

MARIN COUNTY ENVIRONMENTAL HEALTH SERVICES 3501 Civic Center Drive, Room 236, San Rafael, CA 94903

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SIMPLE GRAYWATER SYSTEM NOTIFICATION

Owner Name:		Date
Property Street Address	Owner Mailing Address	Property AP Number
City, State, Zip	City, State, Zip	Email
Contact Name	Phone	Reviewed by & Date

This completed form by the property owner notifies Marin County Environmental Health that the undersigned has/will construct a Simple Graywater System on their parcel. A Simple Graywater System serves a one- or two-family dwelling(s) with a discharge of 250 gallons per day or less. The system is/will be constructed to meet the regulations as defined in Chapter 15 of the California Plumbing Code.

A notification of the construction of this Graywater System will be forwarded to the municipal water supplier in your area to ensure the public water systems are protected from contamination.

Design Requirements (check all that apply & enter information into blank fields)

- The entire graywater system must be located on the same parcel as the structure producing the graywater. No section shall be located on another parcel.
- There must be sufficient area and appropriate soil conditions on this parcel to prevent the ponding or runoff of the graywater (see sizing requirements on next page).
- The graywater system will not be connected to any potable water system without an air gap or other physical device which prevents backflow. A backflow device will protect potable water from contamination.
- Excess graywater from the irrigation/disposal field must flow to the building sewer or septic tank through a diversion valve.
- Graywater systems with a tank shall have an overflow drain from the tank. The overflow drain shall have a permanent connection to the building sewer, or if applicable, upstream of the septic tank. The overflow drain shall not be equipped with a shutoff valve.
- The overflow system must be designed so that the tank overflow will gravity drain to the existing sewer or septic tank. The tank shall be protected against sewage backflow by a backwater valve.
- Graywater systems using tanks shall be designed to minimize the amount of time graywater is held in the tank and sized to distribute the estimated amount of graywater produced daily.
- □ _____ feet of pipe and/or tubing will be installed in ______ type of soil for □ irrigation or □ disposal. The system is designed to handle graywater discharged from the building and may included tank(s) and other appurtenances necessary to ensure proper function of the system.
- Graywater may be released above the ground surface provided at least 2 inches of mulch, rocks, or soil, or a solid shield covers the release point.
- □ The closest discharge point of the irrigation or disposal field is/will be _ feet from the property line. (See minimum setbacks on the next page in Table 1503.4).
- □ All valves and means of changing the direction of the graywater must be easily accessible and clearly labeled.
- Gray water system components shall comply with Section 1503.9.1 through Section 1503.9.4 of the California Plumbing Code.
- Graywater distribution piping upstream of any connection to an irrigation/disposal field or a distribution valve must be labeled with the words "CAUTION: NONPOTABLE WATER, DO NOT DRINK". Markings must be at intervals not to exceed 5 feet.
- An operation and maintenance manual must be provided and maintained. The manual must remain with the building throughout the life of the system and upon change of ownership or occupancy, the new owner or tenant must be notified the structure is connected to a graywater system and provided a copy of the manual.
- Should a complaint regarding the graywater system operation be received by EHS and it is deemed valid, you will be required to correct the situation and may be required to obtain a graywater system permit. Payment for complaint cost recovery and/or a permit fee may be required.

General Requirements

- Graywater will not be utilized for indoor use.
- Graywater will not be used to irrigate root crops or edible parts of food crops that touch the soil.
- Graywater will not be used for spray irrigation.
- □ Graywater will not be allowed to pond or runoff.
- □ Graywater will not be discharged directly into any storm sewer system or any surface body of water.
- □ Water used to wash diapers, or similarly soiled or infectious garments will not be used in the graywater system.
- Water used to wash oily rags or to dispose of hazardous waste solutions such as from home photo labs will not be used in the graywater system.

Signing below certifies you have read and agreed to adhere to the Design Requirements and General Requirements listed above and Chapter 15 of the California Plumbing Code.

OWNER ACKNOWLEDGES THE ABOVE:

Date:

Definitions

Clothes Washer System. A gray water system utilizing only single domestic clothes washing machine in a one- or two family dwelling *Complex System*. Graywater systems that discharge <u>over</u> 250 gallons (947 L) per day.

Graywater. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes but is not limited to wastewater from bathtubs, showers, bathroom washbasin, clothes washing machines, and laundry tubs, **but does not include wastewater from kitchen sinks or dishwashers.**

Simple System. A graywater system serving a one- or two family dwellings, townhouses, or other occupancies with a discharge of 250 gallons (947L) per day or less. Simple systems exceed a clothes washer system.

Procedure for Estimating Graywater Discharge

The Graywater discharge shall be calculated by estimates of graywater use based on water use records, calculations of local daily per person interior water use, or the following procedure.

- 1. The number of occupants of each dwelling unit shall be calculated as follows:
 - First Bedroom2 occupants
 - Each additional bedroom 1 occupant

2. The estimated graywater flows of each occupant shall be calculated as follows:

- Showers, bathtubs & wash basins 25 GPD (95 LPD)/occupant
 - Laundry 15 GPD (57 LPD)/occupant
- 3. The total number of occupants shall be multiplied by the applicable estimated graywater discharge as provided above and the type of fixtures connected to the graywater system.

Table 1503.4 Location of Graywater System

Minimum Horizontal Distance Required in			
feet from:	Tank	Irrigation Field	Disposal Field
Building Structures	5 ⁴	8 ^{4, 8}	5
Property Line adjoining private property	5	5 ⁸	5
Water supply wells ⁴	50	100	100
Streams and lakes ⁴	50	100 ⁵	100 ⁵
Sewage pits or cesspools	5	5	5
Sewage disposal field	5	4 ⁶	4 ⁶
Septic tank	0	5	5
Onsite domestic water service line	5	0	0
Pressurized public water main	10	10	10

⁴ Where special hazards are involved, the distance required shall be increased as directed by the Enforcing Agency. ⁵These minimum clear horizontal distances shall apply between the irrigation or disposal field and the ocean mean higher hightide

line.

⁶ Plus two (2) feet for each additional foot of depth in excess of one (1) foot below the bottom of the drain line.

 $^{\rm 8}$ The distance shall be reduced to 1.5 feet for drip and mulch irrigation systems.

Table 1504.2 Design Criteria of Six Typical Soils			
Type of Soil	Square Feet	Gallons	
	Minimum square feet of	Maximum absorption capacity in	
	irrigation/leaching area per 100 gallons	gallons per square foot of	
	of estimated graywater discharge per	irrigation/leaching area for	
	day	a 24 hour period	
Coarse sand or gravel	20	5	
Fine sand	25	4	
Sandy loam	40	2.5	
Sandy clay	60	1.7	
Clay with considerable sand or gravel	90	1.1	
Clay with small amounts of sand or gravel	120	0.8	

*From Chapter 15 of The California Plumbing Code

Permit Requirements by Marin County Environmental Health Services

Clothes Washer System	Exempt from Permit*
Simple System	Notification Form Required*
Complex System	Permit Required

* NOTE: Building permits may be required for clothes washer systems and simple systems that include a pump or affect building, plumbing, electrical, or mechanical components.