Because all wastewaters are different, it is necessary to work with a team that can combine comprehensive knowledge with practical experience in the fields of chemistry, biology, hydraulics, mechanical processes/equipment, instrumentation and control, materials handling and plant layout.

Identifying needs

Our clients recognise that the ability to preserve our precious resources is paramount. We’ve developed leading edge solutions that allow wastewater to be treated to a standard that minimises its impact on the environment.

Our changing climate is dictating a more urgent approach - from nutrient removal to resource recovery, water reuse compatibility is at the forefront of our minds. We also understand the pressures surrounding capacity expansion and the impacts of population growth and regulatory limits from government and councils.

Energy reduction and recovery is important to you - as are solutions that allow wastewater water to be reused, recycled or discharged. Our people can help deliver improved operability, reduced maintenance and lifecycle costs through solutions that are innovative, reliable and flexible.

Services

We harness extensive capability from project initiation to startup and optimisation:

- Feasibility studies and pilot tests
- Facility plans
- Concept and detailed designs
- Design-build or owner’s engineer services
- Construction phase engineering construction management and supervision
- Asset management and financial planning

We have direct experience in facility planning, design, and construction of enhanced nutrient removal facilities for municipal and industrial clients. Some of the technologies that we have worked with include:

- Enhanced oxidation ditches
- Multi-stage plug flow processes
- Sequencing batch reactors
- Integrated fixed-film reactors
- Ballasted flocculating tertiary filters
- De-nitrification and tertiary membrane filters
- Membrane bioreactors

Benefits

Engage GHD and benefit from project-specific solutions that align with new environmental regulations, reduce operating costs, and/or expand treatment capacity. Our teams have a solid understanding of the changing regulatory environment. We’re proud to own a depth of solid, reliable minds, headed up by world-class technical leaders who are active in research and technology and understand industry trends and processes. We have particularly strong relationships with contractors and technology providers to deliver an alternative delivery model.

What to expect

Expect to have access to the best people for your project. Should unexpected challenges arise, we have ready access to professionals across the entire spectrum - such as treatment, reuse, tunnel and energy services. You’ll be provided with one point of contact and we’ll work with you to hit your project deadline, budget and other success targets.

To talk advanced wastewater treatment, contact:

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“We look beyond conventional approaches towards more sustainable solutions which take into account energy use, carbon footprint, resource recovery, and water quality benefits.”

Thor Young, Service Line Leader - Wastewater Treatment and Recycling