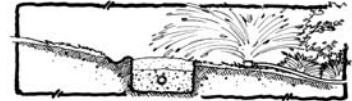


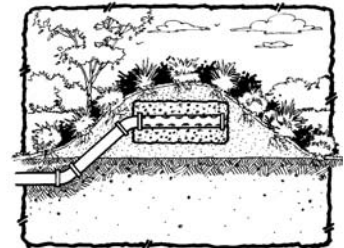
TYPES OF LAND APPLICATION AREAS AND WHAT TO PLANT IN A LAND APPLICATION AREA

The type of effluent disposal system used within the land application area will depend on the design of the treatment system and site factors. Here are some of the common types:

- Above ground spray irrigation system (course droplet sprinklers/emitters; plume should not exceed one metre diameter and 0.3 metre in height).

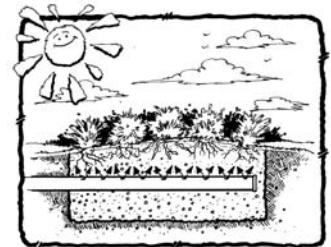


- Elevated sand mound (specially constructed above natural ground level).



- Absorption trench/bed (deep drainage type).

- Sub-surface irrigation system (drippers buried at a shallow depth or laid on Natural ground and covered with soil).



- Covered-surface irrigation system (drippers laid on natural ground and covered by mulch or wood chips).

WETLAND TREATMENT SYSTEMS

Reed beds and wetland treatment systems are widely used in municipal and industrial sewerage treatment plants, particularly in Europe. They are now being used to treat septic tank and greywater effluent to high standards. Reeds and other wetland plants are grown in high quality soil in a shallow pit sealed with a waterproof membrane. The effluent flows through the soil and treatment is facilitated by friendly bacteria that colonize the root zone. Some wetland systems use rock and sand as a growing medium, instead of soil. The effluent from reed beds can be directed to a sub-surface disposal system or may be pumped to a sand filter and ultra-violet light disinfection unit for discharging to a drip irrigation system.

For further information about designing and constructing wetlands and reed bed systems, consult an on-site sewerage facility evaluator specialising in constructed wetlands for wastewater treatment.

SUITABLE PLANT SPECIES FOR OF LAND APPLICATION AREAS

GENUS	SPECIES	COMMON NAME
Grasses		
Buffalo		
Kikuyu		
Ground Cover		
Acanthus	mollis	
Crinum	pedunculatum	
Hardenbergia		
Hibbertia	scandens	
Lonandra	longifolia	
Pennisetum	alopecuroides	Swamp Foxtail
Ophiopogon		
Viola	hederacea	Native Violet
Shrubs		
Baeckea	stenophylla	Weeping Baeckea
Baeckea	vigata	
Banksia	robur	Broad Leaved Banksia
Callistemon	pachyphyllus	Wallum Bottlebrush
Comesperma	defoliatum	
Leptospermum	juniperinum	
Leptospermum	laevigatum	
Leptospermum	liversidgei	
Leptospermum	semibaccatum	
Melastoma	affine	Blue Tongue
Pultenaea	paleacea	

THESE SPECIES ARE NOT SUITABLE WITHIN TEN METRES OF DISPOSAL AREA		
Banksia	integrifolia	
Callistemon	viminalis	
Callistemon	salignus	
Casuarina	cunninghamiana	
Casuarina	glauca	Swamp Sheoak
Eucalyptus	intermedia	Red Bloodwood
Eucalyptus	microcorys	Tallowood
Eucalyptus	robusta	Swamp Mahogany
Glochidion	ferdinandii	Cheese Tree
Leptospermum	petersonii	
Lophostemon	suaveolens	
Melaleuca	armillaris	
Melaleuca	leucadendra	
Melaleuca	quinquenervia	Paperbarked Tea Tree