

Chapter 16

NONPOTABLE WATER REUSE

Part I

1601.0 Gray Water Systems – General.

- (A) The provisions of Part I shall apply to the construction, alteration, and repair of gray water systems for underground landscape irrigation. Gray water installations shall be designed by a registered or licensed person to perform plumbing design work.
- (B) The type of gray water system shall depend on the level of treatment (primary, secondary, specific treatment process such as filtration, disinfection and nutrient removal), effluent water quality, effluent quantity (daily use, seasonal, minimum and maximum flows) and location of treatment (onsite, regionally or supplied by the public utility company) for its intended uses.
- (C) Sanitary drainage systems shall be designed as a dual plumbed gray water system in accordance with this chapter. Gray water systems shall be designed to separate gray water from black water. Black water shall discharge into the sanitary drainage system in accordance with Chapter 7 of this code.

1602.0 Permit.

It shall be unacceptable for any person to construct, install, or alter, or cause to be constructed, installed, or altered any dual plumbed system for the installation of a gray water system in a building or on a premise without first obtaining a permit to do such work from the Authority Having Jurisdiction.

1603.0 Location of Treatment.

The location of the treatment of gray water systems shall be approved by the Authority Having Jurisdiction and in accordance with the Guide to Water Supply Regulations.

- (A) **Onsite Treatment.** Onsite treatment is the collection, treatment and reuse of wastewater at or near the point of generation.
- (B) **Regional Treatment.** Regional treatment is the collection, treatment and reuse of wastewater at a centralized location.
- (C) **Public Utility Treatment Plant.** Public utility treatment is the collection, treatment and reuse of wastewater at a centralized location for large scale operations or industrial scale treatment.

1604.0 Materials.

Above-ground and underground building drainage and vent pipe for gray water systems shall comply with Table 7-1. Distribution piping intended to supply uses for water closets, urinals, trap primers for floor drains, floor sinks, irrigation, industrial process and water features for gray water systems shall comply with Table 6-4.

1605.0 Wastewater Connections.

Gray water systems shall only receive the discharge of bathtubs, showers, and bathroom wash basins, clothes washers, and laundry tubs.

1606.0 Potable Water Connections. Potable water connections between a gray water system for makeup water shall be protected against back-pressure and back-siphonage in accordance with Sections 602.0 and 603.0.

1607.0 Holding Tanks.

Gray water shall be collected in an approved holding tank of corrosion-resistant material, shall meet approved applicable recognized standards for the intended use, and approved by the Authority Having Jurisdiction. Holding tanks constructed of alternate material shall be approved by the Authority Having Jurisdiction provided they comply with approved applicable standards.

1608.0 Landscape Irrigation - General.

- (A) Gray water systems for subsurface landscape irrigation shall discharge gray water below the ground surface. Where gray water is treated and disinfected to acceptable effluent quality guidelines in accordance with the provisions set forth by the Authority Having Jurisdiction shall be permitted to be discharged to a land application area by surface irrigation.
- (B) The gray water system for subsurface irrigation/disposal fields shall consist of a holding tank or tanks and shall be sized to limit the retention time of gray water to a maximum of 24 hours. The gray water system for surface irrigation shall consist of a holding tank or tanks and shall be sized to limit the retention time of gray water to a maximum of 72 hours.