

**Promotes aerobic digestion
in effluent systems**



Digest-it® FOR EFFLUENT

Digest-it® is a proprietary formulated product that activates aerobic microbial digesters in effluent ponds and other effluent management systems. It provides a rich food source for microbes, promoting aerobic bacteria species that feed on and break down the organic matter in effluent. These microbes use the ammonia gas as a source of nitrogen to grow, thus creating a liquid high in nitrogen.

Digest-it® helps to convert the solids from the effluent into a usable liquid nitrogen source that can be applied to pasture. By increasing the water to solids ratio it makes effluent ponds easier to manage, reduces the odour and helps create a liquid product that grows grass and improves soil health.

Managing effluent is a growing concern on Australian farms due to increased herd sizes, urban encroachment and environmental scrutiny.

Non-performing effluent systems are instantly recognisable by the presence of persistent surface crusting and their pervasive odour. The depletion of oxygen in the water, combined with a lack of sunlight, creates an anaerobic environment and the proliferation of anaerobic bacteria which produces hydrogen sulphide (i.e. rotten egg gas), ammonia gas, and increased pH (i.e. alkalinity).

Digest-it® for Effluent aims to create and maintain a balanced aerobic microbial environment in effluent ponds, stimulating digestion of organic matter.



BEFORE



AFTER

QUICK FACTS

- While primarily used in dairies, can also be used in piggeries and other effluent systems.
- Can be used to treat shed floor bedding and dairy washdown pads.
- Physical and chemical changes to be expected within 4-6 weeks of treatment, including crust breakdown and dissolution of sediment, depending on quantity and weather factors.
- Reduces contractor costs as it is quicker and easier to pump pond water after product use.
- Reduces odours and the loss of gases to the environment.
- Reduces blockage of filters, and need for desludging.
- Used in more than 1,000 dairy farms internationally.
- **Digest-it® for Effluent** is certified organic, for use in organic production systems.



Better soils. Better crops. Better stock.



The nutrients contained in a dairy effluent pond can **add real value to your enterprise**, especially when used as part of your fertiliser regime.

Real value from your effluent water

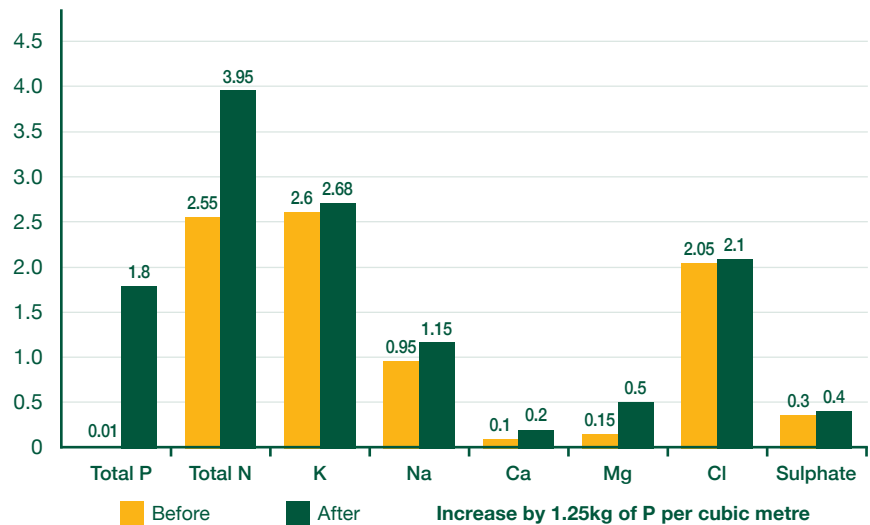
Independent trials conducted in the UK show that for every \$1 spent on the *Digest-it*® product for dairy operations there was a 3x return on investment in nutrient availability, which in turn grows more grass.

These long term grassland trials were conducted annually between 2017 and 2023, to measure the effects of treated dairy slurry on grass dry matter yield.

Results include:

- an increase in dry matter by 2.1t/ha over the 7 year trial compared to untreated slurry;
- increased plant available nutrients;
- reduced ammonia emissions of 31% over a 12-week trial period.

Nutrient concentrations in effluent pond after three months of *Digest-it*® (kg/m³):



DIRECTIONS

For use on Ponds or Dams

Spray out grass cover before initial charge.

Dilute 1:20–1:40 with water before carrying out initial charge.

Inject into water body rather than spray onto crust.

Once crust removed, dilute 1:20 and spray the entire surface of the pond with high pressure spray.

For Pad Washdown

Pour undiluted onto pad and washdown areas.

TYPICAL APPLICATION RATES

Daily Application Rate for Pad or Washdown

Up to 50 Cows	0.5 Litres	51 to 150 Cows	1.0 Litres
151 to 250 Cows	1.5 Litres	251 to 450 Cows	2.0 Litres
451 to 650 Cows	2.5 Litres	651 to 850 Cows	3.0 Litres
851 to 1250 Cows	4.0 Litres		

Effluent Ponds and Dams

Rates may vary depending on the thickness of submerged solid material and floating islands.

Pond Area (metres)	Applications – Litres (L) of <i>Digest-it</i> ®
50 x 25m or less	20 Litres
75 x 25m	40 Litres: 20L initial treatment, 20L from 14-21 days
100 x 40m	60 Litres: 20L initial treatment, 20L from 14-21 days, 20L 21 days later

NOTE: The rates suggested above should be used as a guide only. Each farmer's climatic conditions, water quality & farming practices may differ and thus require alterations to these rates to achieve optimal results.



BioAg Pty Ltd

Head Office
22-26 Twynam Street
Narrandera NSW 2700

(02) 6958 9911
admin@bioag.com.au
bioag.com.au

Better soils. Better crops. Better stock.

BioAg is Australian-owned and operated and has been manufacturing liquid biostimulants and natural phosphate fertilisers since 1999.