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Background

The capital dredge proposals were developed over 18 months ago with an MD-LOT application made in July 2024 for a dredging campaign involving trailer suction dredger (TSD), back-hoe dredger (BHD) and stating that there may also be a requirement for pre-treatment of hard rock strata.

MD-LOT licence was issue for an in-situ dredge volume of 168,000 WT with similar dump quantity to designated dump site.

A Phase 1 dredging campaign in June / July 2025 to remove all soft dredge material using a trailer suction hopper dredger from existing MD-LOT licenced dredge areas is nearing substantial completion.

The remaining capital dredge Phase 2 campaign is currently being re-programmed while an additional MD-LOT licence application, HRA, EPS, MMA and BPEO report is updated to include requirement for pre-treatment of some hard rock strata using blasting and then final removal by BHD to the licenced offshore disposal site.

Finally, during discussion with current dredge contractor on potential for over dredge due to his proposed methods then an additional over dredge and final slope profiles contingency allowance of 29,000m3 has been calculated in addition to above which may vary once dredging progressed and may or may not be required.

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1.0 Introduction

MD-LOT licence MS-00011213 for Dales Voe is currently in place – Dredge quantity on licence states 168,000 WT with disposal at designated offshore disposal site.

A Phase 1 contract in June / July 2025 to remove all soft dredge material using trailer suction dredger (TSD) from MD-LOT licenced areas is nearing substantial completion with approx. 33,831m3 net (41,109m3 gross) removed.

Since the original dredging campaign was planned and after current engagement with clients preferred dredging contractor then while there is no change to dredge area, there is a desire to undertake amendments to the dredging works as follows:

1.0 Pre-treatment of some hard rock strata using blasting over a duration of 3.5 weeks.
2.0 Larger dump vessels proposed to reduce return trips to designated dredge disposal site from 24No / day previously assessed down to 5No per day.
3.0 Contingency over dredge volume allowance based on contractor's methods that may not all be required.
4.0 While the dredging duration remains unchanged, dredging may now be undertaken partly in winter.

2.0 Information Available

The existing MD-LOT licence dredge area and volumes remain unchanged except for the additional over-dredge contingency sum of 29,000m^3.

The Best Practical Environmental Report (BPEO) included with original application confirmed volumes in m3 and below table shows these together with additional volumes from the over-dredge contingency.

Summary of Dredge Volumes and Depths – Lerwick Harbour

Dredge Area	**Dredge Volume (m^3)**	**Target Dredge Depth (m below Chart Datum)**
Dales Voe -12.5 / -14.5m CD	42,044	-14.6
Dales Voe -16.5m CD	34,363	-16.5
Dales Voe Total Volume (Original)	**76,407**	
Additional Material		
Over Dredge (est. 500mm ave.)	29,000	
Dales Voe Total Volume (Revised)	105,407	

3.0 Revised HRA & BPEO Findings

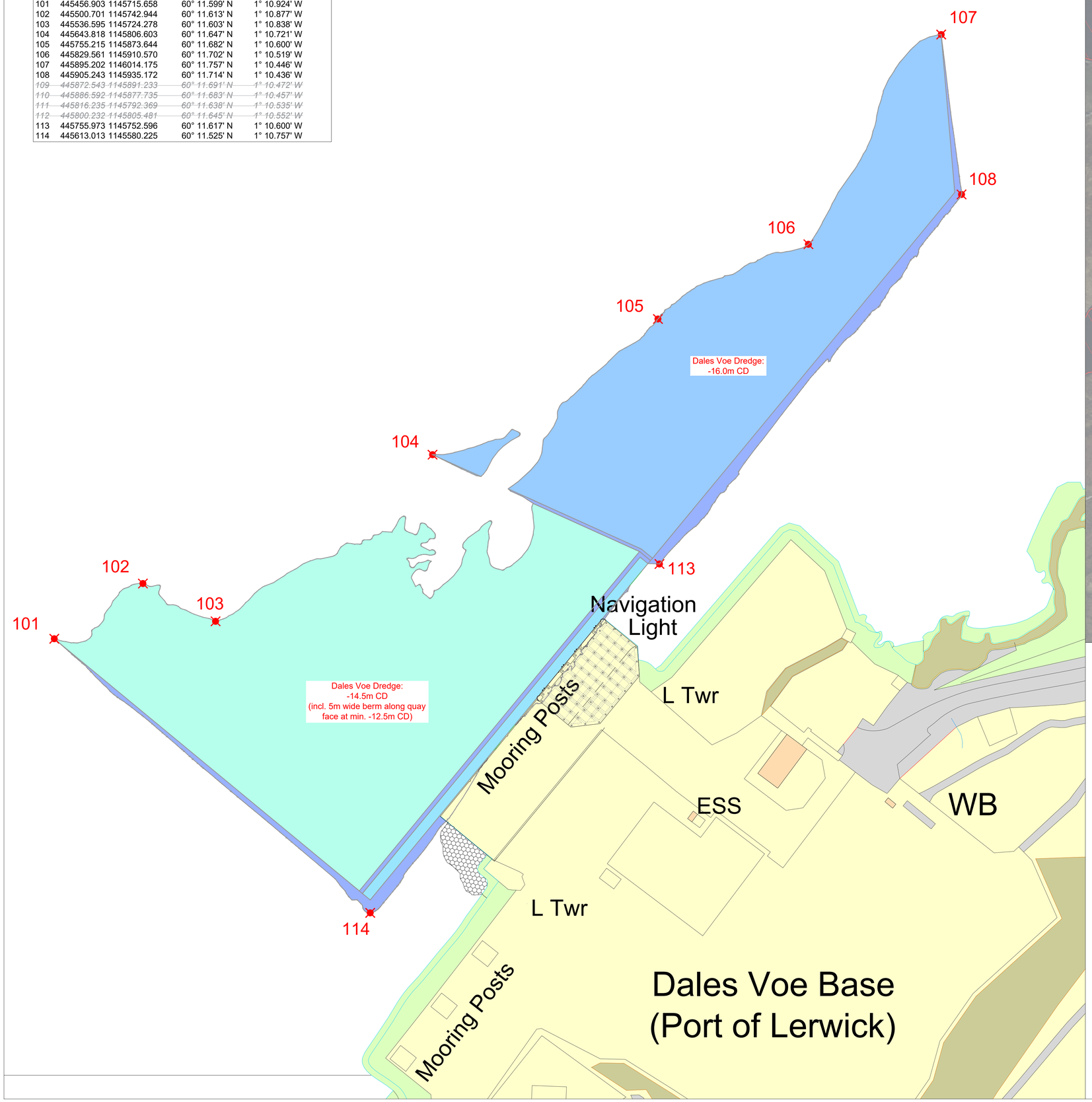
The revised Habitats Regulation Assessment findings based on the new works scoped including pre-treatment blasting of hard rock strata concludes no anticipated adverse effects for birds or seals if stated mitigation methods is implemented.

The revised BPEO confirms no change to the original report conclusions.

4.0 European Protected Species

An EPS / MMA application is now included with this current licence amendment covering pre-treatment of hard strata with blasting.

Point	OSGB36 Easting	Northing	WGS84 Lat	Long
101	445456.903	1145715.658	60° 11.599' N	1° 10.924' W
102	445500.701	1145742.944	60° 11.613' N	1° 10.877' W
103	445536.595	1145724.278	60° 11.603' N	1° 10.838' W
104	445643.818	1145806.603	60° 11.647' N	1° 10.721' W
105	445755.215	1145873.644	60° 11.682' N	1° 10.600' W
106	445829.561	1145910.570	60° 11.702' N	1° 10.519' W
107	445895.202	1146014.175	60° 11.757' N	1° 10.446' W
108	445905.243	1145935.172	60° 11.714' N	1° 10.436' W
~~109~~	~~445872.543~~	~~1145891.233~~	~~60° 11.691' N~~	~~1° 10.472' W~~
~~110~~	~~445886.592~~	~~1145877.735~~	~~60° 11.683' N~~	~~1° 10.457' W~~
~~111~~	~~445816.235~~	~~1145792.369~~	~~60° 11.638' N~~	~~1° 10.535' W~~
~~112~~	~~445800.232~~	~~1145805.481~~	~~60° 11.645' N~~	~~1° 10.552' W~~
113	445755.973	1145752.596	60° 11.617' N	1° 10.600' W
114	445613.013	1145580.225	60° 11.525' N	1° 10.757' W



DENOTES SPECIAL PROTECTION AREA (SPA)

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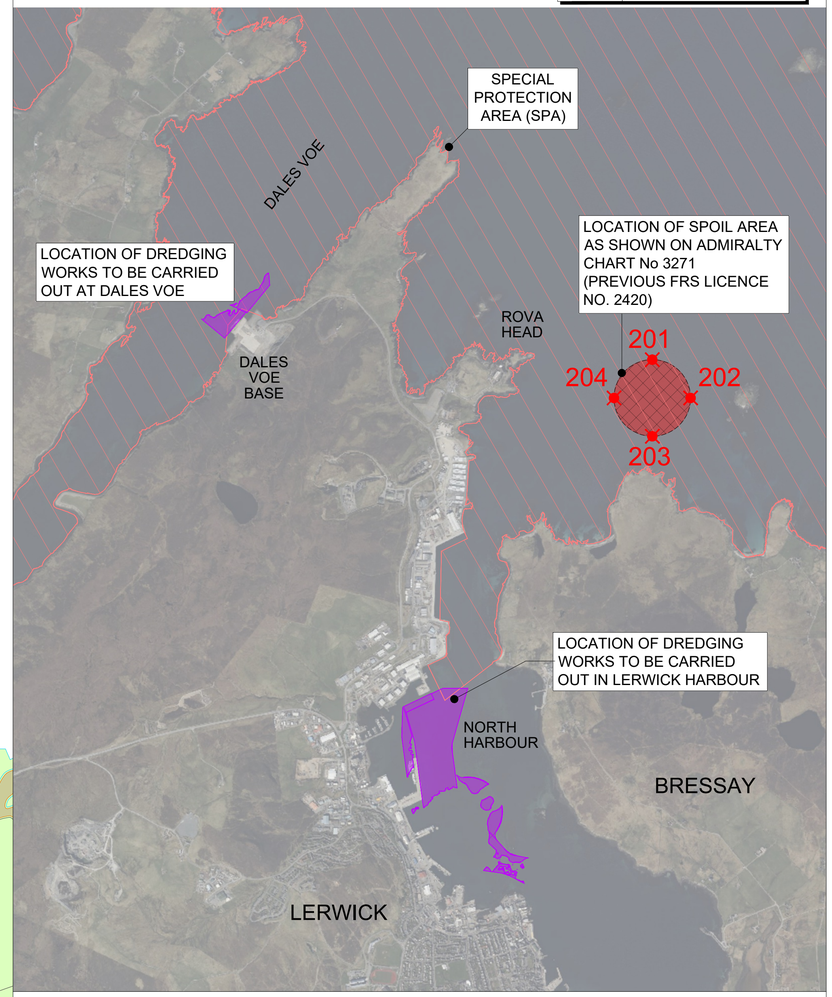

LOCATION PLAN
Scale 1: 20,000

0 750 1500 Metres

N

DALES VOE DREDGING WORKS COORDINATES
Scale 1: 1,000

0 50 100 Metres

REV	DATE	REVISION	DRN	CHK
A	12.05.2025	ITT -16.0mCD dredge pocket removed	PRN	SSJ
-	16.12.2024	Invitation to Tender	PRN	APS

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Lerwick Port Authority
Lerwick Harbour Dredging

TITLE :
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Dales Voe Dredging Coordinates

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