

## Lankelma Overwater Project Experience

PROJECT	CLIENT	SCOPE OF WORK	DATE	VALUE
<b>Kamsar Port Development, Guinea</b>	Guinea Alumina Corporation	<p>Marine survey for dredging and piling works in the channel approach, turning basin and location of new jetty. Boreholes up to 50m and CPTs with drill-outs on refusal, vibrocoreing, bathymetric and geophysical survey, metocean survey including ADCP and tidal gauge installation and monitoring, laboratory testing, data correlation and final reporting. Operating platforms: 18m x 12m jack up, local survey craft and multicat.</p> <p><i>Project highlights: Successful completion overcoming major logistical challenges. Maintenance of good client communications and relationship. Management and liaison with a number of subcontractors.</i></p> <p><i>Sector: Mining Infrastructure</i></p>	2014-2015	\$3,500,000
<b>Puente Nigale, Lake Maracaibo, Venezuela</b>	Geohidra	<p>Marine ground investigation in 5-20m water depths providing boreholes to 70m and CPT to 55m below seabed. Investigation techniques include rotary drilling, triple tube core sampling, top push and downhole (Wison APB) cone penetration tests. Operating vessel: 18m x 12m jack up platform.</p> <p><i>Project highlights: Enhanced production rates using Geobor S rotary wireline drilling integrated with Wison APB downhole CPT; dedicated resource management mitigating in country supply chain risk.</i></p> <p><i>Sector: Public Infrastructure</i></p>	2013-2014	\$5,000,000
<b>Libwa Field, Leg Penetration Assessments, Democratic Republic of Congo</b>	Perenco	<p>Multi-stage project investigating existing and proposed Oil and Gas exploration platform locations. Scope comprised boreholes and cone penetration testing to 80m, working off Hercules offshore liftboat (Blue Shark), soil sampling and confirmatory laboratory testing. Leg Penetration Assessment was provided to enable confirmation of suitable platform positioning.</p> <p><i>Project highlights: Rapid mobilisation in response to urgent operational conditions in West Africa; manual transfer and set up of drilling and CPT equipment</i></p> <p><i>Sector: Oil and Gas</i></p>	2013	£2,800,000

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<b>Beckton Outfall, River Thames, London</b>	MVB-JV	<p>Marine ground investigation off spud-legged barge comprising cone penetration techniques for the soil classification and UXO clearance of 500 no. positions to enable sheet piled outfall culvert construction.</p> <p><i><u>Project highlights:</u> Operating in advance of piling construction works and providing clearance certification and advice on additional ground investigation as the work proceeded.</i></p> <p><i><u>Sector:</u> Water</i></p>	2013	£250,000
<b>Dissoni Field, Leg Penetration Assessments, Cameroon</b>	Perenco	<p>Ground investigation to verify existing Oil and Gas exploration platform locations. Scope comprised boreholes and cone penetration testing to 80m, working from jacketed well heads and an existing Hercules exploration platform. Primary investigation technique was CPT, supplemented by core samples of sensitive marine mud at 60m and confirmatory laboratory testing. Leg Penetration Assessment was provided to enable confirmation of suitable platform positioning.</p> <p><i><u>Project highlights:</u> Rapid mobilisation in response to urgent operational conditions and manual transfer and set up of drilling and CPT equipment onboard operational exploration platform.</i></p> <p><i><u>Sector:</u> Oil and Gas</i></p>	2012	£700,000
<b>Cammell Laird Shipyard, Birkenhead, Wirral</b>	Peel Ports	<p>Marine ground investigation in former shipyard basin comprising cable percussion boreholes to 30m and cone penetration testing to 25m. Work was undertaken off spud-legged barge secured by three-point anchoring system.</p> <p><i><u>Project highlights:</u> Novel approach to CPT resulting in the use of floating barge and casing system to compensate for heave.</i></p> <p><i><u>Sector:</u> Ports and Harbours</i></p>	2012	£130,000

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<b>Corrib Field Foreshore, Eire</b>	Shell	<p>Marine ground investigation comprising rotary drilling and top push cone penetration testing for pipeline route landfall locations, associated reporting.</p> <p><i><u>Project highlights:</u> Operating in an environmentally sensitive location with significant local protest groups. Managed activities to ensure minimal disruption to locality.</i></p> <p><i><u>Sector:</u> Oil and Gas</i></p>	2011	€950,000
<b>Hong Kong Zuhai Macau Bridge</b>	CCCC-FHDI Engineering	<p>Provision of specialist seabed cone penetration services using a Roson CPT system deployed from local Chinese vessels. Due to the success of the application, the programme of work was extended to cover a larger geographic area previously assigned to drilling operations.</p> <p><i><u>Project highlights:</u> Achieving 30m deep seabed CPT in Completely Decomposed Granite [CDG] to meet a specification that had previously proven unachievable. Provision of quality audit and training activities to mainland Chinese contractor to a standard that provided the quality assurance necessary for approval by the Hong Kong Government engineering representatives.</i></p> <p><i><u>Sector:</u> Public Infrastructure</i></p>	2011	£330,000