



Overwater

Structural Soils provides **nearshore coastal, estuarine and inshore site investigations** for **infrastructure developments** such as **harbours, marinas, jetties** and **pipeline landfalls**.

We are well equipped with overwater plant and equipment to undertake surveys using floating craft and/or static jack-up platforms, depending on the requirements, location, environment and timescale of the proposed investigation.

The capabilities and experience of our overwater team combined with the availability of the wide choice of plant and equipment enable us to meet the technical and logistical demands of the nearshore and inland water industries.



APPLICATIONS

- Studies for offshore and inshore structures
- Calibration of geophysical data
- Offshore laboratory testing
- Geohazard evaluation
- Geological investigations

INVESTIGATION TECHNIQUES

The investigation techniques we have available range from vibrocoring, grab sampling and seabed cone penetration testing for shallow seabed investigations to cable percussion, traditional, wireline rotary and downhole cone penetration testing for projects requiring greater depths of investigation. Our plant enables us to operate in depths of to 25 m while achieving drilling depths in excess of 100 m below the seabed.

All our overwater plant can be operated in conjunction with a GPS for identifying and recording investigative positions during surveys, irrespective of their distance from shore.

ADDITIONAL SERVICES

Structural Soils can also help with every aspect of land-based site investigation and contaminated land studies, as we have experienced PTS-, CSCS- and NVQ-certified drilling crews and qualified engineers who can log samples and interpret test data.

We have a range of equipment suitable for drilling soil, dense gravel and bedrock. Our towed, track-mounted and specialist cut-down rigs can investigate most sites, including restricted access locations. The disturbance of contaminated land can be kept to a minimum and monitoring instrumentation can be installed.



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PLANT

Zee Jack Inspector jack-up system and Steady 400 safety boat



A purpose-built jack-up system, the Zee Jack Inspector provides a stable, elevated environment that supports conventional static drilling and in situ testing in water depths to 25 m. The 10 × 12 × 2-m jack-up platform is fully road demountable for ease of transport and rapid deployment. The jack-up system comes complete with a Steady 400 safety boat and can be fitted with a deck-sited welfare unit.

The jack-up system can also be supplied skippered without drilling equipment for use as a working platform with a 15-t load capacity.

Zee Shrimp inshore boat



Our 120-hp Zee Shrimp safety boat has been designed to be highly transportable. It can be fully equipped as a nearshore/inshore workboat and is an ideal small tug for manoeuvring the Zee Jack Inspector jack-up platform in sheltered waters.

Steady 400



Made from rotational-moulded polyethylene, the Steady 400 has a 1000-kg capacity, will plane at 10 knt while producing very little wake and is extremely manoeuvrable. Its five-person capacity makes this versatile boat ideal for a range of applications, particularly in sensitive environments.

Explorer 1



Our Explorer 1 lightweight aluminium dory is fitted with a 15-cm upstanding moon pool, which makes it ideal for shallow-water sediment sampling.

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