

Vendor Coversheet

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1. Introduction

RWE Renewables has contracted Fugro GB Marine Limited (Fugro) to carry out a geophysical, environmental and geotechnical site investigation in the North Sea for the proposed Dogger Bank South Offshore Wind Farm (DBS) array site and export cable routes.

The Dogger Bank South Offshore Wind Farms array site is located 70 Nm East of Flamborough Head on the southern edge of Dogger Bank, with export cable route options extending to a beach landing in the vicinity of Bridlington.

The maximum extent of survey operations is presented in Figure 1.1.

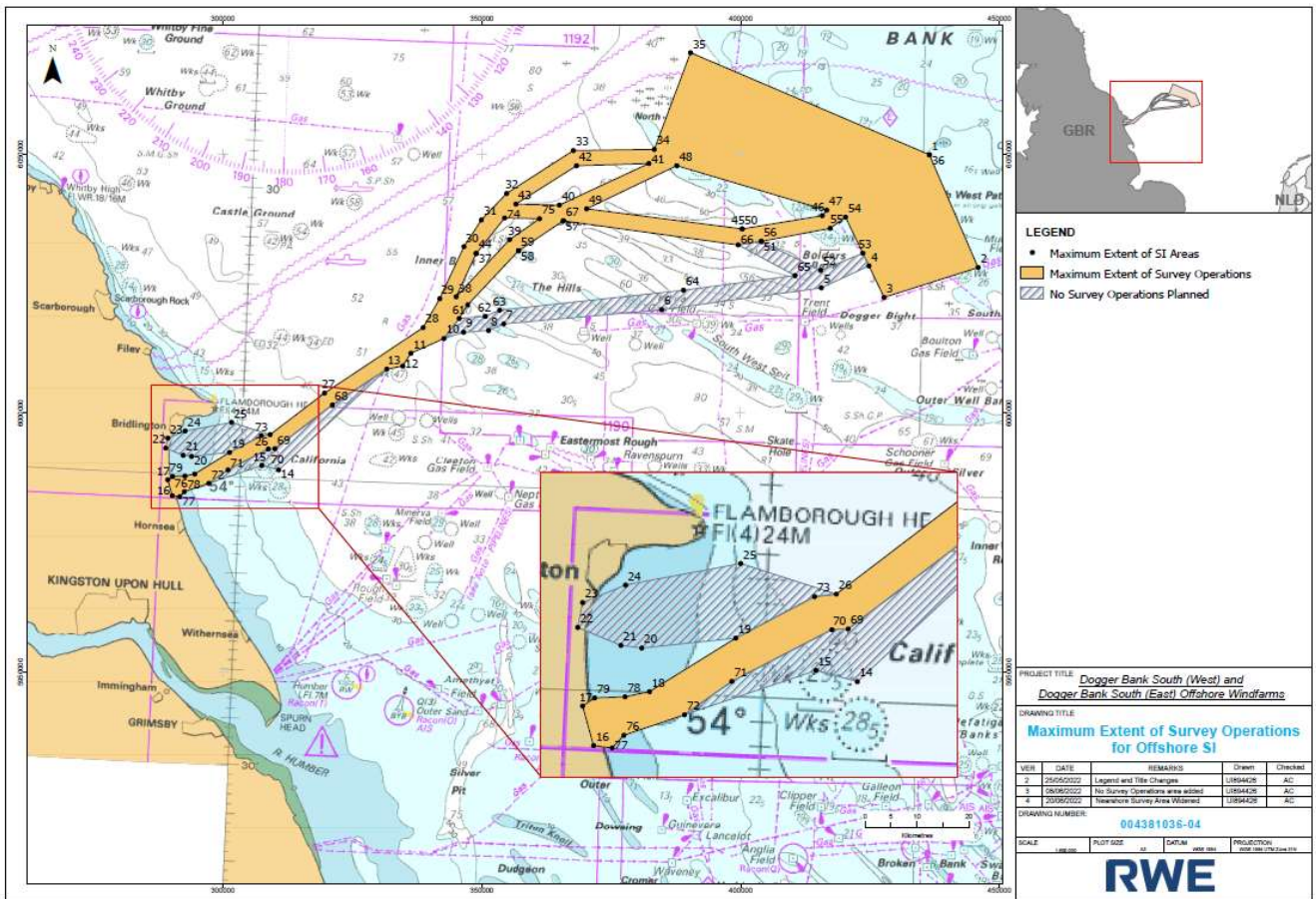


Figure 1.1 Dogger Bank South maximum extent of survey operations

2. Area of Operations

The coordinates of the maximum survey area are provided below and remain unchanged from the Rev 7 NtM.

Table 2.1: Survey Area Buffer Zone Coordinates (WGS84 UTM Zone 31N)

Label	Easting	Northing	Lat_DDM (WGS84)	Long_DDM (WGS84)
1	436466.3	6049826.4	54° 35.515' N	2° 01.004' E
2	445872.3	6028080.1	54° 23.856' N	2° 09.976' E
3	427716.1	6022312.9	54° 20.611' N	1° 53.284' E
4	424790.2	6028391.0	54° 23.863' N	1° 50.492' E
10	342710.8	6014387.0	54° 15.194' N	0° 35.133' E
11	336333.4	6011551.6	54° 13.546' N	0° 29.358' E
12	334754.6	6009075.8	54° 12.182' N	0° 27.988' E
13	331668.6	6008477.2	54° 11.799' N	0° 25.173' E
16	290222.5	5984062.0	53° 57.737' N	0° 11.875' W
17	289367.6	5987146.6	53° 59.377' N	0° 12.783' W
18	294581.8	5988258.7	54° 0.102' N	0° 08.064' W
19	301302.5	5992425.5	54° 2.504' N	0° 02.084' W
26	309139.6	5995847.9	54° 4.524' N	0° 04.958' E
27	319637.9	6003848.5	54° 9.061' N	0° 14.287' E
28	338688.0	6016482.4	54° 16.247' N	0° 31.364' E
29	341910.2	6022078.7	54° 19.323' N	0° 34.152' E
30	346580.0	6032103.0	54° 24.809' N	0° 38.147' E
31	349950.7	6037264.2	54° 27.650' N	0° 41.103' E
32	354825.0	6042350.0	54° 30.476' N	0° 45.462' E
33	367710.9	6050625.7	54° 35.147' N	0° 57.171' E
34	383333.6	6050856.9	54° 35.502' N	1° 11.663' E
35	390328.6	6069499.6	54° 45.644' N	1° 17.735' E
36	436466.3	6049826.4	54° 35.515' N	2° 01.004' E
37	348938.2	6030779.6	54° 24.139' N	0° 40.365' E
38	345066.9	6022427.5	54° 19.569' N	0° 37.051' E
39	355393.8	6033467.3	54° 25.699' N	0° 46.249' E
40	365009.4	6040116.6	54° 29.441' N	0° 54.954' E
41	382295.1	6048143.3	54° 34.025' N	1° 10.764' E
42	368327.5	6047700.9	54° 33.580' N	0° 57.822' E
43	356596.8	6040287.8	54° 29.395' N	0° 47.162' E
44	348938.2	6030779.6	54° 24.139' N	0° 40.365' E
45	400312.5	6035520.8	54° 27.454' N	1° 27.734' E
46	415773.2	6038079.3	54° 29.001' N	1° 41.995' E

47	416647.4	6039136.4	54° 29.579' N	1° 42.787' E
48	387675.7	6047721.9	54° 33.872' N	1° 15.765' E
49	370266.2	6039403.0	54° 29.139' N	0° 59.839' E
50	400312.5	6035520.8	54° 27.454' N	1° 27.734' E
53	423616.6	6030828.9	54° 25.167' N	1° 49.370' E
54	420267.9	6037785.2	54° 28.886' N	1° 46.162' E
55	417312.1	6035632.1	54° 27.697' N	1° 43.461' E
56	404017.4	6033127.6	54° 26.206' N	1° 31.208' E
57	365777.7	6037090.9	54° 27.823' N	0° 55.748' E
58	357133.3	6031317.1	54° 24.570' N	0° 47.919' E
59	357130.0	6031314.9	54° 24.569' N	0° 47.916' E
60	347304.7	6020865.3	54° 18.768' N	0° 39.162' E
61	345674.2	6018249.9	54° 17.329' N	0° 37.740' E
66	399533.7	6032438.6	54° 25.783' N	1° 27.076' E
67	365777.7	6037090.9	54° 27.823' N	0° 55.748' E
68	321164.9	6001554.6	54° 7.857' N	0° 15.770' E
69	310058.6	5993127.0	54° 3.079' N	0° 05.902' E
70	308794.1	5993074.4	54° 3.023' N	0° 04.747' E
71	301001.6	5989055.5	54° 0.682' N	0° 02.227' W
72	297303.9	5986452.3	53° 59.194' N	0° 05.504' W
73	307443.4	5995651.2	54° 4.381' N	0° 03.412' E
74	354439.7	6037631.2	54° 27.927' N	0° 45.244' E
75	361186.4	6037493.8	54° 27.966' N	0° 51.489' E
76	292582.9	5984859.5	53° 58.2239' N	0° 09.752' W
77	291675.4	5983875.8	53° 57.6723' N	0° 10.540' W
78	292678.3	5987857.0	53° 59.8402' N	0° 09.787' W
79	290301.9	5987772.2	53° 59.7370' N	0° 11.955' W

Coordinates are in WGS84 and UTM 31 (DDM)

Figure 2.1 Maximum extent of survey operations (Offshore)

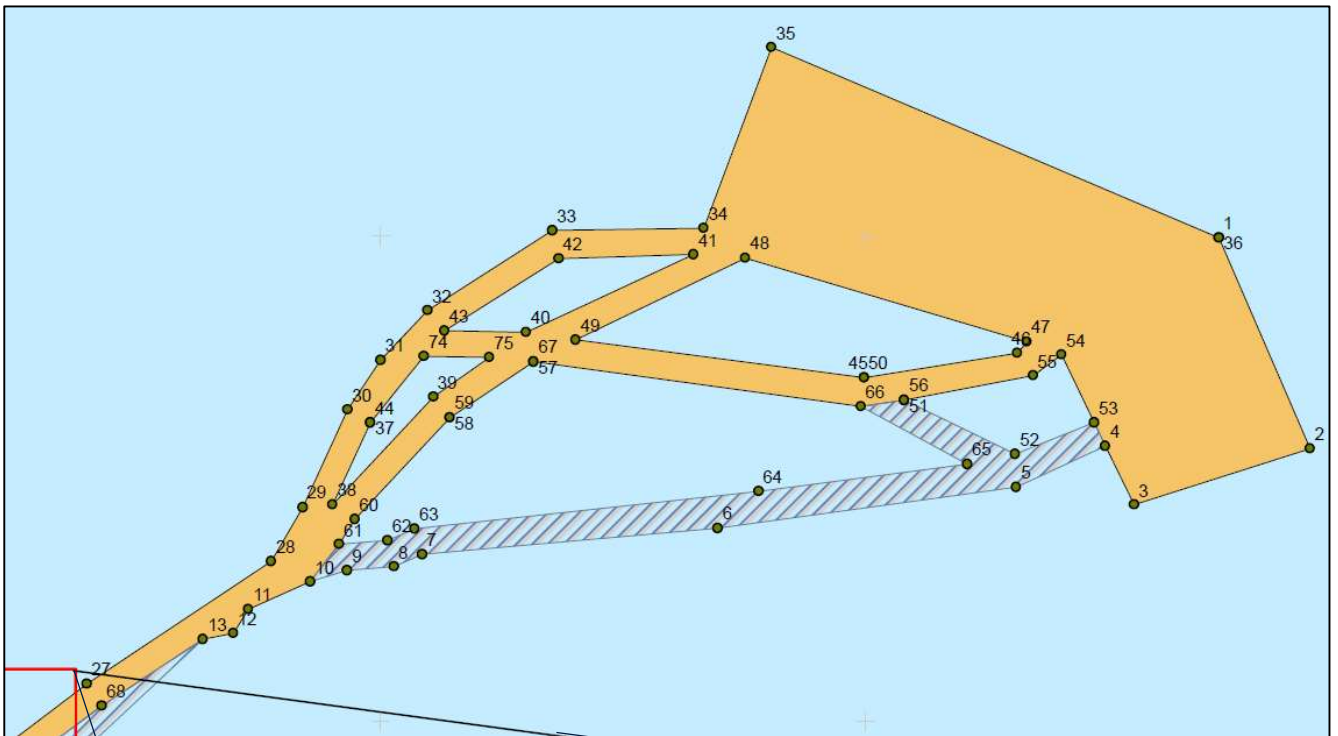
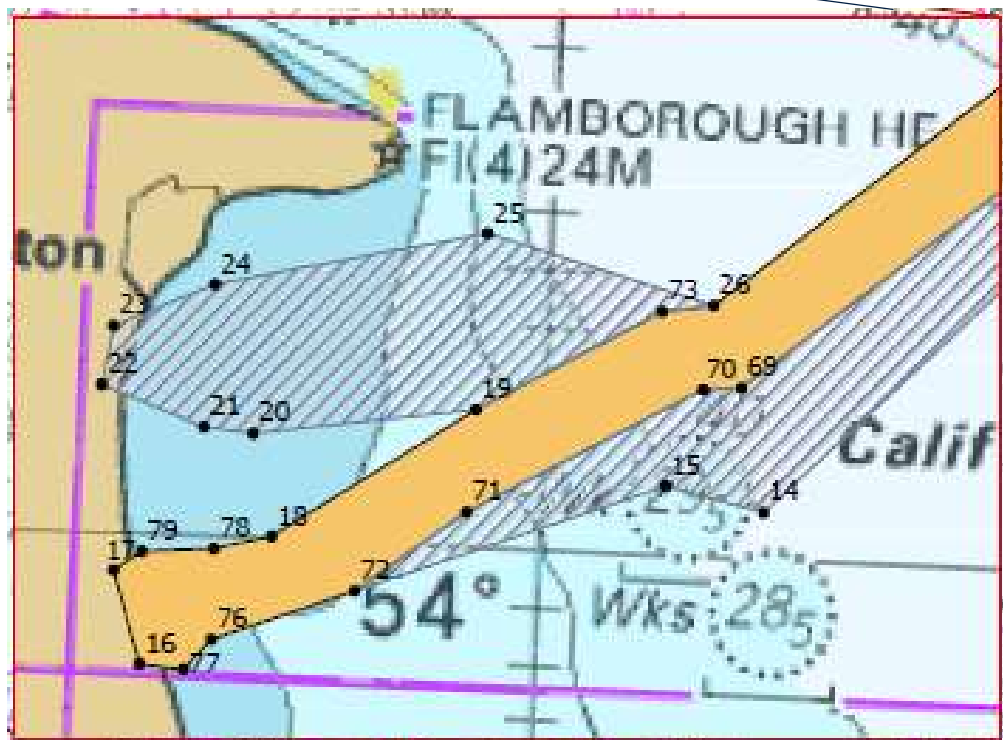


Figure 2.2 Maximum extent of survey operations (Nearshore)



3. Offshore Geophysical Investigation

The geophysical survey operations on the Dogger Bank South array site continues with the Fugro Frontier until approximately the 31st October 2022.

The Fugro Searcher is expected to conduct operations on the Dogger Bank South Array site from the 4th August until approximately the 10th September 2022.

The geophysical survey operations on the Export Cable Routes continue with the Valkyrie until approximately the 3rd August 2022 (Nearshore to 15m water depth). The Fugro Discovery has now completed operations and demobilised from site.

Please note that the exact start and finish dates will be dependent on the prevailing weather conditions and work progress.

Important Information

As the Fugro Frontier and Fugro Searcher operating in the array will be towing survey equipment the vessels will require large turning circles and will be restricted in her ability to manoeuvre. All vessels operating within the array area are requested to keep their distance, maintaining at least a 1,000m exclusion zone around the survey vessel, and pass at minimum speed to reduce vessel wash.

The Valkyrie operating on the export cable routes will be towing survey equipment and request that passing vessels maintain a 500m exclusion zone around the survey vessel and pass at minimum speed to reduce vessel wash.

A continuous listening watch will be conducted on VHF Channel 16 by all survey vessels.

Offshore survey operations will be conducted on a 24-hour basis.

Nearshore survey operations (Valkyrie) will be conducted on a 12-hour (Daylight) basis.

4. Offshore Environmental Investigation

The DSV Curtis Marshall is expected to be joining the project to conduct a benthic subtidal survey within the array areas and export cable corridor routes commencing between 1st August and 30th August.

Please note that the exact start and finish dates will be dependent on the prevailing weather conditions and work progress.

Important Information

The DSV Curtis Marshall, operating within both the array and export cable routes, will be acquiring seabed samples, during operations manoeuvrability will be limited.

The Curtis Marshall will also be conducting research seabed trawling with towed equipment and seabed imagery with a towed camera. All vessels operating within the vicinity of the DSV Curtis Marshall are requested to keep their distance, maintaining at least a 500m exclusion zone around the survey vessel, and pass at minimum speed to reduce vessel wash.

A continuous listening watch will be conducted on VHF Channel 16 by all survey vessels.

Offshore survey operations will be conducted on a 24-hour basis.

5. Offshore Geotechnical Investigation

The geotechnical survey operations on the Dogger Bank South array sites are expected to be carried out by the Fugro Scout and the Normand Mermaid starting around 8th August 2022, with operations continuing for a period of approximately two weeks

Please note that the exact start and finish dates will be dependent on the prevailing weather conditions and work progress.


Important Information

As the Fugro Scout and Normand Mermaid will be conducting drilling operations using a dynamic positioning system, it is requested that all vessels operating within this area keep their distance, maintaining at least a 500m exclusion zone, and pass at minimum speed to reduce vessel wash.

A continuous listening watch will be conducted on VHF Channel 16 by all survey vessels.


Operations will be conducted on a 24-hour basis.

Table 5.1: Fugro Frontier

	General Information	
	Name	Fugro Frontier
	Flag	Bahamas
	MMSI	311000263
	IMO	9723667
	Call Sign	C6BH4
	Length	54m
	Gross Tonnage	1308
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+31 10 7130 936
	Vessel Master Email:	captain@fro.fugro.com
	Vessel Party Chief Email:	pc@fro.fugro.com

Alistair Leighton – Vessel Project Manager**Mob:** +31 643 249 064, **Email:** a.leighton@fugro.com

Table 5.2: Fugro Searcher

	General Information	
	Name	Fugro Searcher
	Flag	Bahamas
	MMSI	311000904
	IMO	9504011
	Call Sign	C6E15
	Length	65m
	Gross Tonnage	1940
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+44 1224 051616
	Vessel Master Email:	captain@sea.fugro.com
	Vessel Party Chief Email:	pc@sea.fugro.com

Ali MacAskill – Vessel Project Manager**Mob:** +44 (0)1224 257579, **Email:** a.macaskill@fugro.com

Table 5.3: Valkyrie

General Information	
Name	Valkyrie
Flag	Bahamas
MMSI	235069806
Call Sign	2BWA9
Length	12m
Beam	5m
Draught	1.1m
Gross Tonnage	19
Communication	(VHF Channel 16)
Vessel Email:	Master.valkyrie@fugro.com Partychief.valkyrie@fugro.com

**Andrew Eastmond – Vessel Project Manager****Mob:** +44, **Email:** a.eastmond@fugro.com

Table 5.4: DSV Curtis Marshall

General Information	
Name	DSV Curtis Marshall
Flag	United Kingdom
MMSI	235107219
Call Sign	2HWN3
Length	27m
Beam	8m
Draught	2.8m
Gross Tonnage	184
Communication	(VHF Channel 16)

**Seamus Whyte – Vessel Project Manager****Mob:** +44 (0) 2392 205 500, **Email:** sg.whyte@fugro.com


Table 5.5: Fugro Scout

	General Information	
	Name	Fugro Scout
	Flag	Singapore
	MMSI	566948000
	IMO	9600372
	Call Sign	9V3887
	Length	75.3
	Gross Tonnage	4641
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+881 6 771 12 418
	Vessel Master Email:	captain@sco.fugro.com
	Vessel Party Chief Email:	pc@sco.fugro.com

Marscha de Bruijn – Vessel Project Manager

Mob: +31 618 750 691, **Email:** marscha.debruijn@fugro.com

Table 5.6: Normand Mermaid

	General Information	
	Name	Normand Mermaid
	Flag	NIS
	MMSI	258612000
	IMO	9249348
	Call Sign	LAXH7
	Length	90.1
	Gross Tonnage	5528
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+47 52 85 60 87 (Master) +47 52 85 60 06 (Bridge VSAT)
	Vessel Master Email:	master@mermaid.solstad.com
Vessel Party Chief Email:	pc.normandmermaid@fugro.com	

Anara van der Salm – Vessel Project Manager

Mob: +31 628 522 172, **Email:** A.vandersalm@fugro.com

6. Immediate Contacts

The contents of this notice are based upon our current site investigation programme and upon Fugro's planning at the time of submission. It should be noted that Fugro will endeavour to update this notice as required.

Enquiries regarding the contents of this Notice to Mariners, should be directed to Fugro (survey contractor).

Enquiries relating to the geophysical and / or environmental investigation should be sent to:

Daniel Ferguson – Project Manager

Mob: +44 (0) 7968 845551, **Email:** d.ferguson@fugro.com

Guy Jamieson – Project Delivery Manager

Mob: +44 (0) 7771 908 323, **Email:** g.jamieson@fugro.com

Enquiries relating to the geotechnical investigation should be sent to:

Suraiya Laloo – Project Manager

Mob: ++44 7442 931 538, **Email:** s.laloo@fugro.com

Andy Fleetwood – Project Delivery Manager

Mob: +44 7392 263094, **Email:** a.fleetwood@fugro.com

7. Fisheries

For enquiries related to Fishing, please contact the dedicated Fisheries Liaison Officer for the Dogger Bank South Offshore Wind Farm:

Nigel Proctor - Fisheries Liaison Officer (FLO) (Precision Marine Survey Limited)

Mob: +44 (0) 7702 730891, **Email:** n.proctor@precisionmarine.co.uk

Daniel Proctor - Fisheries Liaison Officer (FLO) (Precision Marine Survey Limited)

Mob: +44 (0) 7507 556582, **Email:** d.proctor@precisionmarine.co.uk

8. Distribution List

This Notice to Mariners has been distributed to the following authorities, companies and individuals:

8.1 Maritime Notification and Authorities

Table 8.1: Maritime and Authorities

Organisation	Address	Phone	E-mail	Role
UK Hydrographic Office	Admiralty Way Taunton Somerset TA1 2DN	+44 (0) 1823 337 900	navwarnings@ukho.gov.uk	Radio Navigation Warnings
			sdr@ukho.gov.uk	H-Notes
UK Maritime and Coastguard Agency	Spring Place 105 Commercial Road Southampton Hampshire SO15 1EG	+44 (0) 23 8032 9486	navigationsafety@mcga.gov.uk	UK Coastguard
Trinity House Lighthouse Service	Tower Hill London EC3N 4DH	+44 (0) 20 7481 6900	navigation.directorate@thls.org	England/Wales lights, marks and buoys
Marine Management Organisation (Scarborough))	Unit 2a, Newchase Court Hopper Hill Road Eastfield Scarborough North Yorkshire YO11 3YS	+44 (0) 1723 580 040	scarborough@marinemmanagement.org.uk	Scarborough MMO Office
Marine Management Organisation (Beverley)	Room 13, Ground Floor Crosskill House Mill Lane Beverley HU17 9JB	0208 026 0519	beverley@marinemmanagement.org.uk	Beverley MMO Office
The Crown Estate	1 St James's Market London SW1Y 4AH	020 7851 5000	Consents@thecrownestate.co.uk	Consents

8.2 Fishing Industry

Table 8.2: Key Fishing Industry Contacts*

Organisation	Address	Phone	E-mail	Role
National Federation of Fisherman's Organisations	30 Monkgate York YO31 7PF	01904 635 430	nffo@nffo.org.uk	Fishing Industry Representatives

Organisation	Address	Phone	E-mail	Role
Sea Fish industry Authority	Origin Way Europarc Grimsby NE Lincs DN37 9TZ	01472 252 300	kingfisher@seafish.co.uk	Fishing industry Notice / Publication Kingfisher Information Service
Inshore Fisheries and Conservation Authorities (IFCA)	Eastern IFCA – Unit 6, North Lynn Business Village, Bergen Way, Kings Lynn, PE30 2JG	01553 775321	mail@eastern-ifca.gov.uk	IFCAs regulate and enforce inshore fisheries, for fisheries sustainability and conservation purposes
	North Eastern IFCA – Town Hall, Bridlington, YO16 4LP	01482 393515	ne-ifca@eastriding.gov.uk	

*Note that the FLO will distribute to other individual, national and international fishing interests as required.

8.3 Port Authorities

Table 8.3: Port Authorities

Organisation (Contact)	Address	Phone	E-mail	Role
Ports of Scarborough and Whitby	Scarborough Borough Council Whitby Harbour Office, Endeavour Wharf Whitby YO21 1DN	01947 602 354 / 01723 373 530	chris.burrows@scarborough.gov.uk	Harbour Master
Bridlington Harbour	Gummers Wharf West End Bridlington YO15 3AN	01262 670148	email@bridlingtonharbour.com	Harbour Superintendent
Grimsby Fish Dock	Wharnccliffe Road Grimsby DN31 3QJ	01472 350 023	roger@portofgrimsby.com	Port Operations Manager
Port of Immingham	Nordic House Western Access Road Immingham DN40 2LZ		alan.finch@dfds.com	Terminal Operations Director

8.4 Client Group

Table 8.4: Client Group

Organisation	Address	Phone	E-mail	Role
Dogger Bank South Offshore Wind Farm	RWE Renewables UK Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire	07557 758 149	Mark.osola@rwe.com	Project Manager Mark Osola

Organisation	Address	Phone	E-mail	Role
	SN5 6PB			

8.5 Contractor Group

Table 8.5: Contractor Group

Organisation	Address	Phone	E-mail	Role
Fugro GB Marine Limited	Victory House 16 Trafalgar Wharf Hamilton Road Portchester Hampshire PO6 4PX	07968 845 551	d.ferguson@fugro.com	Project Manager: Daniel Ferguson