

ROV-triggered Water Sampling System



OSIL have supplied a water sampling system of for use in the offshore oil industry. Industry-standard Niskin bottles are included due to their robustness. OSIL designed a sampling system to secure 6 primed 5L Niskin bottles, with space for an AML Oceanographic CTD Plus V2 in the centre of a stainless steel frame, which could then be mounted to the ROV.

The system was required to retrieve multiple samples, with space for a CTD probe (or similar instrument to collect background data), and had to be fitted to and operated by ROV under difficult conditions. The samples were to be collected at fixed depth, and had to be collected in conjunction with other ROV samples.

This prevented the use of traditional wire water sample collection methods, due to the risk of entanglements.

The system is being used off the coast of Nigeria in the exploration for offshore oil.