

Kongorong Dairies Pty Ltd

(Kongorong, SA)

Average milking herd: 1200 cows
 Dairy yard capacity: 900 cows
 Type of effluent system: Mechanical separation



Effluent from the dairy shed, yard and feed area gravitates in to a trafficable sand trap. The yard has three feed troughs that can be accessed by a tractor and feed wagon.



Sand and stones fall out of solution in the trap, whilst liquid effluent and suspended manure gravitates in to a circular collection sump.



The collection sump is equipped with two submersible mixers and a submersible effluent pump. When the sump reaches a pre-determined level the mixers' start, then the pump starts three minutes later. Mixed effluent is pumped up to a wedge-wire run down screen.

Separated solids fall beneath the screen, whilst liquid effluent gravitates in to a 6.9 ML effluent storage pond. The pond is lined with 1.5mm HDPE. Effluent from the pond is recycled for yard floodwashing. Effluent recycling conserves 25ML of freshwater per year.



During the irrigation months surplus liquid effluent will be applied to 80 hectares. This will be achieved by injecting effluent in to a centre pivot. Solids are applied to sandy areas of the property on a monthly basis.



Nutrients captured at the dairy shed annually:

- 16,549 kg/yr of Nitrogen
- 3,122 kg/yr of Phosphorous
- 11,598 kg/yr of Potassium

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