



EXPANSION OF WATER & WASTEWATER TREATMENT INFRASTRUCTURE FOR ATLAS IRON

To support Atlas Iron's expansion at Sanjiv Ridge, Centurion delivered a compact, containerised water and wastewater treatment solution that increased capacity, met Class C discharge standards, and integrated with the site's SCADA network. Fully automated and scalable, the system improved performance and efficiency while using existing infrastructure to keep costs down, positioning Centurion as a trusted partner in the mine's growth.

THE CLIENT

Atlas Iron – Sanjiv Ridge Mine Site

As part of its accommodation expansion from 180 to 250 personnel, Atlas Iron required a significant upgrade to its Reverse Osmosis (RO) water treatment plant and wastewater treatment plant at Sanjiv Ridge. The solution needed to be robust, efficient, and fully compatible with the site's remote monitoring and control systems.



CLIENT CHALLENGES

- Increased capacity to process 65m³/day
- Compact 40ft containerised design to suit site constraints
- Compliance with Class C effluent discharge standards
- Full automation and SCADA compatible PLC systems integrated into the existing remote monitoring network
- Enhanced flow and pressure control for improved operational control.

OUR SOLUTION

Centurion developed a customised water and wastewater treatment solution tailored to Atlas Iron's specific needs:

Reverse Osmosis (RO) Plant

- 40ft containerised system with a capacity of 75m³/day
- Fully integrated SCADA-compatible PLC for seamless remote monitoring
- Motorised flow control valves and digital pressure sensors enabling real-time automation and control
- System designed to adapt to feed water characteristics having received the client's water analysis.

Wastewater Treatment Plant (WWTP)

- Designed to meet Class C discharge compliance
- Scalable 40ft containerised unit with a processing capacity of 65m³/day
- External anoxic tanks or dual-unit configuration to enhance biological treatment performance
- SCADA-integrated PLC, motorised flow valves and digital pressure sensors for an efficient, remote-managed operation.



RESULTS

- Scalable and future-ready infrastructure - designed to support immediate expansion while allowing for long-term growth
- Integrated remote monitoring and automation - seamlessly connected to the client's existing SCADA system for real-time oversight and control.
- Enhanced treatment performance - delivered reliable compliance with WWTP licence requirements while maximising operational efficiency.
- Cost-efficient design - leveraged existing raw and treated water tanks to minimise capital investment.

CONCLUSION

By delivering a modular, fully automated, high-capacity water treatment solution tailored to Atlas Iron's operational needs, Centurion established itself as a trusted partner in the mine's expansion.

CONTACT INFORMATION

For more information, contact the team in Perth, Western Australia at E: CWWSAU@centurionaprs.com, T: +61 8 9331 6133, or in Brisbane, Queensland on T: +61 447 610666.