

PETRO CHEMICAL

Refinery, gas plant and petrochemical facility decontamination, decommissioning, demolition and remediation - the most complex contaminant inventory in Australian industry.

THE CHALLENGE

Petro-chemical facilities present the most complex hazmat inventory in Australian industry. Retired refining capacity carries significant decommissioning and remediation liability now being progressively executed, often in parallel with energy transition repurposing of the same footprint. Operating refineries, gas plants, acid plants and industrial process facilities generate continuous shutdown and brownfield modification work.

- Asbestos through lagging and gaskets; mercury in catalyst beds and instrumentation
- Hydrogen Sulphide, and Pyrophoric Iron Sulphide deposits in vessels and pipework
- Residual hydrocarbons, lead-based coatings, PCBs in transformers, NORM in production water systems, and PFAS contamination through firefighting infrastructure
- Orchestration of multiple concurrent decontamination programmes within live or recently shutdown processing facilities
- Complex and high-risk work within classified high hazard facilities
- Significant below-ground contamination legacies requiring remediation before site transfer or repurposing
- Pressure to optimise decommissioning cost and schedule while meeting strict regulatory closure criteria

THE CMA SOLUTION

Full hazmat spectrum, directly employed and licensed

CMA thrive in high hazard environments where process contaminants and decontamination works precede demolition and site transformation. Directly employed, hazmat-qualified workforce – not labour hire aggregation.

Integrated industrial cleaning; demolition; and civil

Decontamination and hazardous material abatement capability co-located with demolition and civil capabilities under one contractor. The challenge of orchestrating concurrent decontamination program solved by single-team delivery rather than third-party coordination.

Structural demolition – optimised for value recovery

Engineered demolition methodologies that maximise recyclable material yield and minimise waste volumes. Demolition sequencing designed around commercial outcomes – every tonne diverted from landfill reduces disposal cost and accelerates the remediation end-state.

Waste management and materials recycling

Full waste stream accountability from characterisation through to receipt at licensed facilities. Ferrous and non-ferrous metal recovery, concrete recycling and onsite crushing, and established pathways for NORM-affected scale decontamination and hydrocarbon-contaminated soils.

Optimising the decommissioning end state

Value engineering applied throughout demolition and disposal to reduce downstream remediation costs and compress liability transfer timelines. Demolition footprint documented and cleared to support immediate validation sampling, in-situ or ex-situ treatment, final landform construction, and EPA closure – without additional site preparation.

Tailored Sector Capabilities

Friable and non-friable asbestos abatement (Class A Unrestricted)	Chimney, flare and stack demolition
Mercury decontamination – vessels, instrumentation, catalyst beds	Vessel, tank and heat exchanger removal
Hydrogen sulphide and pyrophoric iron sulphide management	Structural steel recovery and recycling
Residual hydrocarbon and process chemical removal	Concrete crushing and on-site reuse
Process plant and pipe rack dismantling	Lead and heavy metals abatement

PROJECT PORTFOLIO

