

Mondelez Wastewater Design

Location: Suttontown, South Australia

Sector: Water

Service: Multidisciplinary Engineering Design

AIE Engineering was engaged to deliver comprehensive engineering design services for the upgrade of the Suttontown Wastewater Treatment Plant. The primary objective was to improve treatment reliability and ensure the facility could effectively manage high-strength wastewater generated from cream cheese manufacturing while strictly maintaining compliance with environmental discharge requirements.

Our team faced complex engineering challenges, particularly regarding stormwater and containment design due to the site's location within a high-priority drinking water catchment area. AIE provided an integrated, multidisciplinary design solution that successfully accounted for existing infrastructure constraints and future production demands. We developed the Basis of Design, managed environmental approvals, and delivered detailed civil, structural, and mechanical engineering documentation to support a practical, maintainable, and operationally reliable upgrade.

The finalised design seamlessly integrates new infrastructure within the operational constraints of the live facility, establishing a robust framework for long-term compliance.

Highlights:

- Environmental protection: Specialised stormwater and containment design ensures total isolation of high-strength food processing runoff, safeguarding the local high-priority drinking water area.
- Operational success: Delivered all required development approval documentation and procurement-ready packages to facilitate a smooth, compliant transition to the construction phase.

Focus areas:

- High-strength wastewater, stormwater containment
- Development approval regulations, drinking water catchment requirements
- Civil, structural and mechanical design, Basis of Design, stakeholder engagement, environmental approvals

