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Project Title	Seagreen Wind Energy Ltd
Document Reference Number	LF000009-MIP-MA-MAN-NOT-0001

# Seagreen Offshore Wind Farm. Weekly Notice of Operations 38/2021

Issue Date - 20th September 2021.

Notice of Operations on Seagreen Offshore Wind Farm.

Work planned for the period 20-09-2021 to 26-09-2021.

Construction activities commenced on Seagreen Offshore Wind Farm on Thursday 17<sup>th</sup> December with works at the export cable landfall site. This notice will be updated weekly giving information of the progress and resources involved in the construction of the windfarm. The intention is to give notice of the activities involved in the construction phase of the project. Should anyone have any questions regarding construction operations we kindly ask that you put them forward well in advance.

The Seagreen Offshore Wind Farm is located in the outer Firth of Forth and Firth of Tay region of the North Sea. The site is situated approximately 17.5 nautical miles East-southeast of the Port of Montrose where the project Marine Coordination Centre will be located during the construction and operational phases. The first phase of the development will consist of 114 suction bucket foundation structures, with associated 114 10MW offshore wind turbine generators, 1 HVAC offshore substation platform, associated inter array and export cabling. The generated power will be transmitted to the National Grid via 3 subsea transmission cables making landfall at Carnoustie, Angus, to the Southwest of the development site. Grid connection will



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be achieved at the Tealing onshore substation. The second phase of the project will consist of 36 piled foundation structures, with associated 36 Wind Turbine Generators, associated inter array and export cabling and one additional 1 HVAC offshore substation platform. The phase 2 transmission cable is proposed to make landfall at Cockenzie, East Lothian (subject to appropriate licensing).

The Seagreen development site is highlighted below in red, the export cable corridor is highlighted in yellow.

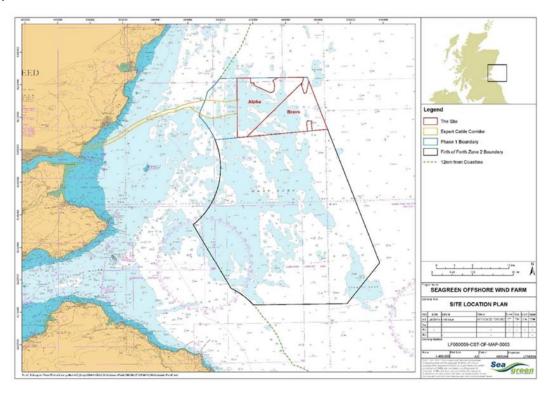


Fig 1 – Seagreen offshore wind farm location and export cable corridor.

## 1. Contact details for Marine Coordination

The following contact can provide more information if required.

Telephone Number (24/7 Operations)	+44 (0) 333 344 5255
Email for Marine Coordinator	seagreenmarinecoordination@sse.com
Address	Seagreen Wind Energy Ltd, Inchbraoch House
	Montrose Port Authority, South Quay
	Ferryden, Montrose, Angus
	DD10 9SL



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## 2. Ongoing Operations

## 2.1 Export Cable Landfall works.

Export cable nearshore protection and diving support operations will continue this week. Works continue on the reinstatement of Carnoustie beach revetement and the trenching of the three export cable protection pipes. Further details are below in section 2.2. The landfall works area is shown below in Fig 2.



Fig 2-Landfall works area located at Carnoustie Barry Golf Links.

## 2.2 Nearshore export cable protection and diving works.

On behalf of Seagreen Wind Energy Ltd, Nexans Norway Dykkerteknikk AS will deliver nearshore protection services and diving assistance in preparation for the pull-in of three export cables at the Carnoustie export cable landfall site.

Works continue at the export cable landfall site at Carnoustie beach as shown above in fig 2. A 272m self-submersible cable protection pipe has been connected to each of the 3 export cable ducts. The 3 self-submersible cable protection pipes will now be trenched awaiting export cable pull-in at a date to be confirmed.

Cable trenching and diving operations will take place from the MPV Sophie.



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Six temporary rock bag moorings have been placed on the seabed. They will remain in place and be used during the export cable pull-in. These temporary moorings will be surface marked by day-glo pellet buoys. The locations and coordinates of these temporary moorings are shown below in Fig 3 and Table 1.

Vessel Name – MPV Sophie		
General Description and Dimensions:	Multi Purpose vessel. 14.9m x 7.0m x 1.0m	
Call Sign:	LK7943	
MMSI:	258003500	
Direct Bridge/ Masters Number	+47 928 35 222	
Onshore Representative:	anders@dykkerteknikk.no; halvor@dykkerteknikk.no	





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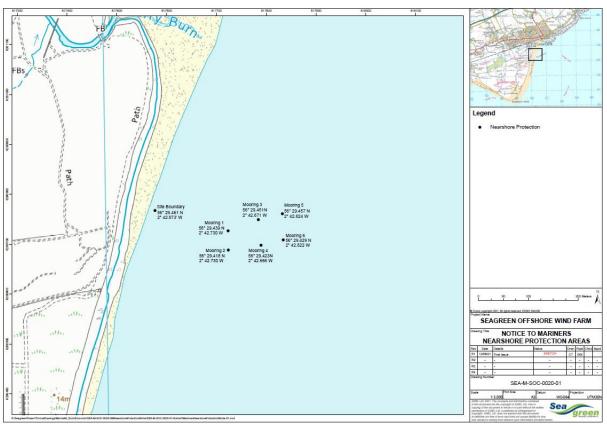


Fig 3

ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Site Boundary	56° 29.461' N	2° 42.873' W
Mooring 1	56° 29.439' N	2° 42.730' W
Mooring 2	56° 29.418' N	2° 42.730' W
Mooring 3	56° 29.451' N	2° 42.671' W
Mooring 4	56° 29.423' N	2° 42.666' W
Mooring 5	56° 29.457' N	2° 42.624' W
Mooring 6	56° 29.429' N	2° 42.622' W

 ${\it Table 1-Temporary mooring coordinates}.$ 

## 3. Pre-construction Unexploded Ordnance and Boulder clearance works.

## 3.1 Unexploded Ordnance & Boulder clearance Geophysical Survey works.

An unexploded ordnance and boulder clearance geophysical survey will take place within the Seagreen Offshore Wind Farm site boundary. The survey vessel, Kommandor Iona will utilise towed array equipment



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with side scan sonar, sub bottom profiler and magnetometer to complete the survey of the remaining WTG locations.

Survey works are expected to be concluded by the end of this week however this period may be extended due to weather conditions.

The coordinates of the Seagreen site boundary are below in Table 2 and shown in Fig 1. Details of the Kommondor Iona are below.

Vessel Name – Kommandor Iona		
General Description and Dimensions:	Survey vessel. 72.5m LOA, 14.9m beam, 6.5m draught	
Call Sign:	GAAK	
MMSI:	235003070	
Satellite communications details	+44 1224 980812	
Direct Bridge/ Masters Number	+44 (0) 1224 085571	
Onshore Representative:	Alexandru Lepadatu,  Alexandru.Lepadatu@subsea7.com  +31(0)61 057 48 75	
On-board Survey rep & Offshore Fisheries Liaison Officer	Gary Howes, +44 (0) 7919 155748	





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ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
01	56° 40.631′ N	1° 43.829' W
02	56° 40.606' N	1° 36.151' W
03	56° 39.317' N	1° 36.884' W
04	56° 37.913' N	1° 36.151' W
05	56° 39.923' N	1° 34.627' W
06	56° 31.903' N	1° 29.311' W
07	56° 31.724' N	1° 33.882' W
08	56° 32.983' N	1° 34.195' W
09	56° 33.051' N	1° 35.583' W
10	56° 31.666′ N	1° 35.352' W
11	56° 30.803' N	1° 56.378' W
12	56° 40.653' N	1° 56.226' W
13	56° 40.648' N	1° 52.170' W
14	56° 39.836' N	1° 51.101' W
15	56° 38.138′ N	1° 46.249' W
16	56° 38.383′ N	1° 45.181' W
17	56° 40.157′ N	1° 45.487' W

Table 2 – Site Boundary coordinates.

## 3.2 Potential Unexploded Ordnance Identification Survey

A Potential Unexploded Ordnance (pUXO) identification survey will take place within the Seagreen Offshore Wind Farm site boundary. The vessel, Glomar Worker will utilise a ROV mounted magnetometer and video camera to conduct the survey of numerous targets to identify any possible UXO risk. Wind Turbine Generator positions, Inter Array Cable routes and 1 Offshore Sub-station location within the Seagreen site boundary will be surveyed.

Survey works are expected to be concluded by the end of September 21 however this period may be extended due to weather conditions.

The coordinates of the Seagreen site boundary are above in Table 1 and shown in Fig 1. Details of the survey vessel, Glomar Worker are shown below.



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Vessel Name – Glomar Worker		
General Description and Dimensions:	Survey vessel. 60.0m LOA, 15.6m beam, 4.5m draught	
Call Sign:	3EKK8	
MMSI:	352110000	
Satellite communications details	+87 0773281351 & +31 852088024	
Direct Bridge/ Masters Number	+31 645027717	
Onshore Representative:	Alexandru Lepadatu,  Alexandru.Lepadatu@subsea7.com  +31(0)61 057 48 75	
Onboard Survey rep.	Alice Bamkin +44 (0)7845 554353	



# 3.3 Unexploded Ordnance Disposal

An unexploded ordnance disposal campaign will take place within the Seagreen Wind Farm site boundary, coordinates of the items are listed below in table 3. The survey vessel Glomar Worker will embark an explosive ordnance disposal team and are expected on site to conduct the works on or around the 21st of September. The disposal works are expected to be completed within 4 days weather conditions permitting.

Depending on the nature of the ordnance differing disposal methods may be employed.



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Three noise monitors will be placed on the seabed as part of the disposal process, coordinates of these monitors are shown if fig 4 and listed in table 4.

Any required detonations will take place during daylight hours, the Glomar Worker will commence hourly warning broadcasts four hours prior to any detonations, a final broadcast will be made 10 minutes before execution.

Glomar Worker will monitor the area for the safety of other vessels, it is requested that all vessels give the operations in excess of 1 nautical mile clearance during disposal operations.

Unexploded ordnance	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Confirmed UXO	56° 35.332' N	1° 34.204' W
Confirmed UXO	56° 34.066' N	1° 32.427' W
Confirmed UXO	56° 35.417' N	1° 34.119' W
Confirmed UXO	56° 31.262' N	1° 53.721' W

Table 3 – UXO coordinates

Seabed noise monitors.	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
G-00167 and G-00170 Ref 1	56° 37.536' N	1° 39.165' W
G-00167 and G-00170 Ref 2	56° 35.894' N	1° 35.288' W
G-00167 and G-00170 Ref 4	56° 35.538' N	1° 34.550' W
G-00577 Ref 1	56° 36.722' N	1° 36.445' W
G-00577 Ref 2	56° 34.693' N	1° 33.330' W
G-00577 Ref 3	56° 34.240' N	1° 32.794' W

Table 4 – Noise monitor coordinates



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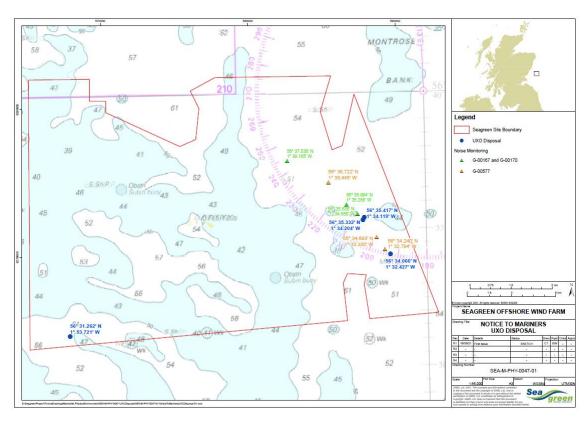


Fig 4 – UXO & noise monitor locations.

## 3.4 Boulder removal campaign

A boulder removal campaign will take place within the Seagreen Offshore Windfarm site boundary. The boulder removal vessel MMA Pinnacle is equipped with a ROV and integrated tine grab tool. The vessel will relocate boulders which are considered a hazard from the inter array cable routes and areas surrounding the wind turbine generator locations.

The works commenced on 30<sup>th</sup> August, a completion date will be promulgated when known.

Details of the MMA Pinnacle are shown below.

Vessel Name – MMA Pinnacle		
General Description and Dimensions:	Multi Purpose Supply Vessel with DP 2 capabilities	
Call Sign:	9WNM1	
MMSI:	533130779	
Satellite communications details	+65 3163 2965	



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Direct Bridge/ Masters Number	+65 901 80775
Onshore Representative:	Guy Butler
On-board Survey rep.	Barry Sutherland



## **Distribution List**

A central list of recipients is maintained by Seagreen Marine Coordination, if you are not the appropriate recipient or do not wish to receive these notices please contact Marine Coordination as per the details in section 1 of this notice.

## 4. Website

The official website for Seagreen Offshore Wind Farm can be found at

## https://seagreenwindenergy.com

This contains all Seagreen Weekly Notices of Operations and Notices to Mariners, together with a large amount of general information about the project.

There is also a Twitter feed at @seagreenwind



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# 5. Seagreen weekly vessel report.

