

# ATTACHMENT E

ORDER R5-2013-####

**WASTE DISCHARGE REQUIREMENTS  
AND  
MASTER RECYCLING PERMIT  
CITY OF TULARE  
WASTEWATER TREATMENT FACILITY  
TULARE COUNTY**

## **RULES AND REGULATIONS FOR RECYCLED WATER USE PROJECTS**

Pursuant to California Water Code (Water Code) section 13523.1 (b)(3), this Order requires the City of Tulare to establish and to enforce rules and regulations governing the design, construction and use of recycled water distribution and disposal systems by its customers. The rules and regulations shall be consistent with the following criteria:

- Health and Safety Code, Division 6, Part 1, Chapter 4, Article 1;
- Health and Safety Code, Division 104, Part 12, Chapter 4, Article 7;
- Health and Safety Code, Division 104, Part 12, Chapter 5, Article 2;
- Water Code, Division 7, Chapter 7;
- California Code of Regulations, Title 22, Division 4, Chapter 3;
- California Code of Regulations, Title 17, Division 1, Chapter 5, Group 4, Articles 1 & 2;  
and
- Any measures that are deemed necessary for protection of public health, such as guidelines from the California Department of Public Health and from agencies like the American Water Works Association.

At a minimum, the City shall implement rules and regulations requiring, and notify recycled water users that:

1. The use of recycled water shall not cause pollution, contamination, or nuisance, as defined by section 13050 of the Water Code.
2. **Prior to commencing irrigation with recycled water** on any Use Area not described in this Order, the City shall submit documentation that the California Department of Public Health has approved a Title 22 engineering report for the project and documentation of compliance with the California Environmental Quality Act (CEQA).
3. If, in the opinion of the Executive Officer, reclamation at a proposed new use site cannot be adequately regulated under the Master Recycling Permit, a Report of Waste Discharge may be requested and individual Water Recycling Requirements may be adopted.
4. **At least 30 days prior** to conveying recycled water to any Use Area not described in this Order, the Discharger shall submit a User Report to the Central Valley Water Board and the California Department of Public Health. The User Report shall include the following:
  - a. The site location including a map showing the specific boundaries of the use site and the County Assessor's Parcel Number(s) (if appropriate, if Parcel Number(s) are not appropriate to accurately describe the site location, the Discharger shall provide the Central Valley Water Board with enough information for the Central Valley Water Board to accurately determine the location of the proposed reclamation activities);

- b. The name of the Use Area property owner and contact information;
  - c. The name of the User and contact information;
  - d. The specific use to be made of the recycled water, the Use Area acreage, the type of vegetation/crops to which the recycled water will be applied, and the anticipated volume of recycled water to be used;
  - e. Identification of the on-site supervisor who is responsible for operation of the recycled water system;
  - f. Description of the recycled water management facilities and operations plan;
  - g. Plans and specifications that include the following:
    - i. Pipe locations of the recycled, potable, and auxiliary non-potable water systems;
    - ii. Type and location of the outlets and plumbing fixtures that will be accessible to the public;
    - iii. The methods and devices to be used to prevent backflow of recycled water into the public water system; and
    - iv. Plan notes relating to recycled water specific installation and use requirements.
  - h. Certification that the new Use Area conforms to the Discharger's rules and regulations;
  - i. A copy of the signed User Agreement; and
  - j. The results of the cross-connection control test performed in accordance with the American Water Works Association and California Department of Public Health guidelines (Cal. Code Regs., tit. 17, § 7605). The results shall include a certification that the California Department of Public Health was notified of the initial cross-connection control test and was provided an opportunity to be present.
5. **Prior to commencing irrigation with recycled water** on any Use Area not described in this Order, the City shall submit documentation that the California Department of Public Health has approved a Title 22 engineering report for the project and documentation of compliance with CEQA. The Title 22 engineering report shall be consistent with the Department of Public Health guidance document entitled, *Preparation of an Engineering Report for the Production, Distribution and Use of Recycled Water*.
  6. In the event of any change in control or ownership of land or waste treatment and storage facilities presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to the Central Valley Water Board.
  7. No person other than the City shall deliver recycled water to a Use Area.

8. The City may terminate service to a User who uses, transports, or stores such water in violation of the City's rules and regulations.
9. The Central Valley Water Board may initiate enforcement action against any recycled water user, including but not limited to the termination of the recycled water supply, who:
  - a. Discharges recycled water in violation of any applicable discharge requirement prescribed by the Central Valley Water Board or in a manner which creates or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code section 13050.
  - b. Uses, transports, or stores such water in violation of the rules and regulations governing the design, construction and use of recycled water distribution and disposal systems issued by the recycled water distribution and disposal systems issued by the City in accordance with this attachment; or in a manner which creates or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code section 13050.
10. All recycled water storage facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year, 24-hour frequency storm to the extent practicable unless the Central Valley Water Board Executive Officer approves relaxed storm protection measures for the facility.
11. The recycled water shall be at least undisinfected secondary recycled water as defined by Title 22, section 60301.
12. Recycled water shall be used in compliance with Title 22, section 60304. Regarding particular agricultural uses, recycled water shall be applied in compliance with the following:
  - a. Undisinfected recycled water shall not be discharged to orchard or vineyard crops;
  - b. No recycled water used for irrigation, or soil that has been irrigated with recycled water, shall come into contact with the edible portion of food crops that may be eaten raw by humans;
  - c. Non food-bearing trees, seed crops not eaten by humans, food crops that must undergo commercial pathogen-destroying processing before being consumed by humans, and ornamental nursery stock and sod farms (provided no irrigation with recycled water occurs for a period of 14 days prior to harvesting, retail sale, or allowing access by the general public) may be irrigated with recycled water; and
  - d. Grazing of milking animals within the Use Areas is prohibited.
13. Irrigation of the Use Areas shall occur only when appropriately trained personnel are on duty.
14. Irrigation with recycled water shall not be performed within 24 hours of a forecasted storm, during or within 24 hours after any precipitation event, nor when the ground is saturated.

15. The Use Area parcels shall be graded to prevent ponding along public roads or other public areas and prevent runoff onto adjacent properties.
16. The Use Areas shall be managed to prevent breeding of mosquitoes. In particular:
17. There shall be no standing water 48 hours after irrigation ceases;
18. Tailwater ditches shall be maintained essentially free of emergent, marginal, and floating vegetation; and
19. Low-pressure and unpressurized pipelines and ditches accessible to mosquitoes shall not be used to store recycled water.
20. Tailwater runoff and spray of recycled water shall not be discharged outside of the use areas except in minor, incidental amounts that cannot reasonably be eliminated by implementation and good maintenance of best management practices.
21. Recycled water spray, mist, or runoff shall not enter dwellings, designated outdoor eating areas, or food handling facilities. Drinking water fountains shall be protected against contact with recycled water spray, mist, or runoff.
22. Use Areas and recycled water impoundments shall be designed, maintained, and operated to comply with the following setback requirements:

<u>Setback Definition</u>	<u>Minimum Irrigation Setback (feet)</u>
Edge of Use Area to property boundary	25
Edge of Use Area to public road right of way	30
Edge of Use Area to manmade or natural surface water drainage course <sup>1</sup>	50
Edge of Use Area to domestic water supply well	150
Toe of recycled water impoundment berm to domestic water supply well	150

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<sup>1</sup> Excluding ditches used exclusively for tailwater return from the land application area and land application areas separated by levees or other permanent physical barriers from surface waters or drainage courses.

23. Tailwater runoff and spray of recycled water shall not be discharged outside of the use areas except in minor, incidental amounts that cannot reasonably be eliminated by implementation and good maintenance of best management practices.
24. There shall be at least a ten-foot horizontal and a one-foot vertical separation between all pipelines transporting recycled water and those transporting domestic supply, and the domestic supply pipeline shall be located above the recycled water pipeline.
25. A public water supply or auxiliary water supply shall not be used as backup or supplemental source of water for a recycled water system unless the connection between the two systems

is protected by a backflow preventer (e.g., an air gap separation) which complies with the requirements of California Code of Regulations, title 17, sections 7601 through 7604.

26. Any backflow prevention device installed to protect a public water system shall be inspected and maintained in accordance with Title 17, section 7605. The recycled water system shall be tested for possible cross connections at least once every four years. The inspections and the testing shall be performed by a cross connection control specialist certified by the California-Nevada section of the American Water Works Association or an organization with equivalent certification requirements.
27. All recycling equipment, pumps, piping, valves, and outlets shall be marked to differentiate them from potable water facilities. All recycled water piping (above and below ground) and appurtenances in new installations and in retrofit installations shall be colored purple or distinctively wrapped with purple tape in accordance with California Health and Safety Code section 116815.
28. Recycled water controllers, valves, and similar appurtenances shall be affixed with recycled water warning signs, and shall be equipped with removable handles or locking mechanisms to prevent public access or tampering.
29. Quick couplers, if used, shall be different than those used in potable water systems.
30. Hose bibs and unlocked valves, if used, shall not be used in areas accessible to the public.
31. Public contact with recycled water shall be controlled using fences, signs, and/or other appropriate means. Signs of a size no less than four inches high by eight inches wide with proper wording (shown below) shall be placed at all areas of public access and around the perimeter of all areas used for effluent disposal or conveyance to alert the public of the use of recycled water. The size and content of these signs shall be as described in section 60310(g) of Title 22. All signs shall display an international symbol similar to that shown in Attachment G, which is attached hereto and a part of this Order, and present the following wording:

**“RECYCLED WATER – DO NOT DRINK”**  
**“AGUA DE DESPERDICIO RECLAMADA – NO TOME”**

32. Public contact with recycled water shall be controlled using fences, signs, and/or other appropriate means. Signs of a size no less than four inches high by eight inches wide with proper wording (shown below) shall be placed at all areas of public access and around the perimeter of all areas used for effluent disposal or conveyance to alert the public of the use of recycled water. The size and content of these signs shall be as described in section 60310(g) of Title 22. All signs shall display an international symbol similar to that shown in Attachment G, which is attached hereto and a part of this Order, and present the following wording:
33. Workers shall be educated regarding proper hygienic procedures to ensure personal and public safety.
34. The annual nutrient loading of the Use Area, including the nutritive value of organic and chemical fertilizers and recycled water, shall not exceed crop demand.

35. Hydraulic and nutrient loading of recycled water and supplemental irrigation water shall be at reasonable agronomic rates designed to :
  - a. Maximize crop nutrient uptake;
  - b. Maximize breakdown of organic waste constituents in the root zone;
  - c. Minimize the percolation of waste constituents; and
  - d. Minimize erosion within the Use Areas.
36. The City of Tulare, the Central Valley Regional Water Quality Control Board (Central Valley Water Board), the California Department of Public Health, or an authorized representative of these parties, upon presentation of proper credentials, shall have the right to enter upon the recycled water use site during reasonable hours, to verify that the user of recycled water is complying with the City's rules and regulations.
37. Use Areas shall be inspected as frequently as necessary to ensure continuous compliance with the requirements of this Order.
38. A copy of the User Agreement and the Discharger's rules and regulations governing the distribution and use of recycled water shall be maintained at the User's facilities and be available at all times for inspection by Central Valley Water Board staff, the Discharger, and Department of Public Health staff.