

Rules and Regulations of Recycled Water Use



City of
FRESNO
WASTEWATER MANAGEMENT DIVISION

*Recycled Water...
Making Every Drop Count*

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1. Introduction

The City of Fresno owns and operates a Recycled Water Distribution System (Distribution System) providing Recycled Water for approved uses to Recycled Water Customers (Customer) within the Recycled Water Project Area. This document contains the City of Fresno's Rules and Regulations governing the design, construction and use of Recycled Water (Rules and Regulations). These Rules and Regulations aim to provide Customers with necessary information to comply with relevant codes, laws, statutes and regulations concerning the use of Recycled Water.

1.1. Authority and Sources

The Rules and Regulations are prepared and administered by the Department of Public Utilities Wastewater Management Division, and may be updated from time to time. The Rules and Regulations apply to all Customers and distributors of Recycled Water and shall govern the design, construction and use of both the Distribution System operated by the City and On-Site Recycled Water Systems operated by Customers. Since codes, laws, statutes and regulations can change without prior approval or knowledge, the City of Fresno does not assume any liability for errors in this document. It is the responsibility of the Customer to check with the City of Fresno before initiating any changes to their On-Site Recycled Water System. It is the intent of these Rules and Regulations to be consistent with the following criteria:

- (a) [California Code of Regulations, Title 22, Division 4, Chapter 3 \(Water Recycling Criteria\).](#)
- (b) [California Code of Regulations, Title 17, Division 1, Chapter 5 Group 4, Article 1\(General\) and Article 2 \(Protection of Water System\).](#)
- (c) [The State Water Resources Control Board \(SWRCB\) and its Division of Drinking Water \(DDW\) Guidelines for Use of Recycled Water, and Guidelines for Use of Recycled Water for Construction Purposes.](#)
- (d) [American Water Works Association \(AWWA\) California/Nevada section, Guidelines for the Distribution of Non-Potable Water and Guidelines for Retrofitting to Recycled Water or alternate measures that are acceptable to the DDW.](#)
- (e) [Applicable regulations by the Regional Water Quality Control Board \(RWQCB\).](#)
- (f) [City of Fresno Municipal Code, Chapter 6, Article 3, Sewage and Water Disposal, and Chapter 6, Article 9, Recycled Water Ordinance.](#)
- (g) [General Order WQ 2016 – 0068 DDW Recycled Water Use](#)

Interested parties may contact the Department of Public Utilities for copies of documents referenced in these Rules and Regulations.

1.2. Scope and Severability

If any section, subsection, clause or phrase of these Rules and Regulations is determined to be invalid, the remaining portions of these Rules and Regulations shall remain in effect. If there is any conflict between the provisions of these Rules and Regulations and the provisions of any of the referenced documents, the most stringent guidelines will control.

1.3 Planning for Recycled Water Use

The Rules and Regulations outlined in this document provide Recycled Water Customers with information for design, installation, operation and maintenance of an On-Site Recycled Water System. This section provides general information about the City of Fresno's Recycled Water program.

Eligibility to Use Recycled Water.

- (a) The Department of Public Utilities shall review the Recycled Water Master Plan and make a preliminary determination whether the current or proposed use of the property requires service with Recycled Water, or facilities designed to accommodate the use of Recycled Water in the future. This determination is based in part on the property's location within the existing or proposed Recycled Water Project Area.¹
- (b) The City of Fresno's Recycled Water Ordinance requires all new construction, existing and future commercial/ industrial facilities to use Recycled Water for landscape irrigation, if available in the Recycled Water Project Area.
- (c) Existing sites using Potable Water for irrigation may convert to Recycled Water with approval of the City.
- (d) All Recycled Water systems shall be metered separately from the Potable Water supply and must have no Cross Connection to the Potable Water supply.

1.4. Protection of Public Health and the Environment

The use of Recycled Water shall not result in contamination or pollution of any surface water body nor create a hazard that is injurious to public health. The City of Fresno, Fresno County Department of Health, and the DDW may take measures to ensure that a Customer's On-Site Recycled Water System adequately protects public health and the environment. Conditions which may lead to unacceptable public health and environmental hazards include, but are not limited, to:

- (a) Cross connections with the potable system or any other water system;
- (b) Improper tagging, marking or signage;
- (c) Unapproved uses of Recycled Water; and
- (d) Recycled Water runoff to a surface water body.

¹ Fresno Municipal Code, Chapter 6, Article 9, Section 6-908

1.5. Approved Uses of Recycled Water

Tertiary disinfected Recycled Water may be used for landscape and agricultural irrigation, impoundments, commercial laundries, cooling towers and other Approved Uses as identified in Title 22, Division 4, Chapter 3, Article 3, Uses of Recycled Water. Moreover, statutes delineating permissible uses of Recycled Water at locations such as cemeteries and car washes are identified in the Health and Safety Code, Division 8, Part 1, Chapter 4.5 and the Water Code Division 6, Part 2.12 § 10950 – § 10953, respectively.

1.6. Violation of Rules and Regulations

The City may terminate Recycled Water service to a Customer who uses, transports, or stores Recycled Water in violation of these Rules and Regulations. No Customer will create or threaten to create conditions of pollution, contamination, and nuisance or violate discharge requirements prescribed by the RWQCB. Enforcement actions may be initiated against any Customer resulting in potential termination of Recycled Water service. In addition, no person at any time shall tamper with City property except to shut off water to protect public health or prevent damage to property or the environment. Only authorized City personnel may operate City facilities.

The City shall investigate all reports of non-compliance with any provision of these Rules and Regulations and/or the User Agreement to determine the validity and seriousness of the violation. Determinations regarding the seriousness will be based upon the violation's magnitude and duration; effect on public health, the environment, City property or assets, or the operation of the Distribution System; effect on the City's compliance with the Rules and Regulations of the regulatory agencies with which it must in turn comply; and the history and good faith of the Customer.

1.7. Notice of Violation

Unless the violation is an emergency, as determined by the City, the Customer will receive a written notice of violation describing:

- (a) The nature of the violation;
- (b) Requirements for submittal of a corrective action plan;
- (c) A reasonable time limit for the satisfactory mitigation of the violation; and
- (d) A date for a follow-up inspection.

The Customer may file a notice of appeal within 15 calendar days after notice of violation is received, following the guidelines for filing a notice of appeal and the City shall implement duty of enforcement procedures as defined in Fresno Municipal Code, Chapter 1, Article 4.

For emergencies that result in cross connection of recycled water with potable water, refer to Part 10. Cross Connection, Section 10.3 Emergency Preparedness and Section 10.4 Emergency Cross Connection Procedures.

1.8. User Agreements

Recycled Water shall not be delivered, used, or discharged upon any property or Use Area not owned or controlled by the City unless a non-transferrable User Agreement has been executed between the City and Customer permitting the Customer to receive Recycled Water service.

The site-specific User Agreement will identify the Recycled Water's Use Area, an estimate of the quantity (including seasonal schedule) of Recycled Water to be used, and permitted uses of Recycled Water. User Agreements delineate contractually binding terms associated with these Rules and Regulations. Once executed, the User Agreement permits use of Recycled Water in accordance with the terms of the User Agreement, these Rules and Regulations, and all applicable local, State and federal regulations, including Title 17 and 22 of the California Code of Regulations, as may be amended from time to time. If an On-Site Recycled Water System is found to be in violation of a City of Fresno Ordinance, the corresponding User Agreement and/or these Rules and Regulations, the City shall implement provisions of Section 1.7. of these Rules and Regulations.

1.8.1. User Agreement Renewal

Upon expiration of the existing User Agreement, customer shall enter into a new agreement for continuation of recycled water services. The new agreement may have additional regulatory requirements, costs, or rates not specified on the original agreement. In the case of change of property ownership and if the new owner desires to continue the recycled water service, a new Recycled Water User Agreement with the new owner will be processed reflecting changes in regulatory requirements, costs or rates not previously specified, if any.

1.9. Conditions Precluding Delivery of Recycled Water

The City has sole discretion and flexibility in scheduling, distributing and prioritizing Recycled Water deliveries, particularly under conditions of insufficient recycled water supply, maintenance of City's treatment or distribution systems, acts of a third party, or order of a Regulatory Agency.

2. Definitions

Whenever the following terms (or pronouns are used in their place) occur in these Rules and Regulations, they will be identified with capitalized initials and their meaning shall be interpreted as follows:

“Air Gap” is a physical separation from the free-flowing discharge end of a water supply pipeline and an open or non-pressure receiving vessel. It is generally regarded as the most protective method of backflow prevention. An approved air gap must be at least twice the diameter of the water supply pipeline, measured vertically from the flood rim of the Customer's receiving vessel to the supply pipe from the service connection. In no case shall the air-gap separation be less than one inch.

“Applicant” is a potential user requesting Recycled Water services from the City.

“Approved Uses” means uses defined by California Code of Regulations, Title 22, Division 4 Environmental Health, Chapter 3 (Water Recycling Criteria), Article 3 (Uses of Recycled Water).

“As-Built” means engineering drawings that depict completed facilities, as constructed or modified.

“Backflow” is a condition that results in the flow of water, mixtures or substances into a potable water system from a source other than an approved water supply.

“City” means City of Fresno, California.

“Contamination” means an impairment of the City’s potable water quality resulting from the introduction of sewage, industrial fluids, waste liquids, compounds or other materials to a degree which creates an actual hazard to public health through poisoning or spread of disease.

“Cross Connection” is the unprotected and/or unapproved actual or potential connection between a potable and non-potable water supply. By-pass arrangements, jumper connections, removable sections, swivel or changeover devices through which backflow could occur, shall be considered to be Cross Connections.

“Cross Connection Control Specialist” is an individual trained in cross-connection control, establishment of a procedure or system for testing backflow preventers, and maintenance of records of locations, tests, and repairs of backflow preventers.

“Customer,” “Consumer,” or “User” means a person or entity who is the contracted recipient of Recycled Water services owned and operated by the City of Fresno.

Division of Drinking Water (“DDW”) is a division of the State Water Resources Control Board, formerly California Department of Public Health (CDPH).

“Dual Plumbing” means a system that utilizes separate piping systems for Recycled Water and potable water within a facility and where the Recycled Water is used for either of the following: (a) to serve plumbing outlets (excluding fire suppression systems) within buildings or (b) outdoor landscaping irrigation at individual residences.

“Easement” means a recorded document in which the land owner gives the City permanent rights to construct and maintain Recycled Water mains and/or facilities across private property.

“Impoundment” is a lined structure or a body of water with a lined structure containing Recycled Water, which is used for aesthetic, recreational or irrigation purposes.

“On-Site Recycled Water System” means facilities under the control of the property owner, extending from the Recycled Water service connection to the Use Area being serviced with Recycled Water. This includes any on-site distribution plumbing, irrigation systems, industrial processes, impoundments or other approved facilities.

“Overspray” means the spray of Recycled Water outside the irrigation area.

“Pantone” A color standard system referenced in the American Water Works Association California-Nevada Section Guidelines for Distribution of non-potable water.

“Ponding” means the unauthorized retention of Recycled Water in a Use Area for a period following the cessation of approved Recycled Water use activity.

“Potable Water” means water which meets the federal, state and local standards for human consumption and is approved for human consumption.

“Record Drawings” are the Customer’s plans and specifications for the proposed Use Area required by the City’s application for Recycled Water Service.

“Recycled Water” means non-potable tertiary disinfected water, which as a result of treatment of wastewater is suitable for a direct beneficial use or controlled use that would otherwise not occur, and is therefore considered a valuable resource.

“Recycled Water Distribution System” means Recycled Water pipelines, transmission mains, pump stations, storage reservoirs, and appurtenances acquired, constructed and owned by the City and used for the conveyance of Recycled Water between the wastewater treatment plant and the Recycled Water service connections.

“Recycled Water Project Area” means those geographical areas identified in the City’s Recycled Water Master Plan where the City expects Recycled Water service to be available. Customers within the Recycled Water Project Area are eligible for Recycled Water service for approved uses when it becomes available.

“Recycled Water Service Connection” means the point of connection (POC) of the Customer’s Recycled Water line with the Recycled Water service line of the City, which shall normally be the downstream end of the Recycled Water meter tailpiece.

“Recycled Water Site Supervisor” or “Site Supervisor” is the Customer’s liaison with the City regarding Recycled Water matters. This person must have the authority to enforce these Rules and Regulations, be responsible for the operation and maintenance of the On-Site Recycled Water System, must prevent potential violations and submit a Use Area Monitoring Report.

“Reduced Pressure Principle Backflow Prevention Device” is a type of backflow prevention device, usually installed near a water meter, which prevents backflow by a combination of two check valves, an automatically operated differential relief valve between the two check valves and a tightly closing shut-off valve on each side of the check valve assembly.

“Regulatory Agency” refers to those public agencies legally constituted to protect public health and water quality, and whose rules govern the use of Recycled Water, such as DDW, RWQCB and the Fresno County Department of Public Health.

“Rules and Regulations” means the Rules and Regulations for Recycled Water use, distribution and transport within the City of Fresno.

“Runoff” means Recycled Water that drains outside the approved Use Area.

“RWQCB” means Regional Water Quality Control Board, a subdivision of the State Water Resources Control Board.

“RWRf”, Fresno-Clovis Regional Wastewater Reclamation Facility.

“SWRCB”, State Water Resources Control Board

“Use Area” means an area of Recycled Water use with defined boundaries. A Use Area may contain one or more facilities.

“Water Recycling Criteria” - the State of California's set of requirements for the implementation of Recycled Water programs as detailed in the California Code of Regulations, Title 22, Division 4, Chapter 3.

3. General City Responsibilities

The City shall be responsible for all aspects of the treatment, distribution system and quality of Recycled Water. City responsibilities shall include:

- (a) Observe and permit installation, connection, and disconnection of Recycled Water service, including, piping, valves and other appurtenances required to connect the City's Recycled Water Distribution System to an On-Site Recycled Water System. The service includes a Recycled Water Meter(s) to measure Recycled Water consumption at the Use Area.
- (b)). Ensure users follow the City of Fresno Department of Public Works' Standard Specifications, Section 33, Recycled Water Facilities Design Criteria, and Section 34, Recycled Water Facilities.²
- (c) Manage and supervise both emergency and non-emergency conversions from a Recycled Water supply at a Use Area to a Potable Water system or vice-versa. Such event may be necessary if delivery of recycled water is precluded for reasons beyond the reasonable control of the City, including, but not limited to, insufficient recycled water supply, maintenance of the City's treatment or distribution systems, acts of a third party, or in compliance with direction from a Regulatory Agency.
- (d) Conduct initial and final inspections of the Use Area as part of the Customer's process for utilizing recycled water.
- (e) Monitor the Customer's Recycled Water management practices.
- (f) Collect fees from Customers Recycled Water use and related services, as designated in the Master Fee Schedule, when such fees are developed.
- (g) Agents of the City, RWQCB, or DDW may enter and inspect the Use Area during reasonable hours, upon providing credentials and with 24 hours' advance notice or such notice as required by law, for the purposes of verifying that Customer is complying with these Rules and Regulations and to protect public health and the environment.
- (h) The City shall not be responsible for abatement of Cross Connections within a Customer's premises.

² [City of Fresno Public Works Standard Specifications, Addendum No. 4, Resolution No.70-36, Sections 33. Updated version approved January 2013.](#)

4. General Customer Responsibilities

Recycled Water Customers must comply with and enforce all aspects of these Rules and Regulations upon accepting Recycled Water service and finalizing the User Agreement. Customer responsibilities include but are not limited to the following:

- (a) Understanding that all Approved Uses of Recycled Water for the permitted Use Area are exclusively for non-potable uses as identified in Title 22, Division 4, Chapter 3, Article 3, Uses of Recycled Water
- (b) Obtaining all permits necessary to install, operate and maintain the On-Site Recycled Water System.
- (c) Granting the City an easement for construction of the Recycled Water Service Connection if the City decides to make provisions for delivery of Recycled Water to the proposed Use Area.
- (d) Paying for, furnishing, installing, operating and maintaining all facilities necessary for conveyance of Recycled Water from the point of connection (beginning at a flow control valve adjacent to, and following the water meter assembly) to the On-Site Recycled Water System, in a manner consistent with these Rules and Regulations and without harming or damaging any person or property.
- (e) Identifying and labeling all facilities associated with the On-Site Recycled Water System according to the type of water in each system.
- (f) Paying to install, connect and/or disconnect from the Recycled Water Service Connection in a manner ensuring no Recycled Water enters the Potable Water system.
- (g) Paying for, and furnishing, all necessary modifications to the On-Site Recycled Water System such as sprinkler changes, quick-coupler modifications or installations, modifications to prevent unauthorized discharges and additional requirements related to new or expanded systems (see Section 6).
- (h) Providing the City, a written notification, in a timely manner, specifying any material change or proposed change in the character of the use of Recycled Water.
- (i) Ensuring all materials used in operating and maintaining the On-Site Recycled Water System are approved/recommended for Recycled Water use.
- (j) Adhering to Use Area management practices as described in Section 7.
- (k) Submitting an Annual Self Inspection Report (Exhibit B); arranging and paying for a third party Cross Connection inspection once every four years using the Cross Connection Control Test Procedures outlined in Exhibit C.
- (l) Designating a Recycled Water Site Supervisor who is responsible for the On-Site Recycled Water System at each Use Area under their control (see Section 5).

5. Site Supervisor Responsibilities

The Recycled Water Site Supervisor is responsible for the On-Site Recycled Water System at each Use Area under their control. The Site Supervisor is responsible for proper installation, operation, and maintenance of the irrigation system; compliance with these Rules and Regulations, prevention of potential hazards and preservation of the Recycled Water distribution system plans in “as built” form. Specific responsibilities include but are not limited to the following:

- (a) Avoiding Cross Connections when installing, operating and maintaining pipelines, equipment and appurtenances associated with On-Site Recycled Water Systems.
- (b) Attending all Cross Connection tests.
- (c) Knowing and understanding the provisions of Title 17 and the Water Recycling Criteria relating to the safe use of Recycled Water; understanding basic concepts of backflow and Cross Connection prevention, system testing and related emergency procedures.
- (d) Maintaining a copy of these Rules and Regulations, irrigation system layout map and a Recycled Water system operations manual at the Use Area. These documents shall be available to operating personnel at all times.
- (e) Ensuring Recycled Water signs are fully legible and displayed at all irrigation sites, particularly areas with greater visibility and public use.
- (f) Training Use Area personnel on the Approved Uses of Recycled Water.
- (g) Providing the City with updated contact information of the supervisor and/or a designee to ensure operational and maintenance issues receive prompt attention.
- (h) Conducting a required annual self-inspection of the Use Area and submitting a monitoring report to the City (see Appendix A).
- (i) Coordinating a Cross Connection test by a third party every four years and ensuring the City receives documentation following the test.
- (j) Establishing and maintaining a record of all inspections, modifications, maintenance, employee trainings, permit documents, and communications with the City and other Regulatory Agencies.
- (k) Reporting all violations and emergencies to the appropriate Regulatory Agency.

5.1. Changing the Recycled Water Site Supervisor

The Customer must immediately notify the City of any personnel changes relating to the Recycled Water Site Supervisor position. In the event of any change, the new Site Supervisor must attend a Recycled Water Site Supervisor Certification Workshop within 90 days of the position change. Failure to attend this workshop may result in termination of Recycled Water service.

5.2. Recycled Water Site Supervisor Training

The Site Supervisor must attend a Supervisor Certification Workshop as recommended by the DDW and provided by the City, within the first 120 days of receiving Recycled Water service. Failure to attend the Site Supervisor Certification Workshop may result in the termination of Recycled Water service.

6. Facility Requirements

This section specifies the Rules and Regulations governing the design, installation and inspection of new and existing Recycled Water irrigation systems. Additionally, this section also covers the required Rules and Regulations governing design requirements at the service connection and on-site requirements for piping depth, separation requirements, vertical separation at crossings, pipe class specifications and depth of cover consistent with Title 22, Division 4, Chapter 16, Article 4 § 64572.

6.1. Design Requirements at the Service Connection

Each Recycled Water Service Connection will be equipped with a valve on both sides of, and adjacent to, the meter assembly. The valve on the inlet side of the meter assembly will be owned and maintained by the City and shall be used by the City to control the water supply through the meter assembly. The valve on the outlet side of the meter assembly will be owned and maintained by the Customer and shall be used by the Customer to control the flow of Recycled Water to the Use Area. City ownership and maintenance responsibilities of the service connection include the meter assembly and terminate at, and does not include, the valve on the Customer's side of the meter assembly.

(a) Air gap

If conveyance of Recycled Water is carried out with existing plumbing, Potable Water service will be disconnected from the On-Site Recycled Water System and an above-ground air gap will be installed. The air gap will be spaced so that a Reduced Pressure Principle Backflow Prevention Device may be installed by the City in the future.

(b) Swivel-ell

Except as otherwise allowed or prohibited by law, a swivel-ell may be used instead of an air gap for premises containment protection only when temporarily substituting recycled water use areas with potable water if all of the following criteria are met:

- (i) The swivel-ell installation has been approved by the SWRCB.
- (ii) The design and construction of the swivel-ell adheres to the criteria set forth in Exhibit E.
- (iii) The swivel-ell installation is inspected at least every 12 months and found to be in compliance with the design and construction related requirements set forth in Exhibit E.
- (iv) The potable reduced pressure (RP) device used in conjunction with the swivel-ell is field tested and found to be functioning properly:
 - (a) immediately upon each switchover to potable water use (a visual inspection is required),
 - (b) a field test must be completed within 72 hours of each

switchover to potable water use, and

(c) at least every 12 weeks, the use site is supplied with potable water.

- (v) The SWRCB/DDW will be notified within 24 hours of all switchovers to or from potable water, will be given an estimate of the time frame until the next switchover, and will be provided with the results of the required field testing of the RP device;
- (vi) Qualified City Water Division staff shall be present to supervise each switchover; and
- (vii) Within seven days of each switchover, if requested by the SWRCN/DDW, the Water Division will submit a written report describing compliance with all requirements applicable to the use of a swivel-ell, as well as potable and recycled water usage information.

(c) Future Connections

In the event of potential Recycled Water service interruption or failure, Customers may connect the On-Site Recycled Water System to the previous Potable Water supply provided that (a) Recycled Water supply is disconnected from the On-Site Recycled Water System and (b) a Potable Water service point is configured to allow for future connections.

6.2. Required Temporary Connection to Potable Water Service

Each On-Site Recycled Water System must pass a Cross Connection test prior to receiving Recycled Water. To facilitate this, the On-Site facility must be supplied with water via a temporary supply pipe to an on-site Potable Water system up to and during the Cross Connection test. After passing the test, the temporary supply connection must be removed and the system connected to the Recycled Water meter. On-Site Recycled Water Systems with no Potable Water within the Use Area, such as some streetscapes and medians, do not need to conduct a Cross Connection test and therefore do not need a temporary Potable Water source.

6.3. Conversion of Facilities

(a) Conversion from Potable to Recycled Water Use

No existing Potable Water facility shall be converted to, or incorporated into, a Recycled Water facility without proper testing and approval by the City. With the exception of pipe identification and pipe separation, On-site Recycled Water Systems for which the existing buried piping system is converted from Potable Water to Recycled Water must meet the same requirements as new facilities. However, any new buried piping added to existing piping at a converted Use Area must meet the identification and separation requirements for new systems. In addition, any existing piping uncovered for any reason during construction must be marked according to new pipe identification requirements to the extent feasible. Prior to the conversion of an existing Potable Water system to Recycled Water use, the Customer shall, at a minimum, submit Record Drawings and a report outlining the measures necessary to bring the system into full compliance to the City for review and approval.

(b) Conversion from Recycled to Potable Water Use

If the City determines it is necessary to convert Recycled Water facilities to Potable Water use, it shall be the responsibility of the Customer, at the Customer's cost and expense, to implement the following, as determined by the City:

- (i) Notify DDW of the intention to return to Potable Water use.
- (ii) Arrange to have the City disconnect and plug the Use Area Recycled Water Service Connection in a manner approved by the City.
- (iii) Shock the On-site Recycled Water System to be converted with 50 ppm of chlorine for 24 hours.
- (iv) Measure the chlorine residual after 24 hours. If a residual greater than 25 ppm is maintained, then continue to the next step. If the residual is below 25 ppm, then re-chlorinate by returning to the previous step until the chlorine residual can be maintained above 25 ppm.
- (v) Flush the On-site Recycled Water System with Potable Water and perform a standard bacteriological test. The final test results must be acceptable to the City before supplying the former On-site Recycled Water System with Potable Water.
- (vi) Install and test approved backflow prevention assemblies on all Potable Water meter connections as required by Cross Connection requirements.
- (vii) Remove all Recycled Water quick-couplers.
- (viii) Notify all Use Area personnel of the change.
- (ix) Remove all Recycled Water warning labels/signs from the On-site Recycled Water System and the Use Area.

- (x) Notify DDW both prior to and upon completion of conversion back to Potable Water.

(c) Temporary conversion to potable water with a swivel-ell

In the event of a disruption to the delivery of recycled water the customer may utilize their auxiliary potable back up (swivel-ell) if the requirements and conditions set forth in Section 6.1(b) have been met.

6.4. Recycled Water Piping Requirements

Construction of Recycled Water mains, facilities and appurtenances within the Recycled Water Project Area shall comply with design requirements as identified in the City's Standard Specifications.³ The specifications also include identification requirements for piping, valve boxes, quick couplers, sprinkler heads, signage boards and specifications for pipe sizing, depth, materials, identification tags and service assemblies. The "California Waterworks Standards" set forth minimum separation requirements for Recycled Water and water main lines. Refer to Title 22 California Code of Regulations § 64572 for specific horizontal and vertical separation distances between potable and recycled water lines.

7. On-Site Recycled Water Systems

The following requirements shall be met for new On-Site Recycled Water System facilities. Before Recycled Water is delivered to a Use Area, the site shall be assessed and retrofitted, as necessary, by the Customer in order to meet the requirements of this subsection. Customers shall furnish, install, operate, and maintain all On-site Recycled Water Systems and appurtenances necessary to convey water from the valve immediately following the meter assembly to the approved Use Area in a manner that does not harm or damage any person or property. Refer to Sections 5 and 6 for general City and Customer responsibilities regarding On-Site Recycled Water Systems. Plans, specifications and drawings of On-Site Recycled Water Systems shall be submitted to and approved by the City prior to construction.

7.1. Signage

All Use Areas that are accessible to the public shall be posted with conspicuous signs, not smaller than 4 inches by 8 inches in area and showing an international symbol for Non-Potable Water. The lettering on the signs must be a minimum of ½ inch in height and must be black or white on a purple background (See Figure 1 for an acceptable symbol). The signs must read "Recycled Water — Do Not Drink" in English, Spanish ("Agua Reciclada — No Beber") or any additional language that may be needed to reach the population or workers in the area. The User will be responsible for posting signs in all Use Areas visible to the public (such as site entrances), and at all valves, control boxes, and similar features. Use Areas that are prone to vandalism may place Recycled Water signage at higher elevations to avoid tagging, theft, and property damage.

Recycled Water signage may also be posted at any points where after-market clip-on purple rings are used for head identification of pop-up sprinklers, rotary sprinklers and shrub riser sprinklers.

7.2. Irrigation Requirements

Operation of all On-Site Recycled Water Systems shall comply with the Use Area irrigation requirements defined in Title 22 Code of Regulations, Division 4, Chapter 3, Article 4, § 60310.

³ [City of Fresno Public Works Standard Specifications, Addendum No. 4, Resolution No.70-36, Sections 33 and 34. Updated version approved January 2013.](#)

8. Department of Transportation

In cooperation with the City, the California Department of Transportation (Caltrans) shall permit the City to place transmission lines for Recycled Water in freeway rights-of-way to promote the beneficial use of Recycled Water so long as transmission does not unreasonably interfere with use of the freeway or unreasonably increase any hazard to vehicles on the freeway. Caltrans shall require the use of Recycled Water for irrigation of freeway landscaping as identified in Streets and Highways Code, Division 1, Chapter 1, Article 1, § 92.3.

9. Recycled Water Fill Stations

Commercial Customers may collect a bulk supply of recycled water at City-designated areas to offset potable water uses by agreeing to the terms and conditions of the user agreement for fill station Customers (<https://www.fresno.gov/publicutilities/wp-content/uploads/sites/16/2021/10/Recycled-Water-Fill-Station-Use-Application-and-Agreement-for-Commercial-Customers.pdf>). Commercial Customers may collect 300 gallons or more per load.

10. Cross Connection

IMPORTANT: No physical connection shall be made or allowed between any Recycled Water system and any potable water system.

10.1. General City Responsibilities

- (a) The City shall implement a Cross Connection control program as required by all provisions of Title 17, Division 1, Chapter 5, Group 4, Article 1, § 7584.
- (b) The Cross Connection control program may be implemented directly by the City or by means of a contract with the local health agency, or with another agency approved by the health agency.
- (c) The Cross Connection control program shall include the provision of at least one Cross Connection Control Specialist trained in cross-connection control to carry out the cross-connection program, the establishment of a procedure or system for testing backflow preventers, and the maintenance of records of locations, tests, and repairs of backflow preventers.
- (d) The City is not responsible for abatement of Cross Connections which may exist within a Customer's Use Area.
- (e) The City shall evaluate the degree of potential health hazard to the public water supply that may be created as a result of special conditions existing in a Use Area as identified in Title 17, Division 1, Chapter 5, Group 4, Article 1, § 7585.

10.2. General Customer Responsibilities

- (a) The Customer must pass a Cross Connection test before connecting the On-Site Recycled Water System to the Distribution System at any Use Area that uses both recycled and potable water.

- (b) The following elements are required for a Cross Connection test. See Exhibit C for specific Cross Connection Testing Procedure.
 - (i) The Customer must notify the City at least 48 hours prior to the test so that a City representative is present.
 - (ii) The test must be done once every four years under the supervision of the City and performed by an AWWA-certified Cross Connection Control Specialist.
 - (iii) The Recycled Water Site Supervisor must be present at the test.
 - (iv) A written report documenting test results must be submitted by the Cross Connection Control Specialist to the Recycled Water Site Supervisor and the City following test completion.

10.3. Emergency Preparedness

In case of earthquake, flood, fire, major freeze, nearby construction, or other incident that could damage the Recycled Water or Potable Water systems, the Site Supervisor must inspect all Potable Water systems and the On-site Recycled Water System for damage as soon as it is safe to do so. If either system appears damaged, both systems should be shut off at their points of connection. The Site Supervisor must immediately contact the City for further instruction.

To prevent contamination, damage, or a public health hazard, the Customer may make emergency modifications or repairs without the prior approval of the City. As soon as possible after the modification, but within 24 hours, the Customer must notify the City of the emergency modifications and file a written report within three days.

10.4. Emergency Cross Connection Procedures

In the event that a Cross Connection occurs or is identified, the following emergency Cross Connection response plan shall be implemented:

- (a) The Customer must notify the City by telephone immediately. This notification must be followed by a written notice within 24 hours that includes an explanation of the nature of the Cross Connection, date and time discovered, and the contact information of the person reporting the Cross Connection if different from the Recycled Water Site Supervisor.
- (b) The City will notify DDW and other Regulatory Agencies, as appropriate, of the reported Cross Connection.
- (c) Customer must immediately shut down the Recycled Water supply to the On-site Recycled Water System.
- (d) Customer must keep Potable Water systems pressurized and post "Contaminated Water – Do Not Drink or Apply to Food" signs at all Potable Water fixtures and outlets.
- (e) Customer must provide bottled water for employees until the Potable Water system is deemed safe to drink.

- (f) After DDW has provided final approval, the City will reestablish the Recycled Water service and inform the Customer to remove “Contaminated Water – Do Not Drink or Apply to Food” signage at Potable Water fixtures and outlets.

11. Backflow Prevention

Customers shall be responsible for ensuring that all Potable Water services into Use Areas are fitted with a Reduced Pressure Principal Backflow Prevention Device if one does not already exist. The backflow prevention device must be located as close as practical to the downstream side of every Potable Water meter. Backflow prevention devices must be properly maintained and tested by the User at least annually. Backflow protection is usually not necessary on Recycled Water irrigation systems as Recycled Water is non-potable. However, the City may require certain sites to install backflow prevention devices at the service connection if it is determined that a potential on-site backflow hazard exists; this protects the quality of Recycled Water in the Distribution System. Examples include:

- (a) Irrigation systems that are installed with direct injection chemical fertilizer capability; and
- (b) Irrigation sites where Recycled Water impoundment may cause a backflow hazard.

Refer to Title 17, Division 1, Chapter 5, Group 4, Article 2, § 7601 - § 7605 for requirements on construction and type of backflow preventers, feasible locations, and type of protection required.

12. Obtaining Recycled Water Service

12.1. Request for Service

Customers requesting recycled water service shall contact the Department of Public Utilities, which will determine if the proposed Use Area is in an area where Recycled Water is or will be available. If in the proposed Use Area is located in an area where Recycled Water is or will be available, Customer will be provided an “Application for the Use of Recycled Water” form (Exhibit A), which should be completed and returned to the City for process. Prior to receiving Recycled Water service, any proposed use of Recycled Water not listed on Title 22, Uses of Recycled Water, shall be approved by DDW.

12.2. Proposed Site Assessment and Inspection

Upon receipt of Application and before the On-Site Recycled Water System is connected to the Distribution System, the proposed Use Area will be inspected and an assessment will be made by the City for locations of potential Ponding, Runoff, Overspray, and other concerns. The City will indicate how the On-site Recycled Water System needs be designed in order to address potential violations of these Rules and Regulations.

12.3. Design Approval

Prior to constructing or modifying On-Site Recycled Water Systems, draft Record Drawings prepared by the Customer must be approved by the City. The Customer must meet all applicable design requirements for the Use Area to comply with these Rules and Regulations. The Customer shall submit to the City plans for the On-Site Recycled Water System utilizing City Standard format. No work shall begin by the Customer until plans and necessary permits have been approved and issued by the City.

12.4. Acceptance Inspection

- (a) Construction Inspection. The City will inspect Use Areas undergoing construction to incorporate On-Site Recycled Water Systems and appurtenances in conformance with the approved Record Drawings and applicable regulations. It is the responsibility of the Customer to notify the City of all planning and construction phases so that inspections can be scheduled.
- (b) Cross Connection Test. Any Use Area where both Recycled and Potable Water are present shall pass a Cross Connection test prior to connecting the On-Site Recycled Water System to the Distribution System. Refer to Section 11 and Appendix B for all Cross Connection requirements.
- (c) Final Inspection and Approval to Receive Recycled Water. The City will perform a final inspection to ensure all requirements have been met prior to establishing Recycled Water service. This inspection may be coordinated with the Cross Connection test. The inspector will check to see that the proper equipment was used and that all required tags, labels, and signs are in place. The City must grant final approval before Recycled Water may be supplied to the Use Area. Final approval will be granted when construction has been completed in accordance with approved Record Drawings, all Cross Connection tests have been performed, a final on-site inspection has been conducted, and all requirements have been met satisfactorily. After the User Agreement is finalized by the City and all applicable fees have been paid, the City will finalize the installation of the service connection with the service meter assembly. Upon request, DDW will be provided with a copy of all test and inspection reports as well as notification that Recycled Water service has started. For the lifetime of the On-site Recycled Water System, the City will periodically inspect the Use Area to ensure compliance with all applicable Rules and Regulations.

12.5. Coverage Test

Customers are responsible for minimizing Overspray, Runoff, and Ponding from their On-site Recycled Water System. The City will conduct an inspection of the On-site Recycled Water System; the Customer must contact the City to schedule a coverage test walk-through of the system. The Recycled Water Site Supervisor must be in attendance. All

modifications to the system are the responsibility of the Customer, and the Customer must pay all costs associated with such modifications.

12.6. Metering

All Recycled Water use shall be metered, and all Recycled Water used on any Use Area where a meter is installed must pass through said meter. Users shall be held responsible, and charged, for all Recycled Water passing through the meter(s), unless otherwise specified by the City.

12.8. Record Drawings

Customers must provide Record Drawings of the On-Site Recycled Water System to the City within 90 days of receiving Recycled Water. Record Drawings must indicate any and all changes in the work involving departures from the original contract drawings, including those involving both constant pressure and intermittent-pressure lines and appurtenances. Changes must be approved by the City before the Customer implements the changes in the construction contract. Exhibit D provides a list of information which must be included when submitting Record Drawings

12.9. Fees and Charges

Recycled Water Price and Related Costs. Customer shall pay all service and connection costs related to the use of recycled water. Customer shall pay a recycled water price of \$1.75 per 1,000 gallons. Should the City adopt a recycled water rate, Customer will be subject to that rate as mentioned in the User Agreement.

Recycled Water customers will pay all actual costs associated with connection to the recycled water distribution system, including all time and materials, until such time as a charge is established in the Master Fee Schedule. Customer will be provided an invoice detailing the City's actual time and cost for establishing the recycled water connection and Customer will be reimbursed or billed as necessary.

12.10. Disputed Recycled Water Bills

Any dispute over the accuracy of a Recycled Water bills shall be governed by Fresno Municipal Code (FMC) Article 1 – Billing and Collection Procedures for Municipal Utility Services, Section 6-104 (h)

12.11. Non-Registering Recycled Water Meter

When a meter is found to be out of order, the charge for Recycled Water will be governed by FMC Article 1 – Billing and Collection Procedures for Municipal Utility Services, Section 6-104 (j)

13. Service Termination

13.1. Turn-off at User's Request

A User may request that service be discontinued, either temporarily or permanently, by giving at least 30 days' advance notice to the City. The User assumes full responsibility for all meter and usage charges incurred from the effective date of service until User notifies the City to discontinue service.

13.2. Turn-off by the City

The City may discontinue a Customer's service for any of the following reasons:

- (a) Non-Payment of Bills. Service may be discontinued for nonpayment of any water charges by a User, subject to the terms of the User Agreement.
- (b) Non-Compliance. Service may be discontinued for non-compliance with the terms and conditions of the User Agreement or these Rules and Regulations, as specified in the User Agreement.
- (c) Water Quality. Service may be discontinued if, at any point in the City's Distribution System, the Recycled Water does not meet the quality requirements of the City or a Regulatory Agency. Service would, in such case, be restored at such time as Recycled Water again meets the quality requirements or at such time as the City supplements the Recycled Water system with water from other sources.
- (d) Non-Compliance with Regulations. Service may be suspended or terminated in the manner provided herein at any time the Customer's operations do not conform to these Rules and Regulations as determined by the City in its sole discretion. Where safety of water supply or public health is endangered, or Regulatory Agency regulations have been violated, service may be suspended immediately without notice. Otherwise, all defects noted shall be corrected within the period of time specified by the City.
- (e) Waste of Water. In order to protect against serious and negligent waste or misuse of Recycled Water, the City may provide notice of such waste and suspend service if such wasteful practices are not remedied after notice to such effect has been given to the Customer.
- (f) Unauthorized Use of Recycled Water. When the City has discovered an unauthorized use, the service may be suspended without notice.

13.3. Re-Establishment of Service

The City shall have the right to refuse to re-establish service following termination of service for violation of these Rules and Regulations or the terms of a User Agreement. If a Customer desires to re-establish service following the termination of Recycled Water service, the City may renew the original User Agreement, with modified terms and conditions to achieve compliance with these Rules and Regulations or terms of the User Agreement. . Any restoration of recycled water service to the Use Area that is desired by the Customer shall be the responsibility of the Customer and shall be at no cost to the City.

Exhibit A**APPLICATION FOR THE USE OF RECYCLED WATER, CITY OF FRESNO**

1. Customer Name:
2. Mailing Address:
3. Use Area Property Manager:
4. Property Manager Email:
5. Property Manager Telephone number:
6. Name of Recycled Water Site Supervisor:
7. Recycled Water Site Supervisor Telephone number:
8. Use Area APN:
9. Present source of water supply for irrigation:
☐ Domestic Well ☐ Ag Well ☐ FID ☐ City of Fresno ☐ Other:
10. Number of Domestic Wells in the Use Area:
11. Number of Ag Wells in the Use Area:
12. Total Irrigated Area (Acres):
13. Peak Recycled Water Demand: GPM and ☐ GPD ☐
MGD
14. Existing Water Pressure at Connection Point:
15. Maximum Water Pressure of Irrigation System:
16. Method of irrigation:
17. Irrigation days during peak use:
☐ Sat ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri
18. Watering window during peak use:
19. Irrigation Months:
20. ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☐ May ☐ Jun ☐ Jul ☐ Aug ☐ Sep ☐ Oct ☐ Nov
☐ Dec
21. Type of plant material or crop present:
22. Type of Recycled Water use: ☐ Landscape Irrigation
☐ Agricultural Irrigation
☐ Impoundments
☐ Other:
23. Public access to the Use Area is: ☐ Unrestricted ☐ Restricted

24. Number of outdoor drinking fountains in the Use Area:
25. Number of outdoor eating areas in the Use Area:
26. Number of impoundments in the Use Area (if any, briefly describe):
27. If the Use Area is Dual Plumbed, what is the type of facility to be served?
- ☐ Apartments/Condominiums
 - ☐ Commercial
 - ☐ Industrial
 - ☐ Institutional/Governmental
 - ☐ Single Family Residential
28. If dual plumbed use is for Single Family Residential, please complete the following:
- (A) Expected number of lots to be served upon subdivision completion:
- (B) Identify all common areas within the subdivision to be served with Recycled Water:
- (C) Recycled Water Application on Single Family lots: ☐ Frontyard ☐ Backyard
- (D) Type of Backflow Prevention to be used on each lot:
- (E) Is there a back-up supply for irrigation water? ☐ Yes ☐ No
- If yes, what is the water source?
29. The following Recycled Water meter locations are associated with this Use Area and User Agreement:

For City of Fresno Use Only

30. Check list of items required for obtaining Recycled Water service:

- ☐ The Customer and the City have determined that the Use Area is eligible to be served with Recycled Water.
- ☐ The Customer has submitted Exhibit A – Application for the Use of Recycled Water. Application received on:
- ☐ The City has reviewed the application.
- ☐ The City has assessed the Customer's on-site irrigation system and provided a description of required improvements.
Assessment performed on:
- ☐ The City has approved the plans and retrofit/construction schedule prior to retrofit/construction.
- ☐ The Customer has constructed/retrofitted the On-Site Recycled Water System.
- ☐ The City has provided the Customer an invoice detailing the City's actual time and cost for establishing the Recycled Water connection.
- ☐ The Customer has submitted "as-built" drawings to the City for record, including all remaining information requested by Exhibit B.
- ☐ The City has performed the final on-site inspection and approval, as specified in Exhibit C.
- ☐ The Customer has signed a Recycled Water User Agreement.
- ☐ The City initiates Recycled Water service. Date:
- ☐ The City confirms service to DDW.
- ☐ The City documents Recycled Water Site Supervisor training.

31. Description of on-site assessment and required improvements:

Exhibit B

USE AREA MONITORING REPORT

PART 1 - ANNUAL INSPECTION

1. **Site Name:**
2. **Site Address:**
3. Indicate regular hours of irrigation system operation:
From: Choose an item. **To:** Choose an item.

If you answer yes to any question from 4 to 11 list the corrective action in each case.

4. Is there evidence of runoff Recycled Water from the site? Show affected area(s) on a sketch. Fax sketch to (559) 498-1700, Attn: Reclamation Coordinator.

☐ **Yes** ☐ **No**

Corrective Action:

5. Is odor of wastewater origin emanating from the irrigation site? If present, indicate apparent sources, characterization, and direction of travel.

☐ **Yes** ☐ **No**

Corrective Action:

6. Is there evidence of ponding of Recycled Water, and evidence of mosquitoes breeding within the irrigation area due to ponding?

☐ **Yes** ☐ **No**

Corrective Action:

7. Are warning signs, tags, stickers and above-ground pipe markings properly posted to inform the public that Recycled Water is being used for irrigation, which is not suitable for drinking?

☐ **Yes** ☐ **No**

Corrective Action:

8. Is there evidence of plugged, broken, or otherwise faulty drip irrigation system emitters, valves, or sprinklers?

☐ **Yes** ☐ **No**

If yes, indicate which apply:

☐ Pop-up repair

Date: Click here to enter a date.

☐ Rotor repair

Date: Click here to enter a date.

- | | |
|---|---|
| ☐ Nozzle replacement | Date: Click here to enter a date. |
| ☐ Lateral repair | Date: Click here to enter a date. |
| ☐ Main-line repair | Date: Click here to enter a date. |
| ☐ Quick coupler repair | Date: Click here to enter a date. |
| ☐ Other | Date: Click here to enter a date. |

9. Are the irrigation controls working properly?

☐ Yes ☐ No

Corrective Action:

10. Is there evidence of direct spraying of Recycled Water on drinking water fountains, passing vehicles, buildings, and food facilities?

☐ Yes ☐ No

Corrective Action:

11. Has there been any construction or have there been any modifications done on the property within the last six months? If yes, please explain.

☐ Yes ☐ No

Explanation:

12. Annual Recycled Water Use / Application Rates

PART II - RECYCLED WATER SITE SUPERVISOR SIGN OFF

I, _____, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, and accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or disconnection of Recycled Water service.”

☐ By checking this box, I have read and agree to the statement above.

Signature of Recycled Water Site Supervisor: _____

Date: [Click here to enter a date.](#)

PART III – CHANGE OF ON-SITE SUPERVISOR, OWNERSHIP OR MANAGEMENT

If the on-site supervisor, property ownership or management has changed since the last inspection, fill out the following change of information:

New Owner/Management:**Address:***Street Name***City:****State:****Zip:****Email:****Phone:**

New On-Site Supervisor:**Address:***Street Name***City:****State:****Zip:****Email:****Phone:**

PART IV – SAVE, PRINT AND SUBMIT

Save, Print and Submit form to:

Attn: Reclamation Coordinator
Fresno-Clovis Regional Reclamation Facility
5607 W. Jensen Ave
Fresno, CA 93706

Or fax to: (559) 498-1700, Attn: Reclamation Coordinator

Exhibit C

CROSS CONNECTION PROCEDURE

The following is the required methodology for conducting Cross Connection control tests in Use Areas having both Recycled Water and Potable Water service. An AWWA-certified Cross Connection Control Specialist must perform the test using equipment dedicated for use with Recycled Water. Backflow testing equipment used for Recycled Water must not be reused on Potable Water systems.

Cross Connection Control Test Part 1

The Potable Water system shall be activated and pressurized. The On-Site Recycled Water System shall be shut down at its point of connection to the Distribution System and depressurized – this is usually done by manually bleeding a control valve or quick-coupling valve located in the lowest elevation of the On-Site Recycled Water System.

- (a) The Cross Connection Control Specialist will specify the amount of time that the Potable Water system shall remain pressurized while the On-Site Recycled Water System is depressurized. The size and complexity of the Potable Water and On-Site Recycled Water System will determine the minimum amount of time the On-Site Recycled Water System is to remain depressurized.
- (b) All On-Site Recycled Water System control valves, quick-coupling valves, irrigation systems and impoundment inlets shall be tested and surveyed for flow. If the On-Site Recycled Water System is shut down at its point of connection to the Distribution System, then continuous flow from any part of the On-Site Recycled Water System indicates a Cross Connection.
- (c) All water fixtures using Potable Water (hose bibs, faucets, drinking fountains, urinals, decorative fountains) shall be tested and surveyed for flow. No flow from Potable Water outlets indicates that it may be connected to the On-Site Recycled Water System and therefore constitutes a Cross Connection to be remedied.
- (d) Use Areas where no Cross Connections have been identified may proceed to part 2 of this test. If any Cross Connections are discovered, they must be disconnected and the Use Area must be re-inspected by an AWWA-certified Cross Connection Specialist per these procedures, beginning with Part 1 of the Cross Connection Control Test.

Cross Connection Control Test Part 2

- (a) The Potable Water system shall be shut down at its point of connection (usually the City-controlled valve immediately preceding the meter assembly) and depressurized. For multistory buildings, the Cross Connection Control Specialist will determine the amount of pressure to be

- reduced and monitored with a gauge installed at a low point of elevation in the Potable Water System.
- (b) The On-Site Recycled Water System shall then be activated and pressurized.
 - (c) The Cross Connection Control Specialist shall specify the minimum amount of time to pressurize the On-Site Recycled Water System while the Potable Water system is depressurized (or in the case of multistory buildings remains in a state of reduced pressure). The minimum amount of time the Potable Water system is to remain depressurized shall be determined by the Cross Connection Control Specialist.
 - (d) All water fixtures using Potable Water (hose bibs, faucets, drinking fountains, urinals, decorative fountains) shall be tested and surveyed for flow. If the Potable Water System has been shut down at its point of connection, then continuous flow from any part of the Potable Water system indicates a Cross Connection. Potable Water fixtures in multistory buildings may be inspected in combination with a pressure gauge, or the pressure gauge may be used instead of testing all fixtures. If the Potable Water system has truly been shut down at its point of connection, an increase in pressure viewed at the gauge over a period of time specified by the Cross Connection Control Specialist indicates a Cross Connection with the Recycled Water System.
 - (e) All On-Site Recycled Water System control valves, quick-coupling valves, and any other approved Use Area facilities (such as supply lines to impoundments) shall be tested and surveyed for flow. No flow from any On-Site Recycled Water System control valve, quick-coupling valve or Recycled Water fixture indicates a likely connection with the Potable Water system, and therefore constitutes a Cross Connection to be remedied.
 - (f) If no Cross Connections are identified, then the Potable Water system shall be re-pressurized. If any Cross Connections are discovered, the On-Site Recycled Water System must be re-inspected by a Cross Connection Control Specialist according to these procedures, beginning with part 1 of the Cross Connection Control Test.
 - (g) The Cross Connection Control Specialist performing the foregoing tests must report the results and return it to the Department of Public Utilities, Wastewater Management Division.

Exhibit D

REQUIRED INFORMATION FOR RECORD DRAWINGS

Customers shall submit draft Record Drawings during the process for obtaining Recycled Water service and then provide final as-built Record Drawings upon completion of all modifications to the On-Site Recycled Water System(s) and Potable Water System(s). Applicants shall submit drawings of each Use Area on 8½" x 11", 11" x 17" or 24" x 36" sheets of paper which shall include a signature line for the Department of Public Utilities approval.

Sheet 1

- ☐ Location and vicinity map including surrounding land use and adjacent streets demarking the Recycled Water Use Area.

Sheet 2

- ☐ Specific Potable Water irrigation use areas (if applicable).
- ☐ Location of Potable Water main lines, ancillary lines, gate valves, controllers, drinking fountains, and supply facility.
- ☐ Location and size of Potable Water service connections.
- ☐ Location and size of existing and future Recycled Water service connections.
- ☐ Location of all On-Site Recycled Water System distribution lines, gate valves, master valves, pressure regulating valves, and other associated facilities. Exception: Although it may not be possible to show the location of all water pipelines for existing irrigation systems converting to Recycled Water, all locations where future Recycled Water piping must be separated from the Potable water piping must be clearly indicated on the plans.
- ☐ Location of any other piping network piping, gate valves, strainers, controllers, and supply facilities, specifically all backflow prevention devices for Potable Water systems.
- ☐ Where applicable, indicate that the separation between Potable and Recycled Water lines meets minimum requirements. Also show sleeving and other cross-connection prevention measures where applicable.
- ☐ Areas of public access on the Use Area.
- ☐ Location of domestic wells on or within 100 ft. of the Use Area.
- ☐ Location of any lakes, ponds, reservoirs, or other impoundments located within the Use Area or within 100 feet of the Use Area, and indicate the type of water source.
- ☐ Location of Recycled Water signage on the Use Area.
- ☐ Location of foundations, buildings, structures, and public facilities with either Recycled or Potable Water service. Public facilities include, but are not limited to drinking fountains, outdoor eating areas, restrooms, snack bars, swimming pools, wading pools, decorative fountains and showers. Include the pipelines feeding all of these facilities.

- ☐ Any other features known or considered to be important to the on-site use of Recycled Water.
- ☐ Depiction of any other applicable On-Site Recycled Water System components as required by the Rules and Regulations.
- ☐ Include the Standard Notes specified by the City.

Sheet 3 (if applicable)

- ☐ Construction details of any domestic well within 100 feet of the Use Area.

Figure 1

NON-POTABLE DO NOT DRINK ACCEPTABLE FIGURE

