ORDINANCE NO. 2008-02

AN ORDINANCE OF THE PAJARO VALLEY WATER MANAGEMENT AGENCY ESTABLISHING RULES AND REGULATIONS FOR RECYCLED WATER CUSTOMERS IN CONFORMANCE WITH TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS

* * *

WHEREAS, in 1984, the State Legislature formed the Pajaro Valley Water Management Agency ("Agency") for the purpose, among others, of reducing long-term groundwater overdraft and seawater intrusion in the Pajaro Valley; and

WHEREAS, the Agency's Revised Basin Management Plan ("BMP"), adopted by the Agency's Board of Directors in 2002, establishes a comprehensive plan of projects and programs designed to increase the sustainable yield of the Pajaro Valley Groundwater Basin and halt seawater intrusion that threatens the Pajaro Valley's groundwater supply; and

WHEREAS, the use of recycled water from the Watsonville wastewater treatment plant is a key source of supplemental water as outlined in the BMP; and

WHEREAS, the Agency and the City of Watsonville are nearing completion of the Coastal Distribution System and the Recycled Water Treatment Facility, with deliveries of recycled water anticipated by Spring, 2009; and

WHEREAS, the State Department of Public Health (DPH) and the Regional Water Quality Control Board (RWQCB) have issued regulations to ensure that recycled water is produced, distributed and used safely, and which require the Agency, among other things to establish and enforce rules and regulations for reclaimed water users, governing the design and construction of reclaimed water use facilities and the use of reclaimed water, in accordance with uniform statewide reclamation criteria established pursuant to State law (Cal. Water Code §13521; and

WHEREAS, the Agency's *Rules and Regulations for Recycled Water Customers*, attached hereto and incorporated herein by reference, are designed to ensure that the Agency's recycled water system is operated in accordance with these state laws and guidelines, as well as the adopted policies and procedures of the Agency Board of Directors.

NOW, THEREFORE, be it ordained as follows:

SECTION 1. Adoption of Rules and Regulations. The *Rules and Regulations for Recycled Water Customers*, attached hereto and incorporated herein by reference, are hereby adopted and shall apply to all recycled water customers of the Agency.

SECTION 2: Severability. If any section, subsection, sentence, clause, phrase or portion of this Ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance. The Board of Directors hereby declares that it would have adopted this Ordinance and each section, subsection, sentence, clause, phrase or portion thereof, irrespective of the fact that any one or more section, subsection, sentence, clause, phrase or portion may be declared invalid or unconstitutional.

SECTION 3: Effective date. This ordinance shall be in full force and effect thirty (30) days after its adoption. The General Manager of the Agency is hereby directed to publish a copy of this ordinance in accordance with the requirements of California Government Code Section 6063 in a newspaper of general circulation within the Agency boundaries.

PASSED AND ADOPTED this 19th day of June, 2008, by the following votes:

AYES: Directors:Osmer,Cervantes,Eiskamp,Kegebein,Imazio,Dobler,Koenig
NOES: Directors: None
ABSENT: Directors: None
ABSTAIN: Directors: None

Dennis Osmer, Chair

ATTEST:

Veronica Barboza, Secretary

PAJARO VALLEY WATER MANAGEMENT AGENCY
RECYCLED WATER PROGRAM

RULES AND REGULATIONS

FOR

RECYCLED WATER CUSTOMERS

In conformance with Title 22 of the California Code of Regulations

Adopted by the
Pajaro Valley Water Management Agency
June 2008

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1.0 PURPOSE AND INTENT

The Purpose and Intent of the *Rules and Regulations for Recycled Water Customers* are to allow for the safe use of recycled water in the Pajaro Valley Water Management Agency's (PVWMA or Agency) service area by establishing:

- Protection measures for potable water systems.
- Procedures for permitting recycled water customers.
- Requirements for on-site recycled water systems.
- Requirements for operating recycled water systems.
- Charges for recycled water services.
- Ensuring compliance with Title 22 of the California Code of Regulations.

The effluent from the Watsonville Recycled Water Treatment Facility, which provides the recycled water supply for the Agency, will meet the highest Department of Public Health standards for recycled (also called reclaimed) water. These standards and requirements are embodied in Title 22 of the California Code of Regulations (Title 22). In meeting these requirements, the recycled water will be treated to tertiary levels and will include filtration and ultraviolet disinfection.

2.0 ADMINISTRATION OF REGULATIONS

The State Department of Public Health (DPH) and the Regional Water Quality Control Board (RWQCB) have issued regulations to ensure that recycled water is produced, distributed and used safely. The Agency's *Rules and Regulations for Recycled Water Customers*, (adopted pursuant to Ordinance No. _____), are designed to ensure that the Agency's recycled water system is operated in accordance with these state laws and guidelines, as well as the adopted policies and procedures of the Agency Board of Directors. The General Manager of the Agency is responsible for enforcing the regulations approved by the Agency Board of Directors which are necessary for the administration of the Agency's recycled water system in accordance with state laws and guidelines. The Agency Board of Directors may amend the regulations as conditions require. Recycled Water Customers are required to comply with the *Rules and Regulations for Recycled Water Customers* and its amendments to maximize the beneficial use of water recycled while complying with Title 22. These *Rules and Regulations* outline administrative procedures and permit conditions, basic instruction on how to obtain a Recycled Water

Use Permit, and established rules for Recycled Water Customers' on-site systems for distributing and using recycled water.

3.0 RECYCLED WATER SERVICE AREA

These *Rules and Regulations* pertain to recycled water provided by the PVWMA. The Agency intends to provide recycled water to customers within the Agency's boundaries as most recently redrawn by the Agency in 2002, and as defined in the Agency's enabling Act.

4.0 USES OF RECYCLED WATER

4.1 Authorized Uses of Recycled Water

The distribution of recycled water for agricultural irrigation by the Agency has been approved by DPH and RWQCB. Subject to the conditions of these regulations and specific permit requirements, permits will be issued by the Agency for the use of recycled water for agricultural irrigation. Other uses of recycled water distributed by the Agency are not allowed.

The Agency reserves the right to review each proposed use at each location for approval on a case-by-case basis. The Agency may reject any proposed specific use for reasons of safety, public health, public acceptability, technical feasibility or other concerns, for which the Agency's determinations shall be final. At its discretion, the Agency may set forth specific requirements as conditions for the permitted use. The Agency may also, at its option, require specific prior approval from RWQCB or DPH.

4.2 Prohibited Use Areas

Runoff Conditions - The agricultural irrigation systems shall be designed, constructed, and operated to prevent runoff outside the approved use area.

Ponding Conditions - The agricultural irrigation systems shall be designed, constructed, and operated to minimize ponding within the approved use area. This does not apply to approved impoundments. At no time shall recycled water be applied at a rate greater than the existing condition infiltration rate.

Windblown Spray Conditions - The agricultural irrigation systems shall be designed, constructed and operated to minimize windblown spray from passing outside the approved use area.

Prohibited Uses - Use of recycled water for any purposes other than those explicitly approved by the Agency, the State DPH, or the State RWQCB, or use of recycled water in areas other than those specifically shown on the approved plans, is strictly prohibited.

Disposal In Unapproved Areas - Disposal of recycled water for any purpose, including approved uses, in areas other than those explicitly approved in the current effective Recycled Water Use Permit issued by the Agency, and without the prior knowledge and approval of the appropriate regulatory agencies, is strictly prohibited.

5.0 SEVERABILITY

If any section, subsection, sentence, clause or phrase of these *Rules and Regulations* is found to be invalid or unconstitutional, the remaining portions of these *Rules and Regulations* shall remain unaffected. The PVWMA Board of Directors declares that it would have approved these *Rules and Regulations* by section, subsection, sentence, clause, or phrase irrespective of the fact that any one or more of the sections, subsections, sentences, clauses or phrases be declared invalid or unconstitutional.

6.0 RECYCLED WATER CUSTOMERS

6.1 Water Users Eligible for Recycled Water Service

Any water user in the Agency's boundaries (see Section 3.0 Recycled Water Service Area) with an applicable use of recycled water may apply for recycled water service. All recycled water customers will be subject to the requirements of Sections 6.2 and 6.3.

6.2 Allocation of Water to Recycled Water Customers

The Agency may, at its discretion, make the allocation of recycled water for the best and highest use of the water in a manner most efficient for preserving and restoring the groundwater basin.

The Agency may establish priorities for water assignments to balance salt loadings, meet customer needs, or based on other criteria. This prioritization shall be adhered to in the assignment of water deliveries.

6.3 Obligation of Recycled Water Customers

The Agency may, at its discretion, mandate that approved recycled water customers accept and use recycled water in a manner consistent with the allowed uses and these Rules and Regulations.

7.0 CONDITIONS OF SERVICE

7.1 Permit Required

The Agency will provide service after a Recycled Water Use Permit is issued. The Recycled Water Use Permit shall include any requirements specific to the Recycled Water Customer which shall apply in addition to these *Rules and*

Regulations. The Recycled Water Use Permit shall specify self-monitoring and periodic on-site observation requirements. The Recycled Water Use Permit shall be developed by the Agency during the permit application process.

7.2 Financial Conditions

Recycled Water Customers must maintain current accounts with the Agency and pay for all recycled water used, in addition to any other Agency fees or charges. Fees and charges for recycled water service shall be established by the Board of Directors in accordance with the requirements of State law, including Proposition 218.

7.3 Operational Conditions

All recycled water will be provided to the Recycled Water Customer under the terms and conditions and in the quantity specified in the Recycled Water Use Permit.

Liability. The Agency shall not be liable for any damage caused by the use of recycled water or resulting from defective plumbing, broken or faulty services or recycled water mains, off-site or on-site facilities failures, high or low pressure conditions, or interruptions of service. Recycled water may contain higher levels of certain salts and minerals than the customer's existing water supply. The Agency makes no expressed or implied guarantee that its recycled water is suitable for particular uses at any specific site, or that it is compatible with specific soils or crops. The Agency shall not be liable for damage to Recycled Water Customer's facilities, including soil, plantings or landscape elements, due to constituents in its recycled water. The Agency will provide guidance to customers on the successful use of recycled water, such as information on plant selection and irrigation practices. By accepting Recycled Water Service, the Recycled Water Customer agrees to hold the Agency, its employees, agents and officers harmless from and against any all loss, damage and/or liability which may be suffered or incurred by Recycled Water Customer in connection with the used of Recycled Water.

Suspension of Service. The Agency may temporarily suspend recycled water service at any time, and for any reason, including in the event the recycled water produced at the wastewater treatment plant does not meet the requirements of regulatory agencies. Recycled water service will, in such case, be restored as soon as possible, as determined by the Agency.

The Recycled Water Customer may terminate service if there are no longer suitable uses for recycled water at a site that is subject to a Recycled Water Permit.

7.4 Penalty for Violations

Public Nuisance. The use of recycled water in any manner in violation of these Rules and Regulations, or any permit issued hereunder is hereby

declared a public nuisance and shall be corrected or abated as directed by the Agency. Any person who violates any provision of these Rules and Regulations or any permit issued hereunder shall be liable pursuant to Section 1108 of the Agency Act for civil penalties in the amount of one thousand dollars ($1,000.00) per day for each day of that violation, in addition to any other penalties that may be prescribed by law.

Injunction. Whenever a use of recycled water is in violation of these Rules and Regulations, or any permit issued hereunder, or otherwise causes or threatens to cause a condition or nuisance, the Agency may seek injunctive relief as may be appropriate to enjoin such discharge or use.

Permit Revocation. In addition to any other statute or rule authorizing termination of recycled water service, the Agency may revoke a permit issued hereunder if a violation of any provision of these Rules and Regulations is found to exist or if use of recycled water causes or threatens to cause a nuisance.

Penalty. Any owner and/or operator who violates any penal provision of this Ordinance shall, for each day of violation, or portion thereof, be subject to a fine not exceeding $1000.00. In addition, recycled water service to the property may be terminated as a penalty for such violation.

7.5 Termination of Service

If any time during construction or operation of the recycled water system, real or potential hazards are evidenced, such as cross-connections with a potable system, improper tagging, signing, or marking, or unapproved/prohibited uses, the Agency may terminate immediately, without notice, recycled water service in the interest of protecting the public health. All modifications required to replace the recycled water supply with potable water shall be at the Recycled Water Customer's expense. Service shall be terminated if a customer is not in possession of a current Recycled Water Use Permit.

7.6 Amendments

From time to time there may be amendments to the existing *Rules and Regulations* as approved by the Agency Board of Directors by ordinance. These amendments may be made without the consent of the Recycled Water Customer. These amendments will be enforced upon their effective date.

8.0 RECYCLED WATER USE PERMITS

This section describes the permit application and details of the permit.

8.1 Permit Application Process

A completed *Recycled Water Use Permit Application* must be submitted to the

Agency by the owner or authorized representative of the property to be served with recycled water. Application forms are available from the Agency on request. Approval for service shall be indicated by the Agency's issuance of a *Recycled Water Use Permit*. This permit shall be in addition to any permits and conditions required by other agencies.

In addition to the *Recycled Water Use Permit Application*, the *On-site Recycled Water Service Plan* of the property must be submitted. The *On-site Recycled Water Service Plan* includes the site information necessary for the Agency to verify that recycled water will be used in a manner compliant with applicable rules and regulations. The *On-site Recycled Water Service Plan* will be in the form of a site map or sketch.

The application shall be signed by a principal owner or duly authorized representative of that person stating, under penalty of perjury, that the information contained is true and correct, and that the applicant agrees to comply with these *Rules and Regulations* and any and all other applicable governing documents.

The application package shall consist of the completed application form with the service plan.

Upon receipt of a completed application package, the Agency shall review the material and respond within thirty (30) calendar days of receipt of the complete application package. The Agency may require additional information if deemed necessary. The Agency shall determine if the property to be served is in a suitable area for recycled water use and if the necessary quantity and quality of recycled water can be made available to the applicant.

The permit shall be the binding agreement between the Agency and the Recycled Water Customer. The Recycled Water Customer shall report any changes (permanent or temporary) to the premises or operation that significantly change the volume or methods of recycled water use or any change in the ownership of the facility. A new application must be submitted to reinstate a permit that has been canceled or revoked.

8.2 Permit Conditions

Recycled Water Use Permits are subject to the following conditions:

The Recycled Water Use Permit is conditional on adherence to specific requirements in the *Rules and Regulations*. Other appropriate portions of Agency ordinances shall apply equally and fully to the recycled water distribution system and Recycled Water Customers.

If deemed essential to protect public health and safety and insure regulatory compliance, the Agency may impose additional permit conditions at any time.

The Agency reserves the right to immediately revoke the permit of any Recycled Water Customer found to be in violation of any permit condition and to shut off the recycled water without further notice.

The Recycled Water Use Permit shall be effective only after the site retrofit and Cross-Connection Test have been successfully completed and approved by the Agency. Final approval must also be obtained from the Agency General Manager or his/her designated representative.

A copy of the current permit must be available for review at all times at the use site and on file in the Agency office.

The permit shall incorporate reference information provided in the permit application. The application shall be attached to the permit.

8.3 Time Permit is in Effect

The Recycled Water Use Permit shall stay in effect for one (1) year unless one of the following occurs:

- Permit is revoked by the Pajaro Valley Water Management Agency.
- A change of property ownership occurs.
- A change of Recycled Water Customer occurs.
- The Recycled Water Customer applies for and is issued a new or amended permit.

8.4 Renewal of Permit

Recycled water use permits must be reapplied for by the Recycled Water Customer upon expiration, if recycled water service is to continue. Application for a permit to be renewed must be submitted to the Agency at least sixty (60) days prior to expiration of the existing permit. A time extension may be granted by the Agency for a period not to exceed sixty (60) days.

In all cases, documentation of the Cross-Connection Control Test is required for permit renewal (see Section 10.4).

8.5 No Transfer of a Permit.

Recycled water use permits are issued to a specific Recycled Water Customer for a specific operation. A recycled water use permit shall not be reassigned, or transferred or sold to a new owner, new customer, different premise, or a new or changed operation.

8.6 Other Applicable Codes and Regulations

Applicable rules and regulations, ordinances, and specifications that govern the use of recycled water within the Agency include the following documents, which are incorporated into these *Rules and Regulations* by reference:

DOCUMENT TITLE	AGENCY/ORGANIZATION
California Code of Regulations, Title 22, Division 4, Wastewater Recycling Criteria	California Department of Public Health
California Code of Regulations, Title 17, Regulations Relating to Cross-Connections	California Department of Public Health
Master Reclamation Permit for Distribution of Recycled Water (Order # R3-2008-0039)	Central Coast Regional Water Quality Control Board (Region 3)

9.0 ON-SITE REQUIREMENTS FOR RECYCLED WATER SERVICE

The intent of the *Recycled Water Use Permit Application* and the *On-site Recycled Water Service Plan* (see Section 8.1) are to show compliance with the requirements of this section.

9.1 Installation of Services

The Agency reserves the right to determine the size and location and/or type of recycled water service pipelines, service connections, meters, backflow protection devices and other physical appurtenances related to the recycled water service. All meters shall be installed by, or under the supervision of, the Agency. The meters shall be installed so as to be accessible at all times for inspection, reading and testing.

The Agency shall, at its own expense, furnish and install service pipe of suitable capacity from its recycled water mains to the customer's water meter, to the extent possible. Under certain circumstances, a property owner requesting recycled water may be required to finance the cost of extending the Agency's distribution pipeline to their site.

All meters and appliances installed by the Agency or one of its representatives, whether in a public right of way or upon the Recycled Water Customer's premises, shall continue to be the property of the Agency, and may be repaired, replaced or removed by the Agency at any time. The

Recycled Water Customer shall exercise reasonable care to prevent the meters and appliances installed upon the premises from being damaged or destroyed. The Agency shall be notified of any discovered defects. Any damage to a meter or other appliance or pipes owned by the Agency, caused by the carelessness or neglect of the Recycled Water Customer will be repaired at the Recycled Water Customer's expense.

The Recycled Water Customer shall install, maintain and repair service piping from the Agency butterfly valve downstream to his or her premises at his or her own expense, except as noted in Section 12.

9.2 Service Connection Limitations

The Agency reserves the right to limit the land area under one ownership supplied by a single recycled water service connection and a single recycled water meter. A recycled water service connection and its corresponding meter shall not be used to supply water to areas not shown on the User's On-Site Recycled Water Use Plan.

No person or persons shall open or in any way tamper with or make any addition or alteration whatsoever to any recycled water street main, service connection, meter, stopcock, valve, or air-cock connected with the recycled water mains.

Operating pressures in the recycled water distribution system shall be determined by the Agency. The Customer shall design or operate the on-site system using the available pressure.

9.3 Protective Measures

The following provisions are to protect potable water supplies against actual, undiscovered, unauthorized, or potential cross-connections to the Customer's recycled water system. These provisions are in accordance with Title 17 (Public Health) of the California Code of Regulations and are in addition to, not in lieu of, the controls and requirements of other regulatory agencies, such as the DPH.

Backflow Prevention. All Recycled Water Customers whose premises are served by recycled water and have a connection to a potable water system, a private potable water well, or a private irrigation/non-potable water well shall have backflow protection to protect against cross-connection with the recycled water system.

Backflow prevention devices or air gap separations shall be provided, installed, tested, and maintained by the Recycled Water Customer at customer expense. Test reports shall be submitted to the Agency's Water Recycling Program as directed.

Customer Responsibility. It shall be the responsibility of each Customer, at his or her own expense, to furnish, install, and keep in good working order and safe condition, any and all protective devices required by the Rules and Regulations. The Agency shall not be responsible for any loss or damage directly or indirectly resulting from the improper or negligent installation, operation, use, maintenance, repair or interfering with, any protective device by any Recycled Water Customer or any other person.

Requirements governing backflow prevention are intended to protect public and private potable water supplies. Customers are ultimately responsible for protecting against potential hazards of cross-connections within their own property.

Customer's On-Site Recycled Water Supervisor. It is the responsibility of the Recycled Water Customer to provide surveillance and supervision of the recycled water system in a way that assures compliance at all times with current regulations. In order to accomplish this, the Customer shall designate, with the approval of the Agency, an On-site Recycled Water Supervisor to provide liaison with the Agency. This person may represent the owner, tenant, or property manager as appropriate; however, he/she must be a permanent employee responsible for the recycled water system at the site, who is available at all times and has the authority to carry out any requirements of the Water Recycling Program.

The Recycled Water Customer must notify the Agency immediately of any change in personnel for the Customer's On-Site Recycled Water Supervisor position.

Cross-Connection and Backflow Prevention Device Testing. Prior to initiation of recycled water service, a cross-connection test shall be conducted to verify the absence of cross-connections between the potable and recycled water systems. Tests shall be performed by an AWWA-certified Cross-Connection Control Specialist in accordance with Agency procedures.

Prior to initiation of recycled water service, any backflow prevention devices installed on-site shall be tested to verify functionality. Tests shall be performed by an AWWA-certified Backflow Prevention Assembly Tester in accordance with Agency procedures.

Other Measures. Each time there is a change of Recycled Water Customer (either owner or tenant) on any premises, the owner or customer shall notify the Agency immediately. The Agency will then reassess the adequacy of the protection. Also, any alterations to existing on-site facilities that may affect required protection level must be reported immediately to the Agency.

Nontoxic tracer dyes may be introduced into the recycled water system by the

Agency where feasible, to determine the existence of any cross-connections or backflow conditions into a potable water system.

In the event of inadvertent violation of permit conditions or potential contamination of the on-site potable water supply, the Recycled Water Customer shall inform the Agency and immediately take action to correct the problem. If the problem cannot otherwise be immediately corrected, the Recycled Water Customer shall cease use of recycled water until compliance with the permit and protection of public health can be assured.

9.4 Facilities Design and Construction

Applicable Standards. Recycled water systems, both on-site and off-site, shall be separate and independent of any potable water systems except as noted. Systems must be designed so as to minimize the possibility of cross-connections.

On-site facilities, including new facilities required to retrofit existing systems, shall be designed and constructed according to the requirements, conditions, and standards of these Rules and Regulations, and other regulations in effect at the time of construction.

Retrofits. Where it is planned that an existing non-recycled water system be converted to a recycled water facility, the Customer shall include measures necessary to bring the system into full compliance with these Rules and Regulations in the User's Permit Application. No existing potable water facilities shall be connected to or incorporated into the recycled water system without the Agency's approval.

Signage and Public Notification. Adequate means of notification must be provided to inform the public, employees and others that recycled water is being used. The Recycled Water Customer may order and purchase signs from the Agency. If the signs are purchased elsewhere, a copy of the sign shall be submitted to the Agency for review and approval before they are installed. The Agency will review the sign and ensure that the requirements of the recycled water regulations, with respect to size, wording and international symbols, are met.

Identification of Recycled Water Facilities and Equipment. Components of a recycled water system shall be identified with appropriate signage, tags, tape, or other means to differentiate them from the potable system. The Agency will provide examples of identification devices and approved wording for such devices. The words on the signs shall be in a language appropriate for the Customer's irrigation personnel. The signs shall be in English and other appropriate languages to accommodate the Customer's irrigation personnel who do not read English.

The signs may also be in multiple languages, if necessary.

Facilities and equipment shall be identified as follows:

All above-ground equipment, including pumps, piping, storage reservoirs, valves, quick-couplers, etc., which may contain recycled water shall be clearly and adequately identified by purple color-coding tags, stickers and/or signage.

Water meters used for recycled water service shall be tagged and/or painted purple. These meters shall not be interchanged or used for potable water service after repairs and/or meter testing has been performed.

New recycled water piping, which is permanent in nature, shall be color coded purple with an approved warning notice embossed or integrally stamped/marked on the pipe. As an alternative, standard pipe may be wrapped with purple tape containing the warning notice. The tape shall cover at least one-half the circumference of the pipe and be securely fastened. The use of warning tape, placed in the trench above the pipe to identify its location, is encouraged, but does not fulfill this requirement.

Valves, strainers, controllers, and other appurtenances on the recycled water system shall be appropriately identified using purple paint, tags, stickers or other suitable means.

Quick-coupling valves on the recycled water system shall be visibly different from those used on the potable system. The use of Acme® threaded couplings for recycled water is preferred, and shall be required for sites where both recycled water and potable water quick coupling valves are present.

Customers shall maintain all signage and identification devices, and replace, repair or refurbish all devices as needed.

Vehicle Identification. Any vehicle used to transport recycled water shall be clearly marked with labels or signs. Any vehicle used for the transportation or storage of recycled water must not be reused for the transportation or storage of water intended for potable use.

Design Restrictions. Design for on-site recycled water distribution systems, including retrofits, shall observe the following restrictions and required separations:

Areas irrigated with recycled water must be kept completely separated from domestic water wells and reservoirs. Recycled water shall not be applied within 50 feet of any well used for domestic supply unless it the following conditions are met:

- A geological investigation demonstrates that an aquitard exists at the well between the uppermost aquifer being drawn from the ground surface.

- The well contains an annular seal that extends from the surface into the aquitard.

- The well is housed to prevent any recycled water spray from coming into contact with the wellhead facilities.

- The ground surface immediately around the wellhead is contoured to allow surface water to drain away from the well.

- The owner of the well approves of the elimination of the buffer zone requirement.

Recycled water shall not be used as a domestic or animal water supply.

Where practical, a separation of ten (10) horizontal feet shall be maintained where potable and recycled water lines run parallel. Where potable and recycled lines cross, the potable service shall be no less than one foot above the recycled service. The Agency may approve reduced separation distances if these preferred separation distances cannot be achieved.

Hose bibs are not to be installed on any recycled water system for any purpose. The use of quick couplers is permitted, subject to the identification requirements described above.

No impoundment of disinfected tertiary recycled water shall occur within 100 feet of any domestic water supply well.

Any irrigation runoff shall be confined to the recycled water use area unless otherwise authorized by the California Regional Water Quality Control Board.

Spray, mist, or runoff shall not enter any dwelling, designated outdoor eating areas, or a food handling facilities.

10.0 DESIGN, INSTALLATION, AND INSPECTION

10.1 Design Approval

Before the construction of any new recycled water system, major modifications of an existing recycled water system, or retrofit of an existing system for recycled water use, On-site Recycled Water Service Plans must be prepared by the Recycled Water Applicant and approved by the Agency. Approval shall be contingent upon evidence that all applicable design requirements, rules and regulations for a recycled water

system are satisfied.

10.2 On-Site Recycled Water Service

The *On-Site Recycled Water Service Plan* is to convey information on the above ground features on two plans: 1) the site plan and 2) the piping plan. The piping plan can be combined with the site plan if space permits.

Preparation of the *On-Site Recycled Water Service Plan* does not exempt the Recycled Water Applicant from submitting other on-site improvement plans normally required by local authorities. Other improvement plans required by a local authority must still be submitted in accordance with the local authority's standard procedures.

10.3 Basis for Plan Review Criteria

Review of *On-Site Recycled Water Service Plans* conducted by the Agency will consist of checking for conformance with various regulations and guidelines governing distribution of recycled water. Even though the Agency performs a plan check, the Applicant is not relieved of responsibility to meet all requirements. A brief description of applicable codes and regulations, in addition to these *Rules and Regulations* can be found in Section 8.6.

The Agency will review the *On-Site Recycled Water Service Plan* by checking that the plan complies with the regulations and guidelines governing the use of recycled water. The Agency will provide a copy of this checklist on request.

10.4 Cross-Connection and Backflow Prevention Device Tests

The Agency requires that Cross-Connection Tests be performed for Use Sites supplied with recycled water and with 1) a connection to a potable water system, 2) a private potable water well or 3) a private irrigation/non-potable water well. The Agency also requires that Backflow Prevention Assembly Tests be performed for Use Sites with installed backflow prevention devices.

Cross-Connection Control Inspection Team. All inspections and testing (except the Preliminary Cross-Connection Test) will be conducted by a team consisting of a certified AWWA Cross-Connection Control Specialist, the Customer's On-site Recycled Water Supervisor, and other personnel as required.

Preliminary Cross-Connection Test - Existing Sites. For sites that already have an irrigation system that is separate from the domestic (potable) service, the Agency may require that a preliminary test be conducted. This test would be performed before any retrofit work as a means of screening for potential cross-connections. The preliminary test is particularly useful for sites where the irrigation piping is complex or not well documented.

The test shall be done by the Applicant in the presence of an Agency staff

person. A cross-connection specialist does not need to be present for a Preliminary Cross-Connection Test.

Visual Inspection. Prior to delivery of recycled water, a visual inspection of the recycled water system shall be conducted by the Cross-Connection Control Inspection Team. The use area shall be inspected for possible cross connections with the potable water system. If possible, the visual inspection shall be conducted prior to the date scheduled for the final cross-connection test and after the completion of all retrofit work.

Final Cross-Connection Test. Prior to initial operation, the recycled water system within each facility and use area shall be inspected for possible cross connections with potable water systems. The Applicant shall provide proof of a final cross-connection test at any use site where both recycled and potable water are present in separate piping systems before the Agency connects the Applicant's recycled water system to the Agency's recycled water system. This test is to ensure the absolute separation of the recycled and potable water systems.

Backflow Prevention Device Test. Prior to initial operation, any backflow prevention devices shall be tested to verify functionality. A certified AWWA Backflow Prevention Assembly Tester shall perform the backflow prevention device tests. The Applicant shall provide proof of backflow prevention device testing before the Agency connects the Applicant's recycled water system to the Agency's recycled water system.

Periodic Cross-Connection and Backflow Prevention Device Tests. After the site has been approved and placed in operation, a visual inspection by the Agency shall be performed and passed at a minimum of once per year. This inspection may take place during a routine inspection or may be scheduled for a separate time. The Cross-Connection Control Test shall be performed and passed a minimum of once per year. The Backflow Prevention Device Tests shall be performed and passed a minimum of once per year. The Agency may require more frequent Cross-Connection or Backflow Prevention Device testing, if conditions dictate.

10.5 Construction Inspection

The Agency or designated representatives may conduct on-site inspections during the construction phase to ensure that materials, installation and procedures are in accordance with the approved plans, specifications, and all applicable regulations. Accordingly, the Recycled Water Customer shall notify the Agency of the schedule for all phases of planning, construction and start up.

10.6 Field Testing and Inspection

All systems shall conform to the requirements of the most recent Uniform

Plumbing Code as applicable, except intermittent pressure piping. During the coverage test with recycled water, the irrigation system will be inspected for proper use of full, half, and quarter sprinkler heads with head mounted metal deflectors, proper atomizing, and irrigation spray on non-approved use areas.

10.7 Installation of Turnouts

Recycled water turnouts shall be installed at the location and size designated by the Agency General Manager. Service installation shall be made only to property abutting on public streets or abutting on such distribution mains as may be constructed in public rights-of-way or easements.

10.8 Changes in Customer's Equipment

Customers making any material change in the size, character or extent of the equipment or operations utilizing recycled water service, or whose change in operations results in a large increase in the use of recycled water, shall immediately give the Agency written notice of the nature of the change and, if necessary, amend their application.

10.9 Pressure Conditions

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 service connection, and shall hold the Agency harmless for any damages arising out of low pressure or high pressure conditions or interruptions in service.

10.10 Meters

All services, whether temporary or permanent, unless otherwise specified, shall be metered. A Meter and Turnout Connection, whether located on public or private property, shall remain the property of the Agency, unless specifically otherwise provided. The Agency reserves the right to repair, replace and maintain it, as well as, to remove it upon discontinuance of service.

Meter Installations. Meters shall be installed within a recorded easement and shall be the property of the Agency. No rent or other charge shall be paid by the Agency for a meter or other facilities including housing and connection, located on a Customer's premises. All meters shall be sealed by the Agency at the time of installation, and no seal shall be altered or broken except by one of its authorized employees or agents.

Change in Location of Meters. Meters moved for the convenience of the Recycled Water Customer will be relocated at the customer's expense. Meters moved to protect the Agency's property will be moved at the Agency's expense.

10.11 Final Inspection

A final on-site inspection will be conducted by the Agency or its designated

representatives before the recycled water system is connected to ensure all requirements have been met. This inspection should occur after the final Cross-Connection Test. The Agency Field Inspector will check to see that the proper equipment was used and that all required tags, labels, and signs are in place. This inspection shall include a coverage test. This will allow the inspector to verify that conditions, which create runoff or windblown spray outside the approved use area and/or ponding within the use area, do not exist. Spray patterns will be checked to see they do not encroach upon public facilities such as drinking fountains, outside eating areas, or areas outside the approved use area.

10.12 Final Approval

Final approval must be granted by the Agency before recycled water can be supplied to the site. Final approval will be granted when construction has been completed in accordance with approved plans, all cross-connection tests have been performed, a final on-site inspection has been conducted, and all requirements have been met satisfactorily. After the Recycled Water Use Permit is finalized by the Agency and all applicable fees have been paid, the Agency will authorize the installation and use of the turnout. During the lifetime of the recycled water system, the Agency may periodically inspect the recycled water system to ensure compliance with all applicable rules and regulations.

11.0 RECYCLED WATER FACILITIES OPERATION

11.1 Conditions of Service

All requirements outlined in this section shall be Conditions of Service, unless modified in the Recycled Water Use Permit. By accepting recycled water service, the Recycled Water Customer agrees to comply with all Conditions of Service.

11.2 Off-Site Facilities

Operation, maintenance and surveillance of all Agency off-site recycled water systems, including recycled water pipelines, valves, connections, storage facilities, and other related equipment and property up to and including the recycled water meter shall be under the management and control of the Agency. No other persons except authorized representatives of the Agency shall have the right to enter upon any of the off-site facilities. Only Agency personnel and their representatives shall operate, adjust, change, alter, move or relocate any portion of the off-site recycled water system.

11.3 On-Site Facilities

On-site facilities are defined as the recycled water system downstream of the check valve on the turnout from Agency's distribution system. The Recycled Water Customer shall have the following responsibilities pertaining to

operation of on-site facilities:

- To designate a Customer's On-Site Recycled Water Supervisor for the site. The designated Customer's On-site Recycled Water Supervisor shall have primary responsibility to perform the other requirements in this section.

- To maintain accurate drawings of the on-site recycled water distribution system. The drawings must be available for review by the Agency on request.

- To notify the Agency of all updates or proposed changes, modifications, or additions to the recycled water on-site facilities. All updates and proposed changes to permanent facilities shall be approved by the Agency prior to construction in accordance with Agency procedures. Converting any piping used at any time for conveyance of recycled water back to potable water is prohibited.

- To operate and maintain all recycled water facilities in accordance with these Rules and Regulations and other regulations governing recycled water systems within the Agency.

- Maintaining the on-site recycled water system, signs, markings, and tags in accordance with all rules and regulations.

- Ensuring all materials used during the repair and maintenance of the system are approved or recommended for recycled water use.

- To ensure that the Recycled Water Customer's employees are properly trained in the application of recycled water and worker protection.

- To report to the Agency any and all failures in the recycled water system that cause an unauthorized discharge of recycled water.

- To operate and control the system in order to prevent direct human consumption of recycled water and to limit runoff. The Recycled Water Customer shall be responsible for subsequent uses of the recycled water.

11.4 Damage to Recycled Water System Facilities

The Recycled Water Customer shall be liable for any damage to the Agency recycled water service facilities when such damage is from causes originating on the User's site by an act of the Recycled Water Customer or his or her tenants, agents, employees, contractors, licensees or permittees, including the breakage or destruction of locks by the Recycled Water Customer or his or her

tenants, agents, employees, contractors, licensees or permittees on or near a meter. The Agency shall be reimbursed by the Recycled Water Customer for any such damage promptly on presentation of a billing statement.

11.5 Personnel Training

On-site Recycled Water Supervisor. The Agency will provide training to the Customer's On-site Recycled Water Supervisor on the *Rules and Regulations* and methods for training operations personnel at the use site.

Recycled Water Customer Personnel. It is the responsibility of the Recycled Water Customer to train all operations personnel so they are familiar with the use of recycled water. Any training program is required to include, but is not limited to, the following items:

- Recycled water shall not be used for human consumption.
- Operations personnel must be aware that recycled water, although highly treated, is non-potable.
- Operations personnel must understand that there is never to be a direct connection between the recycled water system and the potable water system, except as allowed with proper backflow prevention.
- Operations personnel must be aware of the emergency procedures.
- Operations personnel must understand the requirements and restrictions pertaining to ponding, windblown spray, and runoff.
- Operations personnel must follow good personal hygiene before, during and after recycled water operation.
- Operations personnel must understand that working with recycled water is safe, if good common sense is used and appropriate regulations are followed.
- Operations personnel must understand the health and safety aspects of Title 17 and Title 22 requirements.

All new employees shall be trained in the proper use of recycled water within one (1) month of their start of employment. Existing employees shall receive refresher training at a minimum of every two (2) years. The Customer shall maintain records of personnel training, available to Agency staff upon request. The Customer's On-Site Recycled Water Supervisor and their staff are held accountable to ensure that employees are not using recycled water carelessly or hazardously.

11.6 Maintenance

The Recycled Water Customer shall begin a preventive maintenance program that will ensure that the recycled water system always remains in compliance. The preventive maintenance program is required to include, but is not limited to the following:

- Regular inspections shall be conducted by the Recycled Water Customer of the entire recycled water system including sprinkler heads, drip irrigation system emitters, spray patterns, impoundments, piping and valves, pumps, storage facilities, controllers, etc.

- Customer shall immediately correct any leaks, breaks, or discrepancies in permit requirements.

- All warning signs, tags, stickers, and above-grade pipe markings shall be checked for their proper placement and legibility. Replace damaged, unreadable, or missing signs, tags, stickers, and pipe markings.

- Special attention shall be given to spray patterns to eliminate ponding, runoff and wind- blown spray conditions. If runoff is noted, affected areas shall be indicated on a sketch and the volume shall be estimated. If unauthorized ponding is detected, evidence of mosquitoes breeding within the ponding shall be noted and immediately eliminated.

- Establish and maintain an accurate, record-keeping system of all inspections, modifications and repair work.

- Broken sprinkler heads, faulty spray patterns, leaking pipes or valves, or any other noted condition that violates the use requirements shall be repaired immediately after the malfunction or condition becomes apparent.

No modifications shall be made by the Recycled Water Customer to their permanent recycled water facilities without the prior approval of the Agency. This includes modifications to the approved plans or to an operational system. Detailed plans of any modifications must be submitted to the Agency and the modifications inspected by the Agency before being completed.

11.7 Monitoring and Inspection

The Agency will set individual Recycled Water Customer monitoring requirements based on the size, volume used, complexity, etc. of each use area. Recycled Water Customer self-monitoring shall be conducted at a frequency specified in the Recycled Water Use Permit. The schedule and deadline for submittals of the self-monitoring report is indicated in the Recycled Water Use Permit. A copy of the self-monitoring report form can be obtained from the Agency. Self-monitoring programs will be at Recycled Water Customer's expense.

All observations noted in the self-monitoring report form shall be followed by a discussion on when and how deficiencies were corrected. Written records shall be maintained for a period of at least three years. Recycled Water

Customers whose permits specify self-monitoring shall submit copies of all records to the Agency The Agency will compile and file self-monitoring reports with the Regional Water Quality Control Board, as required in the Regional Water Quality Control Board permit for distributing recycled water.

The Agency may conduct periodic random inspections of the Recycled Water Use Sites to ensure compliance with these *Rules and Regulations*. The number of random inspections will be determined by the Agency based on the individual site's size, volume used, complexity and previous record of compliance with requirements. There will be a minimum of one inspection a year. Inspections shall be performed when recycled water is being used. A copy of the Agency's inspector monitoring report form can be obtained from the Agency.

These inspections shall include, at a minimum, the visual inspection of all backflow prevention devices, pumps, exposed piping, valves, pressure-reducing stations, points of connection, sprinklers, drip system emitters, controllers, impoundments, storage facilities, signs, labeling, tags, etc. The Customer's On-Site Recycled Water Supervisor's self-monitoring records shall be inspected to review all observations since the last inspection. The Agency and RWQCB reserve the right to make unannounced inspections of the facility during reasonable hours of operation.

Recycled Water Customers shall allow access by personnel from the Agency or the Regional Water Quality Control Board to all areas of the site where recycled water is being used during daytime hours and during all times when recycled water is being used. Where a Recycled Water Customer has security measures in force that would require proper identification and clearance before entry onto its premises, the Recycled Water Customer shall make necessary arrangements with its security guards so that upon presentation of suitable identification, personnel from the Agency or the RWQCB will be permitted to enter without delay for the purpose of performing their specific responsibilities. The Agency may inspect and copy applicable records or reports located at a facility of any Recycled Water Customer to confirm information submitted in the self-monitoring reports.

11.8 Periodic Cross-Connection and Backflow Prevention Device Testing

See discussion in Section 10.4.

11.9 Hours of Operation

Customer's hours of operation shall be included in the Recycled Water Use Permit Application.

11.10 Scheduled Deliveries

In order to maintain acceptable working conditions throughout the recycled water system, the Agency may schedule recycled water use. Such scheduling

may involve programming deliveries to different customers and/or to various portions of a single customer's on-site system. Any scheduling shall consider applicable constraints of all involved regulatory agencies, these Rules and Regulations, and the operating constraints of the affected Recycled Water Customers.

11.11 Maintaining and Updating Site Plan Drawings

The Recycled Water Customer shall prepare drawings to show the recycled system as constructed and shall include all changes in work constituting departures from the original On-Site Service Plan drawings including those involving both constant-pressure and intermittent-pressure lines and appurtenances.

11.12 System Not in Compliance

If at any time the recycled water system is found to be out of compliance, the Agency shall issue an order specifying the corrections required to bring the system into compliance. A site inspection shall be scheduled after a reasonable period of time to ensure compliance with the order. If it is known or suspected that a backflow incident or contamination has occurred, then the Emergency Cross-Connection Response Procedures (Section 11.16) shall be invoked.

11.13 Notification

It is the responsibility of the Customer's On-Site Recycled Water Supervisor to notify the Agency of any failure or cross-connection in the recycled water or potable water system, whether or not he/she believes a violation has occurred. If there are any doubts whether a violation has occurred, it is the responsibility of the Customer's On-site Recycled Water Supervisor to report each occurrence to the Agency so a decision can be made.

11.14 Reporting of Emergencies

The Recycled Water Customer shall report all emergency situations to the Agency. The Agency maintains an on-call operator that emergency can be reported to at (831) 750-6265.

11.15 Emergency Procedures

In case of a major earthquake, flood, fire, tornado, structural failure, or other incident which could likely damage the recycled or potable water systems, the Customer's On-Site Recycled Water Supervisor shall inspect the domestic and recycled water systems for damage as soon as it is safe to do so. If either system appears damaged, both the domestic and recycled water systems shall be shut off at their points of connection. If the Customer's On-Site Recycled Water Supervisor cannot inspect the site and damage is expected, then both water systems shall be shut off at their points of connection. The Customer's On-Site Recycled Water Supervisor shall immediately contact the Agency for further instruction.

Unauthorized Discharge. It is the responsibility of the Recycled Water Customer to report to the Agency all system failures that result in an unauthorized discharge of recycled water. An immediate oral report to the Agency is required and a written report is required within 30 days of the unauthorized discharge. The report shall describe the cause of the discharge, public health impacts, and corrective actions taken to prevent the reoccurrence of the unauthorized discharge. The Recycled Water Customer must make every effort to contain the unauthorized discharge. Contact the Agency for disposal instructions.

Contamination of Drinking Water. In case of contamination of a potable water system due to a cross-connection on the Recycled Water Customer's premises, the Recycled Water Customer shall immediately notify the Agency. The Agency will then notify the State DPH. The Recycled Water Customer is to immediately invoke the Emergency Cross-Connection Response Procedures (Section 11.16).

Emergency Modifications. Emergency modifications or repairs can be made to the system by the Recycled Water Customer to prevent impact, damage or a public health hazard without the prior Agency approval. As soon as possible after the modification, but not to exceed 24 hours, the Recycled Water Customer must notify the Agency of the emergency modifications and file a written report.

11.16 Emergency Cross-Connection Response

The Agency shall set procedures for Recycled Water Customer to implement in the case of a backflow incident or cross-connection is suspected or occurs.

12.0 RECYCLED WATER CHARGES

12.1 Rates, Fees, Charges

General. Rates and fees for recycled water service shall be established by the PVWMA Board of Directors, in accordance with the requirements of State law including Proposition 218. Any changes in fee schedules shall be automatically adopted into these Rules and Regulations.

Change of Rates or Charges. The Agency reserves the right to change the schedule of recycled water rates, service charges and any other charges, or fees at any time.

12.2 Meter Reading

Meters will be read quarterly (90 day cycle) and may be adjusted at the option of the Agency.

12.3 Non-Registering Meters
If a meter is found not to be registering, the charges for service shall be based on the estimated consumption. Such estimates shall be made from previous consumption reports for a comparable period or by such other method as is determined by the Agency and its decision shall be final. All non-registering meters will be pulled and replaced.

12.4 Meter Misreads
If Agency personnel misread a meter during a billing cycle, the Agency will adjust the cycles that are affected and specifics will be provided to the customer detailing the adjustment.

12.5 Billing Period
The regular billing period will be quarterly (90 day cycle) and may be adjusted at the option of the Agency.

12.6 Opening and Closing Bills
Opening and closing bills for less than the normal billing period shall be prorated both as to minimum charges and quantity blocks. Closing bills may be estimated by the Agency for the final period as an expediency to permit the customer to pay the closing bill at the time service is discontinued.

12.7 Payment of Bills
Bills for recycled water service shall be presented at the end of each billing period to include the charge for recycled water deliveries from the previous period. Each bill for recycled water service shall contain the following statement:

"All recycled water bills are due and payable upon presentation. If this bill is not paid on or after sixty days following the bill, service may be discontinued. A reconnection charge and penalty charges, if any, will be collected prior to renewing service following a discontinuance."

12.8 Billing of Separate Meters Not Combined
Separate bills will be rendered for each service connection or meter installation except where the Agency has, for its own convenience, installed two or more meters in place of one meter. Where such installations are made the meter readings will be combined for billing purposes.

12.9 Delinquencies of Payment
Accounts more than ninety (90) days delinquent may result in closing the account and disconnecting the service from the Agency's Recycled Water System if the Agency General Manager determines that the Customer is not making good faith efforts to pay past due amounts. The Recycled Water Customer of the closed account will be required to pay the past due amount in

full and the re-connection charge (per Section 12.1)1 before the recycled water service will be restored.

12.10 Discontinuance for Non-Payment
Service may be discontinued for non-payment of bills on or after sixty (60) days following the bill if arrangements for payment have not been made with the Agency General Manager (See Section 12.9). At least ten (10) days prior to such discontinuance the Recycled Water Customer will be sent a final notice informing him/her that discontinuance will occur if payment is not made within the time specified in said notice. Failure of the Agency to send or any such person to receive said notice, shall not affect the Agency's power hereunder.

12.11 Re-Connection Charge
Between the hours of 8:00 a.m. and 4:00 p.m., a re-connection charge of one hundred dollars ($100.00) will be made prior to renewing service following a disconnection. If after 4:00 p.m., re-connection charge of one hundred and fifty dollars ($150.00) will be made prior to renewing service following a disconnection.

12.12 Payment After Re-Connection
Recycled Water Customers who have had their service disconnected for delinquency or non-payment (See Sections 12.9 and 12.10) will be required to establish a pre-payment system with the Agency. The terms and conditions of the pre-payment system will be set by the Agency General Manager.

12.13 Upon Vacating Premises
Recycled Water Customers desiring to discontinue service shall notify the Agency not less than two (2) business days (days of business are Monday through Friday) prior to vacating the premises. Unless notice of discontinuance of service is given, the Recycled Water Customer shall be liable for all charges whether or not any water is used.

12.14 Notification of Leak
Failure by the Recycled Water Customer to repair a leak(s) (in excess of 10 gallons per minute) on the premises within 48 hours of written notification by the Agency will result in a disconnection of service until the leak(s) is repaired and subject the Recycled Water Customer to a re-connection charge pursuant to Section 12.11.

12.15 New Recycled Water Rates
The commodity charge rates for recycled water consumed from Agency owned recycled water projects are established by ordinance.

12.16 Site Retrofit Costs
The following retrofit materials and services will be provided by the Agency at

no cost to the Recycled Water Customer:

- Review of User's On-Site Recycled Water Use Plan (to be provided by the Agency or Agency's representative only).
- Site visits during the Recycled Water Permitting process.
- On-going use site monitoring visits by Agency staff.
- Required scheduled testing of on-site recycled water system.
- Recycled water meter.

The following services shall be provided by and/or paid for by the Recycled Water Customer:

- Design and construction of on-site piping and appurtenances that may be required to provide recycled water to new or existing use areas.
- Backflow prevention on connections to a public potable water system, potable wells, and irrigation wells.
- Materials for on-site piping and appurtenances associated with construction or retrofit of the on-site recycled water system, including materials for protection of overspray.
- Installation and purchase of signs, valve tags, identification devices, on-site piping and appurtenances, or other services.
- All Recycled Water Customer administrative costs associated with construction, retrofit and operation of the on-site recycled water system.
- Operation, maintenance, and monitoring of the on-site recycled water system in accordance with the *Rules and Regulations* for Recycled Water Customers and the Recycled Water Use Permit.
- Other materials or services, which may be specified by the Agency.

END OF RULES AND REGULATIONS