

# Compass Dairies

## (Mount Compass, SA)

Average Milking Herd: 400  
Type of Effluent System: Gravity Separation



Effluent from the dairy shed, yard and feed pad gravitates in to solids ponds. The two solids ponds can be operated in parallel sequence to allow one to dry out, whilst the other remains in use.

The heavy, fibrous solids and sand will fall out of solution in the solids ponds, whilst the liquid effluent gravitates via PVC T-pieces in to a High Density Polyethylene (HDPE) lined effluent storage pond. The solids ponds are cleaned out annually and the sludge is applied to the property's pastures.



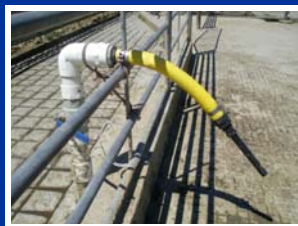
Effluent will be recycled for yard hydrant washing and the surplus applied to dry and irrigated land. Effluent will be injected in to the existing fixed sprinkler system and shandied with irrigation water. It may also be applied to dry land through a travelling irrigator.

A sludge removal pipe was installed in conjunction with the HDPE liner. It will allow a vacuum tanker to remove sludge from the pond without damaging the liner. Effluent that is recycled for washing and irrigation will be drawn from the top section of the pond to prevent pump or pipe work blockages.

Effluent recycling will reduce the property's freshwater consumption by up to 10,995kL annually.

Nutrients captured from the dairy shed and feed pad annually:

- 5,437 kg/yr of Nitrogen
- 1,026 kg/yr of Phosphorous
- 3,811 kg/yr of Potassium



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