

**Vision:** We are your trusted experts in marine monitoring and surveillance

**Mission:** Your partner in solving complex marine problems powered by innovation and expertise

Located in Darwin, our Marine Environmental Services business boasts 50 years of collective marine expertise specific to the Northern Territory marine environment. We leverage our local knowledge to develop creative and feasible solutions that are suitable for our region, environment and communities. As locals, we favour partnerships with other local businesses to ensure high quality marine consultancy services. Our mission is to provide value for clients that support our economy and protect our marine environment. If the capability you require is not listed below, feel free to contact [ruthpatterson@elysiumepl.com.au](mailto:ruthpatterson@elysiumepl.com.au) directly.

### Marine data collection, design, analysis and interpretation

- Ocean currents and wave monitoring
- Physical chemistry monitoring
- Turbidity and PAR monitoring
- Water quality data collection and analysis
- Bathymetric monitoring
- Dye studies
- Meteorological and sea state monitoring
- Sediment sampling
- Seagrass surveys
- Benthic habitat surveys Assessment of abundance and composition coral recruits on settlement plates



### Marine commercial advisory services

- Planning and development of long and short-term marine monitoring programs
- Independent review of hydrodynamic, sediment transport, water quality and particle tracking models
- Provision of advice for marine waste discharge licences
- Provision of advice regarding NT regulatory requirements
- Critical technical environmental values reviews
- Provision of advice to support environmental Impact Assessment
- Provision of advice to support risk analysis of environmental impacts to the marine environment





### Physical and ecological oceanographic research

- Development and implementation of strategic, collaborative joint venture marine environmental monitoring programs, including with Indigenous landowners, the commercial sector, government departments and agencies, universities and research institutions
- Marine megafauna research: movement analysis, tracking and risk assessment
- Long-term beach erosion monitoring in remote environments
- Marine debris research: surveys, numerical modelling, pathways of distribution in northern Australia, citizen science



### Advanced oceanographic monitoring using robotics and autonomous systems

- Cost-effective monitoring using autonomous systems
- Uncrewed Surface Vessel data collection for persistent and cost-effective environmental monitoring and surveillance



### Education

- Lecturing and coursework development in geospatial statistics, GIS, mathematics, water resources and uncrewed systems



*Ability to work in Defence-secure and sensitive environments*

Elysium EPL is a veteran-powered Australian SME that works with government and industry organisations to improve their business performance through the provision of trusted advice and comprehensive solutions with enduring value.