

Service and Maintenance Water Solutions



Expertise you can rely on

MAK Water's experience designing and building water and wastewater treatment equipment enables us to provide efficient and professional support services.

Peace of mind and reduced operator involvement with your water treatment plant can take a number of different forms and are tailored to individual client requirements.

From a full operate and maintain service where MAK Water provides site based personnel to take responsibility for day to day plant operation, to remote operating solutions where MAK Water remotely monitors and observes the plant and undertakes regular site visits to carry out preventative maintenance and compliance testing.

MAK Water operates service offices in every mainland state in Australia, and is able to offer flexible solutions for service and maintenance (planned and emergency), remote monitoring, technical assistance and full operational and maintenance support.

EXPERIENCED. MAK Water has been providing service and maintenance support to water and wastewater treatment plants and equipment throughout Australia and the Pacific since 2003.

EXPERT SUPPORT. Experience in a multitude of water applications and diverse situations enables us to troubleshoot, rectify problems and recommend process and reliability solutions. Our engineers and service and operational teams work closely together to ensure we are a leader in water technology and implement cost-effective solutions.

RELIABLE. Equipment reliability is paramount to business success. MAK Water's preventative maintenance programmes and equipment servicing ensures system reliability and peak performance, maximises water quality, minimises operator intervention, and increases the life of the system and your return on investment.

FLEXIBLE. A service team located in every state in Australia allows for rapid deployment to sites across Australia for both planned and unplanned maintenance and technical support of water and wastewater treatment plants.

MAK Water can operate your plant, complete regular preventative maintenance, attend to breakdowns, provide remote support, data analysis and condition assessments. The level of support is tailored to you to ensure we are complementing your site capabilities and adding value to keep your water treatment plant running reliably.

INNOVATIVE. Improving or extending the life of your existing water system through refurbishment or upgrades can offer great commercial benefit and provide a cost-effective alternative to the purchase of a new plant.

Where installed, ClearAccess™ Remote Monitoring enables MAK Water to see the plant operating in real time and therefore assist your site team to diagnose problems. This prevents unnecessary service call-outs and improves reliability and plant uptime.

END TO END SOLUTIONS. From consumable supply only, to turnkey installations, we can design, build, install, operate and maintain all your project's water treatment plants.



HEALTH, SAFETY AND THE ENVIRONMENT

MAK Water places the Health and Safety of our people, clients and contractors, and care of the Environment as our highest priority.



Service and Maintenance

Efficient and professional industrial waste water, sewage and water treatment support for total peace of mind and reduced operator involvement with your equipment.

MAK Water operates service offices in every mainland state in Australia, and is able to offer flexible solutions for service and maintenance (planned and emergency), remote monitoring, technical assistance and full operational and maintenance support.

- ◆ Routine equipment servicing
- ◆ Emergency breakdown and repair
- ◆ Technical support
- ◆ Instrument calibration
- ◆ Major overhauls and upgrades
- ◆ Supply of trial plants and piloting equipment



Facilities Management

Expertise in all areas of asset creation, optimisation and management, providing cost, time and outcome orientated solutions that support the successful delivery of water, wastewater and sewage projects.

- ◆ Facility management of sewage, industrial waste water and water treatment assets
- ◆ Operation and management of water assets
- ◆ Public Private Partnerships
- ◆ Build Own Operate service contracts



Pilot Plants

Modeling full-scale water treatment processes provides a powerful method for analysing water, wastewater and sewage treatment processes.

Pilot plants are designed, fabricated, commissioned and serviced to empower you with the data necessary to accomplish project objectives.

- ◆ Supply of trial plants and piloting equipment
- ◆ Compare technologies for new sites or project expansions
- ◆ Validate innovative water treatment technologies
- ◆ Establish design criteria to ensure the best outcomes
- ◆ Test for compliance with regulatory standards
- ◆ Optimise existing water treatment processes
- ◆ Experiment safely without the worry of unsafe effluent release
- ◆ Training of operators and provision of public education



Chemicals / Consumables

MAK Water is a supplier of consumable chemicals for water treatment equipment. One off orders or regular supply arrangements ensure your plant is maintained and meets environmental compliance.

Detergents and degreasers are biodegradable and environmentally friendly.

- ◆ Antiscalants
- ◆ Cleaners
- ◆ Biocides
- ◆ Chlorine scavengers
- ◆ Coagulants
- ◆ Polymers
- ◆ Disinfectants
- ◆ pH adjustment
- ◆ Filters
- ◆ Membranes and media



Membrane Services

Membrane fouling is inevitable, even with the highest quality inlet water, and with the large cost associated with replacing entire sets of membranes, extending membrane life can save thousands of dollars over the life of your water treatment system.

Cleaning and membrane exchange services extend the life of your membrane and mitigate the high cost of membrane replacement. Membranes can be brought back to within 90% of original flow capacity and better than 95% mineral rejection.

- ◆ Membrane cleaning and rejuvenation
- ◆ Membrane replacement and installation
- ◆ Membrane analytical / autopsy services
- ◆ Membrane system simulation and optimisation



Plant / Process Optimisation

If your water treatment equipment is not delivering what you need, is unreliable or inefficient, we can optimise your treatment process.

- ◆ Treatability testing to develop a program that effectively treats industrial process water to meet your goals
- ◆ Sampling and regulatory compliance including environmental assessments, drinking water management, legionella management and recycled water management
- ◆ Performance audits to improve plant performance, reduce energy costs and increase productivity
- ◆ Training
- ◆ Plant simulation and modeling using BioWin, IMS (Integrated Membrane Solutions) Design and ROSA (Reverse Osmosis System Analysis)



Hire Fleet

MAK Water operates a hire fleet of reverse osmosis desalination, packaged wastewater and sewage treatment plants available for short- or long-term lease. Plants can be delivered to site at short notice and be fully operational within hours.

Plants are generally containerised, enabling simple and efficient site installation. They operate automatically via a Programme Logic Controller (PLC), needing minimal attention during normal operation. Larger plants have remote access so plant operation can be monitored by MAK Water's technical support team, who maintain all commonly used spare parts in our factory.

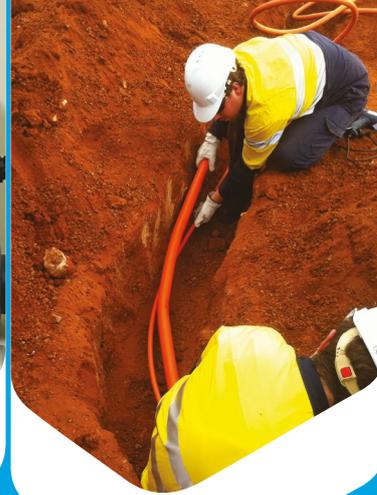
- ◆ Hire of desalination / reverse osmosis plants
- ◆ Hire of filtration plants
- ◆ Hire of wastewater treatment plants
- ◆ Hire of full turn-key systems including generators, tanks and distribution pump sets



Sludge Dewatering

Dewatering of waste sludge can be one of the most economical investments to reduce the volume of waste and save on disposal costs. Sludge management reduces pathogens, minimises odours and reduces transport quantities.

- ◆ Mobile sludge dewatering unit hire contains all the equipment necessary to process a wide range of sludges from municipal to industrial
- ◆ Mobile lime stabilisation plants reduce pathogens and odours meaning the remaining product can be used as an organic fertiliser or soil ameliorant
- ◆ Surveys of sludge lagoon ponds / sludge storage to manage the rate of accumulation, calculate retention time and budget for future dredging expense



Environmental Solutions

MAK Water provides a range of environmental solutions complimenting our expertise in wastewater, sewage and water treatment.

- ◆ Hydrogeological surveys and assessments
- ◆ Laboratory testing services
- ◆ Sampling and regulatory compliance including environmental assessments, drinking water management, legionella management and recycled water management

Spare Parts

MAK Water maintains a supply of water treatment spare parts to minimise down time of plant and equipment.

- ◆ Filters and filter bags
- ◆ Membranes
- ◆ Ultraviolet sterilisers
- ◆ Pumps
- ◆ Control panels
- ◆ Silt traps
- ◆ Diversion valves
- ◆ Waste oil reservoirs
- ◆ Skimmers
- ◆ Float switches
- ◆ Flocculant
- ◆ Risers
- ◆ Trafficable grates
- ◆ Detergents and degreasers
- ◆ Chemicals
- ◆ Instruments and analysers

Equipment Upgrades

If your water treatment equipment is not delivering what you need, is unreliable or inefficient, we can help you design a suitable upgrade.

Regardless of the type of system and where it originated, MAK Water can assess your requirements and provide you with a solution.

- ◆ Plant simulation and modeling using BioWin, IMS (Integrated Membrane Solutions) Design and ROSA (Reverse Osmosis System Analysis)
- ◆ Supply of trial plants and piloting equipment
- ◆ Upgrades and refurbishment with the supply of a temporary mobile treatment system to ensure water treatment is not disrupted and compliant for the site (if required)

Product Registration and Warranty

MAK Water's product registration service ensures your equipment is kept maintained throughout the warranty period and beyond.

Simply register your equipment and we will keep track of your product warranty and let you know when your system is due for maintenance.

Find the quick form on makwater.com.au and let us do the rest for you.



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Client Services

MAK Water are packaged plant specialists, providing industrial waste water, sewage and water treatment solutions in Australia and overseas.

For more than 20 years, our solutions have been helping clients achieve cleaner water solutions that are both cost-effective and regulatory compliant.

MAK Water offers customised water management systems, owns a substantial hire fleet, and provides service and maintenance for all types of water and wastewater treatment systems. A wide variety of consumables and chemicals for ongoing system performance and a complete range of standard products are also available.

MAK Water has built a reputation for delivering superior service and high performing systems, enabling clients to reduce operating costs and extend equipment life-cycles.

- ◆ Design
- ◆ Project Management
- ◆ Procurement
- ◆ Manufacturing
- ◆ Installation
- ◆ Commissioning
- ◆ Operation
- ◆ Service and Maintenance
- ◆ Consumables
- ◆ Spare Parts
- ◆ Equipment Hire