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CAPABILITIES STATEMENT

WATER AND WASTEWATER TECHNICAL AND PROCESS SUPPORT

- Sapsorb can identify, analyze, implement, and monitor the process issues on site and provide full service and maintenance of your water and wastewater treatment plants
- Sludge seeding in biological and MBR tanks, Coagulant dosing setup, Aeration in Bioreactor tanks for Anoxic and Anaerobic tanks, DO and pH level setup, MLSS optimization, UF membrane cassette commissioning, operations and repairs, General setup for required product water quality
- Prepare feasibility through detailed design reports, calculations, and construction and/or performance specification packages for both Water and Wastewater treatment projects at various stages in project life cycles
- Undertake technical surveys of major water and wastewater assets, including lifecycle analysis, condition assessment, energy efficiency and operational performance
- Develop enduring design solutions in accordance with relevant standards and client requirements whilst ensuring technical excellence, throughout the options development, concept design and detailed design phases for wastewater treatment systems and municipal sewage systems
- Assessing design hazards and producing a design risk assessment in the context of the Health and safety Regulations and process risk reduction for operations
- Produce design calculations using specialist advanced water and wastewater treatment design software packages
- Provide technical input and advice to clients in relation to water and wastewater process infrastructure and operations
- Optimize the process for the smooth operation of the plant.



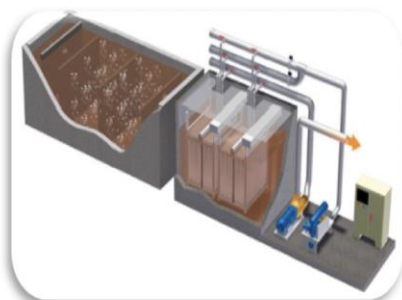
RO system



UF system



Wastewater plant



UFMBR



Conventional water treatment plant

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O & M OF WATER AND WASTEWATER PLANTS:

Sapsorb maintains a multi-skilled team that can effectively operate and maintain water and wastewater treatment plants. We have a range of services to help improve water and wastewater treatment plant performance. This includes the operation of conventional and advanced water and wastewater treatment, chemical cleaning for Ultrafiltration, Reverse Osmosis (RO) plants, sewage plants, and other water infrastructure.

We provide water plant operations solutions that can bring the following benefits:

- Prolong the life of plant equipment through proper maintenance and repair
- Reduce plant downtime and its impact on production
- Onsite analysis and process operations
- Sample collection, and analysis, with required decision-making compliance reporting
- Calibration of instruments
- Reduced operating expenditure through tailored solutions
- Improved operational efficiencies and treatment plant reliability
- Synergies achieved through both specialized and bundled service capabilities across water and wastewater assets.
- Advice on better maintenance and operating practices that deliver greater efficiencies
- 24 x 7 emergency response
- Preventive maintenance and chemical management
- Effective risk mitigation across safety, environment, and performance to ensure business continuity delivered through our multi-skilled, multi-disciplined team.



UF/RO SYSTEM



CLARIFIER



MULTIMEDIA FILTER



WATER SOFTNER

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DOCUMENTATION SERVICES:

Sapsorb specialises in producing user-friendly site documentation for water and wastewater plants. The site documents are a crucial component of the smooth operation of the plant. The documents are produced to the site-specific requirements with in-depth knowledge of operations. A brief list of documents we can prepare is as follows:

- **SITE SERVICE MANUAL & OPERATION PHILOSOPHY**
- **STANDARD OPERATING PROCEDURES**
- **JOB SAFETY ANALYSIS FOR EACH TASK**
- **RISK ASSESSMENT FOR EACH TASK**
- **PREVENTIVE MAINTENANCE REGISTER**
- **CALIBRATION REGISTER**
- **EHS MANAGEMENT PLAN**
- **ESCALATION PLAN**
- **WATER QUALITY MANAGEMENT PLAN**
- **ASSET MANAGEMENT PLAN**
- **RISK MANAGEMENT PLAN**

CUSTOMER LIST:

- **CENTRAL HIGHLANDS REGIONAL COUNCIL, QLD**
- **VEOLIA WATER TECHNOLOGIES AND SOLUTIONS, ANZ**
- **WATER RENTAL, ANZ**
- **GYMPIE REGIONAL COUNCIL, QLD**
- **HYDROFLUX, ANZ & PACIFIC**
- **INFINITE WATER, NSW**
- **OSMOFLO, NSW**
- **SYDNEY WATER CORPORATION LTD, NSW**
- **PRIME WATER, NSW**



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INSTALLATION AND COMMISSIONING OF WATER AND WASTEWATER PLANTS

Sapsorb is a Water and Wastewater specialist company with extensive experience in the commissioning and optimization of water treatment plants and equipment. The director has worked both in Australia and internationally, including in remote locations and his experience includes responsibility for planning, managing, and repairing installations. Skilled at handling diverse challenges associated with process applications, equipment, and customers.

- Equipment Testing
- Piping, Tank, and Structural Basin Testing
- Utility System Testing
- Control System Testing
- Process Testing
- Dry and wet commissioning
- Start-up, Training & Maintenance



UFRO system



Recycled water plant

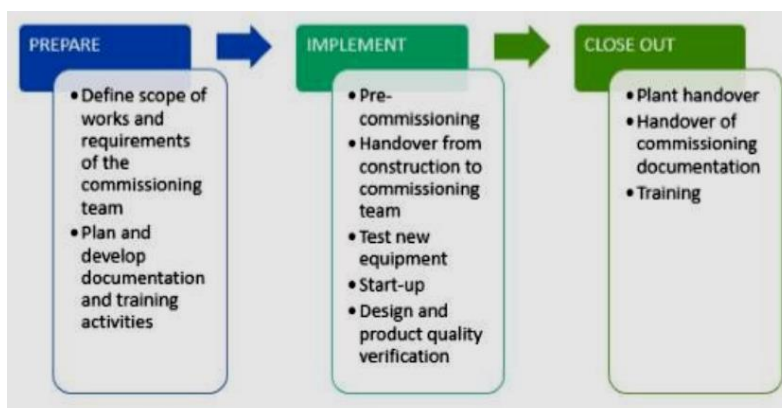


Wastewater plant



Recycled water

PREPARE → IMPLEMENT → CLOSE OUT



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PRIOR PROJECTS COMPLETED

PROJECT NAME	LOCATION	PLANT CAPACITY	TREATMENT SCHEME	APPLICATION	PROJECT WORK
Sydney Airport RWTP	Sydney, NSW	1.5 MLD	UFMBR→RO→Ozone→Disinfection	Recycle water plant	Commissioning and O & M
Sydney Water	Sydney, NSW	50 MLD	UF→RO→Disinfection	Recycle water plant	Commissioning and O & M
Sydney Water HQ	Sydney, NSW	0.5 MLD	UFMBR→ACF→UV→EDR→Disinfection	Recycle water plant	Commissioning and O & M
Waikato WTP, NZ	Auckland, NZ	100 MLD	Clarifier→UF→Disinfection	Potable water plant	Commissioning and membrane replacement
Delta Electricity	Lithgow, NSW	4 MLD	MMF→CF→RO	Boiler feed water	Commissioning and service
Santos, Moomba	Moomba, SA	4 MLD	MMF→CF→RO	Boiler feed and potable	Upgrade support and service
Coopers Brewery	Adelaide, SA	5 MLD	MMF→CF→RO	Breweries	Upgrade support and service
Penrice Soda	Adelaide, SA	5 MLD	MMF→CF→RO	Boiler feed	Service support
3M filtration	Sydney, NSW	2 MLD	MMF→CF→RO	Boiler feed	Commissioning and Service support
Opal Australian paper	Sydney, NSW	10 MLD	MF→ACF→CF→RO	High purity water	Upgrade support
Infinite water	Sydney, NSW	1 MLD	Screen filter→UFMBR→UV→Disinfection	Wastewater plant	Installation and commissioning
Infinite water	Sydney, NSW	2 MLD	Screen filter→UFMBR→UV→Disinfection	Recycle water plant	Installation and commissioning
Infosys, India	Pune & Mysore, India	50 MLD	Screen filter→UFMBR→Ozone→Disinfection	Recycle water plant	Commissioning and training
Visy Paper	Melbourne, VIC	5 MLD	MF→ACF	Water filtration plant	Commissioning and training
Capricorn Copper Mine	Mount Isa, QLD	2 MLD	MMF→CF→RO	Mines wastewater treatment	Installation, commissioning, and service
Weddell Power Station	Darwin, NT	0.5 MLD	MMF→Softner→CF→RO→EDI	Boiler feed water	Installation, commissioning, and service
Central Highlands Regional Council	Emerald, QLD	Various	Water and wastewater treatment plants	Towns water supply	O & M, process, project and documentation support
Gympie Regional Council	Gympie, QLD	Various	Water and wastewater treatment plants	Towns water supply	Documentation, technical support
Hydroflux	ANZ & Pacific region	Various	Water and wastewater treatment plants	Various applications	O&M, technical support, Documentation, On-site operator training

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REFERENCES:

<p><u>Josh Adams</u> <u>Co-Ordinator Utilities</u> <u>Central Highlands Regional Council</u> <u>0428035762</u> jadams@chrc.qld.gov.au</p>	<p><u>David Old</u> <u>Highland Water Technologies</u> <u>0417821800</u> highlandswatertech@bigpond.com</p>
<p><u>Janice Wilson</u> <u>Double Black Diamond Solutions</u> <u>0459193040</u> janice@dbds.com.au</p>	<p><u>Andrew Sheales</u> <u>Co-Ordinator Engineer</u> <u>Central Highlands Regional Council</u> <u>0418799240</u> ASheales@chrc.qld.gov.au</p>