

CASE STUDY



PROJECT POTABLE WATER DISINFECTION FOR DEFENCE

PRODUCT Sodium Hypochlorite Disinfection Recirculated (SHDR)

INDUSTRY Defence

LOCATION Singleton, New South Wales

BACKGROUND

This end-of-life water infrastructure renewal project required a new chlorination dosing system designed for an existing 500kL concrete water tower. As the asset deteriorated, the existing disinfection and dosing equipment could no longer reliably maintain stable chlorine levels, increasing the risk of non-compliance with the Australian Drinking Water Guidelines (ADWG).

Without renewal, the client faced escalating compliance risk, reduced system reliability and sustainability concerns due to inefficiencies in chemical use, energy consumption and asset performance.

SOLUTION

MAK Water worked closely with the client to develop a smart, reliable solution that addressed the ageing infrastructure. Our team provided a containerised automated chlorination and pH correction dosing system, fully customised to integrate seamlessly with the existing water tower.

MAK WATER KEY SOLUTIONS

- Custom 10' containerised hypo dosing Sodium Hypochlorite Disinfection Recirculated (SHDR) and pH correction plant
- Remote monitoring capability
- External visual alarm system
- Turnkey solution with delivery to site, installation and commissioning

RESULTS AND BENEFITS

- **Sustainability.** Treated water remains compliant with ADWG and safe for all users.
- **Operational efficiency.** Automated, low-maintenance plant housed in a secure and compact 10' container.
- **Rapid installation.** Minimal site integration required for installation and commissioning.



MAK Water containerised SHDR plant installed onsite



Internal view of the containerised SHDR and pH correction plant