

Constituent or Parameter	Source of Graywater			
	Composite	Bath/Shower*	Laundry Wash	Laundry Rinse
Temperature (deg C)	21.6 - 28.2			
pH	6.5 - 8.7			
EC (μ S/cm)	325 - 1140	82 - 250	83 - 880	
COD (mg/L)	52 - 622	96		
BOD (mg/L)	26 - 291	45 - 330	10 - 520	
TSS (mg/L)	7 - 330	37		
Turbidity (NTU)	22 - < 200	28 - 96	39 - 296	14 - 29
NH ₄ -N (mg/L)	0.02 - 25.4	0.11 - 0.37	0.1 - 3.47	0.06 - 0.33
NO ₃ -N (mg/L)	< 0.02 - 0.98			
Total N (mg/L)	1.7 - 6.4			
PO ₄ (mg/L)	1.4 - 35			
Total P (mg/L)	0.28 - 27.3			
Sulfate (mg/L)	0.3 - 110			
Chloride (mg/L)	3.1 - 141			
Hardness (mg/L)	15 - 144			
Alkalinity (mg/L)	149 - 382			
Ca (mg/L)	20.6 - 78			
K (mg/L)	5.9 - 7.4			
Mg (mg/L)	1.7 - 31.4			
Na (mg/L)	29 - 41.5			
Total Bacteria (CFU/100 mL)	4.0 x 10 ⁷ - 6.1 x 10 ⁸	1.0 x 10 ⁷ - 1.0 x 10 ⁸	1.0 x 10 ⁷ - 1.0 x 10 ⁸	1.0 x 10 ⁷ - 1.0 x 10 ⁸
Total Coliform (CFU/100 mL)	6.0 x 10 ³ - 1.9 x 10 ⁸	27 - 2.4 x 10 ⁷	199 - 3.3 x 10 ⁵	56
Fecal Coliform (CFU/100 mL)	1.820 x 10 ⁴ - 7.94 x 10 ⁶	< 10 - 2.0 x 10 ⁸	20 - 10 ⁷	
Fecal Streptococci (CFU/100 mL)	238	19 - > 2.4 x 10 ⁵	< 3 - < 2.4 x 10 ⁵	< 3 - 2.3 x 10 ³
E. coli (CFU/100 mL)	< 1.0 x 10 ² - 1.0 x 10 ⁶	3.9 x 10 ⁵		
Fecal enterococci (CFU/100 mL)	Not detected - 2.4 x 10 ²	2.5 x 10 ³		2.5 x 10 ⁴
Pseudomonas (CFU/100 mL)	2.0 x 10 ⁴			
Clostridium perfringens spores (CFU/100 mL)	2.0 x 10 ³			
Salmonella velteredon (MPN/L)		Detected but not quantified		
Giardia (organisms/L)		0.5 - 1.5		
Coliphages	<1 - 2.0 x 10 ³			

* Some samples included water from bathroom sinks

Source: [Technical Memorandum on Graywater by James Crook, Ph. D., P.E. for BLACK & VEATCH](#)

Adapted from rose et al. (1991); Erikson et al. (2003); Casanova et al. (2001); Western Department of Health (2002); California Department of Health Services (1998); Jeppesen (1996); Christova-Boal et al. (1995); Christova-Boal et al. (1996); Ottoson and Stenstrom (2003); California Department of Health Services (1979); City of Los Angeles (1992); Birks and Hills (2005)