement between the contractor or recycled water agency and the recycled water customer. Notification should occur at least two weeks before the actual cross-connection control test to allow adequate time for scheduling. The recycled water customer or contractor contacts and coordinates the test with all parties concerned.

Because a complete cross-connection control test directly impacts the site and any ongoing operations at that site, the City should make the Owner or customer aware of its responsibilities and obligations, as explained in the following section, well in advance of the cross-connection control test. Test notification should consist of a letter explaining the purpose and general methodology of the test and the date, time, and duration of the test. A copy of the letter and a site map showing pressure recorder locations should be sent to the DHS. In an emergency, the contractor or Recycled Water Supervisor, City Inspector and DHS may perform testing at a site with 24-hour notice given to the Owner.

#### 4.8.2 Shutdown (Cross-Connection Control) Test General Considerations

Concerning the actual cross-connection control test, any devices that could repressurize the potable or recycled water systems during testing should be deactivated. Examples of these devices are water heaters; pump systems on cooling towers; heating systems, etc.; overhead plumbing that may become air locked during the depressurization and break free during the test; and any water uses during the test such as opening of hose bibs or the use of hand basins that may contribute to pressure changes in the system. There may be water-cooled systems that cannot be shut down during the test. If so, cooling system water must be highlined from another available source, such as a fire hydrant.

A suggested list of equipment to have available for testing includes: site plans, flashlight, notebook, tape measure, needle-nose pliers (to activate hose-bib vacuum breakers), paper cups, regulatory and guidance documents such as Title 22, and the DHS' recommended policies relating to recycled water use. The customer or contractor should provide 24-hour pressure recorders and shovels for potholing, if necessary.

The customer or contractor should ensure that someone is on site during testing who is familiar with the existing plumbing and/or irrigation systems. The Site Supervisor should be present during the testing. The customer or contractor must know how to operate the irrigation master control panel at the site.

Normally, the cross-connection control test is the last element to be completed before the site is converted to recycled water use. This approach minimizes the chance for construction personnel to create a cross-connection after the test is completed and before the system is converted to recycled water.

To minimize the impact of the test on the public, cross-connection control tests should be scheduled during periods of minimal water use. For example, tests can be scheduled during school vacation periods or from 11:00 p.m. to 7:00 a.m. at shopping centers. Similarly, residential and apartment complex potable water cross-connection control tests can be scheduled on weekend nights. If there is a threshold valve, a valve isolating a structure from the service line at the structure, it should be secured to isolate the building from the rest of the potable water system during the shut down test.

Frequently at commercial and industrial sites, potable water meters are secured (shut off) when buildings are empty. Before securing the water meter, check the meter tattle tail for signs of water flow. If there is flow into the building, it must be stopped before securing the meter. The reason for this action is that after the test, when the meter is reactivated, flow may lead to flooding for unknown reasons. A frequent cause of flow, after reactivation of the meter, is a stuck toilet tank fill float. If any water is flowing through the meter, the reason for the flow must be determined.

## SECTION 5

### FACILITIES OPERATION

#### 5.1 OFFSITE RECYCLED WATER FACILITIES

Operation, maintenance and monitoring of all of the City's offsite recycled water systems including, but not limited to, recycled water transmission and distribution mains, service lines, valves, connections, storage facilities, and other appurtenances and properties up to and including the City's meter, shall be under the management and control of the City. No other persons except authorized representatives of the City shall have any right to enter any portion of the foregoing. No other persons except authorized representatives of the City shall have any right to operate, adjust, repair, change, alter, move or relocate any portion of the offsite-recycled water system.

#### 5.2 ONSITE RECYCLED WATER FACILITIES

##### 5.2.1 Customer's Responsibilities

The customer or owner shall be responsible for the safe and efficient operation, maintenance and upkeep of their onsite facilities. However, the City shall also have the right to monitor and inspect the onsite operation of the customer's facilities as specified in Section 6 of these Rules and Regulations.

The customer shall notify the City of any and all changes or proposed changes, modifications or additions to the onsite facilities. Changes shall be approved by the City and shall be designed and constructed according to the requirements, conditions and standards set forth in these Rules and Regulations and other City requirements.

Any time there is a change of either owner or customer on any commercial or industrial premises, the owner or customer shall notify the City immediately. The City will then reassess the level of protection required and amend the existing permit in accordance with Section 3.6.2 as necessary. Any alterations to existing onsite facilities that may affect required protection levels must also be reported immediately to the City.

The customer shall comply with any and all applicable Federal, State, and local statutes, ordinances, regulations, contracts and requirements prescribed by the City. The City, in accordance with Section 11 of these Rules and Regulations, shall apply any fines or penalties in the event of violation.

It shall be the responsibility of the customer to notify the City of any and all failures in a recycled water system whether or not in the user's opinion the failures resulted in violations. It shall also be the responsibility of the customer to notify the City of any and all violations, which occur as a result of the user's action or the action of his or her operations personnel. The user shall keep a written log of all system failures and violations including corrective action taken. The City shall review the log regularly.

### 5.2.2 Designation/Responsibility of the Recycled Water Supervisor

Each recycled water customer shall designate a User's Recycled Water Supervisor. The User's Recycled Water Supervisor shall be a person accepted and approved by the City to operate and maintain the onsite facilities and irrigation systems, and to assume the responsibilities outlined here below. The City shall require that the designated User's Recycled Water Supervisor attend a local water district class for recycled water site supervisors or equivalent program approved by the State Department of Health Services. He/she shall be the contact person for the user in all matters between the user and the City concerning the operation of the onsite system and the use of recycled water (see Section 3.12.4). It shall be the responsibility of the customer to notify the City whenever a change of the Recycled Water Supervisor occurs. Subsequently, the customer shall be responsible to obtain the City's acceptance and approval of his newly designated supervisor. The Recycled Water Supervisor will have the following responsibilities:

- a. To oversee recycled water service and maintain onsite facilities.
- b. To ensure that all operations personnel are trained and familiarized with the use of recycled water, including all pertinent information contained in these Rules and Regulations and those applicable portions of the California Code of Regulations. This information shall be supplied by the City upon request by the user, customer, owner or applicant. The applicant for a user's permit shall attest that training will be provided.
- c. To furnish operations personnel with operating instructions, maintenance instructions, controller changes, and record drawings to ensure proper operation in accordance with the facilities design and these Rules and Regulations and all applicable permits. At least one complete set of this information shall be kept onsite or in the nearest field office or maintenance building.
- d. To operate and control the customer recycled water system in order to prevent direct human consumption of recycled water and to control and prevent run-off.
- e. To provide a preventative maintenance program and carry out ongoing regular maintenance and upkeep to ensure the continued operation of all system elements within the requirements of these Rules and Regulations.
- f. To prevent cross-connections to potable water systems, and also to protect the recycled water system from contamination from cross-connections to other sources.
- g. To ensure that testing and inspection of backflow prevention assemblies is conducted on an annual basis and that repairs are made where required as per requirements of regulatory agencies. More frequent tests may be required in those instances where successive tests indicate repeated failures.
- h. To report to the City any and all failures in or to the onsite facilities whether or not such failures may result in violations.

### 5.2.3 Operation and Control of Onsite Recycled Water System

To the extent possible, the operation of the irrigation system shall be during periods of minimal public use of the approved area. Such periods of operation shall remain within any general period of recycled water irrigation operation specified by the City.

Operation and control measures of onsite recycled water systems shall include, but not be limited to, the following:

- a. Onsite recycled water facilities shall be operated in such manner to prevent or control surface flows or windblown sprays of recycled water across boundary lines or into areas not approved for recycled water use.

The system design shall avoid spray patterns that tend to accumulate recycled water to produce ponding and/or run-off on public rights-of-way or adjoining areas not approved for recycled water use.

- b. Recycled water shall be applied at a rate that does not exceed the infiltration rate of the soil. Where varying soil types are present, the design and operation of the recycled water facilities shall be compatible with the lowest infiltration rate anticipated or designed appropriately for the soil type to prevent run-off.
- c. No sprinkler system shall be allowed to operate for a time longer than the landscape's water requirements. The intent is to control and limit run-off and ponding.
- d. The user shall enforce the prohibitions as listed in Section 3 of these Rules and Regulations.

### 5.2.4 Daytime Supervised Watering Criteria

Spray irrigation with recycled water at use sites having potential for public exposure (i.e. parks, school-grounds, golf courses, etc) shall be subject to the following guidelines:

- a. Normal watering shall be scheduled during nighttime or after closure of the use sites. The normal recycled water "watering window" is between 10 PM and 6 AM, including weekends, with a few exceptions in specified customer sites which have special watering needs and no public use.
- b. Spray irrigation outside the watering window shall be minimized and allowed only when required to maintain healthy turf, such as during reseeding of ball fields, etc.
- c. Scheduling of such irrigation shall be planned to minimize the potential for public exposure to spray or wind driven aerosols.

- d. Areas to be temporarily irrigated outside the watering window will be designated by barriers and posted with signage stating: "AREA CLOSED TO PUBLIC--KEEP OFF" and "RECYCLED WATER--DO NOT DRINK"
- e. Areas irrigated outside the watering window, including weekend daytime watering, will be patrolled during the irrigation cycle to ensure that public exposure is minimized. Vehicular, drive-by patrols of the use areas will be conducted at least once during each daytime watering cycle by a member of the landscape maintenance staff familiar with the particular use site. Foot patrols will be required where the use area is not visible from the vehicle on patrol.

### **5.3 POSTING APPROVED USE AREAS**

Where recycled water is used, stored or conveyed, each entrance to any area, building, or facility shall have a sign posted. Additional signs identifying the color scheme for the recycled, potable, and industrial water shall be located at each entrance where multiple systems are utilized. Warning notices and labels shall be posted on designated facilities such as controller panels, washdowns, or blowoff valves on trucks, and temporary construction facilities. The labels shall indicate that the system contains recycled water that is unsafe to drink or whatever other restrictions may apply. It shall be the responsibility of the Recycled Water Supervisor to ensure the required bilingual postings in English and Spanish are installed and maintained, that all personnel or public utilizing the facilities can readily see them.

Where recycled water is used for recreational impoundments, warning signs shall be posted to notify that the water in the impoundment is unsafe to drink. The agency responsible for the impoundment shall prepare a detailed plan showing placement and spacing of proposed signs. The signs shall include the international warning sign of "do not drink".

## SECTION 6

### MONITORING AND INSPECTION

The City of Corona, the State Department of Health Services, and/or the Regional Water Quality Control Board, or authorized representatives of any of these agencies, shall have authority to monitor and inspect the entire recycled water system, including both onsite and offsite facilities. The City shall conduct monitoring programs as it deems necessary to ensure that customer's recycled water facilities are being operated in accordance with these Rules and Regulations, including the provision that cross connections between potable water facilities and the recycled water facilities do not exist. In carrying out these functions the City, the Department of Health Services, and/or the Regional Water Quality Control Board, or authorized representative of any of these agencies, shall have the right to enter any customer's premises during reasonable hours upon presentation of proper credentials. Reasonable hours shall include hours when irrigation is being performed to ascertain whether the user is complying with the City's Rules and Regulations for Recycled Water. The customer shall indemnify and hold the City harmless for any damage, loss, or injury alleged to have been caused by City personnel while inspecting on-site facilities, except where the City's sole negligence is duly established. If such entry is refused or cannot be obtained, the water utilities director shall have recourse to any remedy provided by law to secure lawful entry and inspection of the premises.

At their discretion, the City or representatives of any health agency having jurisdiction may conduct surveys of any property where the City provides recycled water service. These surveys are to determine if any actual or potential cross-connection exists. The applicant, owner, or customer shall provide full cooperation to facilitate these surveys.

Where potable water lines are located on the same property as recycled water lines (dual-plumbed) site, an annual cross connection control inspection shall be conducted. A cross-connection control test is required every four years. The City of Corona, the State Department of Health Services, or an authorized and certified Cross-Connection Specialist will perform the inspections and cross connection control test. At the discretion of the City, cross-connection inspections may occur more frequently. A copy of the inspection report will be forwarded to the non-inspecting agency.



## SECTION 7

### RECYCLED WATER CONNECTION, METER, AND SERVICE LINE CHARGES

The City shall make charges for the installation and perpetual maintenance of all recycled water services, meters, and appurtenances thereto, and these shall remain the property of the City. Said charges, in addition to all other usual and regular charges of the City, must be paid before work will be performed. Any backflow prevention devices on potable water services and flow or pressure control devices required due to application for recycled water service shall be downstream of the meter and shall be provided by the applicant, owner, or customer at his/her expense.

The amount of said charges shall be established by resolution of the City Council and shall be determined and computed in order to fully reimburse the City for the cost of materials, labor, equipment, debt service, operations and maintenance, capital recovery, and any other costs incidental to the performance of said services.

Whenever an installation is required by a customer that is not covered by the schedule of rates established from time to time by the City, such work will be done with charges based upon a statement of costs made by the City. If the required installation for any valid reason cannot be installed for the amount stated in the appropriate schedule of rates established by the City, owing to the peculiarity of the proposed service, the City reserves the right to make said installation on the basis of a statement of cost.

Whenever recycled water service lines, meters or other appurtenances are requested to be removed by the customer for any reason whatsoever, the charges shall be made on the basis of a statement of costs by the City.

A fee may be imposed upon a user to re-establish recycled water service if service was turned off at the request of the user or for reason of failure on the user's part to comply with City requirements.

## SECTION 8

### CUSTOMER'S GUARANTEE DEPOSIT

The City requires all applicants for recycled water service to post a guarantee deposit. An exception to this requirement is an applicant who has at least one other active water service account with the City and who has no record of delinquent payments with respect to their water account(s). The deposit required herein shall be equal to the estimated amount payable by the applicant for one month of recycled water service but, shall in no event be less than the sum stipulated in the schedule of rates.

Customer's guarantee deposits may be refunded upon application by the customer after a twelve (12) month period from the date of receipt in which a satisfactory payment record has been established. The City reserves the right to disallow or withhold the refund of any deposit after the twelve (12) month period if payment or settlement of service bills becomes irregular or is delayed for any reason. Where service has been discontinued for non-payment of service bills for whatever reason, and subsequently where the recycled water service is permanently revoked or terminated, the outstanding amount as well as the separation costs shall be settled against the deposit account and the balance of the deposit will be returned to the customer promptly, provided nothing is owed to the City by the customer for recycled water services at other addresses. The service contract will then be closed.

Any request for re-establishment of a recycled water service subsequent to permanent revocation or termination of the permit shall be handled per Section 11.4 of these Rules and Regulations.

## SECTION 9

### RECYCLED WATER SERVICE RATES AND CHARGES

#### 9.1 ESTABLISHMENT OF RATES

Water service rates shall be defined as the unit charges made to a user for the consumption of recycled water as received by the user and delivered from the offsite facilities.

Recycled water service rates within the City shall be established by an ordinance and adopted by not less than a two-thirds (2/3) vote of the City Council pursuant to California Health and Safety Code Section 5471 et seq.

#### 9.2 CHANGE OF RATES

The City reserves the right to change its rates for recycled water service. However, prior to considering any change in said recycled water service charge, a notice of the proposed change shall be posted by the City Clerk at least ten (10) days prior to consideration of such a resolution by the City Council.

#### 9.3 CAPACITY CHARGE

A minimum capacity charge shall be established by resolution of the City Council; provided, however, that prior to considering any change in said capacity charge by resolution as aforesaid, a notice of the proposed change shall be posted by the City Clerk at least ten (10) days prior to consideration of such a resolution by the City Council. Said charge shall be paid when any person, firm, corporation or other entity requests a new recycled water connection or in any way causes an increase in the recycled water usage.

#### 9.4 RECYCLED WATER METER

##### 9.4.1 Meter Reading Period

Recycled water meters shall be read at the same time as the potable water meter in accordance with the applicable provisions of the Municipal Code.

If a recycled water meter fails to register during any period or is known to register inaccurately, the customer shall be charged for that period pursuant to an average daily consumption rate based upon a reading of the meter when in use and registering accurately during the same season or as close to the same season as is reasonably possible. Any customer may request that the meter through which the recycled water is being furnished be examined and tested per Section 3.11 of these Rules and Regulations.

#### 9.4.2 Meter Protection

The customer shall, at all times, keep the meter assembly and the area around the meter or other facilities free from deposits of oil, toxic, hazardous or contaminated liquid or waste, trash, soil, building materials or substances, objects, or obstructions. The customer shall not allow or permit meter boxes or other facilities to become obstructed or obscured by trees, shrubs, plants or in any manner impede their use or access to them. If such substances, objects or obstructions are not cleaned and removed by the customer, the cleaning and removal shall be done by the City at the expense of the customer after a reasonable time of notification.

### 9.5 **BILLING**

#### 9.5.1 Permanent Service

Recycled water bills will be rendered by the City with the potable water bills per the rates to be set by the City Council.

#### 9.5.2 Temporary Service

The recycled water rate for all recycled water sold through temporary meters shall be the same as the construction recycled water rate. The charges for recycled water sold through temporary meters shall be billed and paid on a monthly basis.

#### 9.5.3 Conditions Of Service

All applicants for recycled water service shall have given implied consent to receive such service only upon agreeing to comply with the rules and regulations of the City Water Utility. All applicants for recycled water service shall be required to accept such conditions of pressure and service as are provided by the distribution system at the location of the proposed connection, shall provide devices to protect their water plumbing and equipment from damage due to high or low pressures, pressure conditions or interruptions of service, and shall agree to hold the City harmless from any damages arising out of either low or high pressure conditions or interruptions of service.

Applicants may obtain recycled water service on active service connection by contacting the Department of Water & Power by telephone or in person. If it is requested that service be turned on other than two hours prior to the close of business, legal holidays excepted, a charge shall be incurred for after-hours service. The charge for the after hours service is set forth in the Schedule of User/Service Fees for Water Usage.

Pertinent information will be requested from the applicant to establish credit which shall include but not be limited to a Social Security Number and/or Tax Identification Number. In lieu of providing a Social Security Number or Tax Identification Number, the applicant shall pay a cash deposit equal to three times the average monthly bill and sign an application form provided by the City in advance of receiving recycled water service. After the customer has paid bills for service for twelve (12) consecutive months, without having received a delinquent notice, the deposit shall be credited towards any outstanding

charges. All other deposits shall be retained by the City until the recycled water service has been terminated at the request of the customer or by the City pursuant to these rules and regulations. Upon service termination, the City shall credit the deposit towards payment of any outstanding charges due and owing by the customer. After the City has made such credit, any remaining portion shall be refunded to the customer.

If an existing recycled water service connection is found to be inactive at the time of application, which may include but not limited to, damages to the connection and/or replacement of the meter, an assessment will be made of the recycled water service connection and a fee will be charged on a time and material basis to recover the cost of reestablishing the service to an active status.

A new account setup fee shall be charged to offset the cost of creating accounting and computer records, reading the meter and/or turning on the recycled water service and will be included on the first utility bill of all new accounts. The charge for the new account setup fee is set forth in the Schedule of User/Service Fees for Water Usage.

#### 9.5.4 Billing, Delinquency And Penalty

The rates and charges set herein may be billed at regular intervals and as infrequently as bimonthly. All revised rates or charges shall first be billed under the next full billing cycle on or after the effective date of the City Council action revising the amounts. The Utility Billing Manager is hereby authorized to collect all Utility Bill rates and charges in behalf of the City.

Recycled water bills, including service and penalty charges, are due and payable upon deposit by City in the United States mail ("date billed"), and shall be delinquent thirty (30) calendar days after said date. Upon delinquency, the Utility Billing Manager shall mail a second billing in the form of a delinquent notice. A ten percent (10%) penalty shall be assessed on that bill and a date of discontinuance of water service, forty-six (46) days after the date billed, shall be noted. Thirty-nine (39) days after the date billed, a notice of shutoff of water service will be mailed to the billing address of the customer. A processing charge will be assessed on that notice and a date of discontinuance of recycled water service shall again be noted. The charge for the notice of shutoff is set forth in the Schedule of User/Service Fees for Water Usage. All delinquent accounts unpaid at the close of business on the forty-fifth (45th) calendar day after the date billed shall have water service discontinued on the forty-six (46th) day after said date without further notice.

If the City has made a service call to turn off the recycled water for nonpayment of a delinquent bill, an additional charge shall be made to return the service. Additionally, a deposit equal to three times the average monthly bill will be required. If the recycled water service is turned off for such delinquency and it is requested that service be returned other than between the beginning of the public service hours and one hour prior to the end of the public service hours, as stated on the original Utility Bill, legal holidays excepted, said additional charge shall be made at an increased rate. In the event that the current billing account has been closed, a new account setup fee will also be required. These charges are set forth in the Schedule of User/Service Fees for Water Usage.

After the Water Utility has turned the recycled water off under this section and the recycled water has subsequently been turned back on, without the authorization of the Water Utility, the Water Utility may again turn off the recycled water and remove the meter. Damages to the meter and/or service connections will be assessed and a fee will be charged on a time and material basis to recover the cost of performing such activities.

No service shall be returned until all delinquent rates, charges, fees, deposits, and penalties due at the time of the request for such returned service are paid in full.

Notwithstanding any remedial procedure provided herein, the City may exercise any available legal or equitable remedy, including but not limited to court action, to recover all delinquent rates, charges, fees, and penalties.

If the delinquency date or the shutoff date falls on Saturday, Sunday, or legal holiday, said delinquency, penalty or shutoff date shall be the next following City working day.

If a recycled water service customer shall fail to comply with any provision of these rules and regulations, the Utility Billing Manager shall have that recycled water service turned off pursuant to the procedures provided herein. However, the Utility Billing Manager shall have the right upon request to grant reasonable extensions of time beyond the periods provided herein for payment of delinquent accounts if, in his/her judgment, unusual circumstances, including but not limited to a customer's extreme financial difficulty, warrant such an extension of time. Such extension of time for payment, however, shall not eliminate the accrual of the penalty due or the notice of shutoff charge.

#### 9.5.5 Disputed Bills

Amount of Use. In the event a customer disputes the amount of recycled water actually used, the meter shall be read and an examination shall be made to determine if there are any leaks. Should no leaks be found, then upon request of the customer, the meter shall be removed and be tested at variable rates of flow. The customer shall be notified of the time and place of such tests and may be present to witness such tests. If the average registration of said meter is more than two percent in excess of the actual quantity of recycled water passing through the meter, the City shall refund to the customer the overcharge for the billing period contested. If the tests show that the meter registration is accurate within two percent or is registering less recycled water than is actually passing through said meter, the customer shall pay to cover testing costs. These charges are set forth in the Schedule of User/Service Fees for Water Usage.

Billing. If a customer asserts that a billing error has been made, staff shall be made available to check and confirm or correct the billed amount before water is turned off for nonpayment. Appropriate notification of this procedure as required by law shall be given to customers at the time notice of shutoff is given under Section 9.5.4.

## **SECTION 10**

### **SEVERABILITY**

If any section, subsection, sentence, clause, phrase, part or portion of these Rules and Regulations is for any reason held to be invalid or unconstitutional, such invalidity shall not affect any of the remaining portions of these Rules and Regulations. The City declares that each section, subsection, sentence, clause, phrase or part of these Rules and Regulations would have been adopted irrespective of the invalidity of any part. These Rules and Regulations shall be interpreted so as to comply with applicable Federal and State laws and regulations.

## SECTION 11

### ENFORCEMENT AND PENALTIES

#### 11.1 GENERAL

The enforcement and penalty provisions applicable to violations of the Recycled Water Ordinance are set forth in Section 13.28.070 of the Municipal Code. In addition to those provisions, any person, firm, corporation, association, or agency found to be violating any provision of these Rules and Regulations; the terms and conditions of the customer's service agreement, permit; or any applicable Federal, State or local statute, regulation, resolution, ordinance or other requirement shall be subject to the following:

- a. **Public Nuisance.** Any violation as described above is hereby declared a public nuisance and shall be corrected or abated as directed by City of Corona, pursuant to the requirements of this Code. Any person creating such a public nuisance is guilty of a misdemeanor.
- b. **Administrative Enforcement Powers.** In addition to the other enforcement powers and remedies established by this Section and Chapter 13.28 of the Municipal Code, an authorized City enforcement officer has the authority to pursue and take the following administrative actions:
  1. **Cease and Desist Orders.** When an authorized enforcement officer finds that an activity, waste discharge, practice or operation has taken place or is likely to take place in violation of these Rules and Regulations, the officer may issue an order to cease and desist such activity, waste discharge, practice, or operation likely to cause such violation and direct that those persons not complying shall:
    - a) Comply with the requirement;
    - b) Comply with a time schedule; and/or
    - c) Take appropriate remedial or preventive action to prevent the violation from recurring.
  2. **Written Warning.** An authorized enforcement officer may issue a written warning, including a compliance date, to persons who are found to be or are suspected of violating these Rules and Regulations.
- c. **Civil Actions.** In addition to any other remedies provided in this Section and Chapter 13.28 of the Municipal Code, any violation of these Rules and Regulations may be enforced by civil action brought by the City. In any such action, the City may seek, and the court may grant, as appropriate, any or all of the following remedies:



1. A temporary and/or permanent injunction;
  2. Assessment of the violator for the costs of any investigation, or monitoring survey which led to the establishment of the violation, and for the reasonable costs of preparing and bringing legal action under this subsection;
  3. Costs incurred in removing, correcting, or terminating the adverse effects resulting from the violation; or
  4. Compensatory damages for loss or destruction to water quality. Assessments under this subsection shall be paid to the City and used exclusively for costs associated with monitoring and establishing systems to protect water quality and/or implementing or enforcing the provisions of this Chapter.
- d. Permit Revocation. In addition to any other statute or rule authorizing termination of water service, the City of Corona may revoke a recycled water permit issued hereunder if a violation of any provision of these Rules and Regulations is found to exist or if a waste discharge or use of recycled water causes or threatens to cause a nuisance. In cases of revocation of a recycled water permit, the procedures set forth in Section 11.3, below, shall be followed.
- e. Penalty. Any person or entity who violates these Rules and Regulations shall, for each day of violation, or portion thereof, be subject to a fine not exceeding \$1,000. In addition, water service to the property may be discontinued.
- f. Appeal. Except in cases of permit revocation, which are handled under Section 11.3, any person required to perform monitoring, analyses, reporting and/or corrective activities by an authorized enforcement officer who objects to any enforcement action taken under this Section may appeal such action or revocation in writing to the City for reconsideration within ten (10) days following the effective date of the decision. The written notice of appeal shall state in detail the specific facts supporting the request for reconsideration. Within 30 days of receiving such request, the Director shall render a decision on the request for reconsideration.

Within ten (10) days after notification of the Director's decision, the person may file a written appeal of the Director's decision with the City Council. The written appeal to the City Council and a requisite filing fee must be submitted to the City Clerk. Upon receipt of the written appeal and the requisite filing fee, the City Clerk shall set the matter for hearing with the City Council at the earliest practical date. At said hearing, the City Council may hear additional evidence, and may reject, affirm or modify the Director's decision. The City Council decision shall be final and shall complete the administrative process.

- g. Enforcement Action by the Regional Board. If any person uses, transports, or stores recycled water in violation of the City's Rules and Regulations, the Recycled Water Ordinance, the City's National Pollutant Discharge Elimination System permit(s), or any other applicable Federal, State or local law, or acts in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in the California Water Code Section 13050, and the Regional Water Quality Control Board, the State Department of Health Services, or any other Federal, State or local agency takes action against the City, or revokes, suspends or terminates any City permit as a result, such person agrees to indemnify the City for any resulting damages, including but not limited to all reasonable attorneys' fees and costs related to defending such action or taking action against the violating customer. This provision is in addition to any other rights the City may have against the offender.

## **11.2 TEMPORARY DISCONTINUATION OF RECYCLED WATER SERVICE**

In cases where the serious nature of the violations described above requires immediate action, the City, the State Department of Health Services, and/or the Regional Board may exercise discretion to immediately order discontinuance of recycled water service. The City will conduct an administrative hearing to determine whether a permanent revocation or temporary suspension of a permit is warranted as provided herein. Conditions or uses that create a basis for termination include, but are not limited to:

- a. Refusal to install a required backflow prevention device.
- b. Refusal to test a backflow prevention device.
- c. Refusal to repair or replace a faulty backflow prevention device.
- d. Direct or indirect connection between the City's potable water system and the recycled water system.
- e. Direct or indirect connection between the City's recycled water system and a system or equipment containing contaminants.
- f. A situation, which presents an immediate health hazard to the City's potable and/or recycled water system, as determined by the City or regulatory agency.
- g. Operations contrary to the aforementioned restrictions resulting in overspray into unapproved areas, excessive application rates or times, or improper fine grading of the soil, or improperly maintained drainage systems resulting in run-offs, or ponding due to run-offs on public rights-of-way or adjoining areas not approved for recycled water use.
- h. Any discharge of recycled water in violation of any applicable discharge prohibitions or requirements prescribed by the RWQCB or any other Federal, State or local agency, or in a manner, which creates or threatens to create conditions of pollution, contamination, or nuisance, as defined in California Water Code Section 13050.

### **11.3 PERMANENT REVOCATION**

The City may temporarily or permanently revoke any recycled water permit or contract. However, unless an emergency exists as determined by the City, no permit or contract may be revoked until after the customer has been given an opportunity for an administrative hearing as hereinafter provided.

#### **11.3.1 Serving Notice of Revocation**

Where the City determines that a permit should be revoked, the City shall prepare a written notice of revocation, which includes a statement of the proposed action, a concise explanation of the reasons for the proposed action, and an explanation of the customers' right to a public hearing. Such notice shall be sent by certified mail to the customer's last billing address or be personally served on the customer at least ten (10) days before the effective date of the proposed permanent revocation. If, within five (5) days after receipt of such notice, the customer or authorized representative requests in writing an administrative hearing from the City, the City shall immediately set a hearing and give the customer written notice of the item, date and place of such hearing, either by personal service or First Class mail. The hearing shall be held not more than thirty (30) days from the date of receipt of said request for hearing. The hearing shall be conducted by a hearing officer designated by the City. The person designated as hearing officer shall not have been connected in any way with the decision to revoke the subject permit or contract. No hearing shall be continued except upon showing of a good cause.

Within ten (10) days after notification of the hearing officer's decision, the person may file a written appeal of the decision with the City Council. The written appeal to the City Council and a requisite filing fee must be submitted to the City Clerk. Upon receipt of the written appeal and the requisite filing fee the City Clerk shall set the matter for hearing with the City Council at the earliest practical date. At said hearing, the City Council may hear additional evidence, and may reject, affirm or modify the hearing officer's decision. The City Council decision shall be final and shall complete the administrative process.

### **11.4 RE-ESTABLISHMENT OF RECYCLED WATER SERVICE**

Any request to re-establish service subsequent to revocation of the permit and the termination of recycled water service shall be in the manner described for initially obtaining recycled water service from the City, which may include the collection of a customer guarantee deposit. The City may, at its discretion, deny re-establishment of service or require that an agreement of financial security conditioned upon compliance with these Rules and Regulations be provided. Users seeking a new or re-established permit for recycled water service shall complete an application for recycle water service.



**EXHIBIT "B"**

**CITY OF CORONA**  
**DEPARTMENT OF WATER AND POWER**  
**SCHEDULE OF USER/SERVICE FEES**  
**FOR RECYCLED WATER USAGE**

Adopted on  
September 20, 2006  
By Ordinance No. 2854

**SCHEDULE OF USER/SERVICE FEES  
FOR RECYCLED WATER USAGE**

**QUANTITY RATES**

The rates to be paid for recycled water used are as follows:

**RECYCLED SERVICE (Per 100 Cubic Feet)**

<b>Number of Units Used</b>	<b>Effective July 1, 2006</b>
Flat Rate	\$0.985

**READINESS TO SERVE CHARGES**

**RECYCLED SERVICE (Per Month)**

<b>Recycled Water Meter Size</b>	<b>Effective July 2006</b>
¾"	\$19.29
1"	\$27.60
1½ "	\$48.10
2"	\$70.19
3"	\$119.96
4"	\$184.28
6"	\$338.43
8"	\$497.76

**USE OF TEMPORARY RECYCLED WATER SERVICE**

**3-INCH TEMPORARY RECYCLED METER FEES**

<b>Number of Days</b>	<b>3" Temporary Recycled Meter Deposit</b>	<b>Recycled Water Deposit</b>	<b>Installation &amp; Removal Fee Non-Refundable</b>
1 to 5	\$800	\$100	\$100
6 to 16	\$800	\$250	\$100
1 month	\$800	\$450	\$100

**6-INCH TEMPORARY RECYCLED METER FEES**

<b>Number of Days</b>	<b>6"Temporary Recycled Meter Deposit</b>	<b>Recycled Water Deposit</b>	<b>Installation &amp; Removal Fee Non-Refundable</b>
14 (2 weeks)	\$3,000	\$1,000	\$100

The City may consider a written request from the contractor for a two week extension, making a total of 28 days.

**RECYCLED WATER IMPROVEMENT FEES**

<b>METER SIZE</b>	<b>ALL ZONES FEES</b>
3/4"	\$ 10,048
1"	\$ 15,072
1 1/2"	\$ 25,121
2"	\$ 50,241
3"	\$ 80,386
4"	\$150,724
6"	\$251,207

**MISCELLANEOUS**

Reduction of Meter Size or Relocation of Meter to an Existing Service: A fee of \$145.00 shall be paid for reducing a meter size or relocating a meter to an existing service; if the meter size is over one inch, a \$175.00 fee shall be paid.

Meter and Service Installation:

Any application for service shall be paid at the time of filling the application, the following fees:

<b>Meter Size</b>	<b>Meter Fee</b>	<b>Service Size</b>	<b>Service Installation Fee</b>
3/4"	\$255	1"	\$3,469
1"	\$360	1"	\$3,469
1 1/2"	\$628	1 1/2"	\$4,195
2"	\$765	2"	\$4,195
3"& Larger	Provided by Contractor		Provided By Contractor

# THE PRESS-ENTERPRISE

3512 Fourteenth Street  
Riverside CA 92501-3878  
951-684-1200  
951-368-9018 FAX

## PROOF OF PUBLICATION (2010, 2015.5 C.C.P.)

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PROOF OF PUBLICATION OF

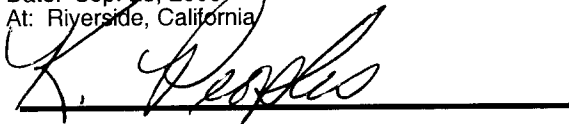
Ad Desc.: 2845, 2846, 2848

I am a citizen of the United States. I am over the age of eighteen years and not a party to or interested in the above entitled matter. I am an authorized representative of THE PRESS-ENTERPRISE, a newspaper of general circulation, printed and published daily in the city of Riverside, County of Riverside, and which newspaper has been adjudicated a newspaper of general circulation by the Superior Court of the County of Riverside, State of California, under date of April 25, 1952, Case Number 54446, under date of March 29, 1957, Case Number 65673 and under date of August 25, 1995, Case Number 267864; that the notice, of which the annexed is a printed copy, has been published in said newspaper in accordance with the instructions of the person(s) requesting publication, and not in any supplement thereof on the following dates, to wit:

09-28-06

I Certify (or declare) under penalty of perjury that the foregoing is true and correct.

Date: Sep. 28, 2006  
At: Riverside, California



CORONA CITY CLERK

P.O. BOX 940  
CORONA CA 92878

Ad #: 8020191

PO #:

Agency #: \_\_\_\_\_

Ad Copy:

### NOTICE TO CORONA CITIZENS REGARDING NEW ORDINANCE NOS. 2845, 2846 and 2848

On September 20, 2006, the Corona City Council adopted the following Ordinances by the following votes:

**Ordinance No. 2850:**  
Amending the Corona Municipal Code by amending Chapter 17.64 to amend the development standards of the R-1-14.4 zone to establish minimum lot size requirement for septic tanks on residential properties, ZTA06-004  
AYES: MILLER, MONTANEZ, NOLAN, SPIEGEL, TALBERT  
NOES: NONE  
ABSTAIN: NONE  
ABSENT: NONE

**Ordinance No. 2851:** Establishing new rates for the collection and disposal of solid waste  
AYES: MILLER, MONTANEZ, NOLAN, SPIEGEL, TALBERT  
NOES: NONE  
ABSTAIN: NONE  
ABSENT: NONE

**Ordinance No. 2852:** Changing the zone of 4.64 acres of land from Agriculture to R-1A (single-family residential, minimum lot size 40,000 square feet)  
AYES: MILLER, MONTANEZ, NOLAN, SPIEGEL, TALBERT  
NOES: NONE  
ABSTAIN: NONE  
ABSENT: NONE

**Ordinance No. 2853:** Amending the City's sign ordinance to allow for the installation by the City of flags, banners and pennants on City-owned light poles.  
AYES: MILLER, MONTANEZ, NOLAN, SPIEGEL, TALBERT  
NOES: NONE  
ABSTAIN: NONE  
ABSENT: NONE

**Ordinance No. 2854:** Adopting recycled water user rates and amending the rate setting procedures contained in the recycled water rules and regulations.  
AYES: MILLER, MONTANEZ, NOLAN, SPIEGEL, TALBERT  
NOES: NONE  
ABSTAIN: NONE  
ABSENT: NONE

Certified copies of the full text of the Ordinances are posted in the City Clerk's office located at 400 S. Vicentia Avenue, Corona, CA.  
Victoria Wasko,  
City Clerk

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