

Recycled Water Class Definitions

Recycled Water is produced from water reclamation plants (WRP) at a standard appropriate for its intended use.

It must be 'fit for purpose' and treated according to the EPA's Guidelines for Environmental Management - Use of Reclaimed Water, 2003.

These describe four classes of recycled water, their quality parameters and their acceptable use.

Class	Water Quality Objectives	Treatment Process ¹	Acceptable uses ²
A	<ul style="list-style-type: none"> <10 <i>E coli</i> org/100mL <2 NTU turbidity <10mg/L BOD <5mg/L suspended solids pH 6-9 1mg/L Chloride residual 	Tertiary treatment & pathogen reduction with sufficient log reduction to achieve bacteriological parameters	<ul style="list-style-type: none"> Raw human food crops exposed to the recycled water (e.g. tomatoes, lettuce) Livestock drinking (excluding pigs) Dairy cattle grazing/fodder Cooked/processed human food or selected crops not directly exposed to the recycled water Grazing and fodder for cattle, sheep, horses, goats, alpacas etc (excluding pigs) Non-food crops e.g. woodlots, turf, flowers Residential uses e.g. toilet flushing, washing machine, gardens Unrestricted public access areas e.g. sporting facilities, botanical gardens, water features, golf courses Open industrial systems e.g. industrial laundry, carwashes Road construction
B	<ul style="list-style-type: none"> <100 <i>E coli</i> org/100mL <20mg/L BOD <30mg/L suspended solids pH 6-9 	Secondary treatment & pathogen reduction	<ul style="list-style-type: none"> Livestock drinking (excluding pigs) Dairy cattle grazing/fodder Cooked/processed human food or selected crops not directly exposed to the recycled water Grazing and fodder for cattle, sheep, horses, goats, alpacas etc (excluding pigs) Non food crops e.g. woodlots, turf, flowers Restricted public access areas e.g. sporting facilities, golf courses (4 hour drying period before public access) Closed industrial systems Road construction
C	<ul style="list-style-type: none"> <1000 <i>E coli</i> org/100mL <20mg/L BOD <30mg/L suspended solids pH 6-9 	Secondary treatment & pathogen reduction	<ul style="list-style-type: none"> Cooked/processed human food or selected crops not directly exposed to the recycled water Grazing and fodder for cattle, sheep, horses, goats, alpacas etc (excluding dairy cattle & pigs) Non food crops e.g. woodlots, turf, flowers Restricted public access areas e.g. sporting facilities, golf courses (4 hour drying period before public access) Closed industrial systems Road construction
D	<ul style="list-style-type: none"> <10000 <i>E coli</i> org/100mL <20mg/L BOD <30mg/L suspended solids pH 6-9 	Secondary treatment	<ul style="list-style-type: none"> Non food crops e.g. woodlots, turf, flowers

Coliban Water

PO Box 2770 Bendigo
 Victoria 3554
 Tel: 1300 363 200
 Fax: 03 5434 1341
coliban@coliban.com.au



Recycled Water Production

Bendigo

- > The Epsom Water Reclamation Plant (WRP) produces Class A and Class B recycled water.
- > Class A is produced in the recycled water factory and is available via the pipeline, standpipe and some rural channels. Customers include City of Greater Bendigo for its sporting facilities, parks and gardens, primary schools, industrial laundries, rural customers and commercial customers (for dust suppression, carwash, fire fighting and road works).
- > Class B is produced prior to the recycled water factory treatment. It is available from a standpipe in accordance with the Drought Relief Framework program and can be used for dust suppression, road construction purposes and other commercial uses approved by Coliban Water and the EPA.

This class water is also supplied to Northgate Minerals' Fosterville gold mine, the Bendigo Livestock Exchange and local irrigators.

Kyneton

- > The Kyneton WRP produces Class B and Class C recycled water, which is fully committed to the Kyneton Racecourse and a local irrigator.

Castlemaine

- > The Castlemaine WRP produces Class C recycled water, which is supplied to the Castlemaine Golf Course via a pipeline and to earthworks companies for dust suppression and construction works via tanks in accordance with the Drought Relief Framework.

Heathcote

- > The Heathcote WRP produces Class C recycled water, which is supplied to the Heathcote Golf Club for irrigation use.

Axedale

- > The Axedale WRP produces Class B recycled water, which is supplied to the Axedale Golf Club for irrigation use.

All our other WRP's produce Class C recycled water, which is fully committed to irrigators or used on site.

More information and feedback

To supply recycled water to customers, a substantial amount of documentation is required. Part of this documentation is the Health and Environmental Management Plan (HEMP), which includes customer site management plans (SMP) for all recycled water users.

All the documentation has been approved by Department of Human Services (DHS) and Environment Protection Authority (EPA) and is published on the Coliban Water website www.coliban.com.au

If you have questions about recycled water, please contact our Recycled Water Officer at Coliban Water on 1300 363 200.

Footnotes to definitions table:

1. For further information on treatment processes, refer to EPA Publication 730. 1 *Guidelines for Environmental Management; Disinfection of Reclaimed Water 2003.*
2. For further information on acceptable uses and management requirements, refer to EPA Publication 464.2 *Guidelines for Environmental Management; use of Reclaimed Water, 2003.*

Disclaimer: Information contained in this document was correct at time of printing (September 2008). Coliban Water reserves the right to alter information, as deemed necessary