



**SWA Water Australia**  
Water & Waste Water Engineers



# SWA Industrial Experience



## Food Industry

SWA Water Australia has designed and built a number of treatment plants for Food processing Industries. Projects include dairy (milk, cheese, ice cream, casein & yoghurt), poultry processing, Noddle manufacture, cake making, commercial kitchens & food halls, sugar manufacture, ginger processing and others.

Food Industry waste water treatment plants often use DAF (Dissolved Air Flotation) technology, often with chemical treatment. Further BOD reduction can be achieved using post-DAF biological treatment. Biological treatment often requires mechanical dewatering of waste activated sludge.

SWA has designed & built food processing treatment plants from 10 m<sup>3</sup>/d up to 6,000 m<sup>3</sup>/d.



Cheese & Casein, NZ – 6,000 m<sup>3</sup>/d DAF Plant



Fonterra Stanhope, Vic - 250m<sup>3</sup>/hr DAF



Fonterra Stanhope, Vic - WWTP



Inghams Plant, Ingleburn 20 m<sup>3</sup>/h



Cheese Plant, Tas – 40 m<sup>3</sup>/h



Soy Sauce, China - 8x60 m<sup>3</sup>/d

### SWA clients





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

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

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



### Recent Food Industry Projects:

Unilever Indonesia	Ice Cream	20 m3/h DAF plant
Monterey Philippines	Noddle factory	30 m3/h DAF plant
National Foods, Australia	Dairy factory	40 m3/h DAF upgrade
Michele's Patisserie Australia	Cake manufacture	4 m3/h DAF plant
Fonterra Australia	Milk processing	20 m3/h DAF upgrade
Lee Kum Kee China	Soya Sauce	3 x 60 m3/h DAF plants
Buderim Ginger, Australia	Ginger	20 m3/h DAF plant
Fonterra NZ	Cheese, casein	250 m3/h DAF plant
Fonterra NZ	Cheese	40 m3/h DAF plant
National Foods, Australia	Cheese	30 m3/h DAF plant

For more information about SWA's products please visit our website [www.swawater.com.au](http://www.swawater.com.au) or ask for our company brochures.