



Palmerston North City Council 5% Crushed Glass Aggregate Project



ENTRANT



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Innovative Use of
Surplus Waste Container
Glass



SPECIAL FEATURES



This project is being done in partnership with Higgins Aggregates and Fullcircle and will prove the concept in the NZ context and pave the way for other organisations to use excess recycled glass.



PNCC has been using all excess recycled glass from Palmerston North in a 5% crushed glass aggregate mix during 2006/07. It is cost effective compared to long term landfill charges and is a sustainable use of excess recycled glass for the region.



1000 tonnes p.a. is recycled in Palmerston North. This equates to 20% kerbside recycling. Glass collection costs around \$200/tonne plus glass is collected as a separate stream in a split truck.



The glass is weighted as a 5% mix and blended with aggregate. Fed thru an aggregate process plant and processed to the desired mix and size. Cost = \$30-40/tonnes - less than local landfill charges (\$95/tonne). Contamination is removed before crushing. Initial compaction tests have shown that glass in a 5% mix is not detrimental to the aggregate.



There has been good buy-in from Council engineering and roading staff as well as other smaller collectors and some adjacent councils.

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Aggregate is being used in cycle tracks, building foundations and test roading i.e. New Palmerston North subdivision.

