

Notice to Mariners

Offshore Export Cable Routes – Cable installation Campaign OEC-2 and OEC-1 – Helix R/S Horizon Enabler Trenching Vessel February 2024

Moray West Offshore Wind Farm

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Revision History

Version	Issue Date	Status	Updates
01	31/01/2024	Final	First Issue

1. Introduction

This notice to mariners is to inform that Moray Offshore Windfarm (West) Limited (Moray West) are planning to introduce a third trenching vessel (Helix Horizon Enabler) to complete remaining trenching and post trenching survey scope over offshore export cable routes circa 8th February 2024. This vessel will also carry out CPS (Cable protection system) stabilisation works at each OSP location after cables are pulled in.

The Moray West site is located on the Smith Bank in the Outer Moray Firth, approximately 22.5km from the Caithness coastline. The offshore wind farm site covers an area of approximately 225km². The offshore export cable routes and wind farm site is given in Figure 1:

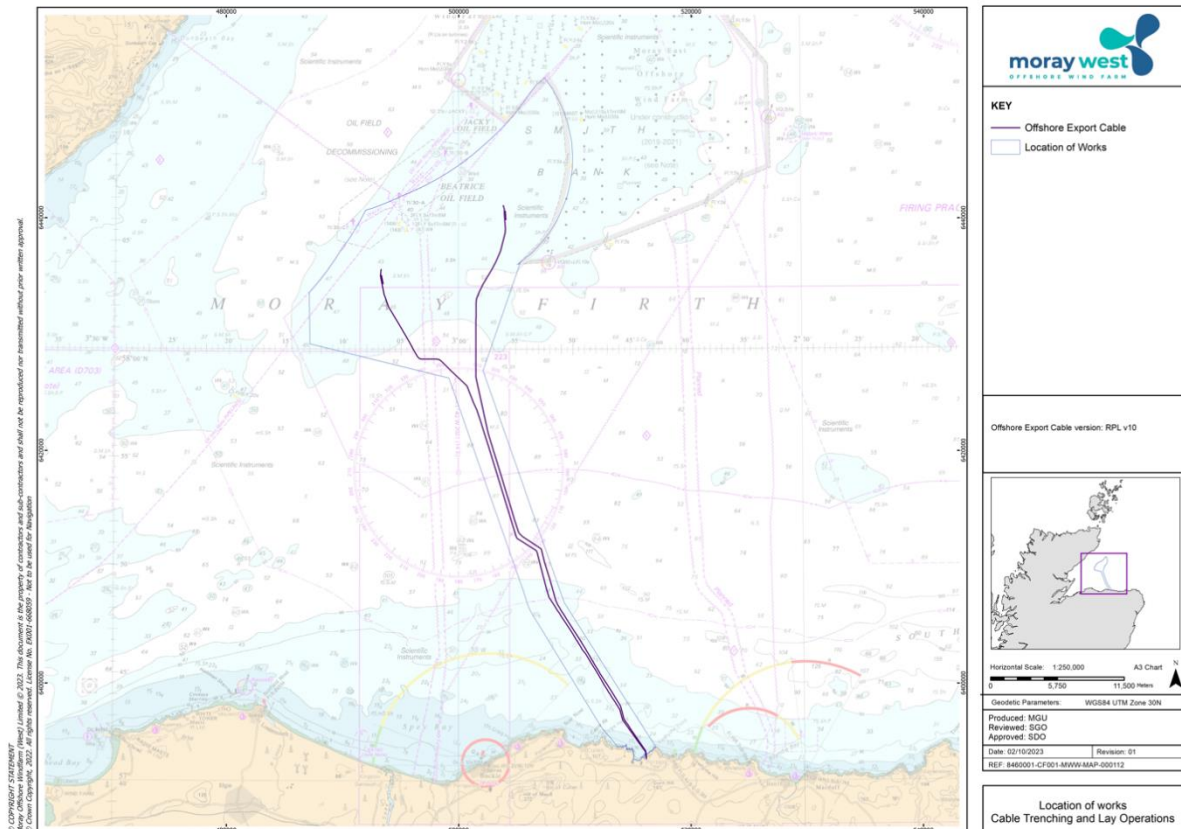


Figure 1. Moray West Wind Farm Site. Location of the cable routes for the works

The vessel works are to take place within the blue boundary shown in the figure above from landfall up to the wind farm site.

2. Offshore export cable trenching, survey and CPS stabilisation works

The ‘Helix Horizon Enabler’ vessel is expected to arrive on site circa 8th February 2024 to complete offshore export cable (OEC) trenching (first and any additional pass as required) and post trenching survey works over pre-laid and pre-trenched offshore export cables OEC-2 and OEC-1. The overall duration is expected to be approximately 1 month.

The above durations include weather contingency; however the operations may be subject to further extension.

Any sections of the routes where the cables require remedial rock protection will be performed during a separate remedial campaign. This will be subject to a separate NtM when details on remedial campaign(s) are known.

Figures 2- 4 below show the cables routes where these works will take place:

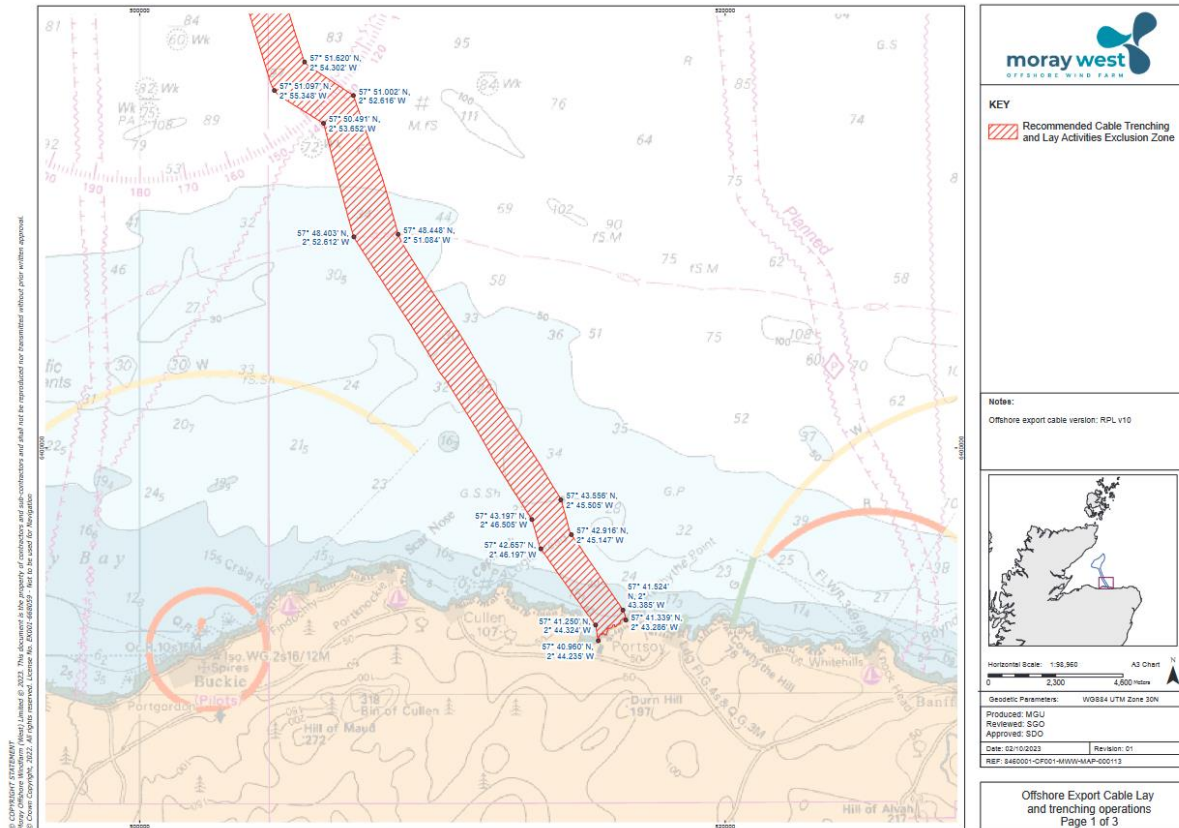


Figure 2: trenching and survey recommended exclusion zone (Nearshore)

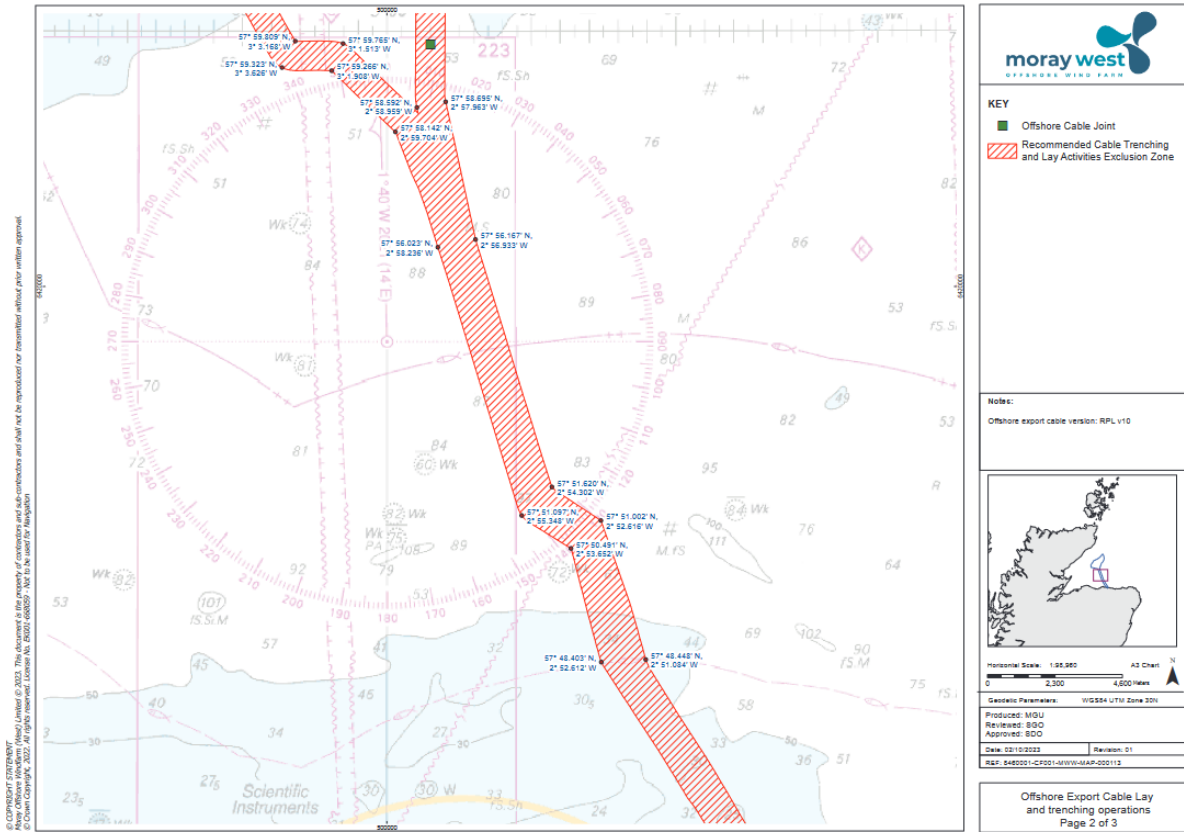


Figure 3: trenching and survey recommended exclusion zone (Mid OEC)

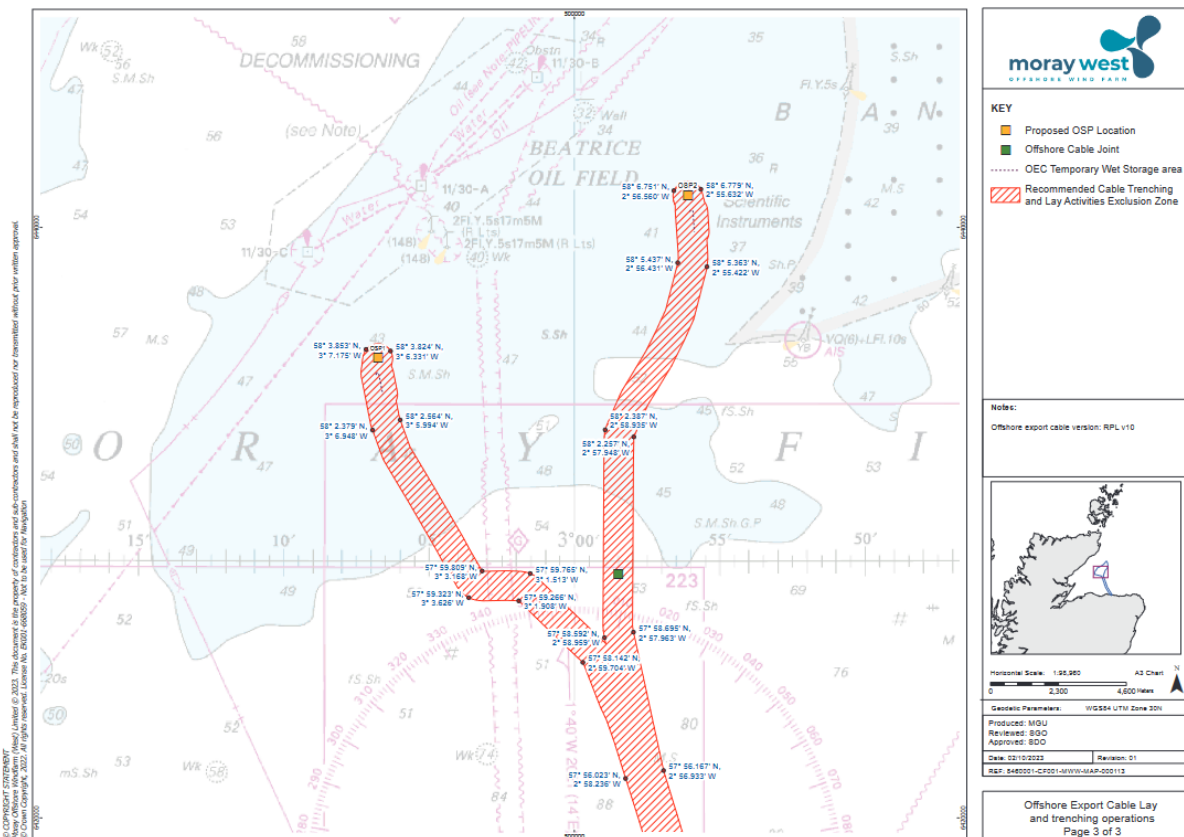


Figure 4: trenching and survey recommended exclusion zone (OEC North and Windfarm Site)

Cable trenching and survey activities recommended Exclusion Zone

***Note: these are provided as a reference, they do not fully define the complex shape of the proposed exclusion zone.**

The coordinates of the work site boundary are presented in the below Table 1 (these are the same as presented in Figure 2, 3 & 4 above):

Windfarm site boundary Coordinates				
Site ID	UTM30(N) Easting (m)	UTM30(N) Northing (m)	WGS84 Latitude	WGS84 Longitude
1	515668	6393410	57° 40.960' N	2° 44.235' W
2	516608	6394120	57° 41.339' N	2° 43.286' W
3	515577	6393950	57° 41.250' N	2° 44.324' W
4	516508	6394460	57° 41.524' N	2° 43.385' W
5	513708	6396550	57° 42.657' N	2° 46.197' W
6	514749	6397040	57° 42.916' N	2° 45.147' W
7	513398	6397550	57° 43.197' N	2° 46.505' W
8	514389	6398220	57° 43.556' N	2° 45.505' W
9	507318	6407200	57° 48.403' N	2° 52.612' W
10	508831	6407280	57° 48.448' N	2° 51.084' W
11	506281	6411070	57° 50.491' N	2° 53.652' W
12	507304	6412020	57° 51.002' N	2° 52.616' W
13	504602	6412190	57° 51.097' N	2° 55.348' W
14	505635	6413170	57° 51.620' N	2° 54.302' W
15	501742	6421330	57° 56.023' N	2° 58.236' W
16	503027	6421600	57° 56.167' N	2° 56.933' W
17	500291	6425260	57° 58.142' N	2° 59.704' W
18	501026	6426100	57° 58.592' N	2° 58.959' W
19	502008	6426290	57° 58.695' N	2° 57.963' W
20	498120	6427350	57° 59.266' N	3° 01.908' W
21	498509	6428270	57° 59.765' N	3° 01.513' W
22	496426	6427460	57° 59.323' N	3° 03.626' W
23	496879	6428360	57° 59.809' N	3° 03.168' W
24	493163	6433130	58° 02.379' N	3° 06.948' W
25	494102	6433470	58° 02.564' N	3° 05.994' W
26	501048	6433140	58° 02.387' N	2° 58.935' W
27	502019	6432900	58° 02.257' N	2° 57.948' W
28	492944	6435870	58° 03.853' N	3° 07.175' W
29	493774	6435810	58° 03.824' N	3° 06.331' W
30	503507	6438800	58° 05.437' N	2° 56.431' W
31	504499	6438660	58° 05.363' N	2° 55.422' W
32	503378	6441240	58° 06.751' N	2° 56.560' W
33	504289	6441290	58° 06.779' N	2° 55.632' W

Table 1. Coordinates of proposed cable trenching and survey works recommended exclusion zone

‘Helix Horizon Enabler’ vessel will also be carrying out CPS stabilisation works after each offshore export cable is pulled in into the OSPs. CPS stabilisation will be implemented by using rock bags on each side of the CPS as per example shown in Figure 5. It is expected that a maximum of 20 rock bags units will be required depending on the free span left after each cable OSP pull in campaign.

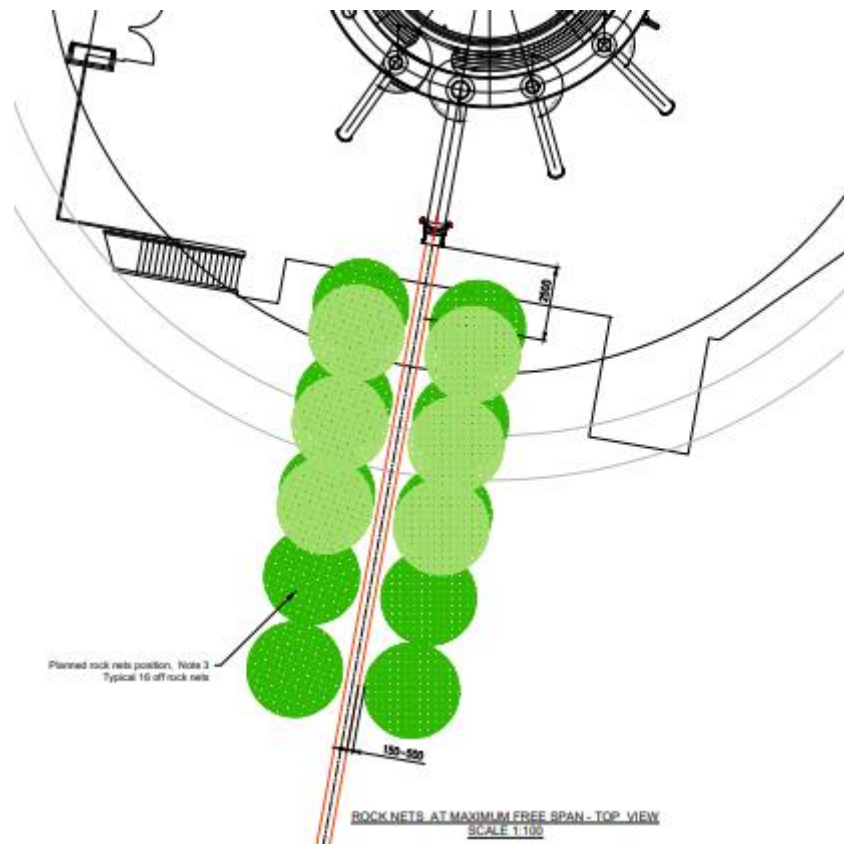


Figure 5: Typical CPS /trenching /J-tube/Scour protection pancake interaction detail drawing for CPS stabilisation

Each bag will weigh approximately 8Te and when landed spread to a diameter of approximately 3m.



Unit weight	8 Te
Rock size	75 - 200 mm
Diameter installed	3.0 m
Height installed	0.7 m
Volume	5.0 m ³
Type of rock	Blue granite

Figure 6: Rock bag typical specification

3. General Safety Advice

Please be aware that, trenching, survey, and CPS stabilisation work activities, by virtue of its mode of operation the ‘Helix Horizon Enabler’ vessel will be Restricted in her Ability to Manoeuvre (RAM) and will also display appropriate day shapes while conducting Cable lay and trenching operations are taking place as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972, Rule 3).

Masters of approaching vessels are therefore requested to maintain their vessels and gear at a minimum safe passing distance from the vessel of 500 metres when it is undertaking work and showing the appropriate shapes and lights in accordance with COLREGs Rule 27 to not compromise the safety of the ‘Helix Horizon Enabler’ vessel and their crew, and the ability to undertake its contracted works.

4. Vessel Information

The offshore export cable installation operations will be completed by the cable trenching vessel ‘Helix Horizon Enabler’. Details are provided in table 2 below.

Vessel Name	Horizon Enabler
MMSI Number	314627000
Operating Company	Helix Robotics Solutions
Vessel Call Sign	8PBK2
Vessel Phone Number	Horizon Enabler Bridge + 44 1224 335915 Horizon Enabler OM + 44 1224 335 916 Horizon Enabler Captain + 1 709 7709889
Vessel Email Address	Captain Enabler captain.enabler@horizonmaritime.com bridge.enabler@horizonmaritime.com Horizon Enabler Offshore Manager he1offman@helixesg.com

Table 2. Vessel ‘Helix Horizon Enabler’ General Information



Figure 7. 'Helix Horizon Enabler' – photo of the vessel

5. Developer Contacts Details

Enquiries regarding the contents of this Notice to Mariners should be directed to Moray West team (contact details below).

For fisheries related matters, please contact the Fishery Manager, using the contact details provided below:

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Moray East Marine Coordination

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