

SUSTAINABILITY

Company Overview and capability to support sustainability projects.

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HYDROBIOLOGY'S SUSTAINABILITY TEAM



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ENVIRONMENT | SCIENCE | KNOWLEDGE

HYDROBIOLOGY

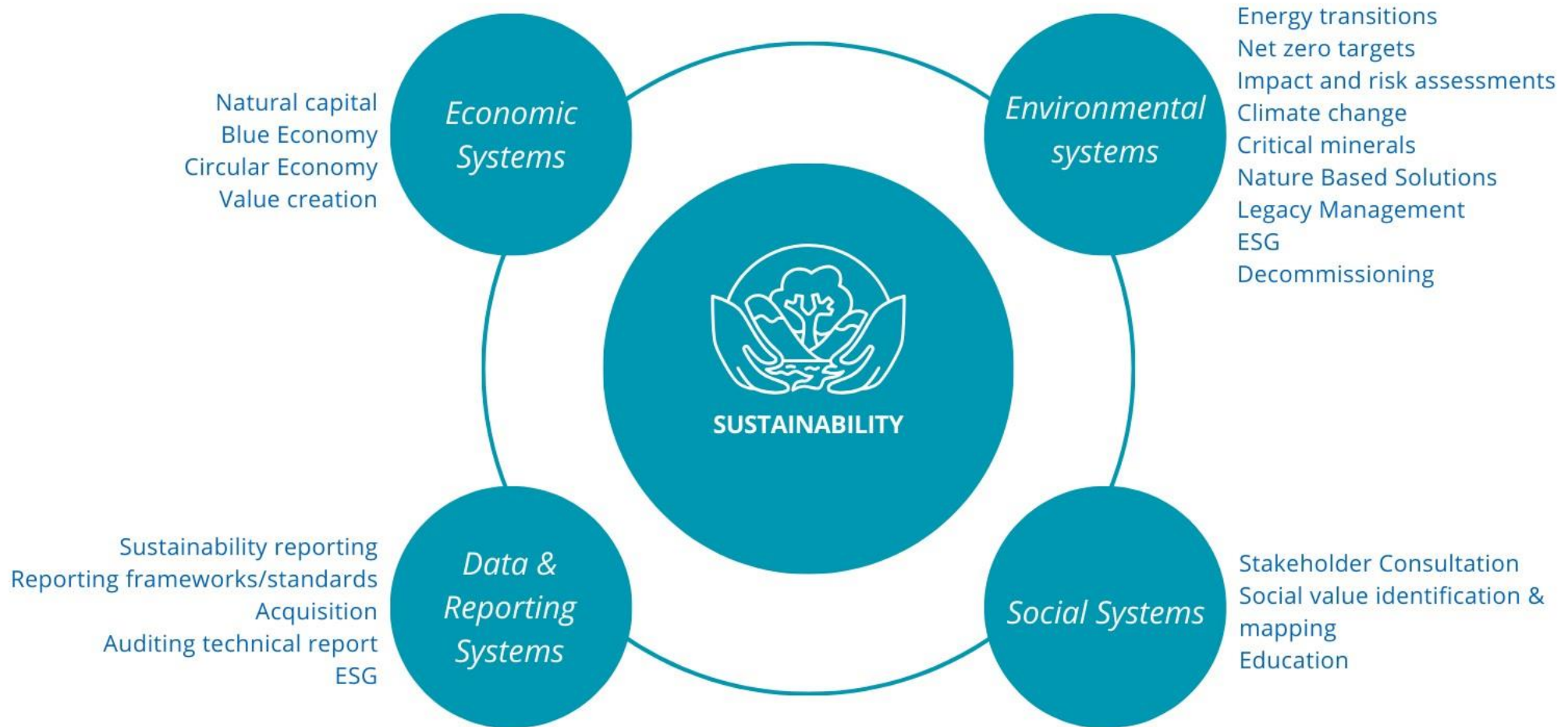
- Award-winning independent environmental consultancy specialising in terrestrial and aquatic sciences
- Offices in Australia (Queensland and WA), Singapore, Brazil (Vitoria) with global projects
- Sectors include renewables, mining, oil and gas, utilities, international aid, government, NGOs and research
- Extensive and demonstrable knowledge to support natural capital projects
- HSEQ pre-approved Tier 1 companies
- Certified systems including ISO9001 (Quality), ISO45001 and BizSafe Level 3 (Safety) CASA ReOC (commercial drone operations)

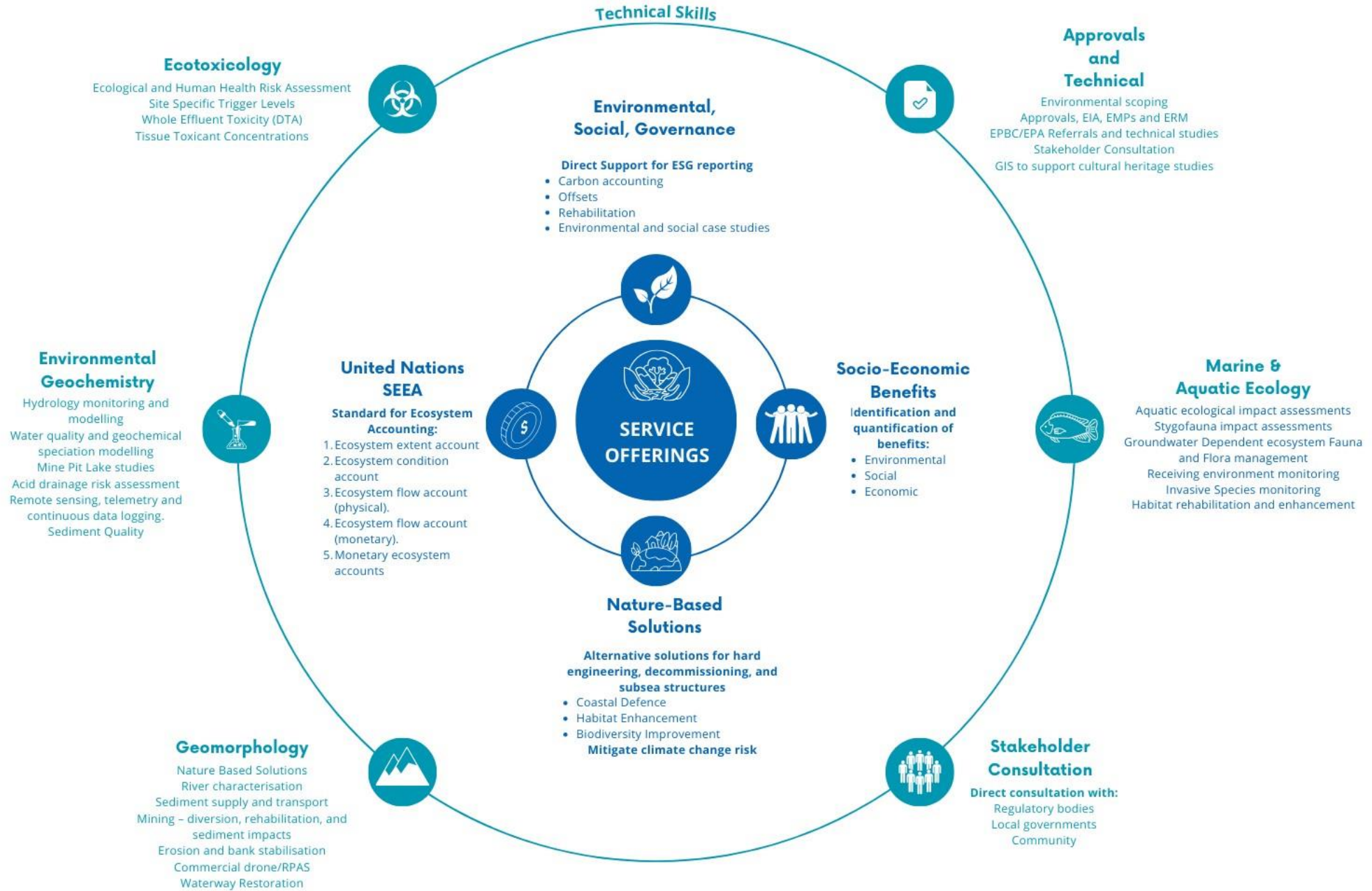


SECTOR LEADING CONSULTANCY

- We find innovative solutions for our clients
- People-focused with team of passionate leading scientists
- Strong links with industry and research societies and organisations
- Diverse portfolio of international projects
- Research outcomes lead to value adds for clients – demonstrable publication history







EXAMPLES OF HOW WE CAN HELP

Natural capital	Decommissioning	Education and Capacity Building	ESG Reporting	Energy Transition	Performance Standards	Circular Economics	Socio-economic values and safeguards
Natural capital accounting (UN SEEA) can be applied to quantify the spatial, condition, and monetary changes associated with ecosystems affected by mining activity, rehabilitation, or ecosystem enhancement projects.	Base case for decommissioning of oil and gas platforms is complete removal. Hydrobiology can assist with nature-based solutions to preserve and enhance natural ecosystems, reduce carbon emissions, and provide an array of socio-economic benefits. In the mine closure space, Hydrobiology works with clients to move away from managing legacies to creating value and opportunity.	Education programs can be integrated into many environmental projects, especially in regional areas. Education can incorporate ecological, climate, and other environmental topics. Pairing this with client-led expertise, this can encourage careers in STEM, engineering, trades, and other sector specific employment.	Hydrobiology can directly support a company's ESG reporting with environmental case studies, data for reporting metrics, materiality assessments, carbon accounting, and socio-economic assessments leading to benefits that will improve clients social license to operate.	Hydrobiology is actively engaged projects to promote renewable energy systems including offshore wind, hydropower and floating solar. Our contributions range from baseline surveys and science research to understand the impacts of new technologies, to permitting and approvals.	We have a deep understanding of EIA and ESIA processes, and International Safeguards Standards for major development projects including mining and renewable energy. Understanding how our changing environment and societal standards may affect impact risk (e.g. climate change) is critical for sustainable outcomes.	Circular economics is an alternative to our existing linear economic model based around designing-out waste, retaining material and value in the supply chain as long as possible and regenerating nature. We work with companies to identify opportunities for circularity.	We adhere to high standards of social performance and work with Traditional Owners and cultures all over the world. Coastal erosion and climate change risk such as sea level rise can diminish and affect values associated with the coastline. This includes cultural, recreation, human health, aesthetic, and amenity.

CASE STUDY

Geographe Bay Natural Capital Accounting

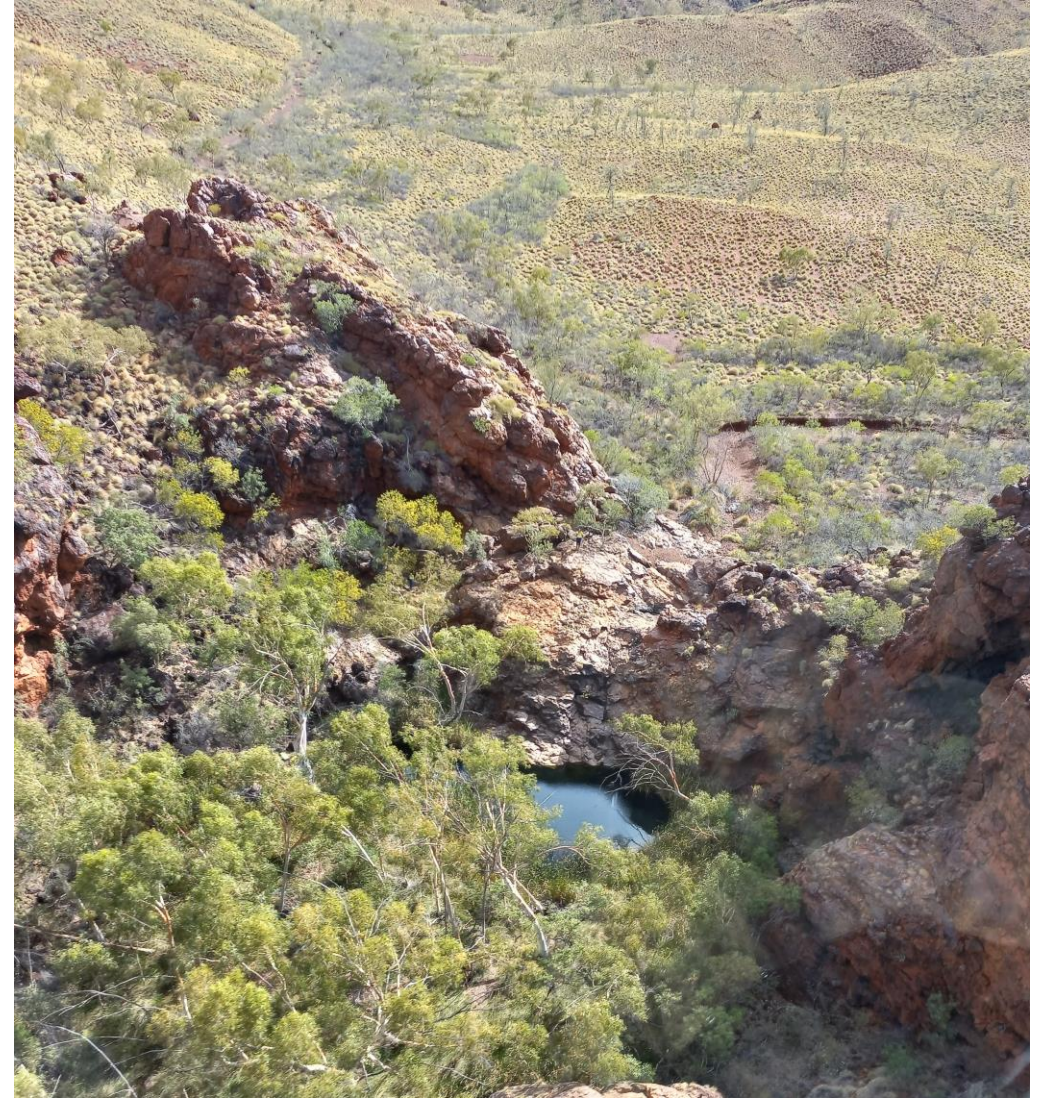
Hydrobiology, in support of the Institute for the Development of Environmental-Economic Accounting (IDEEA Group) and with funding provided by the Department of Agriculture, Water and the Environment provided a geospatial data assessment as part of a large-scale ecosystem accounting accounting project for the Geographe Commonwealth Marine Park. The pilot ocean account for Geographe Marine Park informed management and decision-making within the park and created value by providing a framework to improve outcomes in other Australian marine parks.



CASE STUDY

Cultural and Ecological Risk Assessment and Gaps Analysis

Hydrobiology conducted a gap analysis and risk assessment for cultural and ecological values at a significant perennial water body that is sustained by groundwater over the dry season. The pool has strong heritage values for Traditional Owners of the area as well as ecological values that include an abundant fish population, submerged and emergent macrophytes, fishing birds and other wetland associated fauna. Social value identification and quantifying socio-economic impacts – especially impacts to cultural heritage – is becoming increasingly important.



CASE STUDY

Human Health and Ecological Risk Assessment

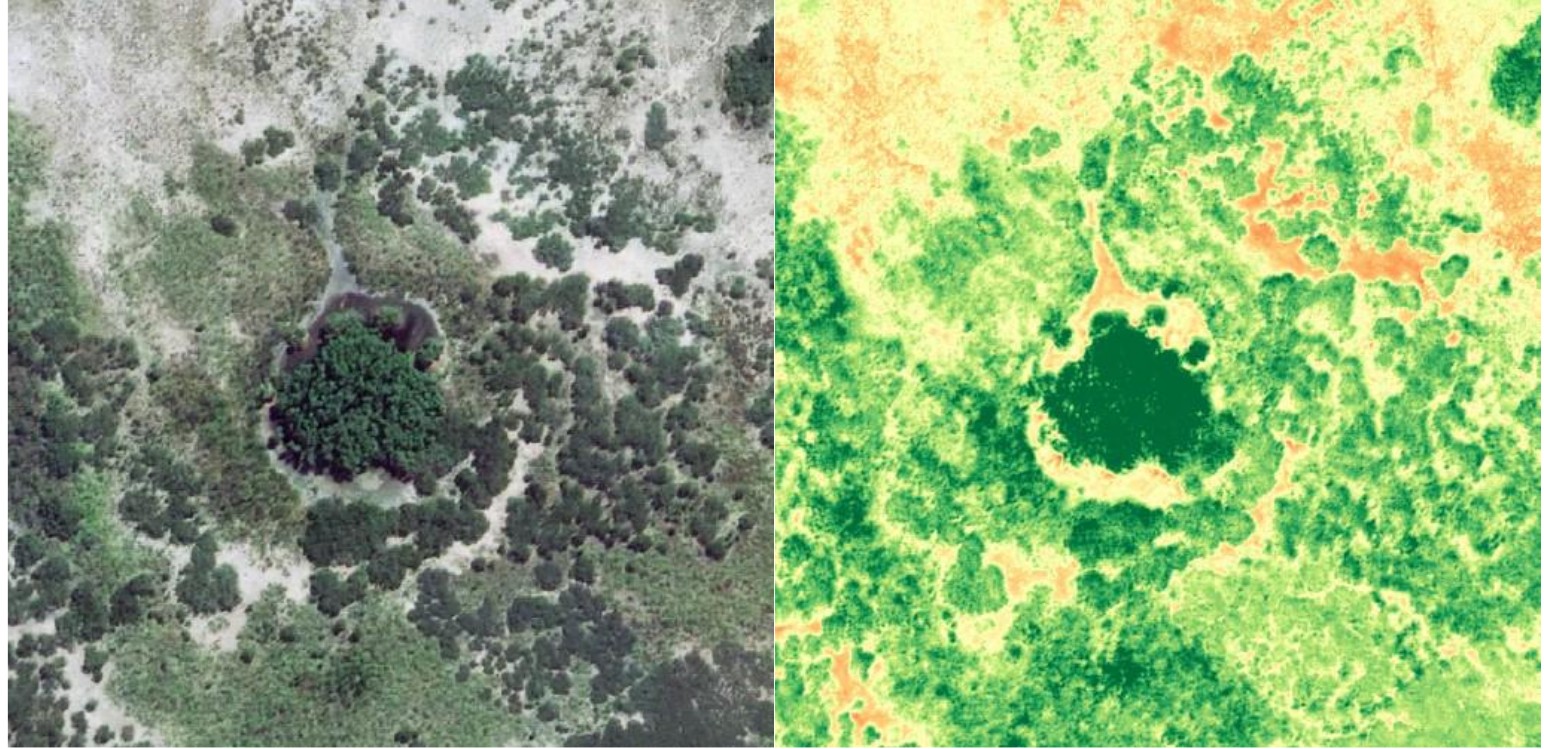
Hydrobiology supported a Human Health and Ecological Risk Assessment, assessing the ecological values present downstream of a Treated Waste Water (TWW) discharge. The project included environmental impact scoping modelling the spatial extent of potential impacts. This project is a key example of where Hydrobiology's extensive and established technical expertise meet our ability to identify and quantify environmental impacts from a socio-economic perspective.



CASE STUDY

Multispectral Drone Analysis – NDVI

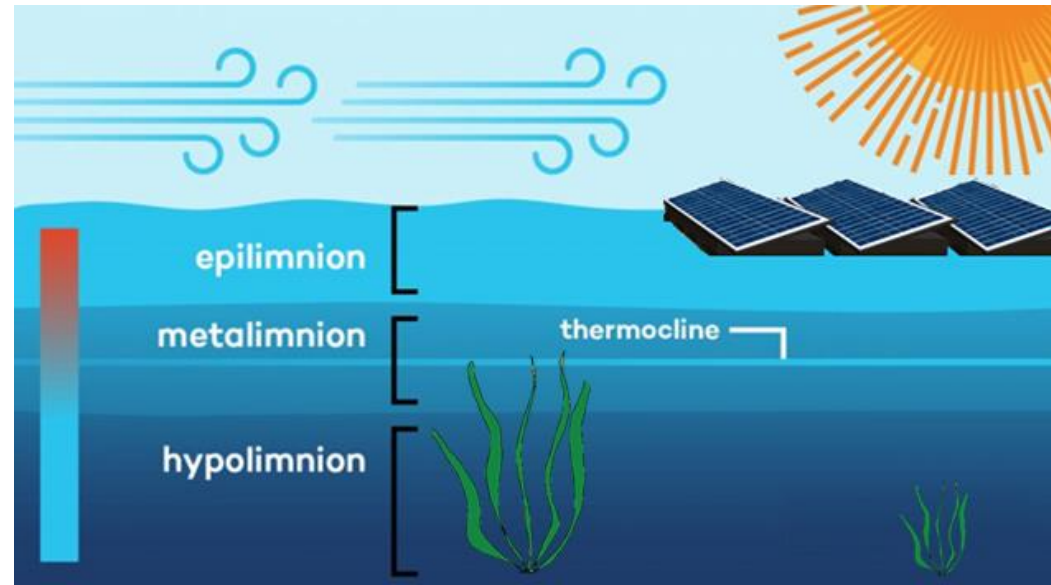
Hydrobiology has extensive project history characterizing habitat and assessing the health of terrestrial flora using remote sensing, including multispectral drone captured NDVI (Normalized Difference Vegetation Index). This method produces quantifiable data that is directly applicable to the SEEA Ecological Accounting process. Furthermore, it is cost effective, repeatable and scientifically robust.



CASE STUDY

International Environmental Safeguards Floating Photovoltaic Study

Hydrobiology undertook baseline surveys, a critical habitat assessment and high-level environmental impact and risk assessment to IFC standards for a pioneering Floating Solar project in Bangladesh on behalf of a major Multilateral Development Bank. The work included primary data collection to high QA/QC standards, and limnological and water quality modelling to inform understanding of how panel coverage may impact lake biophysical processes.



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