

## **Recycled Water Information Safe Use and Restrictions On Use**

References: Title 17, California Code of Regulations (CCR), Division 1, Chapter 5 (Sanitation), Group 4 (Drinking Water Supplies), Articles 1 and 2.

22 CCR, Division 4, Chapter 1 and Chapter 2, Article 1 through 5.1.

Adopted Waste Discharge Requirements (WDRs) and Water Recycling Requirements (WRRs) For Camrosa Water District, Camrosa Water Reclamation Facility (Order No. R4-2015-0030, File No. 54-035)

### **SEWAGE TREATMENT**

Primary Treatment – Removal of solids by screens and sedimentation

Secondary Treatment – Removal of Biological Oxygen Demand – e.g. aerobic digestion by bacteria followed by sedimentation

Tertiary Treatment – Removal of dissolved chemicals such as nitrogen and phosphorous - e.g. chemical flocculation, and additional removal of suspended solids - e.g. activated carbon filter

Chlorination – Chlorination of tertiary treated wastewater reduces the presence of pathogens. Water appears clean and odor free but some contaminants may remain e.g. prions, resistant spores, and heavy metals

### **CSU CHANNEL ISLANDS IS A DUAL PLUMBED SITE**

CSU Channel Islands is a site with two separate plumbing systems; one system for high quality water suitable for drinking, and another system for recycled water used primarily for irrigation of landscaping. These systems are rigorously maintained as independent systems and rigorously protected from cross contamination.

### **RECYCLED WATER USE AGREEMENT**

Regulations and our water use agreement specify that we can use recycled water only for approved uses, only in approved locations, and we must observe a number of rules and work practices.

### **HEALTH BASED RULES**

- Practice good personal hygiene – remember where it comes from – recycled water potentially contains residual contaminants
- Do not drink – ever
- Do not breathe spray from sprinklers or any other use
- Do not use for washing hands or body
- Do not allow recycled water to contact drinking fountains or eating areas

## **CONDITIONS OF USE - DON'T DO THIS....**

- Do not remove any “recycled water” identifying tags, labels, signs
- Do not cross connect drinking and recycled water systems
- Do not allow ponding or puddling to fullest extent practical
- Do not allow recycled water runoff (minimize overspray or over-watering by design and use) so none goes into storm drain or off-site
- Do not use on unapproved site
- Do not allow hose bibs (only dedicated couplers; unique for recycled use)
- Do not modify system without supervisory approval

## **MORE CONDITIONS OF SERVICE**

Drinking fountains and eating areas must be protected from contact. Evaluate spray conditions and anticipate what will happen to spray in wind from any direction. Design and use sprinkler systems to prevent contamination of drinking fountains, eating areas, or any other unapproved area (e.g. University Glen residences).

Cross connections are strictly prohibited.

Equipment (e.g. hoses, valves, pipes, meters etc.) for recycled water must be used only for recycled and never used for potable water unless disinfected.

## **LABELS/SIGNS/TAGS**

Signage is placed at points of entry, both vehicle and pedestrian  
Components of the system must be labeled (purple or specified tag)

## **PERIODS OF OPERATION**

Irrigate only during periods of least use by the general public. This is normally between 10 PM and 6 AM. There are exceptions to this rule for areas where there is no public access or when a system is operated and manually and continuously supervised to prevent public access, or during system testing and repair.

Consideration must be given to allow a reasonable dry out time before the area is to be used by the general public.

## **REQUIRED PREVENTATIVE MAINTENANCE**

- Inspections including:  
Sprinkler heads, spray patterns piping, valves, and storage facilities.

- Signs and labels are placed and maintained at locations of recycled water use
- Malfunctions are immediately repaired when discovered
- Records of inspections, modifications and repairs are maintained
- Annual testing of backflow prevention assemblies by a certified tester with the American Backflow Prevention Association (ABPA) or American Water Works Association (AWWA)
- Cross connection testing is performed by a certified Cross Connection Control Specialist (AWWA) on a routine basis for dual-plumbed systems

## **EMERGENCIES**

In case of major earthquake both potable and recycled water systems will be inspected and shut off if damage is suspected.

If a cross connection is discovered it must be reported immediately to work center at [fsworks@csuci.edu](mailto:fsworks@csuci.edu) or 805-437-8461

If more than 50,000 gallons of recycled water is inadvertently released this must be reported immediately to the Police Department at 805-437-8444 or 911.

## **MANAGERS NOTE**

Recycled water supply is not as reliably guaranteed as the potable water supply. Agriculture has priority on recycled water and our service may be shut off if there is not adequate supply. Also, if there is significant damage to the system, a significant violation of our Use Agreement, or any other situation that creates a public health threat the supply will be shut off.