

# FORESIGHT ENGINEERING SERVICES

*“Practical, reliable and efficient engineering solutions”*

## HAZARDOUS SUBSTANCES AND DANGEROUS GOODS

Foresight Engineering offers a range of consulting services for facilities storing and handling Hazardous Substances or Dangerous Goods. From minor storage of substances to entire manufacturing facilities, Foresight offers compliance assessments, design and construction services. With a strong foundation in civil and mining projects, Foresight has the unique ability to manage the complete project from feasibility through to construction and commissioning.

### WHAT ARE HAZARDOUS SUBSTANCES?

Hazardous substances are those that can have an adverse effect on health. Examples include poisons, substances that cause burns or skin and eye irritation, and substances that may cause cancer. Many hazardous substances are also classified as dangerous goods.

### WHAT ARE DANGEROUS GOODS?

Dangerous goods are substances, mixtures or articles that, because of their physical, chemical or acute toxicity properties, present an immediate hazard to people, property or the environment. Types of substances classified as dangerous goods include explosives, flammable liquids and gases, corrosives, chemically reactive or highly toxic substances.

### TYPICAL FACILITIES

Facilities for bulk liquids typically consist of some or all of the following:

- Vessels for storage of bulk product such as a raw material, end product or waste stream.
- Civil items such as bunding, foundations, drainage, and stormwater capture.
- Intermediate Bulk Container (IBC) loading, unloading or storage areas.
- Pumping and pipework infrastructure, control and monitoring systems.
- Buildings, covered areas, firewalls, splash screens.
- Truck loading or unloading areas.
- Manufacturing or process areas.

### FACILITY COMPLIANCE AND DESIGN SERVICES

Foresight Engineering offers on-site assessment services for the storage and handling of Hazardous Substances and Dangerous Goods at your facility. Compliance assessments for operating sites are often required for insurance or regulatory purposes to demonstrate compliance to the relevant Standards. For new facilities and modification to existing sites Foresight endeavours to work with the key stakeholders from the outset, to ensure the design offers an efficient compliant solution whilst focusing on providing a practical and functional facility for the end user.

### INDUSTRY EXAMPLES

Examples of projects previously undertaken by Foresight Engineering’s personnel include:

- Design of a new storage and pumping area for a facility to store mixed classes of hazardous and dangerous goods to AS1940, AS3780, AS4452, AS3833.
- Design Compliance Assessments of various Diesel storage facilities to AS1940.
- Design of new acid manufacturing plant to AS3780.
- Feasibility study of a bulk terminal for Elevated Temperature Tar to AS4681.

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