

Research and Market Development Incentives announced

The Research and Market Development Incentives scheme aims to build South Australia's capacity to develop innovative recycled products and expand opportunities for South Australian businesses in overseas and local markets. In the first round of funding \$154,750 has been allocated towards research and market development of products using construction/demolition waste and organic waste.

A fine black slime

Amcor Fibre Packaging has received a Zero Waste SA grant of \$4,500 to trial the composting of ink tailing waste.

You would think that ink tailing waste, a black smelly substance, could not be used for anything else, says Amcor's Quality Assurance Manager David Rathjen. However, a concern for reducing the amount of waste going to landfill has seen Amcor Fibre Packaging undertake a trial to see if ink tailing waste is a suitable material for composting.

Ink tailings are the major waste product generated by the waste water treatment plant at the factory in Athol Park, Adelaide. After every printing job the machinery is washed down with water because different inks are used for each job.

'Flocculants' are used to separate the printing ink solids from the water held in the waste water tank. While the water is discharged into the sewer, the ink tailing waste – about 400 tonnes per annum – currently goes to land fill. If successful, there is potential replication for other printing/fibre packaging industries.



Amcor's Malcolm Warren operates the waste water treatment plant.

It's the dregs!

Every year several thousands of tonnes of winery filtration waste are dumped in landfill in the Riverland district.

A Zero Waste SA grant of \$8,250 will be used in trials to see if this sludge can be recycled and reused in composting. Flinders Bioremediation will undertake the trials with Riverland companies Kaloranoo, Angoves and Berri Estates.

Flinders Bioremediation's Dr Richard Stewart says that the waste consists of sludge from winery settling tanks and filtration systems and the "thicks and thins", a combination of solid and liquid wastes left over from the distillation process.

Composting not only diverts the waste from landfill but the final compost product can be reused on local vineyards to provide a closed loop system involving both recycling and reuse. Several vineyards in the Riverland have shown interest in sourcing good quality mulch or compost product for their vines, to save water and improve soil quality. There is considerable potential for replication across other wineries and wine regions.



The Riverland Kaloranoo compost facility where the trials will be run.

Construction cocktails

ResourceCo has been awarded \$42,000 for a fines waste recycling product.

The product would be used for engineering fill from fines waste screened from crushing mixed construction and demolition waste. ResourceCo currently has 40,000 tonnes of the material stockpiled and there is potential to divert 80,000 tonnes per annum of fines waste from landfill. The project will include laboratory testing, a field trial and cost-benefit analysis as well as the development of a product quality plan.



Bitumate trial, Mt Barker

ResourceCo is also looking to at developing a cold asphalt pavement product manufactured from recycled asphalt. It has been awarded \$100,000 for a project seeks to expand markets for the 50,000 tonnes/per annum of asphalt materials by extensive testing of the product using this material.