



Rampion Offshore Wind Farm



ES Section 10 – Marine Mammals Figures

RSK Environmental Ltd

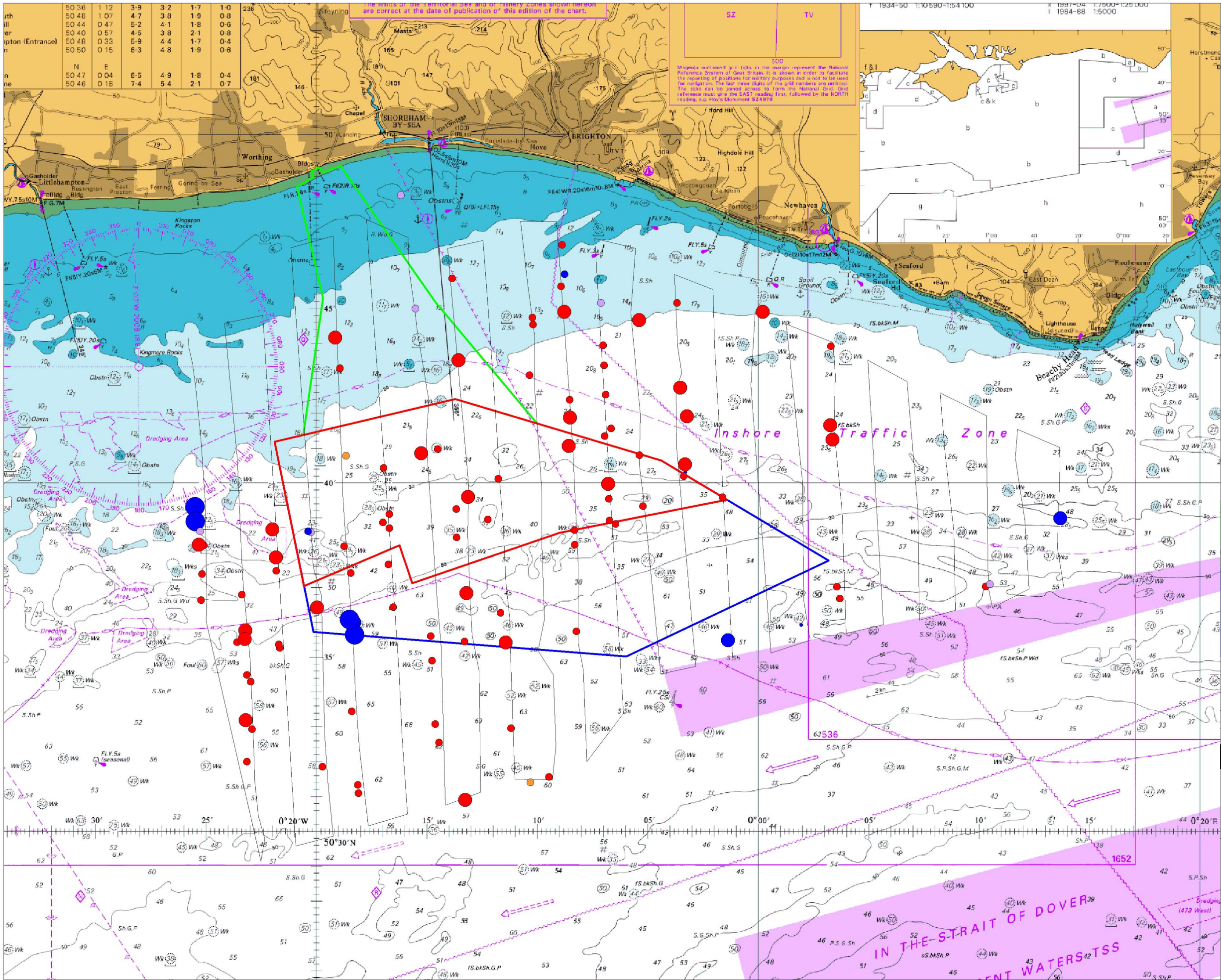
Document 6.2.10

December 2012

APFP Regulation 5(2)(a)

Revision A

E.ON Climate & Renewables UK Rampion Offshore Wind Limited



Legend

- The Crown Estate Zone 6
- Rampion Offshore Wind Farm Site
- Export Cable Corridor

Number of Individuals

- 1 to 2
- 2 to 4
- 5 to 30

Species

- Harbour porpoise
- Bottlenose dolphin
- White-beaked dolphin
- Unidentified dolphin
- Minke whale
- Unidentified whale
- Common seal
- Grey seal
- Unidentified seal

Rev **Date** **Description** **Drn** **Chk** **App**

01	24.10.12	New Boundary	LH	AB	DW
00	18.05.12	First Draft	LH	AB	DW

Rampion Offshore Wind Farm

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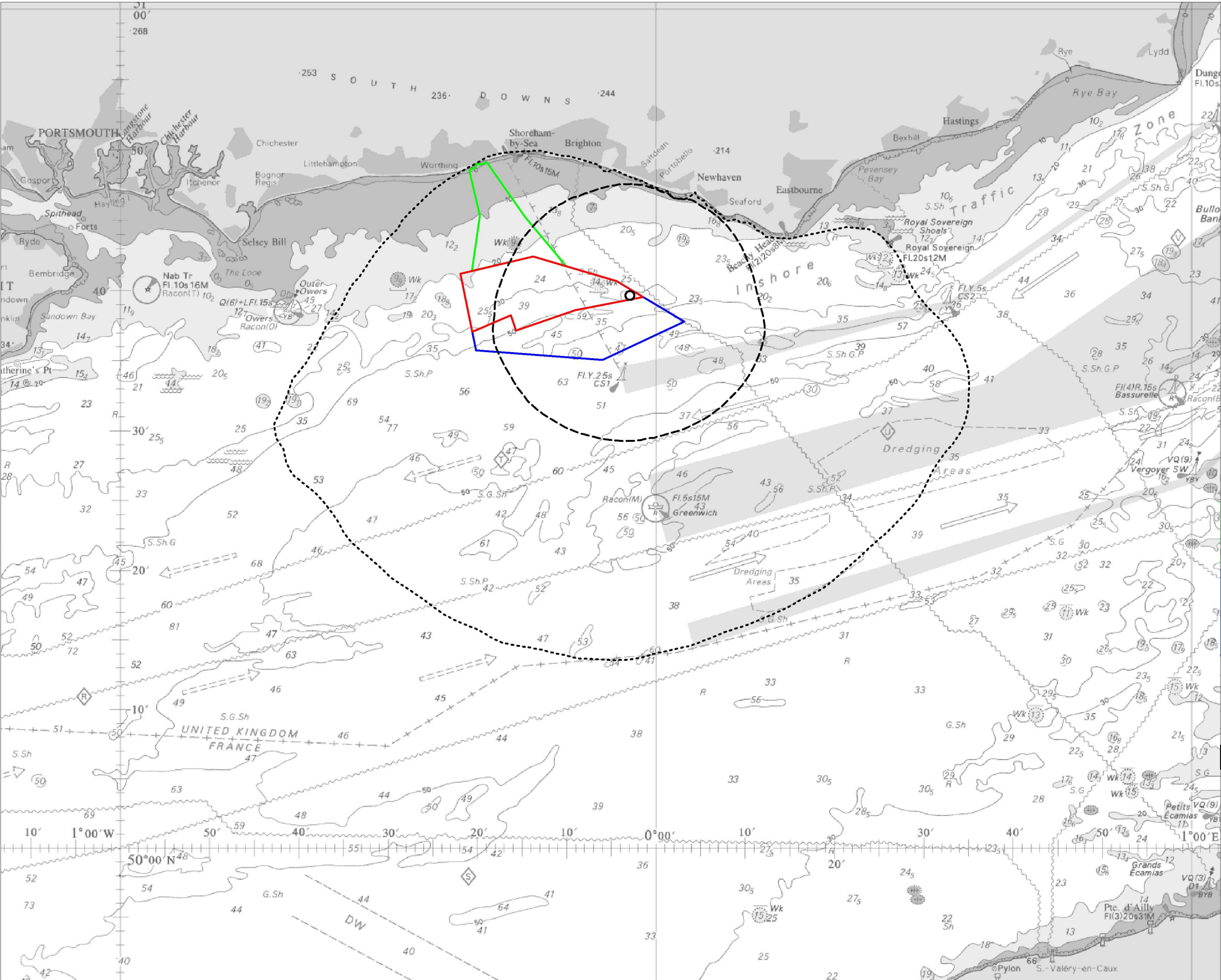
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Figure 10.3: Marine mammal sightings in the Project baseline survey area between March 2010 and February 2012

0 5 10
Kilometres

Scale = 1:200,000 @ A3

REV 00



Legend

The Crown Estate Zone 6

Rampion Offshore Wind Farm Site

Export Cable Corridor

Noise Contours

130 dBht (auditory damage)

90dBht (strong avoidance)

75dBht (significant avoidance)



00	05.12.12	First Draft	AJ	AB	DW
Rev	Date	Description	Drn	Chk	App

Rampion Offshore Wind Farm

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Title:

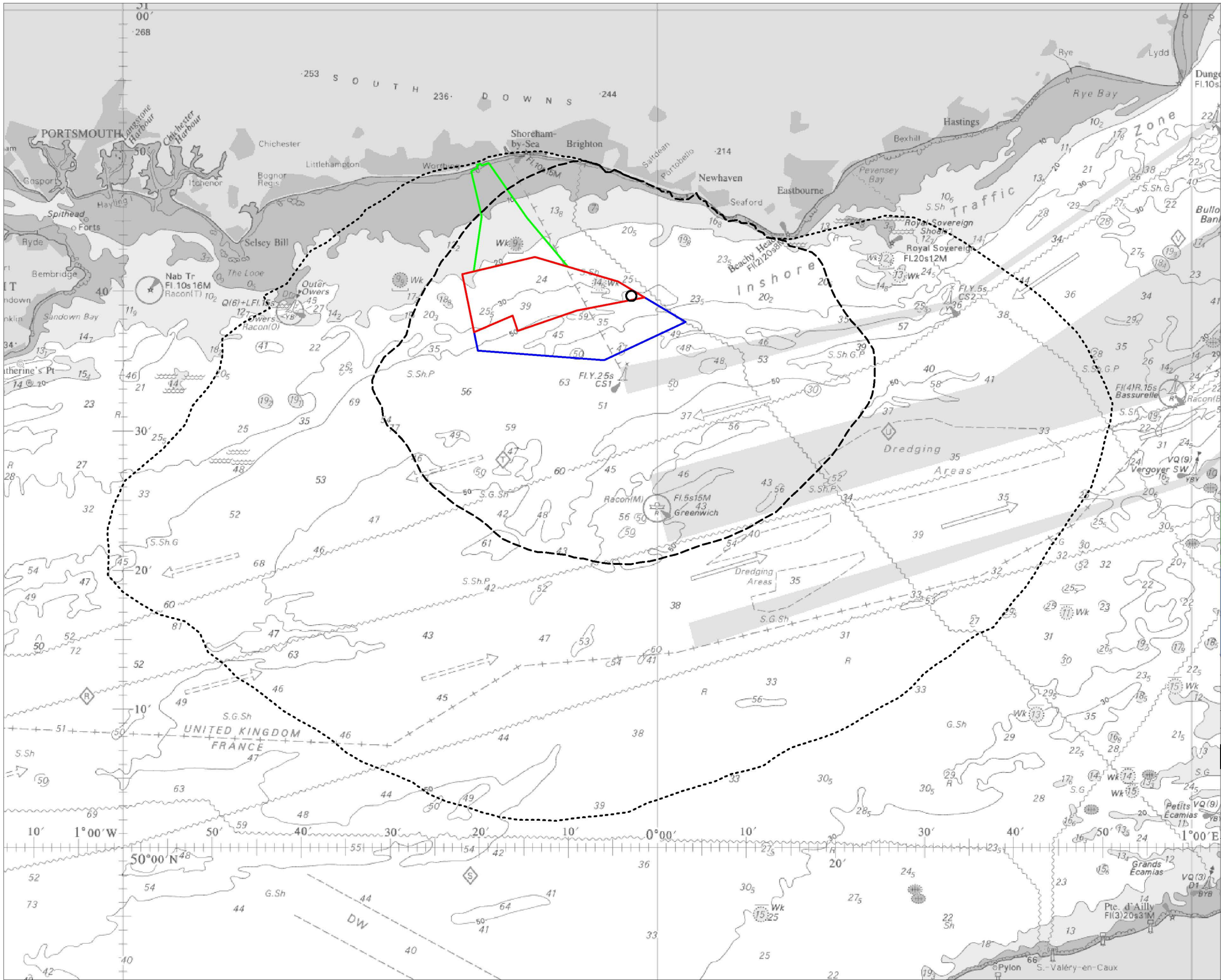
Figure 10.10: Contour Plot Showing the Estimated 130, 90 and 75dBht Peak-to-Peak Impact Ranges for Harbour Porpoise for the Installation of a 6.5m Monopile, in the East of the Rampion Project Site

05 Kilometres

Scale = 1:500,000 @ A3

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Legend

- The Crown Estate Zone 6
- Rampion Offshore Wind Farm Site
- Export Cable Corridor

Noise Contours

- 130 dBht (auditory damage)
- 90dBht (strong avoidance)
- 75dBht (significant avoidance)



00	05.12.12	First Draft	AJ	AB	DW
Rev	Date	Description	Drn	Chk	App

Rampion Offshore Wind Farm



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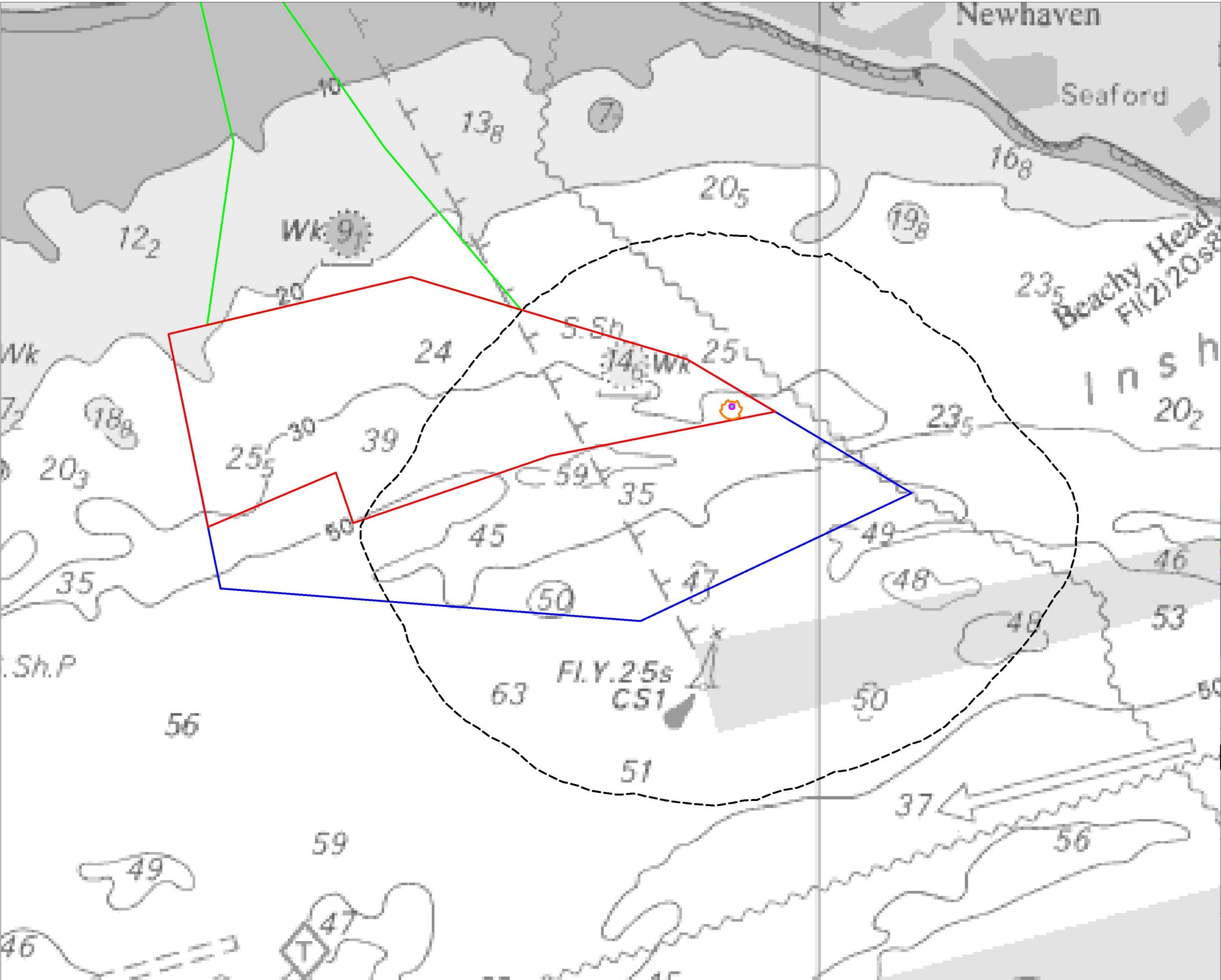
Figure 10.11: Contour Plot Showing the Estimated 130, 90 and 75dBht Peak-to-Peak Impact Ranges for Humpback Whale (Surrogate for Minke Whale) for the Installation of a 6.5m Monopile in the East of the Rampion Project Site



Scale = 1:500,000 @ A3



REV 00



Legend

- The Crown Estate Zone 6
- Rampion Offshore Wind Farm Site
- Export Cable Corridor

Noise Contours

- Low Frequency Cetaceans Exposure 198.0 dB
- Mid Frequency Cetaceans Exposure 198.0 dB
- High Frequency Cetaceans Exposure 198.0 dB
- Pinnipeds (in Water) Exposure 186.0 dB



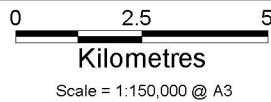
00	05.12.12	First Draft	AJ	AB	DW
Rev	Date	Description	Drn	Chk	App

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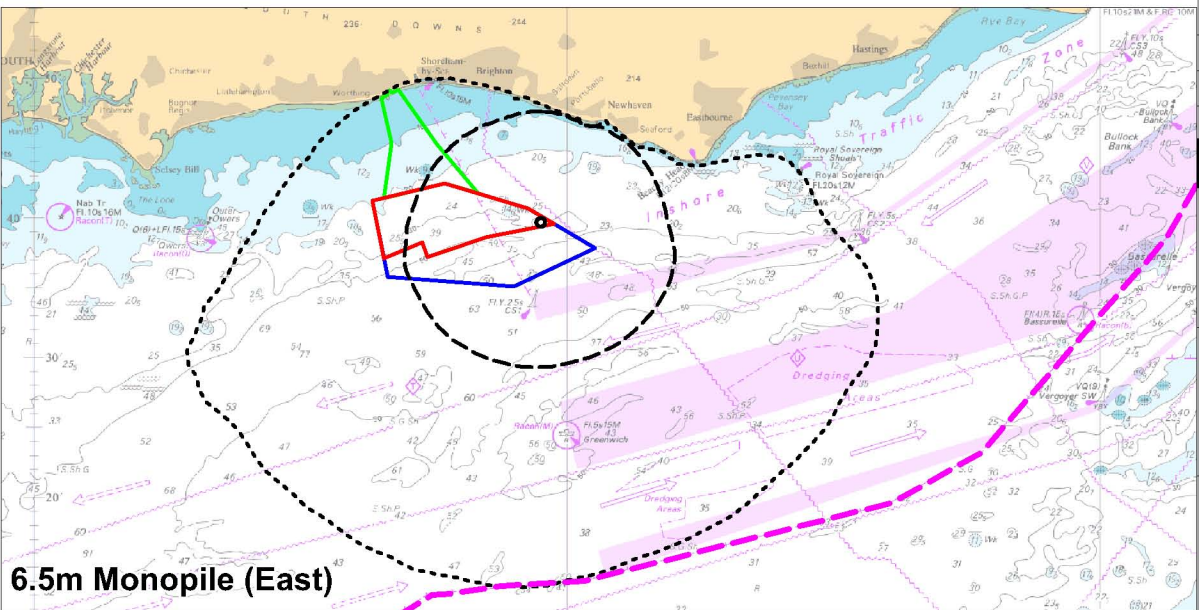
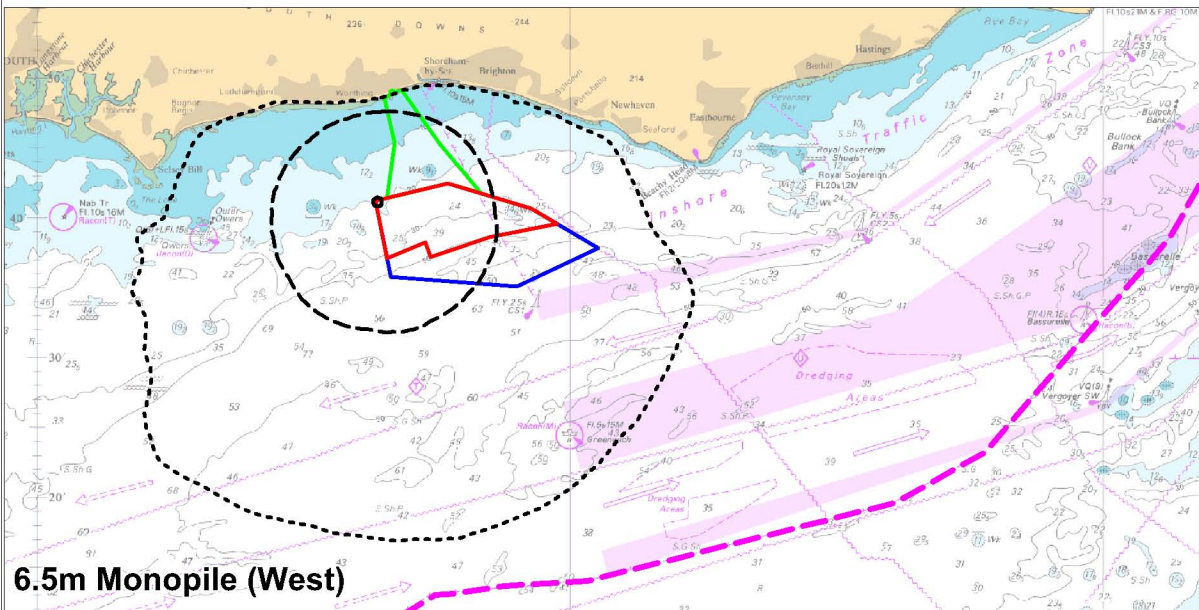
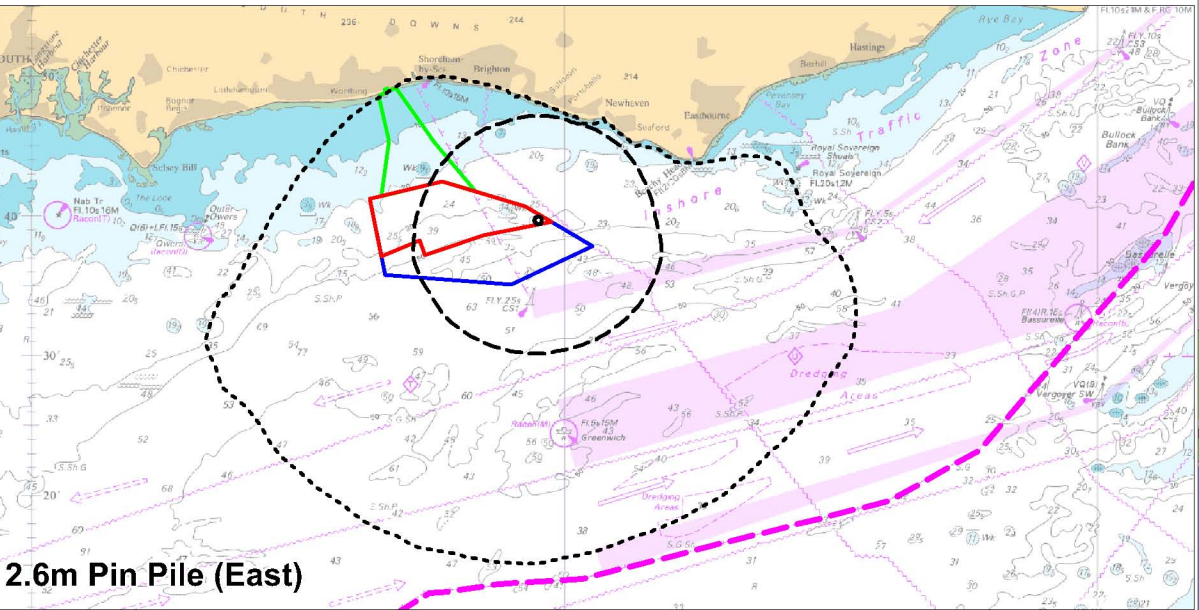
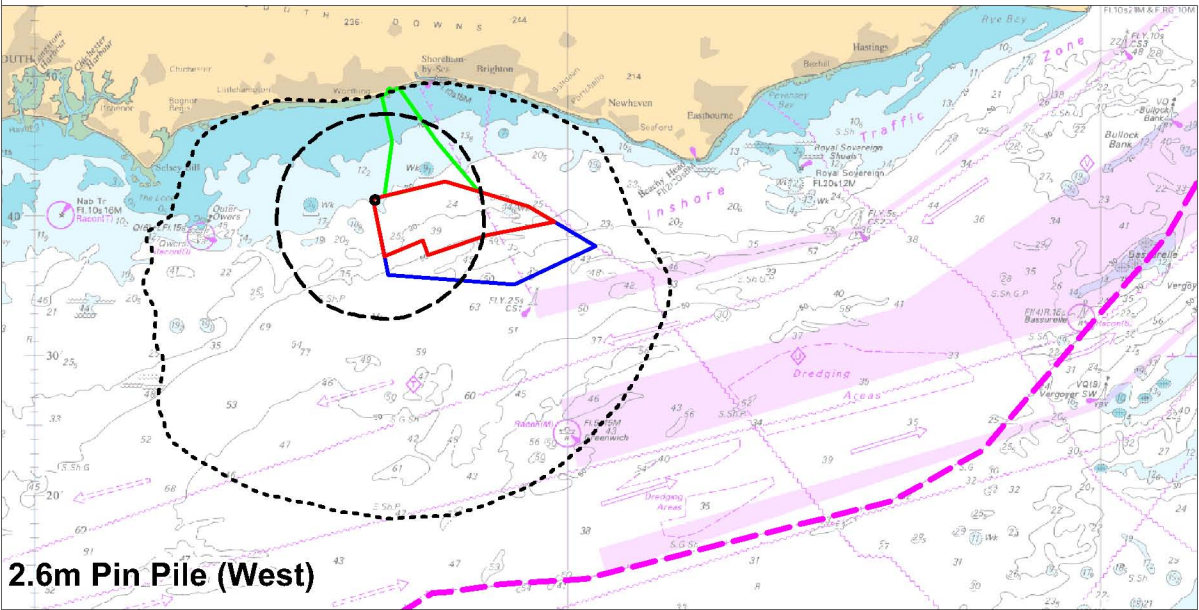
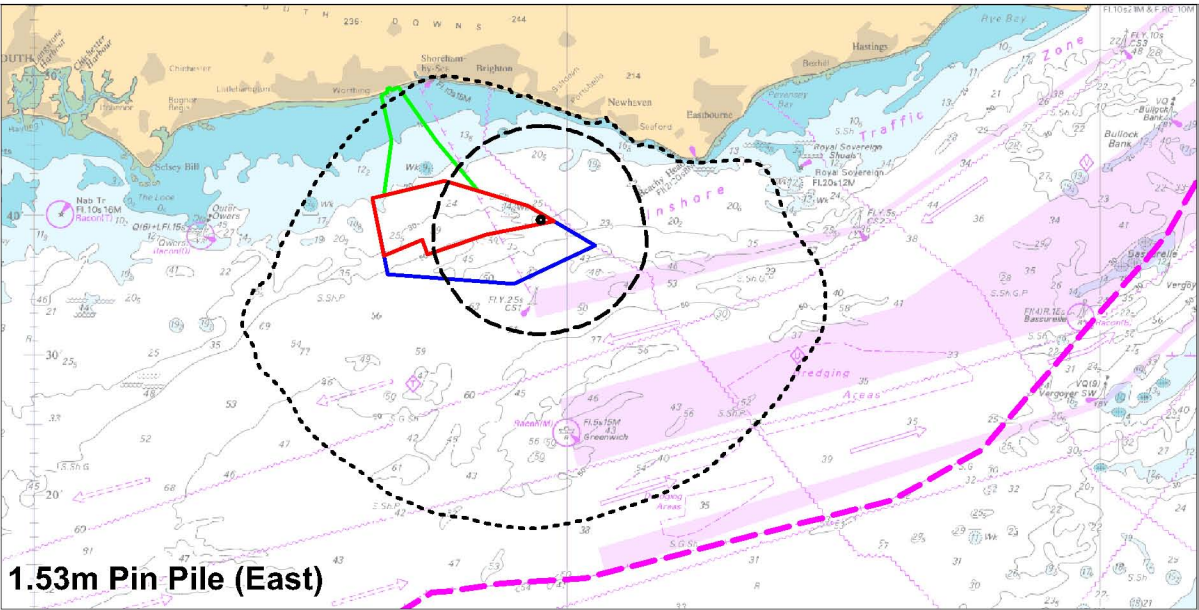
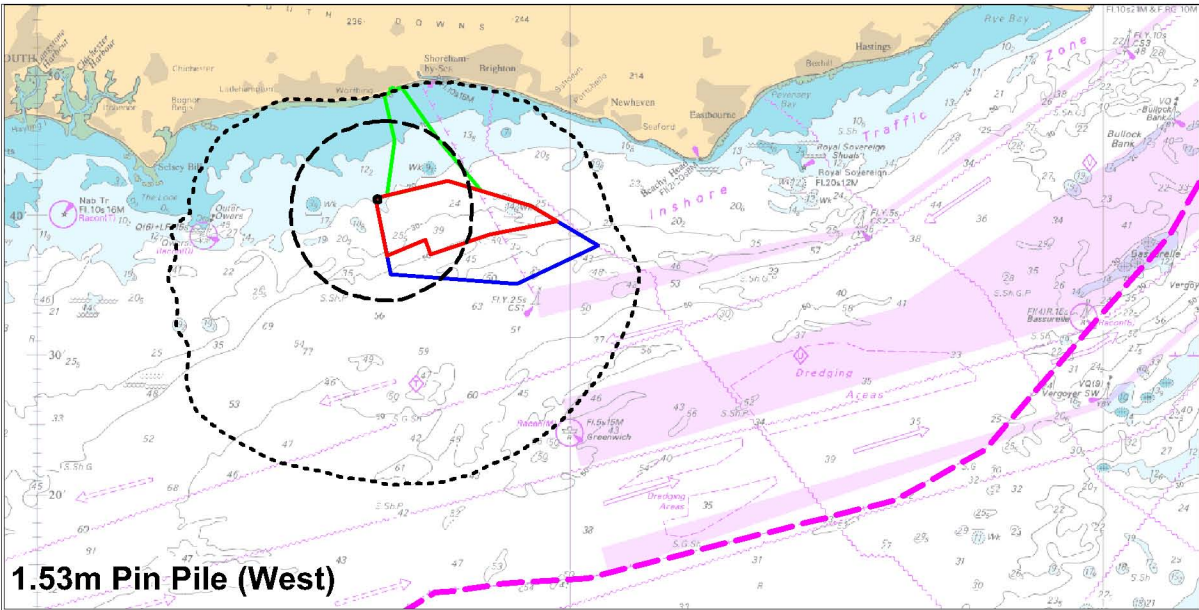


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Figure 10.13: Contour Plot Showing the Estimated M-Weighted SEL Impact Ranges for Marine Mammals for the 6.5m Monopile in the East of the Rampion Project Site



REV 00



Legend

- The Crown Estate Zone 6
- Rampion Offshore Wind Farm Site
- Export Cable Corridor
- International Boundary between England and France

Noise Contours

- 130 dBht (auditory damage)
- 90dBht (strong avoidance)
- 75dBht (significant avoidance)



Rev	Date	Description	Drn	Chk	App
01	15-10-12	New Boundary	LH	AM	DW
00	04.05.12	First Draft	LH	CF	DW

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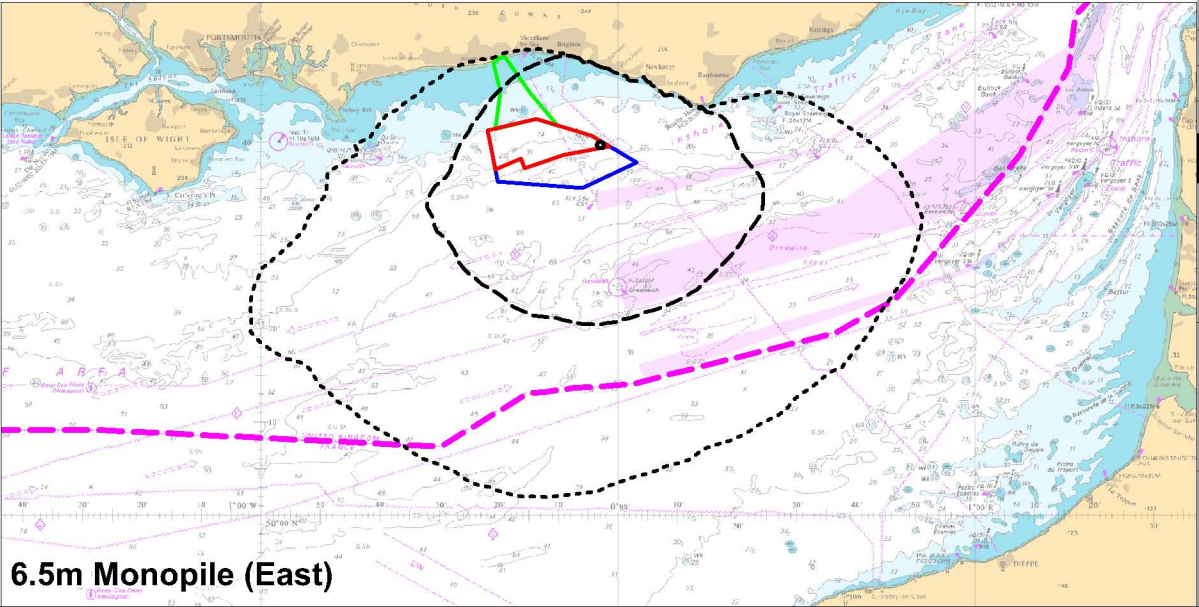
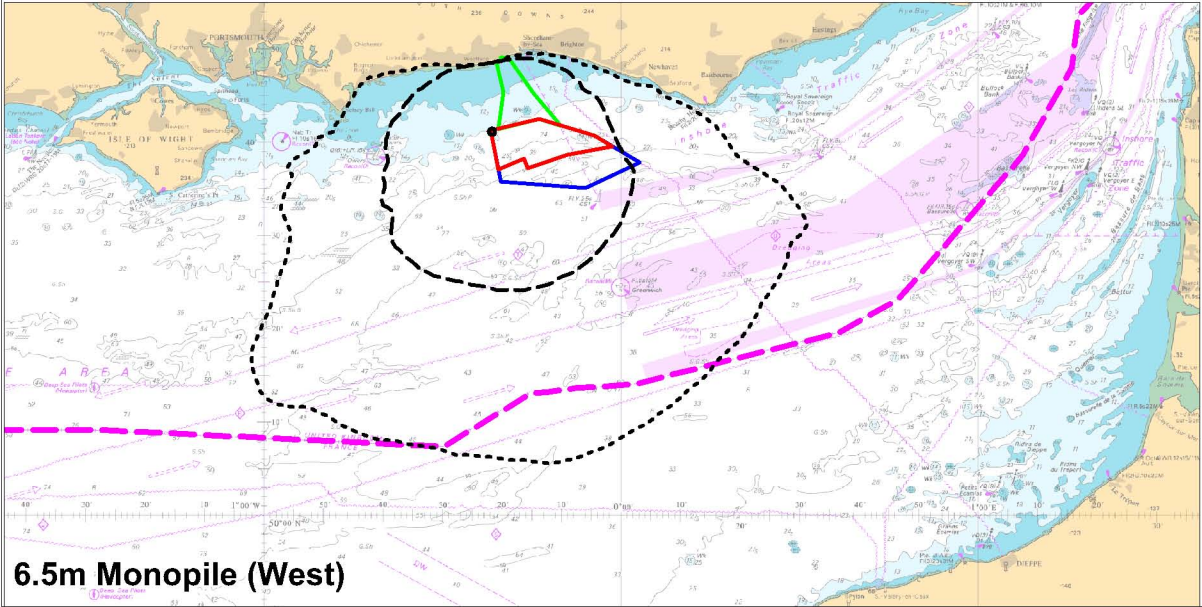
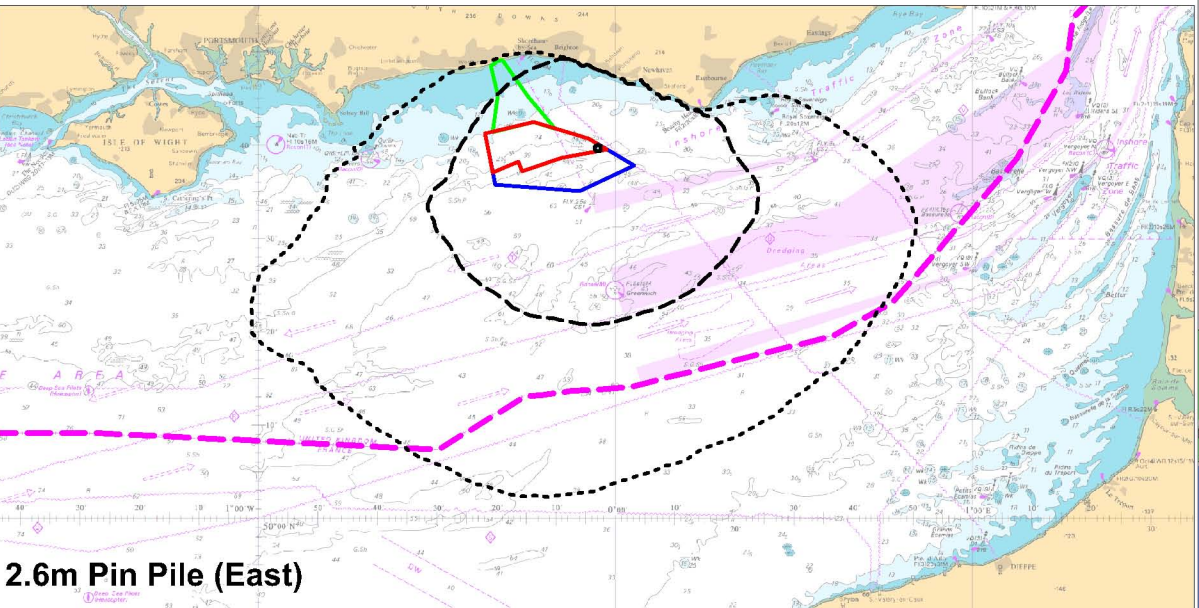
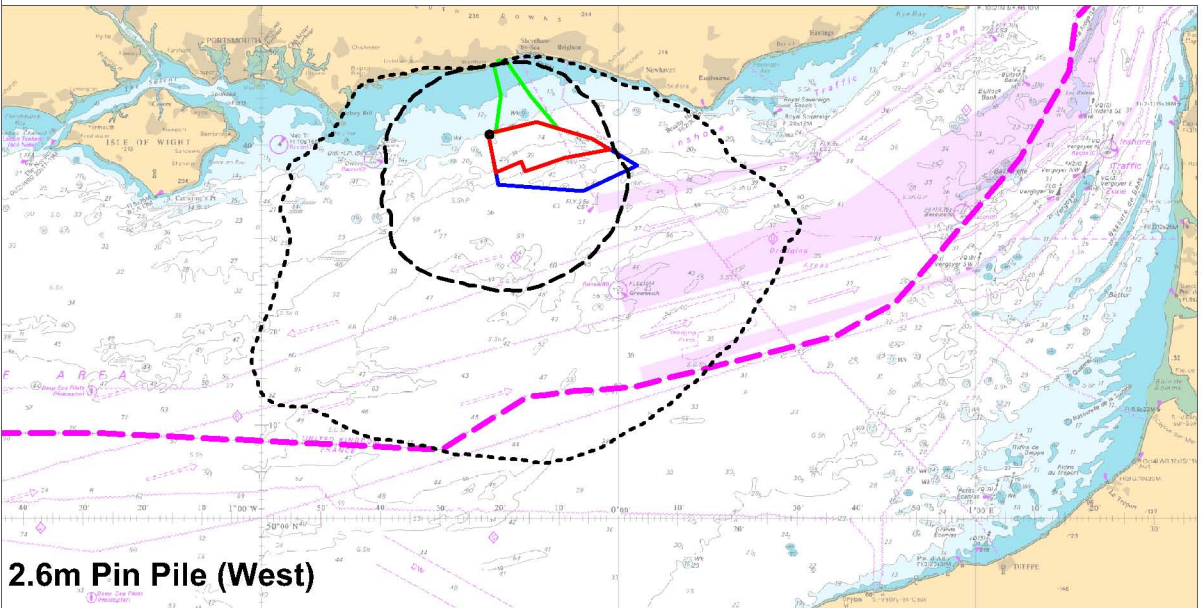
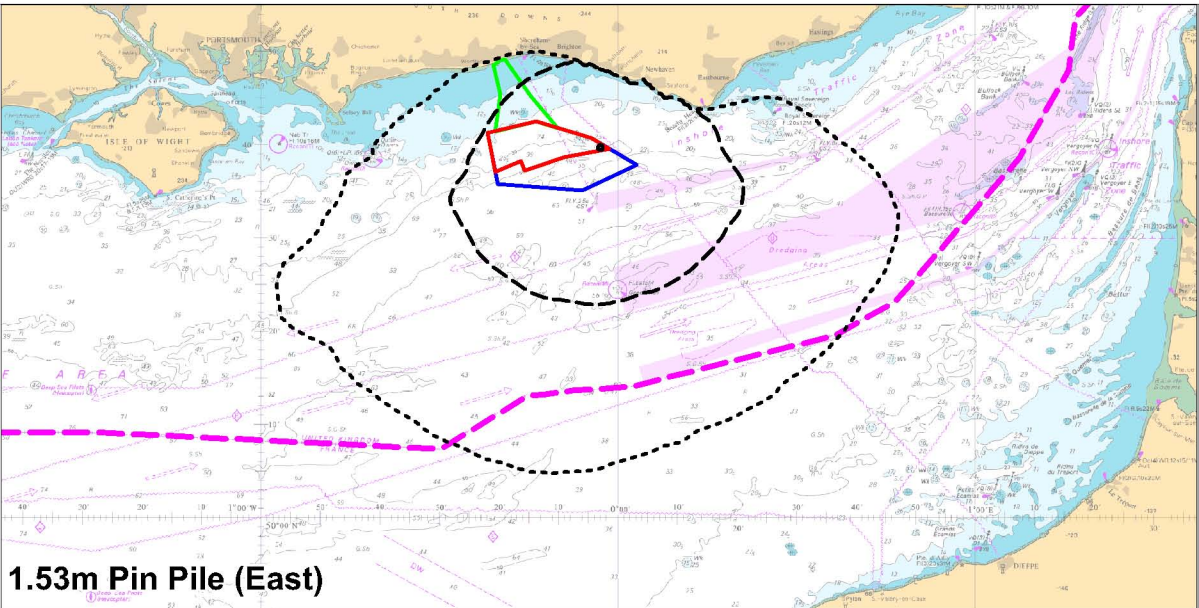
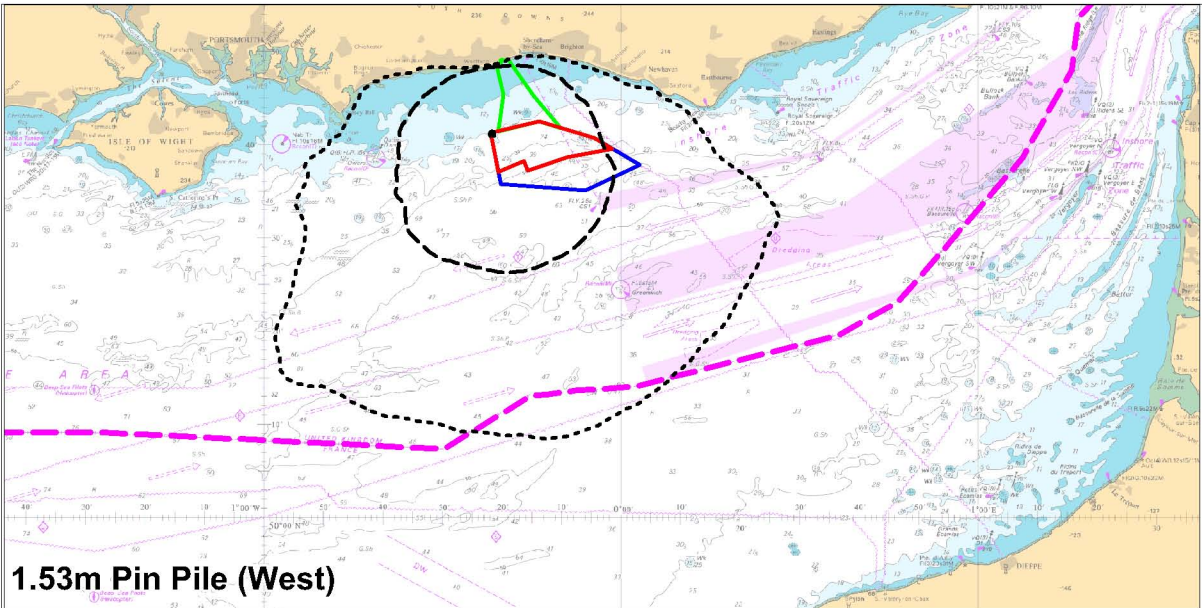
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Figure 10.14: Transboundary dBht metric noise contours with respect to harbour porpoise

0 15 30
kilometres
Scale = 1:1,000,000 @ A3

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W E
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REV 02



Legend

- The Crown Estate Zone 6
- Rampion Offshore Wind Farm Site
- Export Cable Corridor
- International Boundary between England and France

Noise Contours

- 130 dBht (auditory damage)
- 90dBht (strong avoidance)
- 75dBht (significant avoidance)



01	15-10-12	New Boundary	LH	AM	DW
00	04.05.12	First Draft	LH	CF	DW
Rev	Date	Description	Drm	Chk	App

Rampion Offshore Wind Farm

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Title:
Figure 10.15: Transboundary dBht metric noise contours with respect to humpback whale (surrogate for minke whale)

0 20 40
kilometres

Scale = 1:1,000,000 @ A3

REV 02