



SWA Industrial Experience



Dairy Industry

SWA Water Australia has designed and built a number of treatment plants for the Dairy Industry. Projects include milk processing, cheese plants, yoghurt, casein, and related products manufacture.

Dairy Industry waste water treatment plants are invariably based on Dissolved Air Flotation technology and usually with some chemical treatment. Further BOD reduction can be achieved using post-DAF biological treatment. Biological treatment often requires mechanical dewatering of waste activated sludge.

If the dairy plant is located in rural areas, often the DAF sludge can be disposed of on the land, or in the case of cheese plants, the DAF sludge can be blended with whey for irrigation onto pastures.



Fonterra NZ – 250 m3/h DAF Plant



Fonterra NZ – 40 m3/h DAF plant



National Foods Australia – 30 m3/h DAF plant



Typical cheese factory results using acidification, DAF & post neutralisation:

Parameter	Units	Untreated	Treated	% reduction
Suspended Solids	mg/l	956	99	90
BOD	mg/l	2,200	730	67
Fat	mg/l	610	20	97
TKN	mg/l	73	28	62

Above results are from a Fonterra casein/cheese plant using a SWA 250 m³/h DAF plant, samples taken hourly by automatic sampler; above results are based on 24 hourly composite samples x 4 days continuous sampling.

Typical DAF float solids content: average 15.0%; range 11.2 – 17.3%



Recent Dairy & Ice Cream Projects:

Unilever Indonesia	Ice Cream	20 m ³ /h DAF plant
Allied Faxi	Ice Cream	30 m ³ /h DAF plant
National Foods, Australia	Dairy factory	40 m ³ /h DAF upgrade
Lion Wetherill Park	Dairy factory	60 m ³ /h DAF plant
Fonterra Australia	Milk processing	20 m ³ /h DAF upgrade
Fonterra Sri Lanka	Dairy factory	15 m ³ /h DAF
Kingisland	Dairy factory	40 m ³ /h DAF plants
Tatua	Advanced dairy process	250 m ³ /h DAF plant
Fonterra Stanhope	Cheese, casein	250 m ³ /h DAF plant
Fonterra NZ	Cheese	40 m ³ /h DAF plant
National Foods, Australia	Cheese	30 m ³ /h DAF plant
Saputo Dairy Australia EP	Milk processing	40 m ³ /h DAF plant
Saputo Dairy Australia AL	Cheese & butter	300 m ³ /h DAF plant

For more information about SWA's products please visit our website www.swawater.com.au or ask for our company brochures.

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