

# **HYDROFLUX**

industrial

**DEFINING WASTEWATER ENGINEERING**



**WASTEWATER SOLUTIONS FOR  
THE DAIRY INDUSTRY**



## Water | Science | Technology

Hydroflux Industrial is reliable, efficient and effective. As experts, we manage complex situations to deliver dynamic solutions. We consistently delivery streamlined water management.

One of the keys to the designing and constructing successful wastewater treatment plants is have a thorough understanding of the processes that generate the wastewater.

This is why you need to engage a specialist wastewater company that has extensive experience in the treatment of wastewater from dairy processing plants.

At Hydroflux, our engineers are fully conversant with the internal production processes of all types of dairies and as such, we understand the sources of the wastewater, along with the fluctuations commonly experienced with flow and load.

We know the effects that whey has on the wastewater characteristics and how different methods and chemicals used for CIP can change the nature of the wastewater stream. Furthermore, we know that accidents do happen and armed with this knowledge, our robust plants are always designed to consistently perform under all conditions.

Our complete knowledge of your process and understanding of your wastewater will ensure that all Hydroflux Industrial wastewater treatment plant designs are optimised and tailored specifically for your plant.

Hydroflux Products are complete turn key systems, supported by our integrated service suite.

- PROCESS DESIGN
- PLANT CONSTRUCTION
- PROJECT MANAGMENT
- CONSULTING
- EQUIPMENT SUPPLY
- SERVICE AND OPERAITON

**Flexible solutions for all your business needs**



## INTEGRATED SERVICES

Hydroflux Industrial solutions extend from equipment supply through to installation, service and support. This integration of complete systems combines the best technologies available in our industries today.

## KNOWLEDGE CENTRE

Our extensive experience has acquired a vast well of Intellectual Property, and is transferrable via products, services and processes. This ongoing product improvement and innovation sees our IP in a constant state of evolution.

## BUSINESS SOLUTIONS

All proposed solutions will be expert solutions backed by skilled resources.



## PROCESS SOLUTIONS

Although some of the principals of the preliminary, primary and secondary treatment of wastewater across the dairy processing sector will often involve generic similar process operations, the detailed design and method of operation of each stage of the process technology incorporated into the overall design is critical.

At Hydroflux we understand that the solids and organic load, temperature and flow variations found in a cheese operation plant is completely different to that found at a UHT plant or from an ice cream production facility.

The most suitable processes for wastewater treatment for the dairy sectors will not only depend on the internal processing operations but where the wastewater is being discharged to.

Hydroflux Industrial has the experience and an extensive product range to design any industrial wastewater treatment plant from 10m<sup>3</sup> to over 10ML per day. We will cover all aspects of the design and construction of primary and biological treatment plants and the associated sludge management systems.

We will always ensure full compliance for environmental discharge, or reuse.

## EQUIPMENT

- Screens of all varieties including wedge wire, perforated mesh in above ground and in channel designs.
- Effluent storage tanks. High quality glass coated steel tanks or epoxy coated concrete tanks to last a lifetime.
- HY-DAF systems. Performance and quality DAF systems purpose engineered by Hydroflux Industrial.
- Chemical storage, handling and dosing systems.
- Biological systems. Stable and robust biological processes based on anaerobic ponds or high rate systems, conventional aerobic activated sludge processes, sequential biological reactors, membrane bio reactors, moving bed and fixed film reactors.
- High efficiency nutrient removal processes.
- Sludge thickening, dewatering, drying and conveying systems for primary and secondary sludge.



**Hydroflux Industrial—  
Partners to the dairy  
industry**

“Hydroflux Industrial understands your industry. For all aspects of wastewater treatment and sustainability, Hydroflux Industrial sets an example for others to follow.”



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