



Treatment of drinking water, recycled water and waste water is dependent on a myriad of supporting assets, including pumps, filters, chemical dosing equipment, as well as tanks and other water retaining structures. Additionally, treatment plants rely upon many supporting elements and systems, including electrical and control systems, ventilation and other building services. Reliable and consistent performance of treatment processes depends on consistent performance of these assets.

Condition assessment allows valuable insight into reliability and remaining life, however it may also identify issues such as fitness-for-purpose, risks to personnel, operations and water quality. An essential tool for the planning of maintenance and renewal projects, condition assessment allows the maximum useful life of the asset to be utilised considering the total cost of ownership. Assessments can include strategies for extending asset life, reducing ongoing maintenance expense or detailed planning and cost estimation for renewal projects.

Inspection

- Pumps, Blowers and Mechanical
- Tanks and Lagoons
- Plastic, Steel and Concrete Structures
- Chemical Dosing Systems
- Pipework
- Filters and Filter Media
- Electrical and Control Systems

Condition Assessment

- Pump and Blower Performance
- Filter Operation
- Plant Hazard
- Remaining Life Estimation
- Total Cost of Ownership
- Condition Assessment Reports

Remediation Programs

- Maintenance Planning and Specifications
- Operational Guidance and Procedures
- Management of Renewal Projects

Supporting Programs

- Filtration and Backwash Optimisation
- Capital Upgrade/Renewal Planning
- Detailed Design and Specification
- Commissioning Support

Our Experience:

- Process and Plant Condition Assessment, including performance-based specifications, for four water treatment facilities in regional Queensland – Building and Asset Services, Department of Housing and Public Works
- Plant Hazard Assessment – Ethanol Technologies
- Plant Hazard Assessment – Sunshine Coast Council
- Water and Wastewater Manager Secondment – Department of Housing and Public Works
- Water and Wastewater Engineer Secondment – Southern Down Regional Council
- Our staff have experience in design, commissioning and asset lifecycle management of water treatment systems, including filtration, chemical treatment and hydraulics system design.

Viridis Consultants has been consulting to the water industry for 10 years. We work with water utilities, local councils, regulators and private water utilities. Our team of engineers and scientists can assess the condition of your assets to help you make an informed decision going forward.

Services

- Mechanical Equipment Inspection
- Water Retaining Structures Inspection
- Electrical Inspection
- Mechanical Equipment Performance Assessment
- Control System Assessment
- Remaining Life Estimation
- Maintenance Planning
- Capital Upgrade Planning
- Project Management

Process Engineer

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With seven years' experience in the design, construction and commissioning of process plants, Glen is an experienced project manager specialising in the specification, implementation and assessment of filtration and chemical treatment plant.

As an experienced engineer across diverse environments including water treatment, commercial construction and manufacturing, Glen has extensive involvement in risk-sensitive design, design reliability, total cost of ownership, design for construction, commissioning and validation.

Glen also has experience in asset management, including condition assessment, risk assessment and compliance assessment in a range of filtration and chemical treatment environments including water treatment plants, wastewater treatment plants and recreational aquatic environments.



If you would like further information or think that Viridis can help you, please contact us. We are always happy to assist.

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