

E 223800

E 224000

E 224200

N 384000

N 384000

N 383800

N 383800

N 383600

N 383600

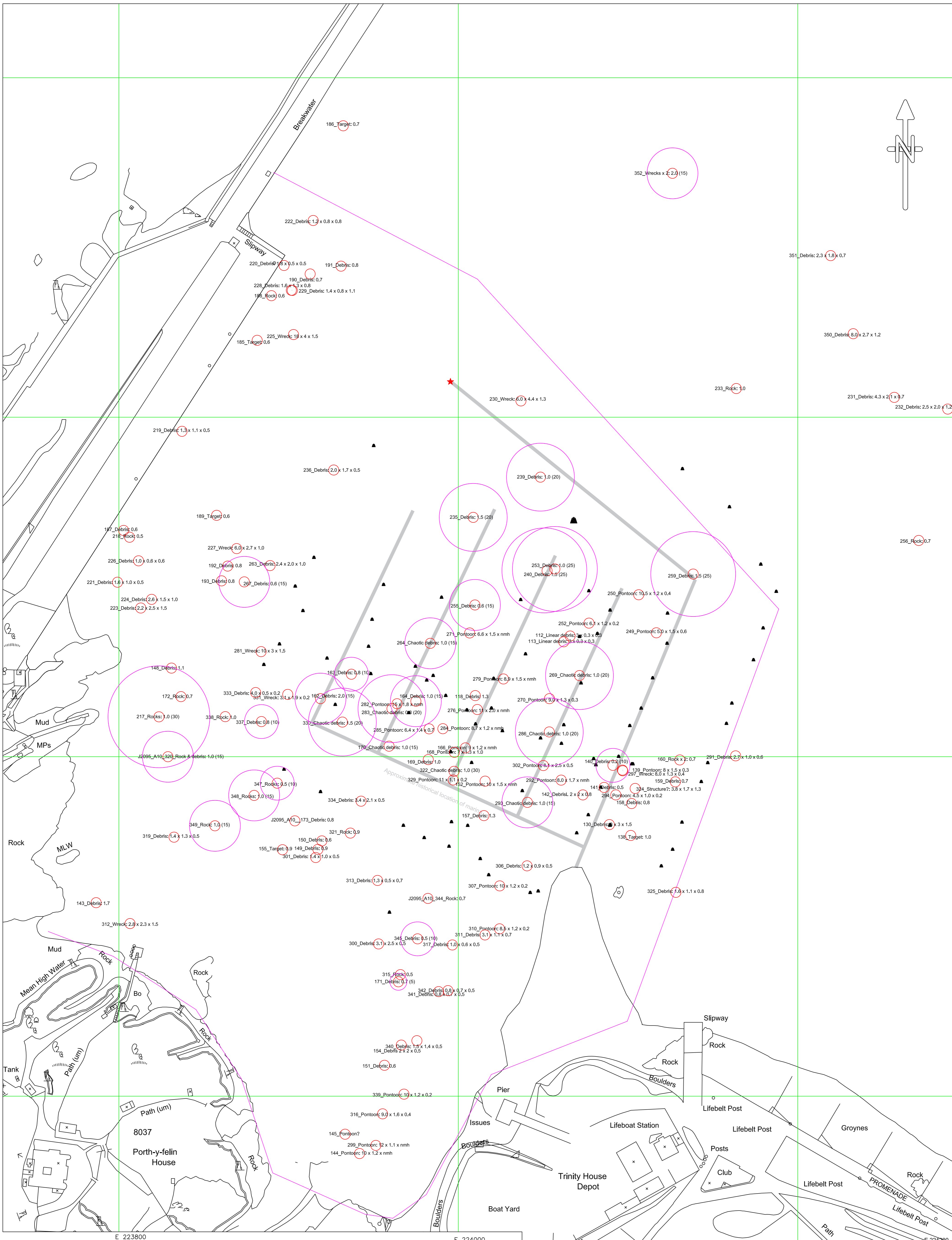
N 383400

N 383400

E 223800

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SHORELINE SURVEYS LTD
 Hydrographic - Geophysical - Topographic

Moreford Hall, Moreton, Dorchester, Dorset DT2 8BA
 Telephone: +44 1305 848821 or +44 7950 038317
 email@shorelinesurveys.com - www.shorelinesurveys.com

TITLE:
 Multibeam & side scan backscatter survey -
 Holyhead marina site debris search

CLIENT:
 Stena Line Ports Limited

PROJECT:
 July 2022 Annual Survey

Project No: J2095 **Scale:** 1:1000 **Date:** Jul 2022 **Surveyed by:** TG **Drawn by:** HS **Checked by:** HS

NOTES/REVISIONS:
 Contours are only indicative of bed topography and should be treated as such. Shore data is client supplied.

DO NOT SCALE

StenaLine

MBSS - SIDE SCAN SONAR SURVEY
 (SEE NOTE ->)

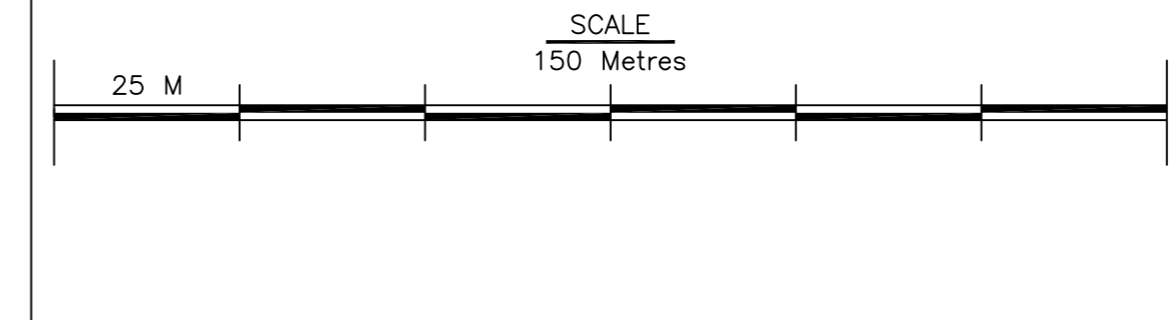
Coordinated in OSGB36 using OSTN15.
 RTK GNSS, tidal and IMU data post-processed using PostPAC MMS.
 Survey coverage is not 100%.
 Dimensions are approximate.
 Sub-seabed obstructions are not detected.
 Side scan sonar survey line spacing: Various
 Multibeam side scan sonar operated at 400 kHz, various ranges.

○ Object with ID number, description, height (relative to seabed) and radius (in magenta) where applicable.
 Please see target list for more information (J2095 Contacts.xls).
 Entire marina site area littered with scattered debris up to 0.5m high.

Chaotic area.
 ▲ Block - interpreted historical mooring block.
 - Marina Extents.

SIGNIFICANT & MEDIUM DEBRIS INTERPRETED ONLY.

Multibeam side scan sonar (backscatter) has been used to interpret seabed mounted contacts within: Inner Harbour, T1, T2, T3, T4, T5, Fish Dock, Soldiers Quay, Holyhead Marina, Orthon Jetty.
 Contacts have not been specifically interpreted for other areas where multibeam side scan sonar has taken place as these will be present within the multibeam sounding data.
 Side scan sonar surveys (with single beam soundings) were executed within Areas 4, 5, & 6 and on such all contacts have been interpreted for these locations.



E 224200