

## THE BRIEF FOR THE MAINTENANCE AND/OR INSTALLATION AND/OR PROVISION OF HYDRODYNAMIC EQUIPMENT

Scheme Title	Northwest Regional Coastal Monitoring Programme
Employer's Address	Ainsdale Discovery Centre, Promenade, Shore Road, Ainsdale-on-Sea, Southport PR8 4DX
Nominated Employer's Representative	Mr Paul Wisse
Survey Title	Maintenance and/or installation and/or provision of hydrodynamic equipment
Purpose of Survey	The hydrodynamic network is used as a part of a long-term programme of coastal monitoring, to analyse coastal processes and provide data for operational and strategic shoreline management
Specification	Regional Coastal Monitoring Programmes Specification for maintenance and/or installation and/or provision of hydrodynamic equipment v1.0
Delivery Schedule	The delivery schedule for assumption of full responsibility for the network of existing instrumentation is 01 April 2016 or within 3 calendar months of award of contract, whichever is the later
Tender Submission Date	See the invitation to tender letter
Contract Completion Date	31 March 2021
Known Hazards	The Employer is unaware of any special hazards other than those normally associated with offshore and onshore instrumentation deployment and maintenance. The Consultant shall carry out a full Risk Assessment before each deployment/maintenance visit and shall prepare a Safe System of Working based on the Assessment. A copy shall be forwarded to the Employer's Representative. The Consultant's attention is drawn to the desirability, among other things, of monitoring weather conditions and of notifying the Coastguard of the deployment/maintenance activities.
Site Conditions/ Restrictions, Access and Public Relations	A letter of introduction will be provided which should be presented as a matter of course, and without it being demanded, at all meetings with landowners or the public

This Brief provides details specific to instrumentation which shall be maintained (including unscheduled maintenance) and/or deployed and/or provided according to the Specification.

## 1. Variations to Specification

The following sections and clauses in the Specification are excluded from this Contract:

N/A

The following clause in the Specification is replaced by:

Clause	Subject	Variation
2.1.3	Licensing and consultations	Applications for MMO licences (formerly known as Food and Environmental Protection Act 1985 [FEPA] licence) for all new deployments at sea will be made by the Consultant. Copies of the application and licences will be provided to the Employer. Copies of existing licences will be provided to the Consultant. All other licences will be the responsibility of the Consultant. Consultation with, and service of notice upon, mariners and other interested parties will be the responsibility of the Consultant.

## 2. Phased assumption of responsibility for continuity of data and of unscheduled maintenance

There will be a phased programme of transfer of responsibility from the Employer's representative to the Consultant during the 3 months prior to the Delivery Schedule. It is crucial that continuity of data is maintained during this period and that any data losses are kept to a minimum. If required, the Employer's representative will be available to accompany the Consultant to a half day's visit to each shore station, to aid the transfer of responsibility.

The Consultant will provide in the method statement a procedure for how the transfer of responsibility will be achieved and a programme for assuming responsibility for all sites by the Delivery Schedule.

## 3. Equipment spares

An extensive stock of spares for the deployed equipment is held by the Employer, as listed in the schedule (Appendix I). The Consultant will be expected to liaise with and co-operate with the Employer's representative in Hampshire to arrange a phased hand-over of the spares. This is to ensure that sufficient spares are available to both the Consultant and the Employer's representative during the 3 month period prior to the Consultant assuming responsibility for the network.

## 4. Existing deployments

The locations listed in [Table 1](#) and shown in [Figure 1](#) have instruments deployed, for which the Consultant will become fully responsible by the Delivery schedule date. Full details of the equipment at each site are given in the Schedule (Appendix 1). The wave buoys are Datawell Directional Waverider Mk III, moored using Datawell's shallow water mooring and use HF radio transmission to shore station. The shore stations will continue to host equipment and all have a phone line and broadband installed. AWAC's have been programmed and processed with Nortek AWAC AST and Storm software respectively. All existing equipment has been maintained according to the

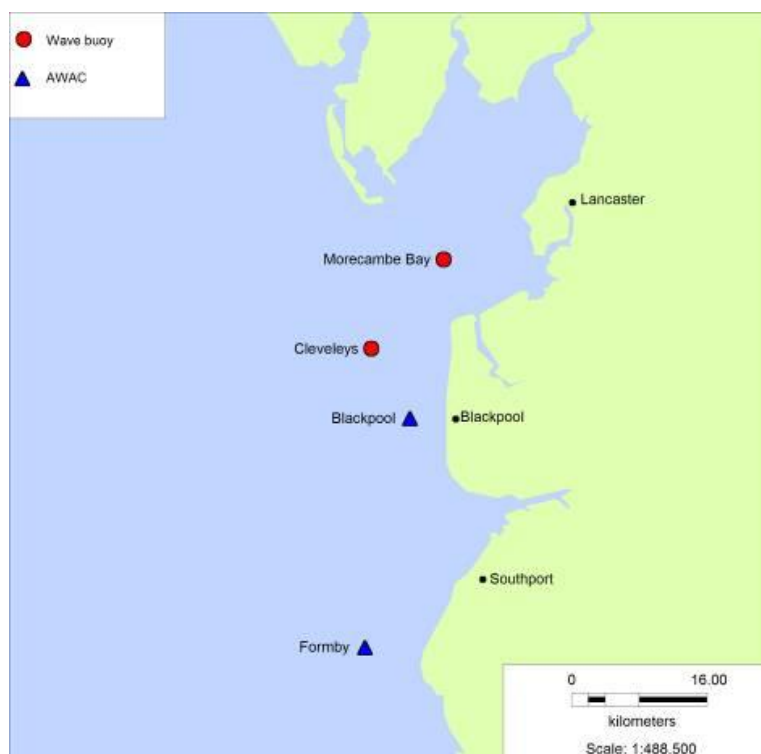
manufacturer's recommendations and in accordance with the Specification. It can be assumed that all deployed equipment will be operational when the Consultant assumes responsibility for it.

Where indicated in Table 1, a display of real-time wave/tide/met/other parameters, customised to the shore station host's requirements, shall be provided and maintained at the shore station.

Where receiving/logging/data transfer systems for the DWR's are integrated with those for other wave/tide/met/ARGUS/other data, any changes to the shore station must maintain the service to the other equipment.

Site name	Approximate Location	Instrument	Approx. service intervals	Comments
Blackpool	53.82039°N 03.12631°W	Nortek 1MHz AWAC's mounted in octagonal bedframe with acoustic transponder-released surface buoys	6 months	
Formby	53.57714°N 03.20709°W		3 months	Shorter service interval due to significant bio-fouling
Morecambe Bay	53.98781°N 03.06637°W	Datawell Directional Waverider Mk III	6 months	Shore station display?
Cleveleys	53.89547°N 03.19623°W			Shore station display?
New Brighton	53.44306°N 03.03463°W			Shore station display?

**Table 1:** Location of existing deployments



**Figure 1:** Location of existing deployments

## 5. New deployments

There are no planned new deployments at present but existing AWAC's may be re-positioned within the region during the course of the contract.

## 6. Instrument/buoy lettering

The wording to be used on a wave buoy or an AWAC is:

0151 934 259  
SCIENTIFIC EQUIPMENT  
North West Coastal Group

On award of contract, however, the telephone number shall be amended to that of the Consultant's 24-hour contact number. The revised telephone number need only be applied to new deployments or following a service visit.

## 7. Additional tasks

There are no additional tasks to be undertaken at present.

## 8. Vessel costs for unscheduled maintenance

Vessel costs for unscheduled maintenance visits are expected to be kept to a minimum, and not to exceed £1,000 per (12 hour) day. Only in exceptional circumstances will the Employer agree to vessel costs exceeding this sum, which must be authorised in advance by the Employer.

## 9. Technical Requirement

Required data shall be delivered within 4 weeks of the activity. Deployment/service reports shall be delivered quarterly.

## APPENDIX I - SCHEDULE OF HYDRODYNAMIC EQUIPMENT

The schedule of deployed and spare equipment is correct at the time of issue of the tender documents.

Equipment	No.	Comments	
Datawell Directional Waverider buoy Mk III	1	<b>Morecambe Bay DWR</b> deployed at: 50° 36.16'N 02° 31.38'W	
Datawell 15m shallow water mooring	1		
Datawell Directional Waverider buoy Mk III	1	<b>Cleveleys DWR</b> , deployed at: 50° 41.60'N 02° 45.00'W	
Datawell 15m shallow water mooring	1		
Datawell HF antenna + cable	1	Located at Cove Café (shore station for Morecambe Bay and Cleveleys DWRs)	
Datawell RX-C	1		
Computer Windows XP, Datawell rfbuoy software	1		
VDU	1		
UPS	1		
Cabinet	1		
BT broadband	1		
BT phone line	1		
Datawell Directional Waverider buoy Mk III	1		<b>New Brighton DWR</b> deployed at: 53° 26.58'N 03° 02.08'W
Datawell 15m shallow water mooring	1		
Datawell HF antenna + cable	1	Located at ?? (shore station)	
Datawell RX-C	1		
Computer Windows XP, Datawell rfbuoy software	1		
VDU	1		
UPS	1		
Cabinet	1		
BT broadband	1		
BT phone line	1		
Nortek AWAC	1	<b>Blackpool AWAC</b> deployed at: 53.820393N 3.126312W	
Octagonal bedframe with gimbal	1		
Acoustic transponder	1		
Rope canister and marker buoys	1	<b>Formby AWAC</b> deployed at 53.577138N 3.207095W	
Nortek AWAC	1		
Octagonal bedframe with gimbal	1		
Acoustic transponder	1		

<b>Equipment</b>	<b>No.</b>	<b>Comments</b>
Rope canister and marker buoys	1	
Acoustic transponder command module	1	Ainsdale Discovery Centre
		Spares held by Employer's Representative in Hampshire