



## NOTICE TO MARINERS - HORNSEA TWO PLANNED GEOTECHNICAL INVESTIGATIONS

Hornsea Project Two – Notice to Mariners May 2016. Issued 18/05/2015 – Update 2

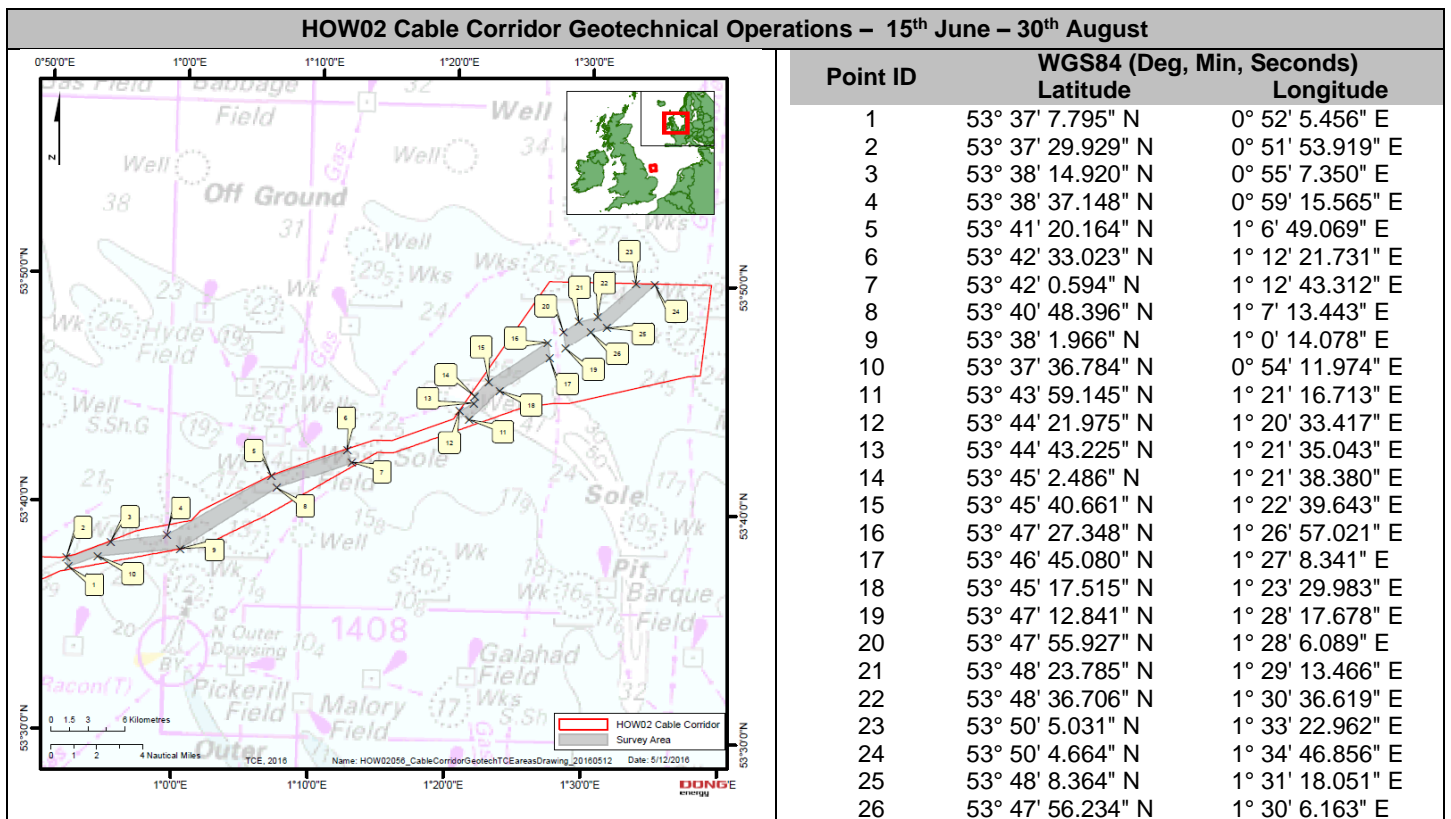
### 1. INTRODUCTION

Mariners are advised that Hornsea Project Two will be carrying out geotechnical investigations within the area of operations as illustrated below. The areas are located within the UK Sector of the North Sea off the coast of East Yorkshire as shown on the attached charts.

The planned geotechnical investigations will include borehole locations with combined sampling & CPT testing up to 60m below the seabed level within the site investigation boundary shown below.

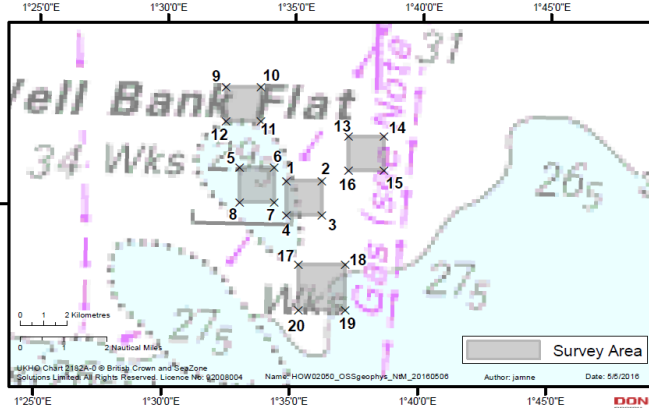
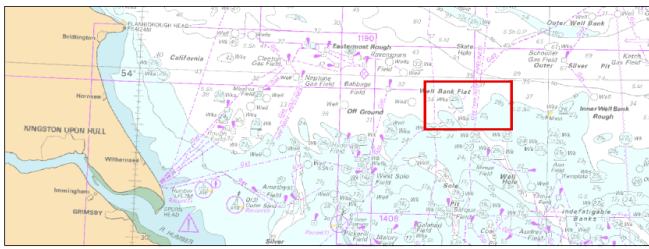
### 2. AREA OF OPERATIONS

Activities will centre on Hornsea Project Two wind farm. The following points define the extent of the survey area in which the investigations will be conducted.



Prepared Marc Browne (MBROW), 10 May 2016  
 Accepted Eleftheria Melekou (ELEM) 17 May 2016  
 Approved Roland Gottfredsen (ROLGO) 17 May 2016

Doc. no. 2447711  
 Case no. 200-12-0456

**HOW02 Geotechnical Survey Area Windfarm – 15<sup>th</sup> June– 30<sup>th</sup> August**


Point ID	WGS84 (Deg, Min, Seconds)	
	Latitude	Longitude
1	53° 55' 40.760" N	1° 34' 44.886" E
2	53° 55' 41.725" N	1° 36' 7.100" E
3	53° 54' 53.204" N	1° 36' 8.721" E
4	53° 54' 52.239" N	1° 34' 46.533" E
5	53° 55' 57.954" N	1° 32' 53.497" E
6	53° 55' 58.941" N	1° 34' 15.719" E
7	53° 55' 10.420" N	1° 34' 17.376" E
8	53° 55' 9.435" N	1° 32' 55.181" E
9	53° 57' 52.955" N	1° 32' 18.063" E
10	53° 57' 53.948" N	1° 33' 40.348" E
11	53° 57' 5.429" N	1° 33' 42.019" E
12	53° 57' 4.436" N	1° 32' 19.760" E
13	53° 56' 45.726" N	1° 37' 8.574" E
14	53° 56' 46.664" N	1° 38' 30.825" E
15	53° 55' 58.142" N	1° 38' 32.401" E
16	53° 55' 57.205" N	1° 37' 10.177" E
17	53° 53' 41.987" N	1° 35' 16.716" E
18	53° 53' 43.261" N	1° 37' 6.249" E
19	53° 52' 38.566" N	1° 37' 8.382" E
20	53° 52' 37.292" N	1° 35' 18.896" E

### 3. SURVEY

#### 3.1 Geotechnical Investigations

Please be advised that Project Two are giving notice of planned geotechnical investigations within the survey boundaries previously described.

The geotechnical operations will commence on the **15<sup>th</sup> June** and run for approximately **8 weeks**. The exact finish date is dependent on the prevailing weather conditions, vessel downtime and work progress, but the forecasted completion date as of the publication date of this notice is the **end of August**.

The geotechnical vessels will be deploying seabed drilling and testing equipment. This will require them to be in DP and remain stationary for periods of approximately 2 hours at a time and will restrict their ability to manoeuvre. It will be requested that all vessels operating within the area keep a safe distance (500m) and pass at minimum speed to reduce vessel wash.

Geotechnical operations will be conducted on a 24 hour basis. Throughout survey operations the vessel will be displaying the shapes and lights prescribed in the International Rules for the Prevention of Collisions at Sea (COLREGS) Rule 27, to indicate that the survey vessel is restricted in its ability to manoeuvre.

### 4. SAFETY

All static fishing gear is requested to be moved out with the boundary as illustrated on the attached charts noting the timescales for clearance. Furthermore, it is requested that anybody having knowledge of any potential objects submerged or moored on the seabed, within the survey area, that could be damaged or form a hazard to the survey vessel and its equipment advises the Projects Fishing Industry Liaison of their position and nature. When surveys commence a listening watch will be maintained on VHF Channel 12 and 16 when within the appropriate port authority area, and will actively transmit an AIS signal. The survey vessels will also broadcast at regular daily intervals, vessel position, operational information and intentions.

### 5. IMMEDIATE CONTACTS

The contents of this notice are based upon our current understanding of Project Two requirements. A further update notice will be issued as the works progress.

Enquiries regarding the contents of this Notice to Mariners or any other matters should be directed to:

<b>Geotechnical Investigations – Horizon Geoscience</b>		
<b>Project Manager</b>	<b>John Cudden</b>	
Tel: +44 (0) 117 329 1080	Mob: +44 (0) 7825 885 334	E-mail: <a href="mailto:j.cudden@horizon-geosciences.com">j.cudden@horizon-geosciences.com</a>
<b>Operations Manager</b>	<b>Steve Horsewell</b>	
Tel: +44 (0) 117 329 1080	Mob: +44 (0) 7717 017 086	E-mail: <a href="mailto:s.horsewell@horizon-geosciences.com">s.horsewell@horizon-geosciences.com</a>
<b>Vessel Manager</b>	<b>Asif Waraich</b>	
Tel: +971 564016538	Mob: +971 6 552 9901	E-mail: <a href="mailto:a.waraich@southeastmarine.ae">a.waraich@southeastmarine.ae</a>

## 6. FISHERIES LIAISON

Project Onshore Fisheries Liaison is provide for by Nick Garside and Courtney French and can be contacted on:

Mob: +44 (0) 7538 827 013      Email: [nick.garside@live.co.uk](mailto:nick.garside@live.co.uk)  
 Mob: +44 (0) 7702710178      Email: [courtney@brownmay.com](mailto:courtney@brownmay.com)

### 6.1 Project Specific Contacts

In the event the FLO is not contactable please direct fisheries enquiries related to the survey works to the DONG Site Investigation Manager:

**Site Investigation Manager Roland Gotfredsen**

Tel: +45 99 55 63 91      E-mail: [ROLGO@dongenergy.dk](mailto:ROLGO@dongenergy.dk)

## 7. SURVEY VESSELS

Survey operations will be conducted by the survey vessel **MV GEOBAY HORIZON** – whose details are provide below. Contact can be made directly with the vessels using the contact details listed below. Client and contractor contact details are provided in Section 4 of this NTM.

<b>Vessel Contact Details (MV GEOBAY HORIZON)</b>	
<b>Bridge</b>	+852 3152 1339
<b>Inmarsat Bridge</b>	+852 3152 1336
<b>V-Sat Bridge</b>	+870 7732 36478
<b>Party Chief</b>	+852 3152 1337
<b>Email</b>	<a href="mailto:opm.geobay@horizon-geosciences.com">opm.geobay@horizon-geosciences.com</a>

<b>General Information (MV GEOBAY HORIZON)</b>	
<b>Name</b>	MV GEOBAY HORIZON
<b>Flag</b>	Panama
<b>Year Built</b>	1978
<b>IMO Number</b>	7801556
<b>Call Sign</b>	3ETG2
<b>Class</b>	ABS A1, HELIDK, AMS, ACCU, DPS-2



<b>Dimensions</b>	
<b>Length</b>	79.06 m
<b>Beam</b>	15.60 m
<b>Draught</b>	7.50 m
<b>Gross Tonnage</b>	3502 tonnes

## 8. DISTRIBUTION LIST

This NTM will also be distributed to the relevant local MMO offices, local IFCA's NFFO, Rederscentrale, HFIG, Danish Fishermen's Association, EEFPo and VisNed.

ABP Ports	<a href="mailto:cjefferson@abports.co.uk">cjefferson@abports.co.uk</a> ;
ABP Ports	<a href="mailto:afirman@abports.co.uk">afirman@abports.co.uk</a> ;
BP	<a href="mailto:lynda.harpley@uk.bp.com">lynda.harpley@uk.bp.com</a> ;
BP	<a href="mailto:fiona.williamson@uk.bp.com">fiona.williamson@uk.bp.com</a> ;
CEFAS	<a href="mailto:jon.rees@cefass.co.uk">jon.rees@cefass.co.uk</a> ;
Centrica	<a href="mailto:Jurgen.joosten@centrica.com">Jurgen.joosten@centrica.com</a> ;
Conoco Phillips	<a href="mailto:Susan.Mpaulo@conocophillips.com">Susan.Mpaulo@conocophillips.com</a> ;
DECC	<a href="mailto:correspondence@decc.gsi.gov.uk">correspondence@decc.gsi.gov.uk</a> ;
DEFRA (Eastern Fisheries Inspectorate Lowestoft)	<a href="mailto:lowestoft@mfa.gsi.gov.uk">lowestoft@mfa.gsi.gov.uk</a> ;
DFDS	<a href="mailto:roy.kersey@dfds.com">roy.kersey@dfds.com</a> ;
DFDS	<a href="mailto:richard.berglarsen@dfds.com">richard.berglarsen@dfds.com</a> ;
Eastern IFCA	<a href="mailto:mail@eastern-ifca.gcsx.gov.uk">mail@eastern-ifca.gcsx.gov.uk</a> ;
East Port Uk	<a href="mailto:harbouroffice@eastportuk.co.uk">harbouroffice@eastportuk.co.uk</a> ;
East Riding Council	<a href="mailto:david.mccandless@eastriding.gov.uk">david.mccandless@eastriding.gov.uk</a> ;
HOW01 - Fisheries Liaison Officer (Onshore)	<a href="mailto:nick.garside@live.co.uk">nick.garside@live.co.uk</a> ;
HOW02	<a href="mailto:SATHO@dongenergy.co.uk">SATHO@dongenergy.co.uk</a> ;
HOW03	<a href="mailto:JULCA@dongenergy.co.uk">JULCA@dongenergy.co.uk</a>
Ineos	<a href="mailto:Rachael.o'sullivan@ineos.com">Rachael.o'sullivan@ineos.com</a> ; <a href="mailto:stephen.smith@ineos.com">stephen.smith@ineos.com</a> ;
Kingfisher Information Services	<a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a> ;
Kings Lynn Port Authority	<a href="mailto:harbourmaster@portauthoritykingslynn.fsnet.co.uk">harbourmaster@portauthoritykingslynn.fsnet.co.uk</a> ;
Lowestoft Port Authority	<a href="mailto:GHorton@abports.co.uk">GHorton@abports.co.uk</a>
MCA	<a href="mailto:paul.townsend@mcga.gov.uk">paul.townsend@mcga.gov.uk</a> ;
MCA (Navigation Safety)	<a href="mailto:navigationsafety@mcga.gov.uk">navigationsafety@mcga.gov.uk</a> ;
MCA Offshore Renewable Energy Advisor	<a href="mailto:nick.salter@mcga.gov.uk">nick.salter@mcga.gov.uk</a> ;
MCA Yarmouth	<a href="mailto:Wm.yarmouth@mcga.gov.uk">Wm.yarmouth@mcga.gov.uk</a> ;
MCA (Humber Maritime Rescue Sub-Centre)	<a href="mailto:wm.humber@mcga.gov.uk">wm.humber@mcga.gov.uk</a> ;
Marine Management Organisation	<a href="mailto:Lisa.Southwood@marinemanagement.org.uk">Lisa.Southwood@marinemanagement.org.uk</a> ;
Marine Management Organisation	<a href="mailto:marine.consents@marinemanagement.org.uk">marine.consents@marinemanagement.org.uk</a> ;
Marine Management Organisation (Grimsby)	<a href="mailto:grimsby@marinemanagement.org.uk">grimsby@marinemanagement.org.uk</a> ;
Marine Management Organisation (Harwich)	<a href="mailto:harwich@marinemanagement.org.uk">harwich@marinemanagement.org.uk</a> ;
Marine Management Organisation (North Shields)	<a href="mailto:northshields@marinemanagement.org.uk">northshields@marinemanagement.org.uk</a> ;
National Federation of Fishermen's Organisations	<a href="mailto:nffo@nffo.org.uk">nffo@nffo.org.uk</a> ;
National Grid	<a href="mailto:Daniel.James@nationalgrid.com">Daniel.James@nationalgrid.com</a> ;
North Eastern IFCA	<a href="mailto:ne-ifca@eastriding.gov.uk">ne-ifca@eastriding.gov.uk</a> ;
North IFCA	<a href="mailto:nifca@nifca.gov.uk">nifca@nifca.gov.uk</a> ;
Perenco	<a href="mailto:asanders@uk.perenco.com">asanders@uk.perenco.com</a> ;
Port of Boston	<a href="mailto:rwalker@portofboston.co.uk">rwalker@portofboston.co.uk</a> ;
P&O Ferries	<a href="mailto:grant.laversuch@poferries.com">grant.laversuch@poferries.com</a> ;
Premier Oil	<a href="mailto:mstockwell@premier-oil.com">mstockwell@premier-oil.com</a> ;
RNLI (Flamborough Lifeboat)	<a href="mailto:flamborough@rnli.org.uk">flamborough@rnli.org.uk</a> ;
RNLI (Skegness Lifeboat Station)	<a href="mailto:Skegness@rnli.org.uk">Skegness@rnli.org.uk</a> ;
RNLI (Scarborough Lifeboat)	<a href="mailto:scarborough@rnli.org.uk">scarborough@rnli.org.uk</a> ;
RNLI (Spurn Head)	<a href="mailto:humber@rnli.org.uk">humber@rnli.org.uk</a> ;
RNLI (Whitby Lifeboat)	<a href="mailto:whitby@rnli.org.uk">whitby@rnli.org.uk</a> ; <a href="mailto:coxswain@wellslifeboat.org">coxswain@wellslifeboat.org</a> ;
Shell	<a href="mailto:UKDCC-Supervisor@shell.com">UKDCC-Supervisor@shell.com</a> ; <a href="mailto:sandy.smith@shell.com">sandy.smith@shell.com</a> ;
Specialist Marine Services	<a href="mailto:simonp@smchse.com">simonp@smchse.com</a> ;
Trinity House Navigation	<a href="mailto:Navigation.directorate@thls.org">Navigation.directorate@thls.org</a> ;
Tullow Oil	<a href="mailto:Andy.Edgar@tulloil.com">Andy.Edgar@tulloil.com</a> ;
UKHO (HDC Files)	<a href="mailto:hdcfiles@ukho.gov.uk">hdcfiles@ukho.gov.uk</a> ;
UKHO (NTMs)	<a href="mailto:noticetomariners@ukho.gov.uk">noticetomariners@ukho.gov.uk</a> ;
UKHO (Navigational Warnings)	<a href="mailto:Navwarnings@btconnect.com">Navwarnings@btconnect.com</a> ;
Wells Harbour	<a href="mailto:harbouroffice@wellsharbour.co.uk">harbouroffice@wellsharbour.co.uk</a> ;