

Poultry Processing Trade Waste Guideline No. 27

INTRODUCTION

Trade waste discharges from companies processing poultry have the potential to adversely affect the sewerage system. Appropriate management practices at each site are therefore necessary. This Guideline outlines the areas of concern and available technologies for the control of trade wastes.

KEY TRADE WASTE QUALITY REQUIREMENTS

PARAMETER	GENERALLY ACCEPTED LEVEL
Biochemical Oxygen Demand	<1,000mg/L
Suspended Solids	<500 mg/L average
Grease/Oil	<100mg/L
pH	Between 6-10 units
Temperature	<38°C
Flow rate to sewer	Dependant on capacity of receiving sewers

Note: Discharge limits may be varied under certain circumstances for individual dischargers.

BEST PRACTICE MANAGEMENT ASPECTS

- Dry cleaning of live bird handling areas and floors before wash down to remove solids.
- Trays, baskets etc. used to collect solids from conveyors, rather than allowing them to fall on the floor or in drains.
- Dry feather transport system.
- Coordinated discharge of scald and chiller tanks to avoid excessive temperature fluctuations.
- Transfer pump pits designed to manage fluctuations in waste water flow rates.
- Target water use < 15 litres/bird.

TYPICAL PRETREATMENT

- Segregation of blood for off-site processing per [Trade Waste Blind Tank Guideline No 3](#).
- Intestines, heads, feet etc. directed to solid waste or further processing.
- Screening of all waste water via bow screen, trommel screen or similar device, fitted with effective cleaning system to prevent blinding with grease.
- Buffer tank to control flow fluctuations, moderate quality variations and provide contingency storage volume.
- Dissolved Air Flotation Units (DAF) or similar enhanced gravity separation systems using addition of polymers/coagulants.
- Dewatering of accumulated grease & solids.

MAINTENANCE

- It is the responsibility of site management to ensure the effective operation of all pre-treatment equipment e.g. ongoing removal of accumulated grease/solids & chemical replacement.

ADDITIONAL INFORMATION

Mains Water Protection (AS/NZS3500-2003 Part 1), [Trade Waste Bunding Guideline No.4](#), [Trade Waste General Policy](#), [Standards of Acceptance of Liquid Waste to Sewer](#),

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Further information
(08) 7424 1336

www.sawater.com.au
tradewastebranch@sawater.com.au