

Organic Environmental Solutions

In 2013, 'Organic Environmental Solutions' (OES) was opened for business.

Our fully contained liquid waste treatment facility uses the latest technology from around the world and is capable of treating the following:



EPA Waste Code	Waste Description
J120	Waste oils and water mixtures
J130	Triple interceptor waste
K120	Grease interceptor trap effluent
L100	Car and truck washwaters
L150	Industrial washwaters

Please Note: We are currently in the process of including the following EPA Waste Codes - N140, T130, B100, C100, J100.

The process

Waste received at OES undergoes several treatment processes including solids removal, pH adjustment and aeration to ensure the water is polished to a high standard. The entire waste process takes place inside a fully enclosed factory (*see photos*) which is maintained at a negative pressure to prevent odours escaping. All the air extracted from within the facility is put through our large wet scrubber to be neutralised of any odour before being released.

Recycling

OES currently sends all centrifuge cake to a composting facility to ensure closed loop recycling of all organic solid materials derived from our process. Tallows and oils derived from our gravity separation process is sent to our business partner that utilise the material for sale in to biodiesel production among other beneficial reuses. Clay and silt mixtures are also dewatered and used as clean fill.

Quality Management Systems

We have implemented a management system based on the quality management systems ISO9001:2008, environmental management systems ISO14001:2004 and AS/NZS 4801 Safety Management Systems. We are using these systems to drive sustainability and process efficiency to improve the downstream environmental outcomes from waste.

Research

OES is continuously striving to achieve the best environmental outcomes from the materials produced through our treatment processes. With this in mind we are working with Monash University on a research project. The aim of the project is to find out if the treatment plant cake (which is derived from the processing of grease trap waste) can be used as a soil additive to benefit pasture productivity and soil health.



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