



**APPLICATION FOR A MARITIME USAGE LICENCE  
LIC230024**

**FOR MARINE SURVEY & SITE INVESTIGATION WORKS AT  
BALLYLOUGHANE, COUNTY GALWAY, GALWAY BAY &  
ATLANTIC OCEAN**

# **SCHEDULE OF WORKS**

**April 2024**



**Co-funded by  
the European Union**

# DOCUMENT CONTROL SHEET

<b>CLIENT</b>	Deep Sea Fibre Networks Ltd.
<b>PROJECT TITLE</b>	PISCES
<b>PROJECT REFERENCE</b>	1317
<b>DOCUMENT TITLE</b>	Marine Survey – Schedule of Works

REV	STATUS	AUTHOR	REVIEWED BY	APPROVED BY	COMMENT	ISSUE DATE
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## Marine Survey and Site Investigation Schedule of Works

### A: Geophysical Survey.

#### *Side Scan Sonar.*

Method: Vessel towing a submerged sonar towbody or fish.

Line spacing: The sonar range is dependent on sonar frequency and is expected to vary between 50 - 175m with a 50% overlap between each swath and 100% ensonification in both directions.

Location: Survey Area as shown on 1317-A-100 Licence Map

#### *Sub-Bottom Profiler.*

Method: Hull mounted or Vessel towing a submerged SBP towbody or fish.

Line spacing: The sub bottom profiler data will be collected concurrently with the sidescan sonar and magnetometer, therefore line spacing is expected to vary between 50 - 175m.

Location: Survey Area as shown on 1317-A-100 Licence Map

#### *Marine Magnetometer.*

Method: Vessel towing a submerged magnetometer towbody or fish.

Line spacing: The magnetometer data will be collected concurrently with the sidescan sonar and sub bottom profiler, therefore line spacing is expected to vary between 50 - 175m.

Location; Survey Area as shown on 1317-A-100 Licence Map

#### *Multibeam Echosounder.*

Method: Hull mounted

Line spacing: The swath width for multibeam can vary between 3-6 times the water depth depending on the required bathymetry resolution. The estimated water depth in the survey area is between 4m and approximately 4,000m, therefore the expected narrowest swath width is 12 to 18m, with the largest swath being 12,000m at the Maritime Area extents.

Location: Survey Area as shown on 1317-A-100 Licence Map

### B: Geotechnical and Sediment Sampling.

*35 no. Gravity cores / Vibrocores*, each core up to 3m depth, diameter 90 – 120mm.

Location: Locations as indicated on maps 1317-A-101\_Site\_Layout\_Map\_1 to 1317-A-106\_Site\_Layout\_Map\_6. Locations shown are indicative only, locations may vary.

*11 no. Surface grab sample* by Van Veen grab or similar;

Location: Locations as indicated on 1317-A-102\_Site\_Layout\_Map\_2. Locations shown are indicative only, locations may vary.

*85 no. In situ Cone Penetration Test* on sea bed frame;

Location: Locations as indicated on maps 1317-A-101\_Site\_Layout\_Map\_1 to 1317-A-106\_Site\_Layout\_Map\_6. Locations shown are indicative only, locations may vary.

*20 no. Bar probes*, 2m depth

Location: Between HWM and 3m water depth at Ballyloughane Strand.

*3 No trial pits.*, 2.5m depth.

Location: Between LWM and upper beach at Ballyloughane Strand.

Location: Locations as indicated on 1317-A-101\_Site\_Layout\_Map\_1. Locations shown are indicative only, locations may vary.

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*For detailed specifications, method statements, survey methods, equipment and vessels etc. see Works Methodology Report Dated, November 2023.*

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