

# Rampion 2 Wind Farm

## Category 6: Environmental Statement

### Volume 3, Chapter 21: Noise and Vibration – Figures

**Date: January 2024**  
**Revision B**

Document Reference: 6.3.21

Pursuant to: APFP Regulation 5 (2) (a)

Ecodoc number: 004884768-02



## Document revisions

Revision	Date	Status/reason for issue	Author	Checked by	Approved by
A	04/08/2023	Final for DCO Application	WSP	RED	RED
B	16/01/2024	Updates to Figures 21.2a-m to correct HDD references and inclusion of new noise monitoring locations.	WSP	RED	RED

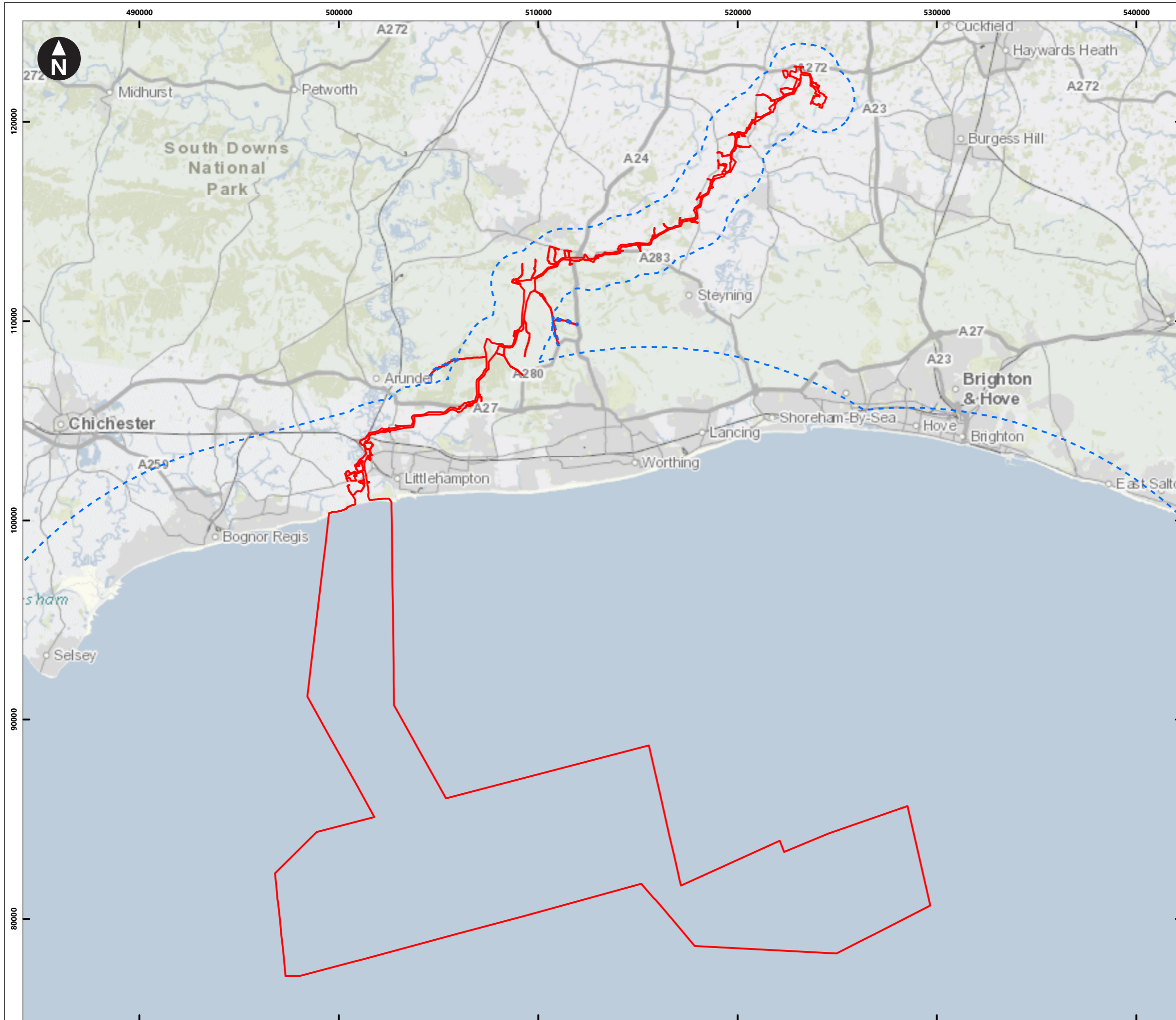
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**Key**

- Proposed DCO Order Limits
- Noise and vibration Study Area

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 Kilometres  
 1:184,710  
 British National Grid Transverse Mercator

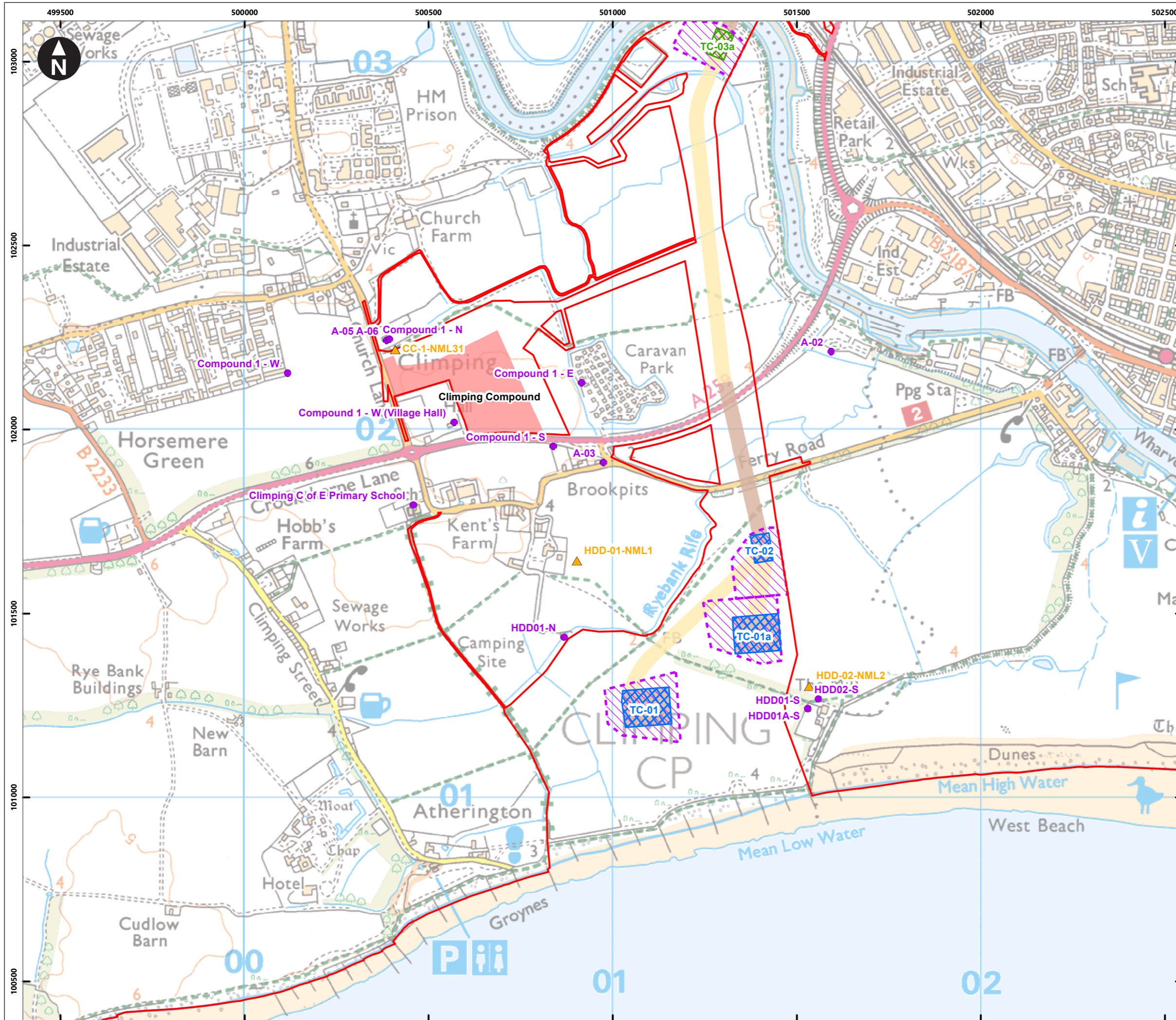
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 21.1 Noise and vibration Study Area

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-ON-5964		Version: 1.0	
Company: WSP	Drawn By: COLLJ	Chk/Aprvd: EVANM	Drawn Date: 28/07/2023
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**Key**

- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation
- Temporary construction compound

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section

Kilometres

0 0.05 0.1 0.2 0.3 0.4

1:10,000

British National Grid Transverse Mercator

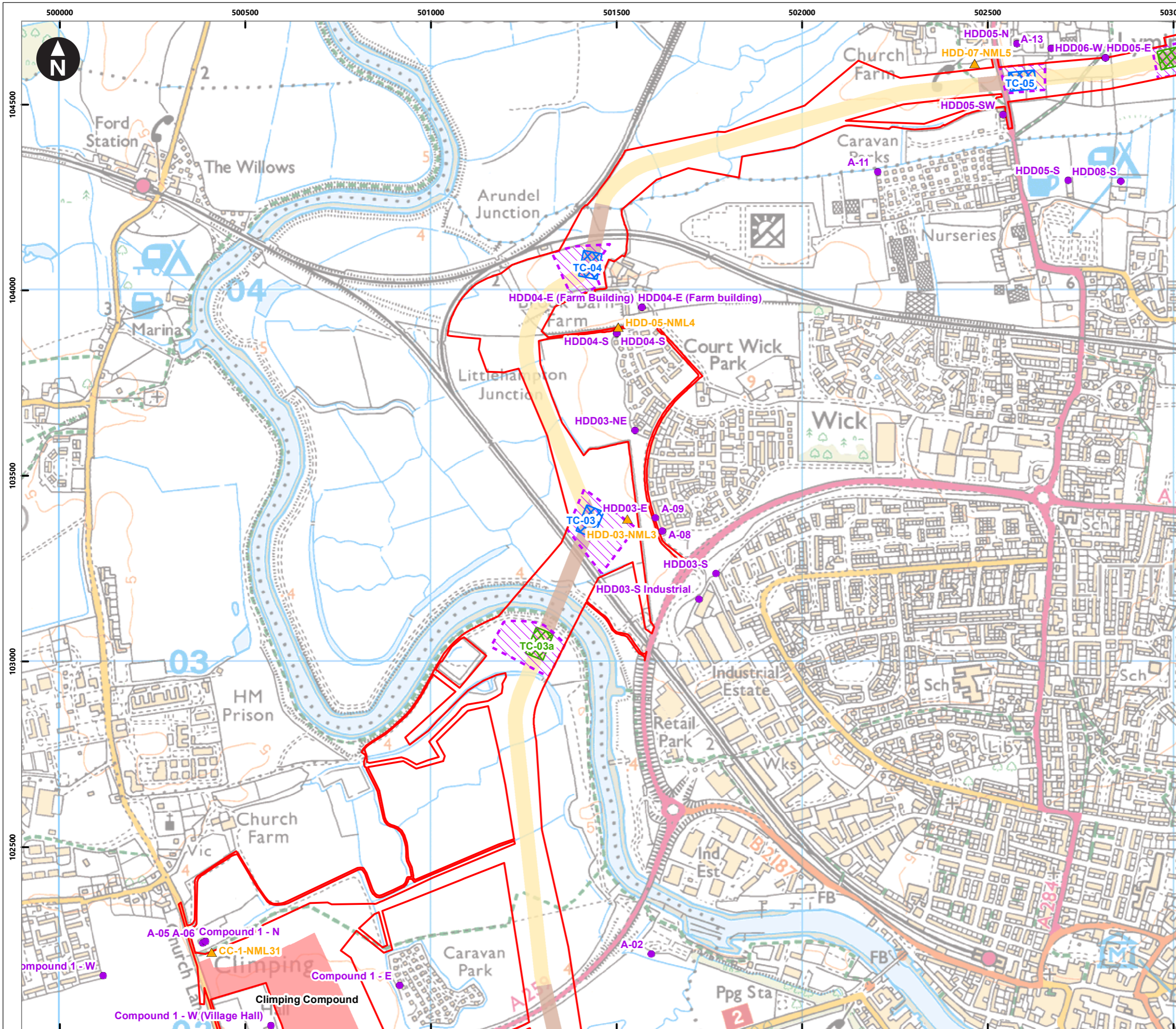
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Rampion 2 Offshore Wind Farm

Figure 21.2a Monitoring and Receptor locations

Environmental Statement

System Identifier: 42285-WSPE-EX-ON-FG-ON-9298		Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Aprvd: EVANM
Drawn Date: 11/01/2024	Status: FINAL	



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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation
- Temporary construction compound

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

Rampion Extension Development

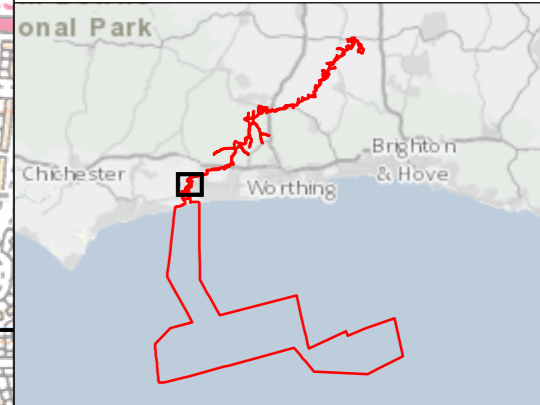
**Rampion 2 WIND FARM**

Rampion 2 Offshore Wind Farm

Figure 21.2b Monitoring and Receptor locations

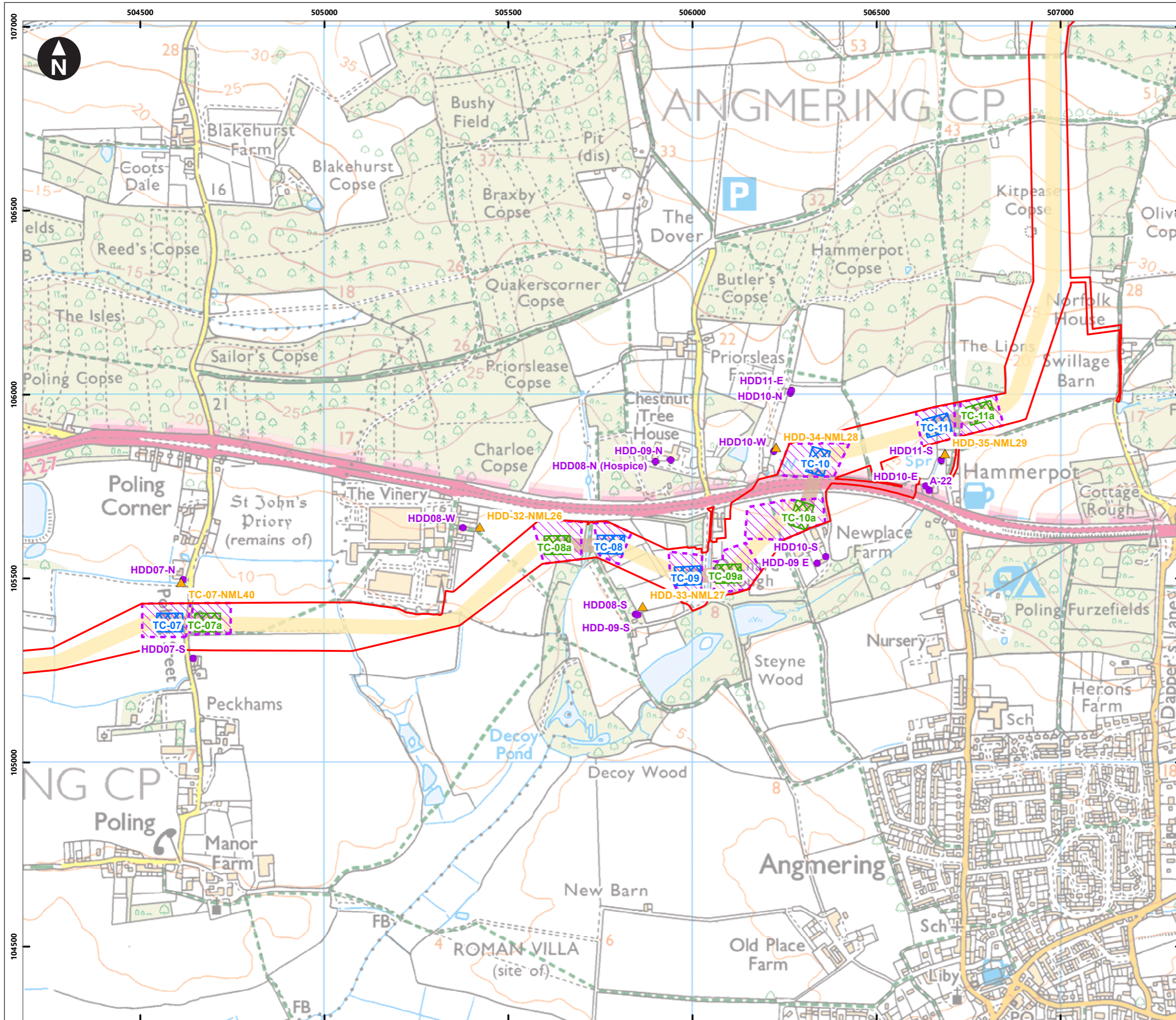
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Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM	Drawn Date: 11/01/2024	Status: FINAL









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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section

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 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

Rampion Extension Development

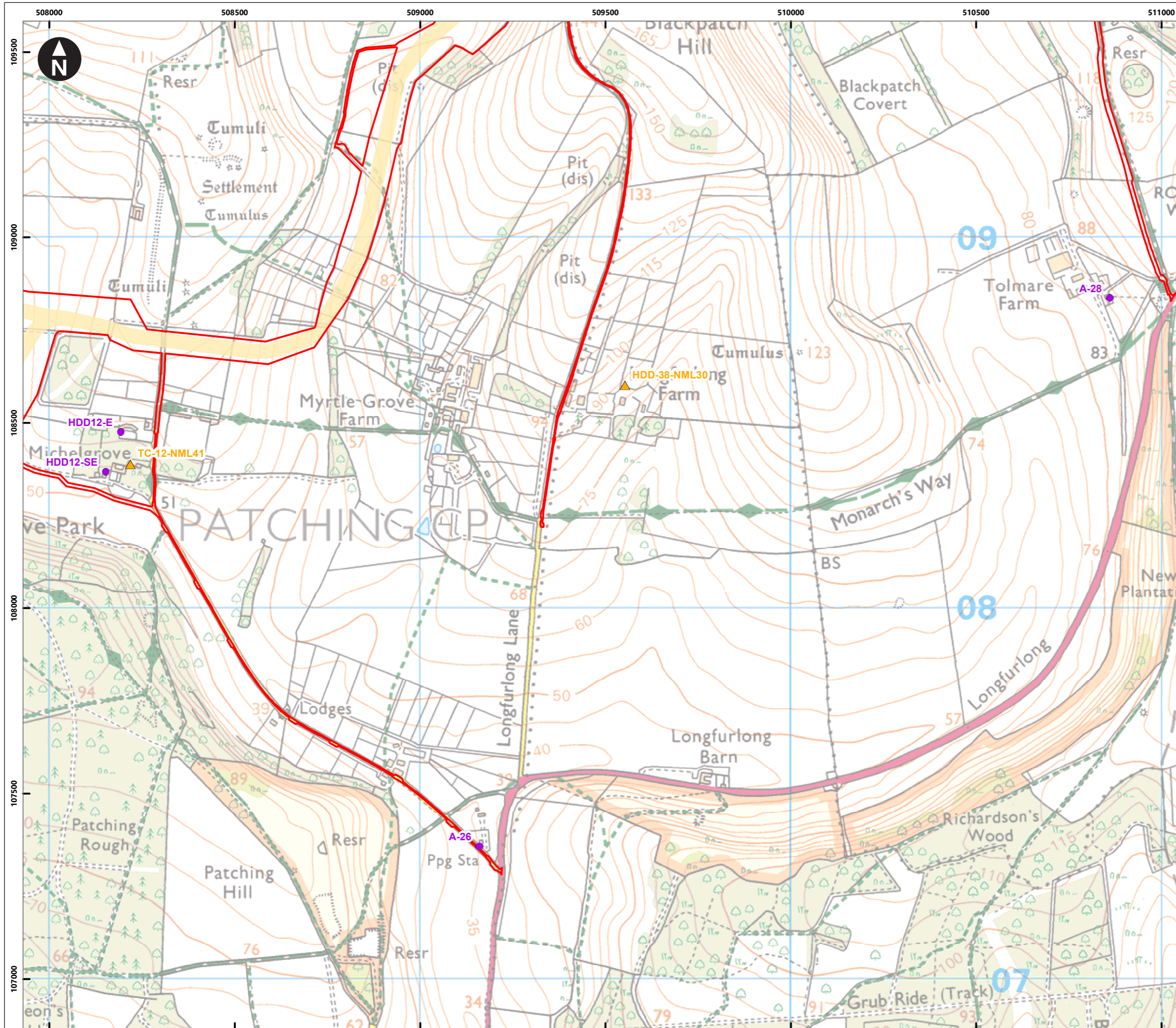
**Rampion 2 WIND FARM**

Rampion 2 Offshore Wind Farm

Figure 21.2d Monitoring and Receptor locations

Environmental Statement

System Identifier: 42285-WSPE-EX-ON-FG-ON-9298		Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Prvd: EVANM
Drawn Date: 11/01/2024	Status: FINAL	



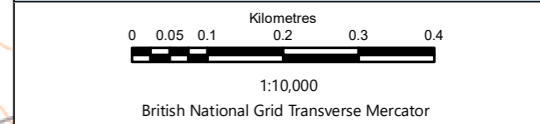
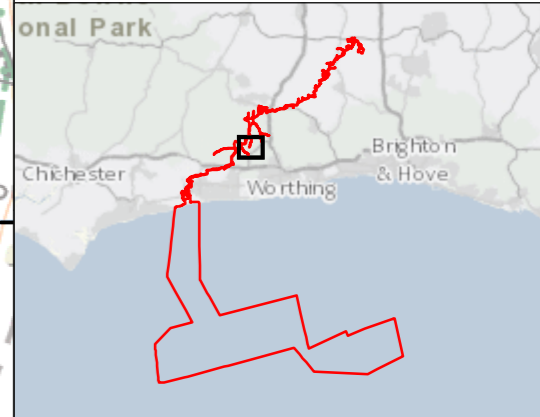
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**Key**

- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations

Proposed onshore cable construction corridor

- Indicative open cut section



Rampion Extension Development

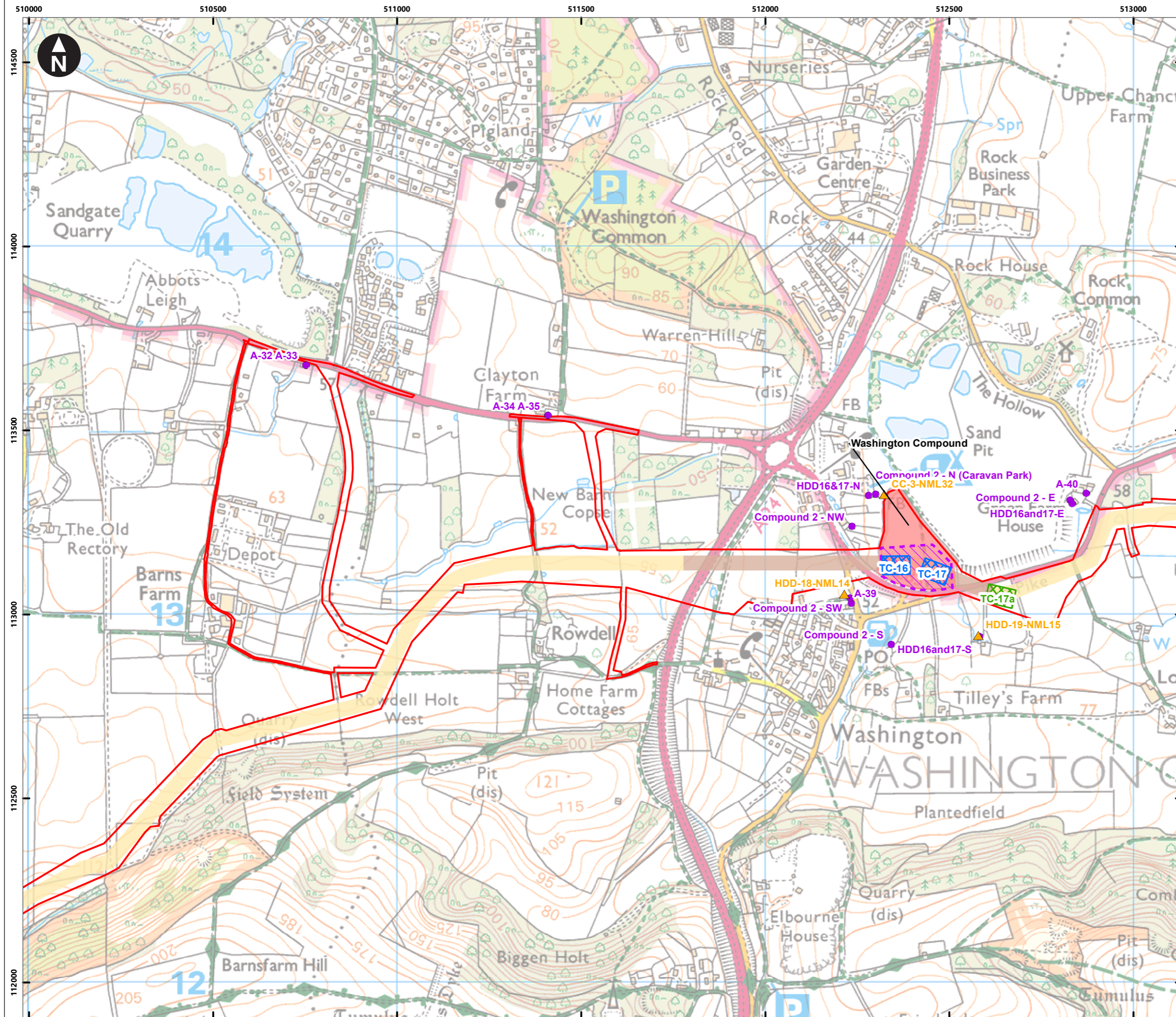
Rampion 2 Offshore Wind Farm

Figure 21.2e Monitoring and Receptor locations

Environmental Statement

System Identifier:	Version:
42285-WSPE-EX-ON-FG-ON-9298	1.0

Company:	Drawn By:	Chk/Aprvd:	Drawn Date:	Status:
WSP	COLLJ	EVANM	11/01/2024	FINAL



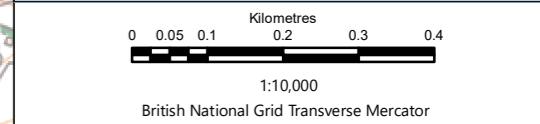
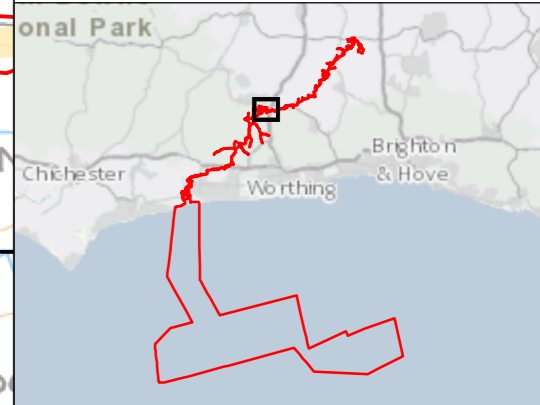
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**Key**

- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation
- Temporary construction compound

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section



Rampion Extension Development

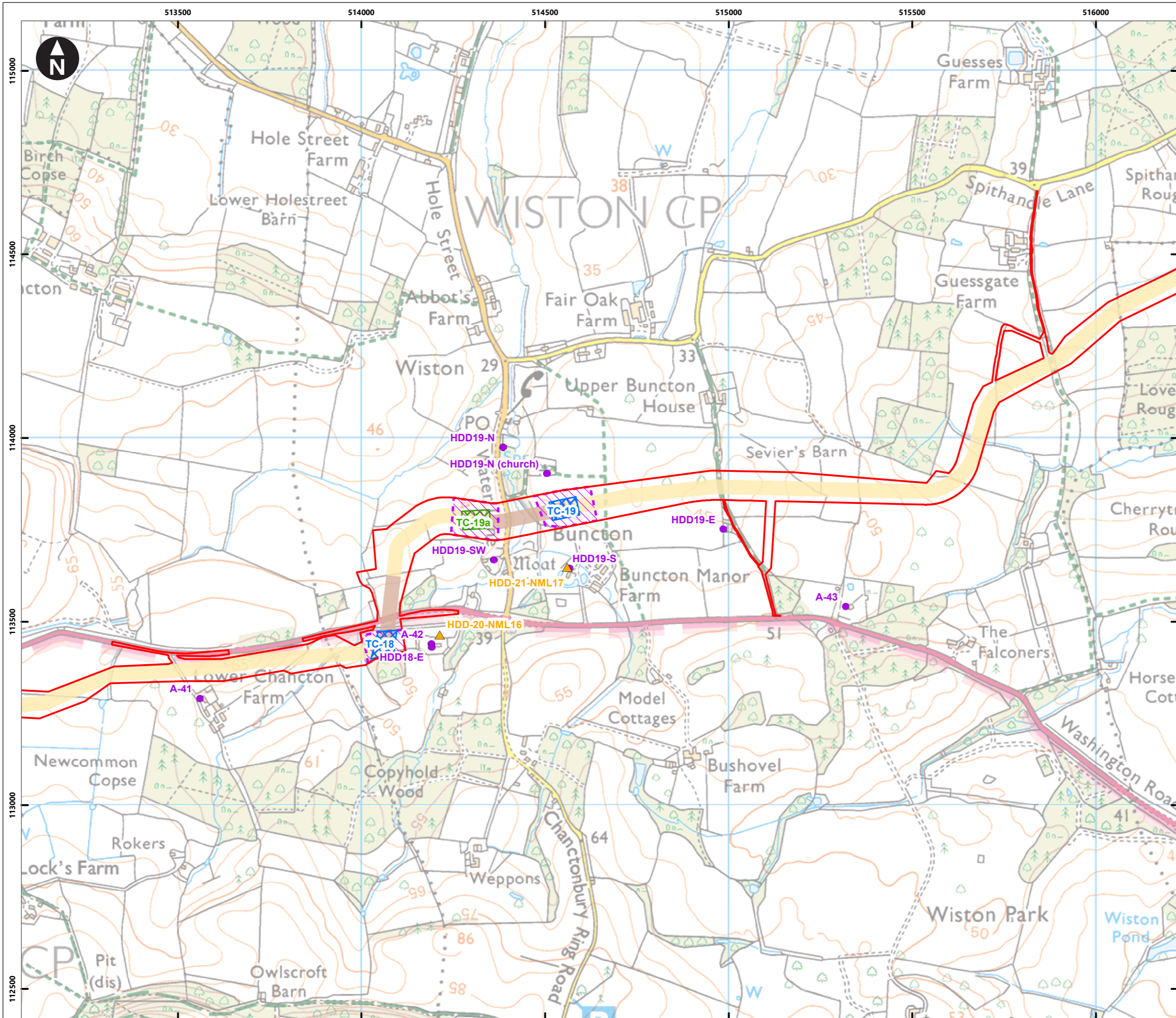
Rampion 2 Offshore Wind Farm

Figure 21.2f Monitoring and Receptor locations

Environmental Statement

System Identifier:	Version:
42285-WSP-EX-ON-FG-ON-9298	1.0

Company:	Drawn By:	Chk/Prvrd:	Drawn Date:	Status:
WSP	COLLJ	EVANM	11/01/2024	FINAL



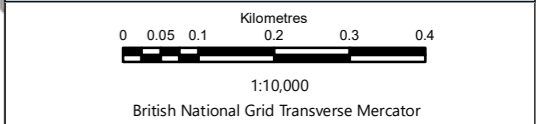
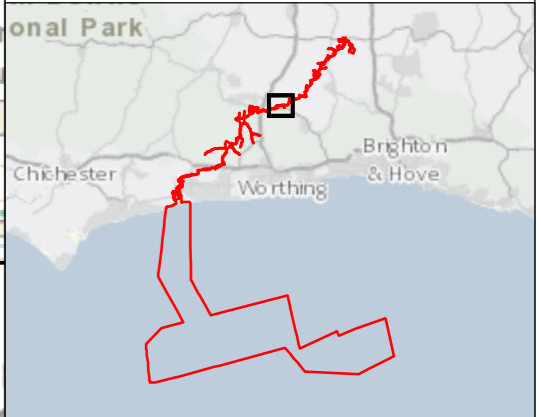
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**Key**

- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section



Rampion Extension Development



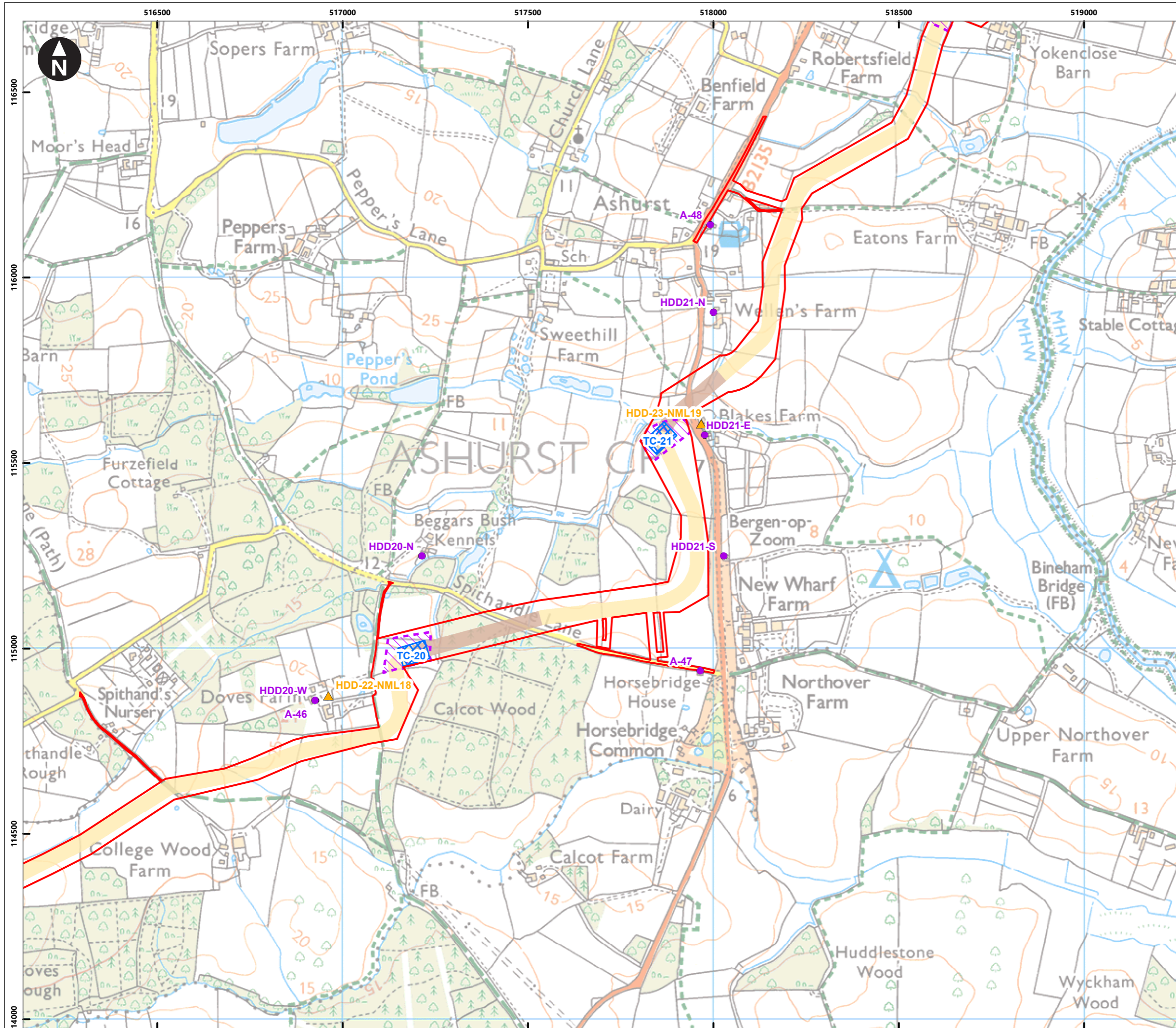
Rampion 2 Offshore Wind Farm

Figure 21.2g Monitoring and Receptor locations

Environmental Statement

System Identifier: 42285-WSPE-EX-ON-FG-ON-9298	Version: 1.0
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Company: WSP	Drawn By: COLLJ	Chk/Aprvd: EVANM	Drawn Date: 11/01/2024	Status: FINAL
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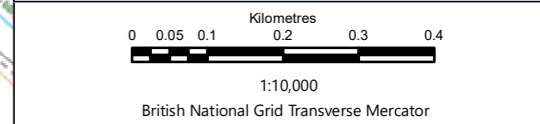
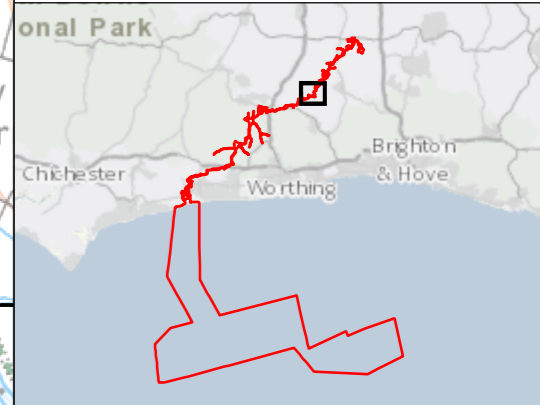
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**Key**

- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) limits of deviation

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section



Rampion Extension Development

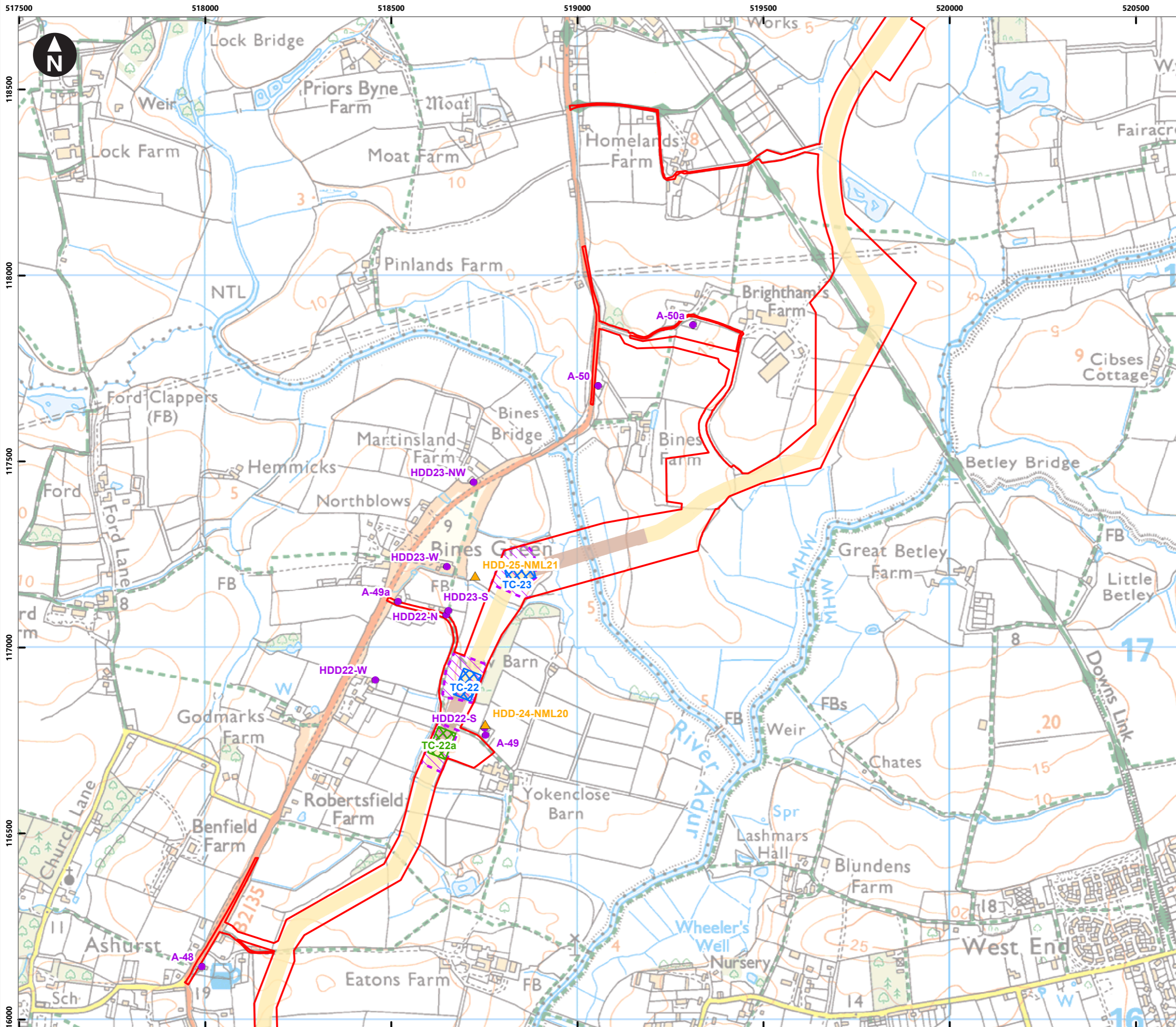


Rampion 2 Offshore Wind Farm

Figure 21.2h Monitoring and Receptor locations

Environmental Statement

System Identifier: 42285-WSP-EX-ON-FG-ON-9298				Version: 1.0
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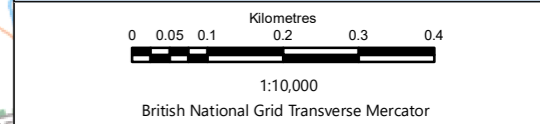
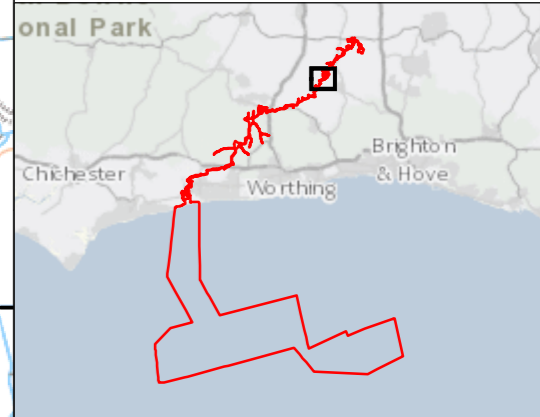
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**Key**

- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section



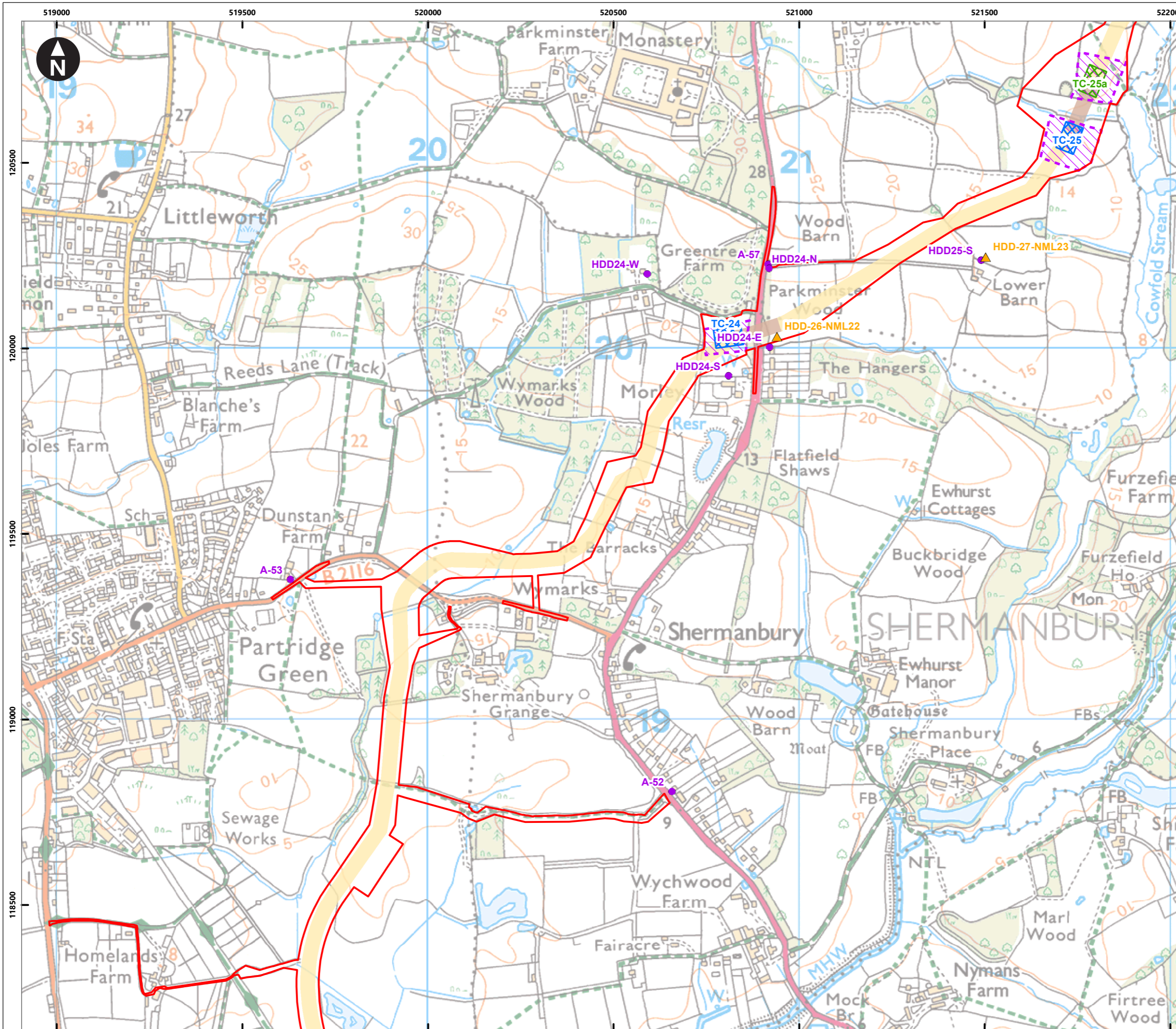
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 21.2i Monitoring and Receptor locations

Environmental Statement

System Identifier: 42285-WSP-EX-ON-FG-ON-9298				Version: 1.0
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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

Proposed onshore cable construction corridor

- Indicative trenchless section
- Indicative open cut section

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

Rampion Extension Development

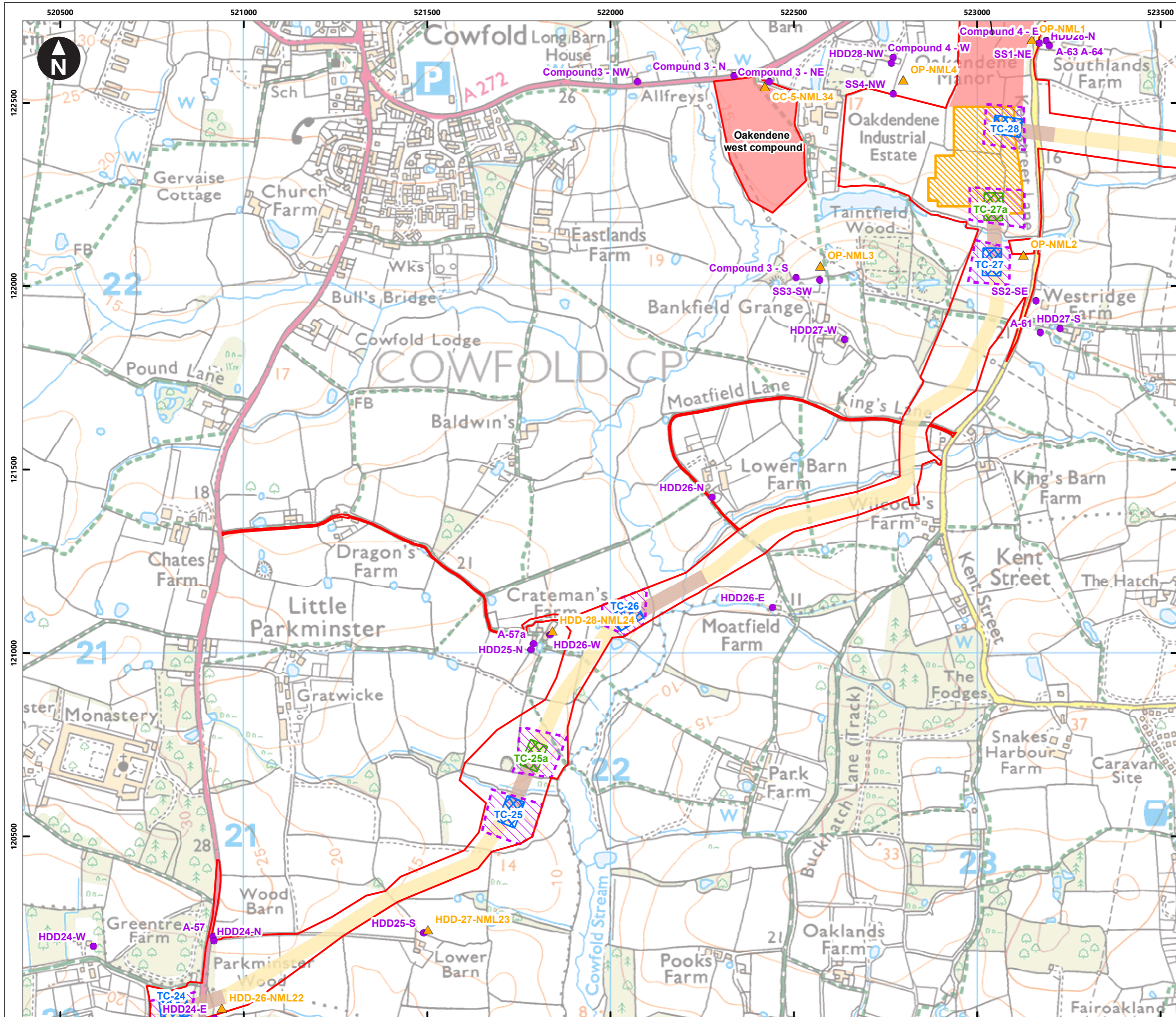
**Rampion 2 WIND FARM**

Rampion 2 Offshore Wind Farm

Figure 21.2j Monitoring and Receptor locations

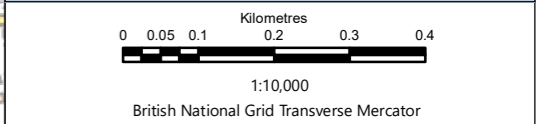
Environmental Statement

System Identifier: 42285-WSPE-EX-ON-FG-ON-9298	Version: 1.0			
Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM	Drawn Date: 11/01/2024	Status: FINAL



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- Key**
- Proposed DCO Order Limits
  - ▲ Monitoring locations
  - Receptor locations
  - Onshore substation site
  - Trenchless Crossing (TC) compounds
  - Trenchless Crossing (TC) compound alternatives
  - Trenchless Crossing (TC) limits of deviation
  - Temporary construction compound
- Proposed onshore cable construction corridor
- Indicative trenchless section
  - Indicative open cut section

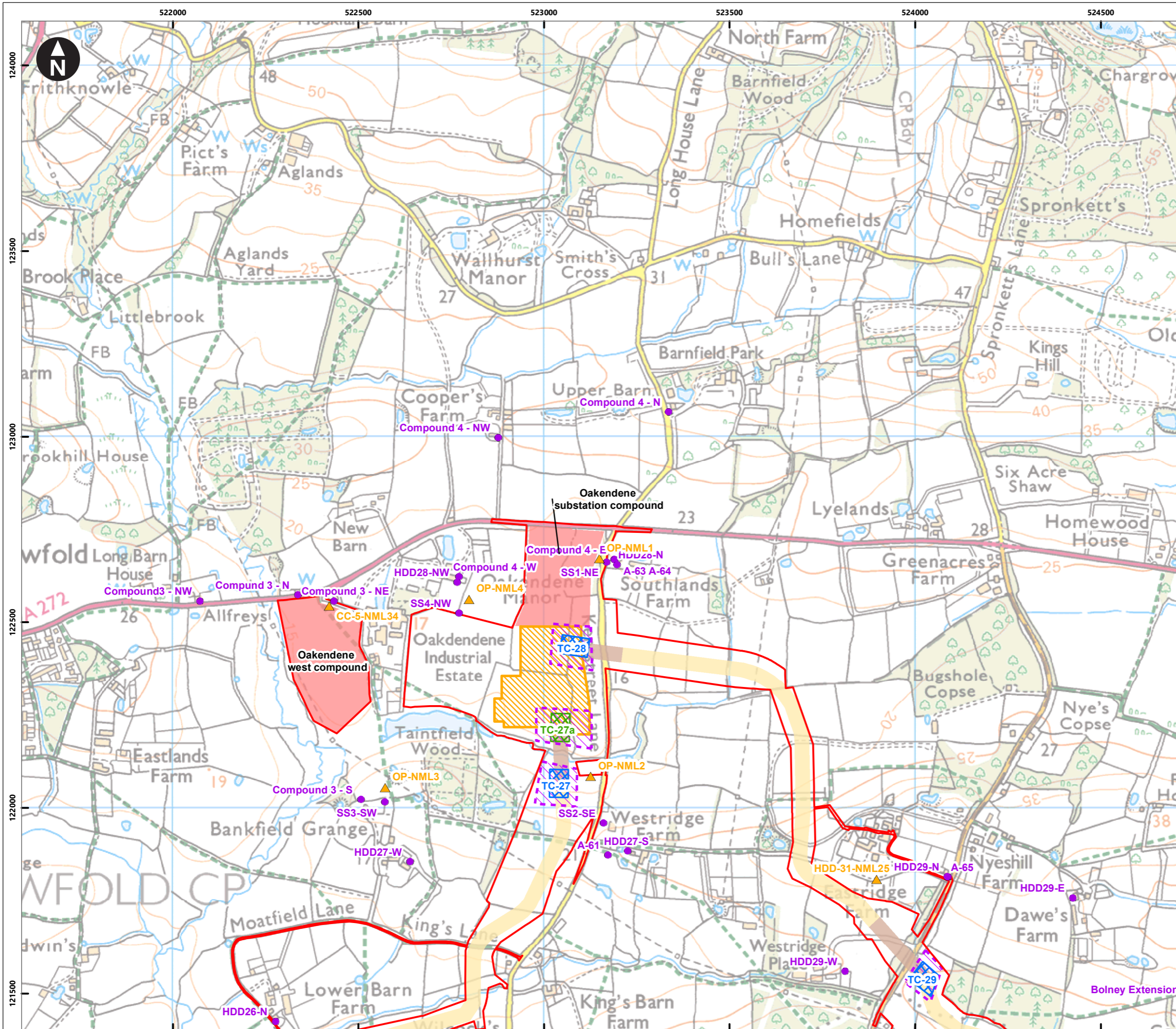


Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.2k Monitoring and Receptor locations  
 Environmental Statement

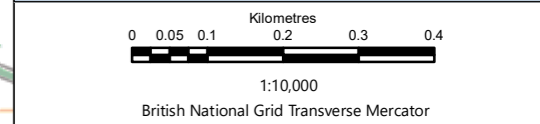
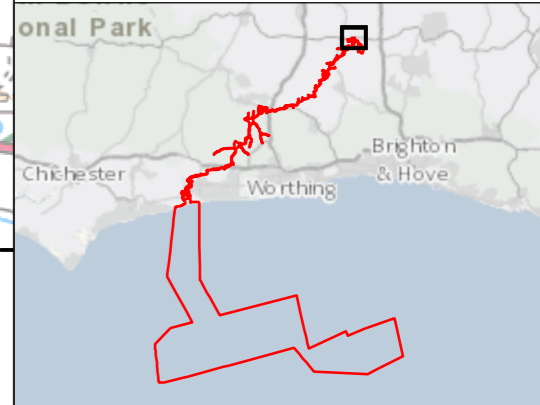
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- Key**
- Proposed DCO Order Limits
  - ▲ Monitoring locations
  - Receptor locations
  - Onshore substation site
  - Trenchless Crossing (TC) compounds
  - Trenchless Crossing (TC) compound alternatives
  - Trenchless Crossing (TC) limits of deviation
  - Temporary construction compound
- Proposed onshore cable construction corridor
- Indicative trenchless section
  - Indicative open cut section



Rampion Extension Development

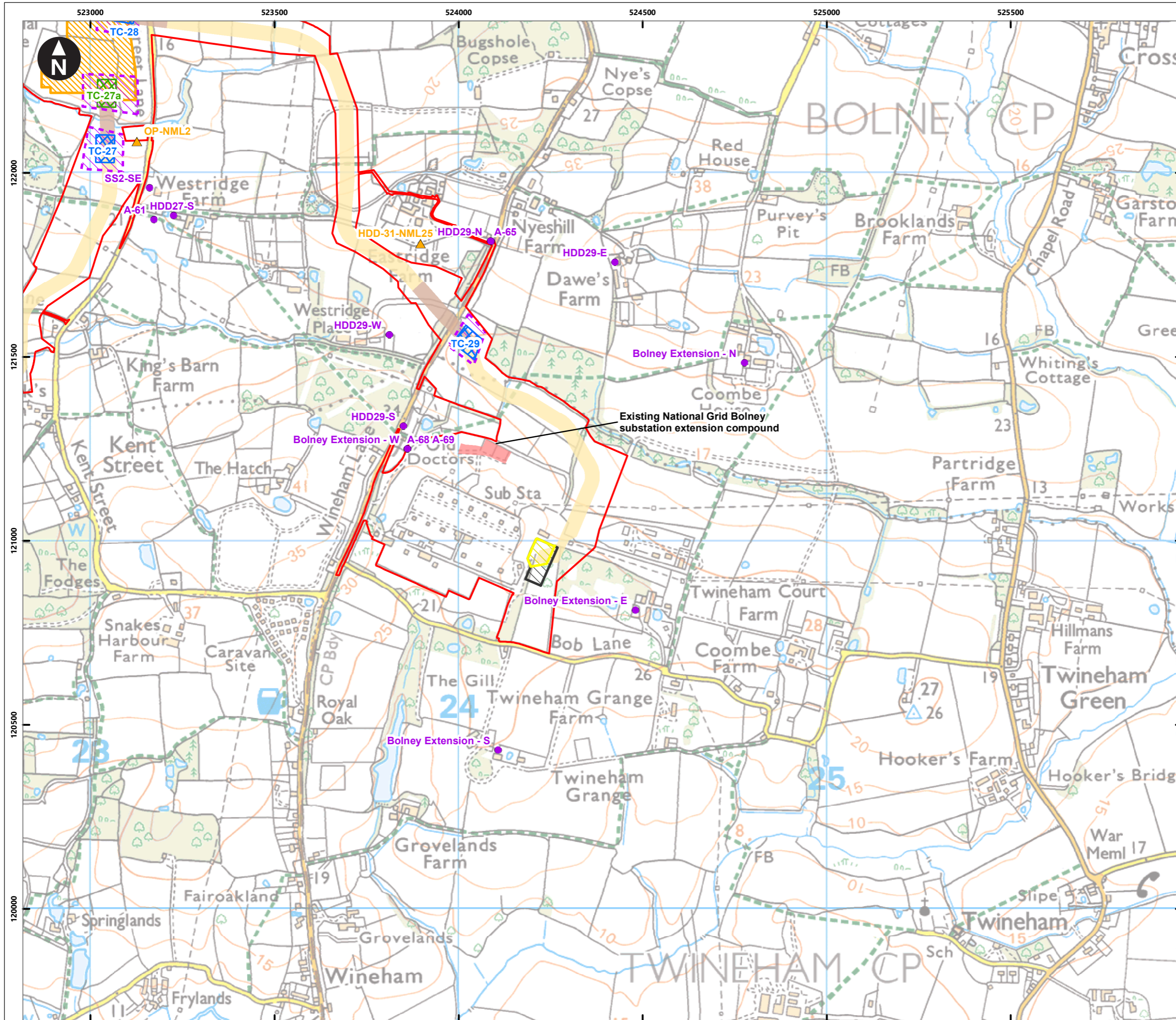
Rampion 2 Offshore Wind Farm

Figure 21.21 Monitoring and Receptor locations

Environmental Statement

System Identifier:	Version:
42285-WSP-EX-ON-FG-ON-9298	1.0

Company:	Drawn By:	Chk/Prvrd:	Drawn Date:	Status:
WSP	COLLJ	EVANM	11/01/2024	FINAL



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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Onshore substation site
- Bolney Substation extension (GIS)
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation
- Bolney Substation extension (AIS)
- Temporary construction compound
- Proposed onshore cable construction corridor
- Indicative trenchless section
- Indicative open cut section

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

Rampion Extension Development

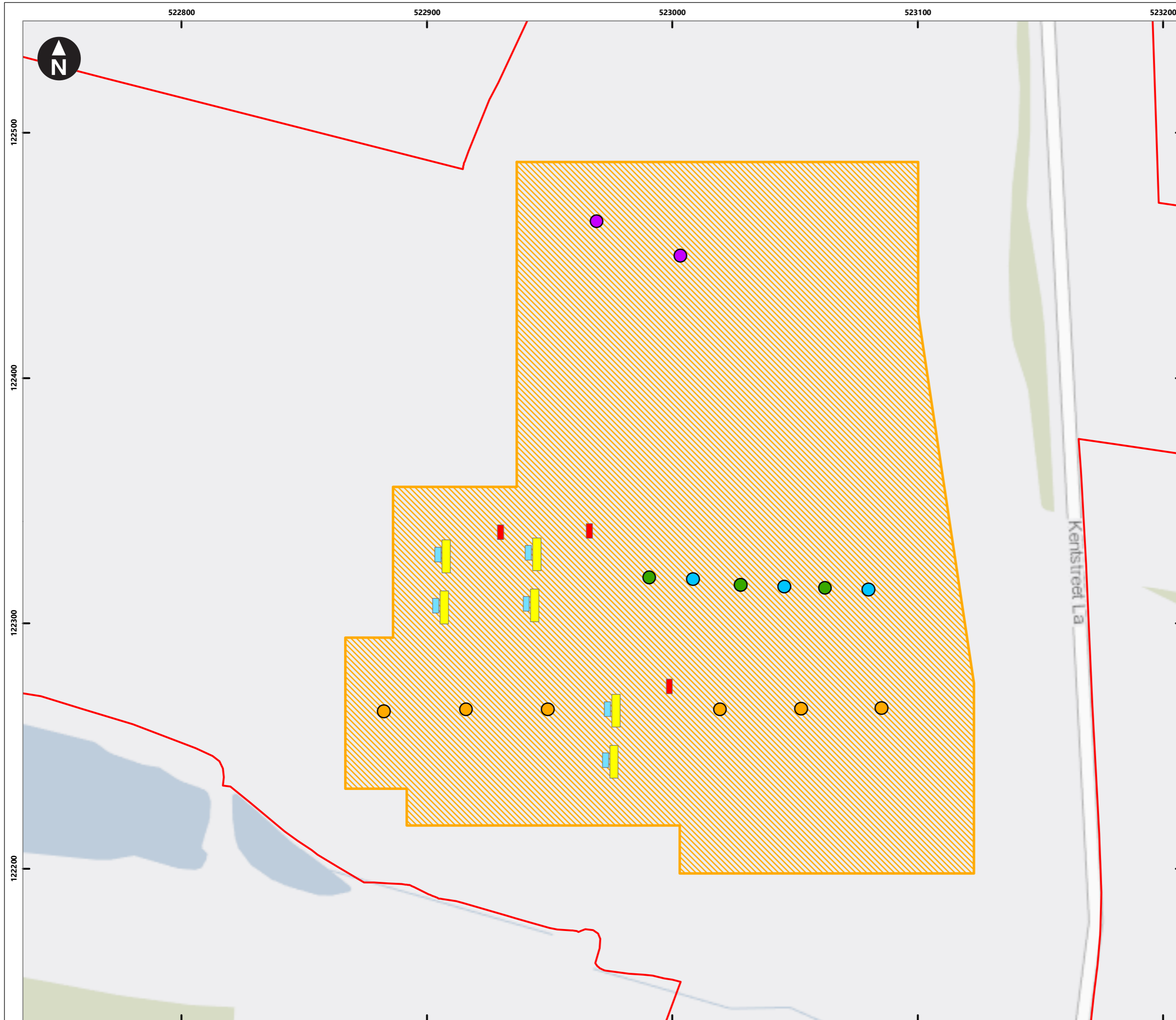
**Rampion 2 WIND FARM**

Rampion 2 Offshore Wind Farm

Figure 21.2m Monitoring and Receptor locations

Environmental Statement

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**Key**

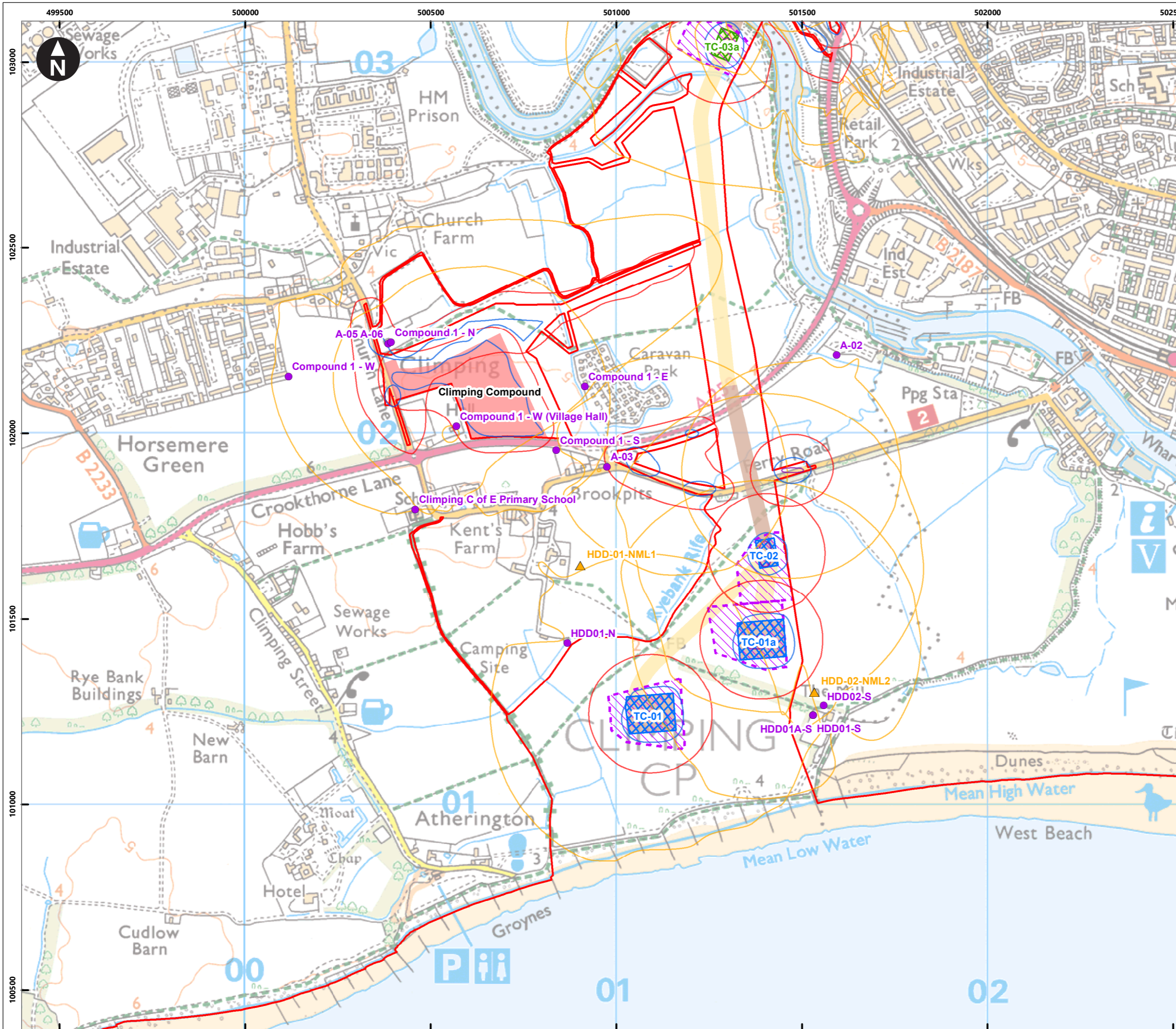
- Proposed DCO Order Limits
- Onshore substation site
- Statcom Heat Exchanger
- Statcom Cooling Unit
- Statcom Electrics
- Cooling Unit
- Harmonic Filter
- Main Transformer
- Shunt Reactor

0 0.0075 0.015 0.03 0.045 0.06  
 Kilometres  
 1:1,500  
 British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.3 Substation Model Layout  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-7698				Version: 1.0
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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Temporary construction compound
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

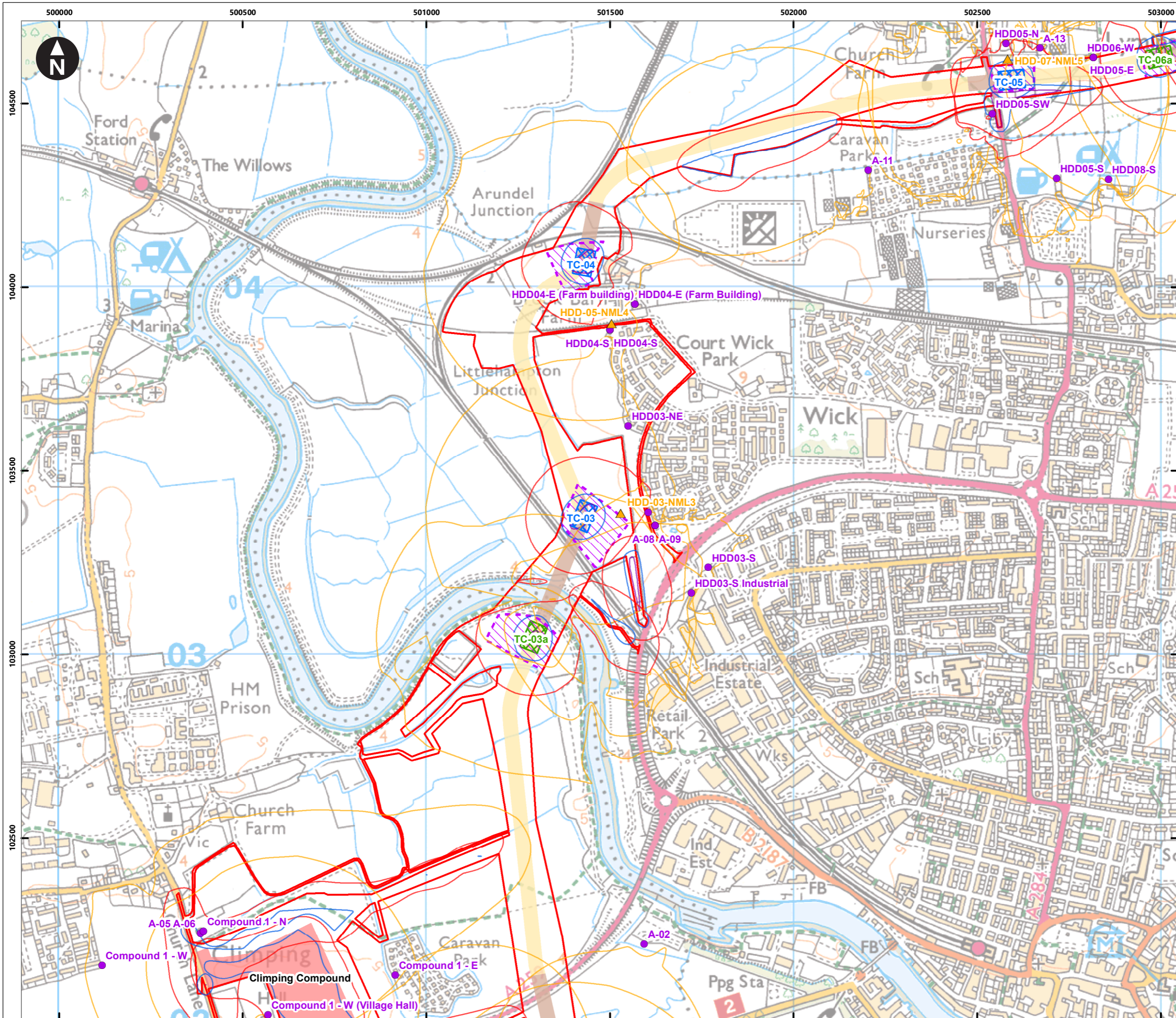
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 21.4a Construction Noise Contours

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429		Version: 1.0
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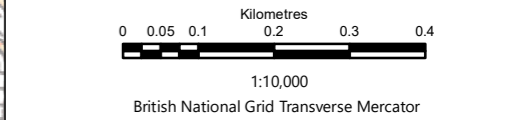
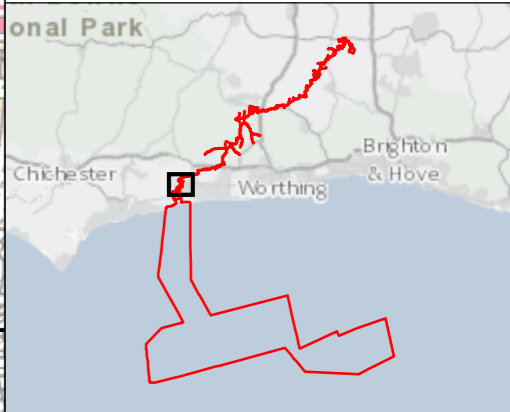
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Temporary construction compound
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

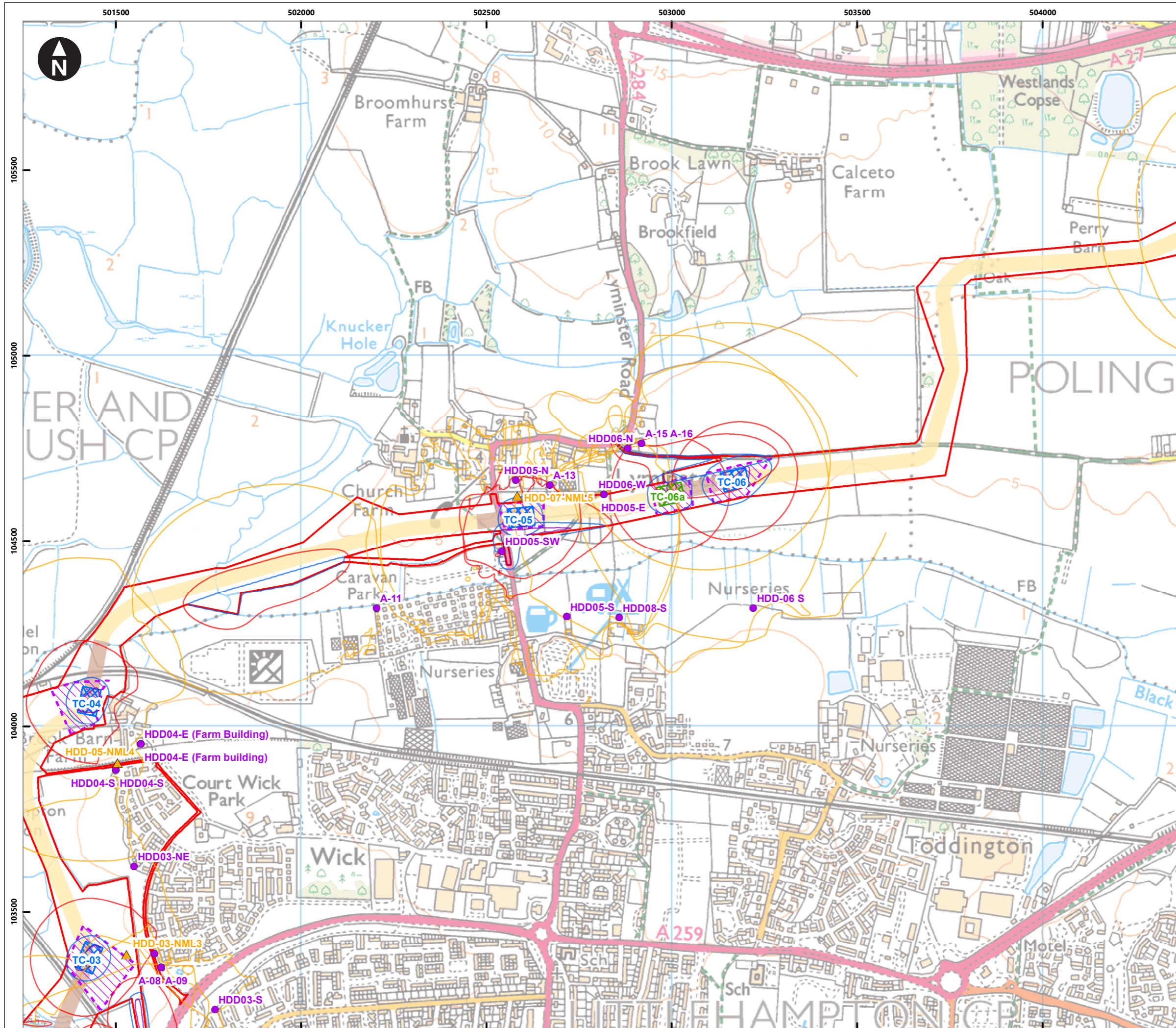


Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.4b Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429	Version: 1.0
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Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM	Drawn Date: 28/07/2023	Status: FINAL
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**Key**

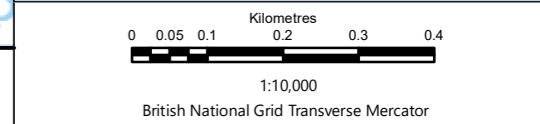
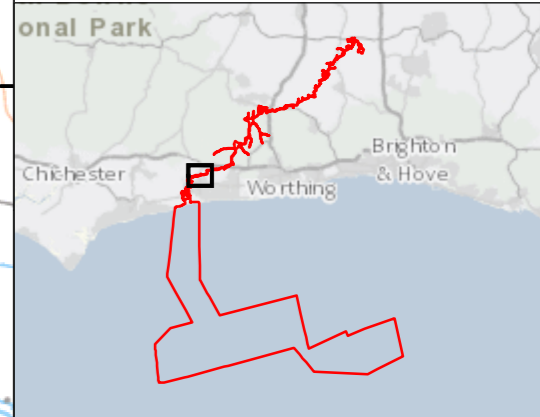
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

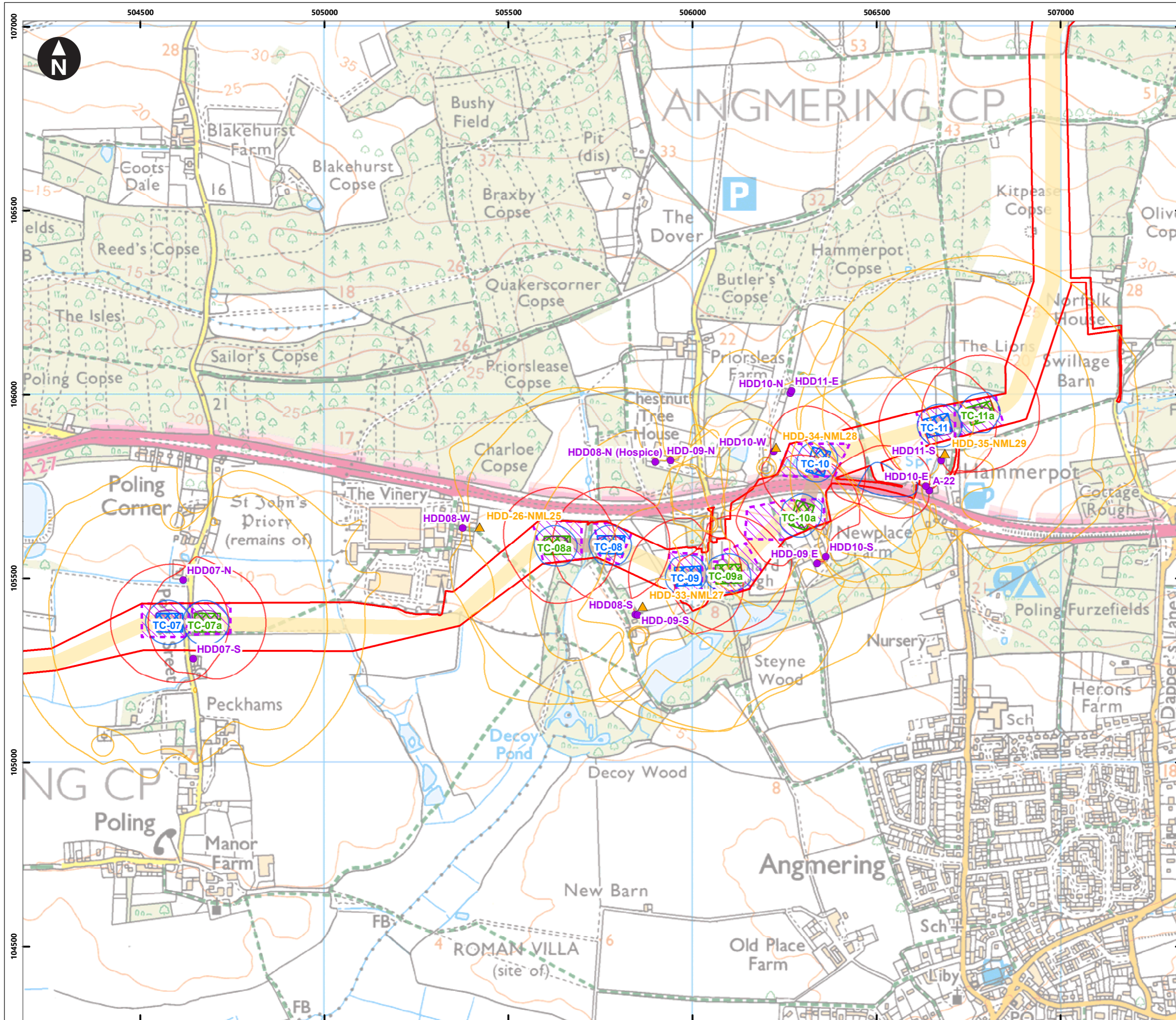


Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.4c Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-ON-4429	Version: 1.0
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Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM	Drawn Date: 28/07/2023	Status: FINAL
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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

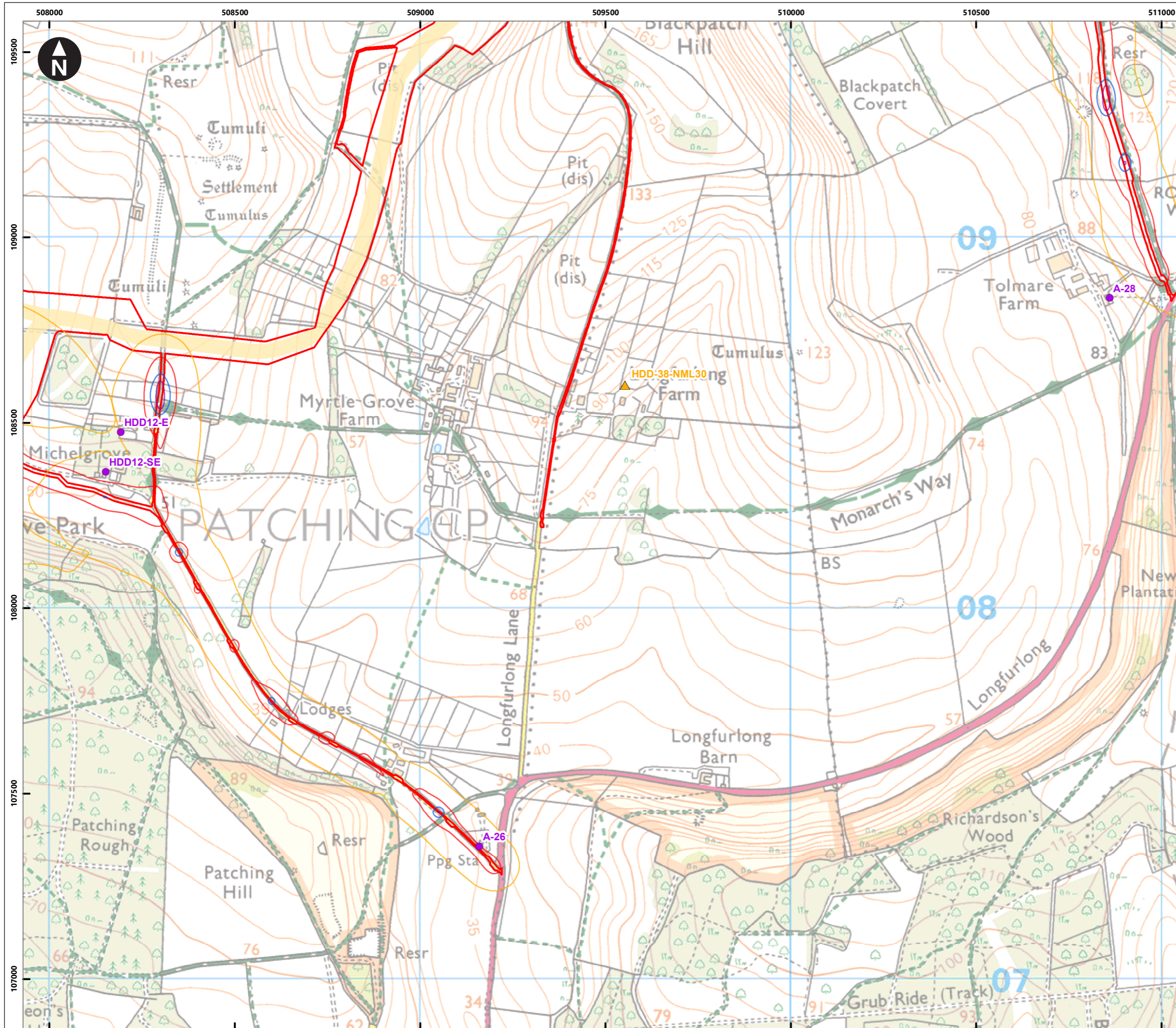
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 21.4d Construction Noise Contours

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429		Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM
Drawn Date: 28/07/2023	Status: FINAL	



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**Key**

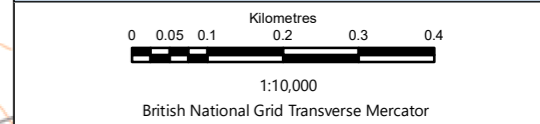
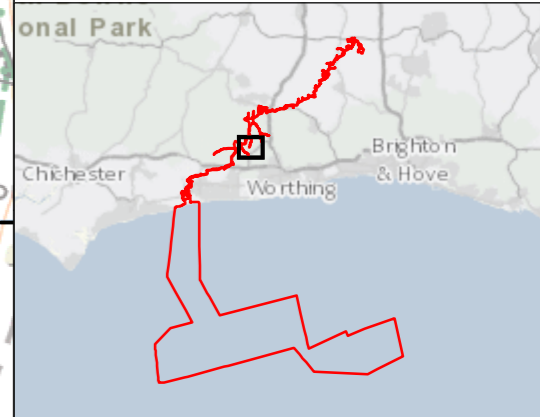
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations

**Proposed onshore cable construction corridor**

- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85



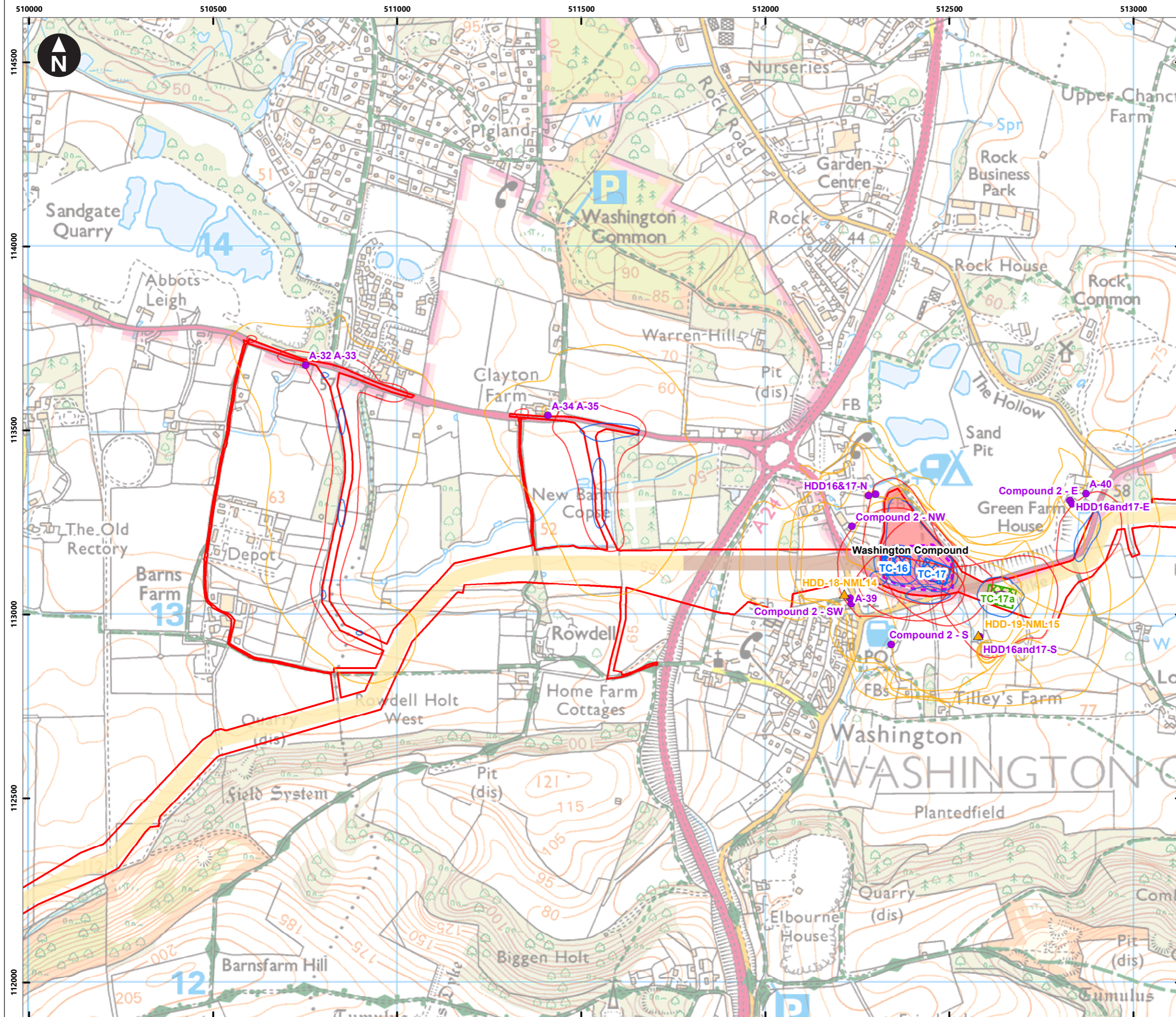
Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.4e Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-ON-4429	Version: 1.0
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Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM	Drawn Date: 28/07/2023	Status: FINAL
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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Temporary construction compound
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

Rampion Extension Development

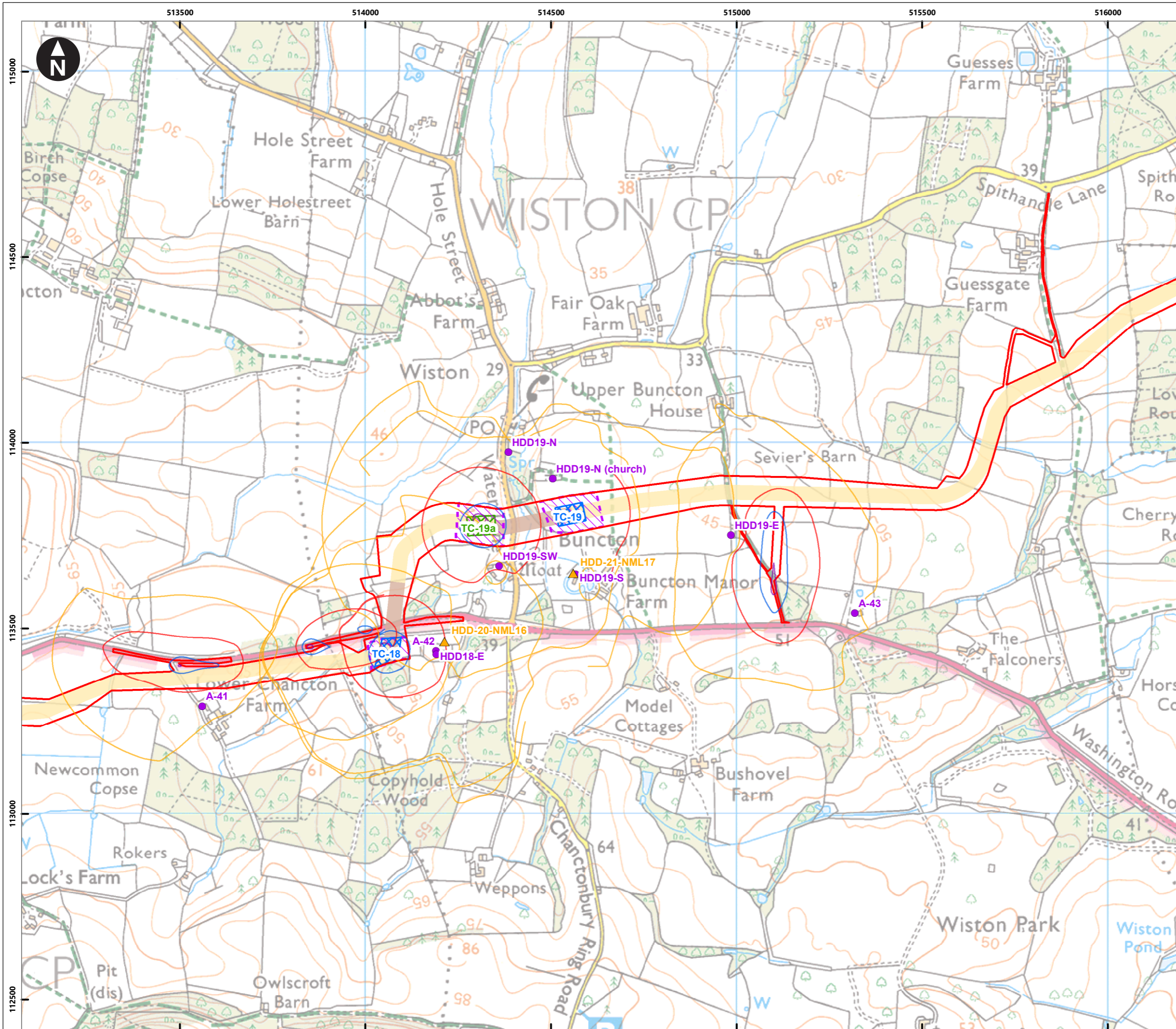
Rampion 2 Offshore Wind Farm

Figure 21.4f Construction Noise Contours

Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-ON-4429      Version: 1.0

Company: WSP    Drawn By: COLLJ    Chk/Prvrd: EVANM    Drawn Date: 28/07/2023    Status: FINAL



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**Key**

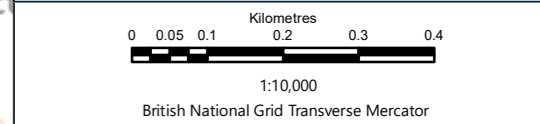
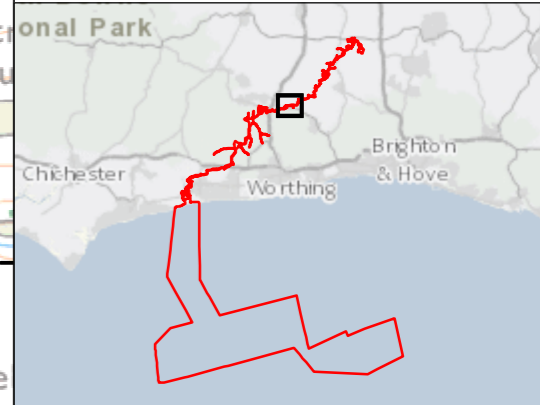
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

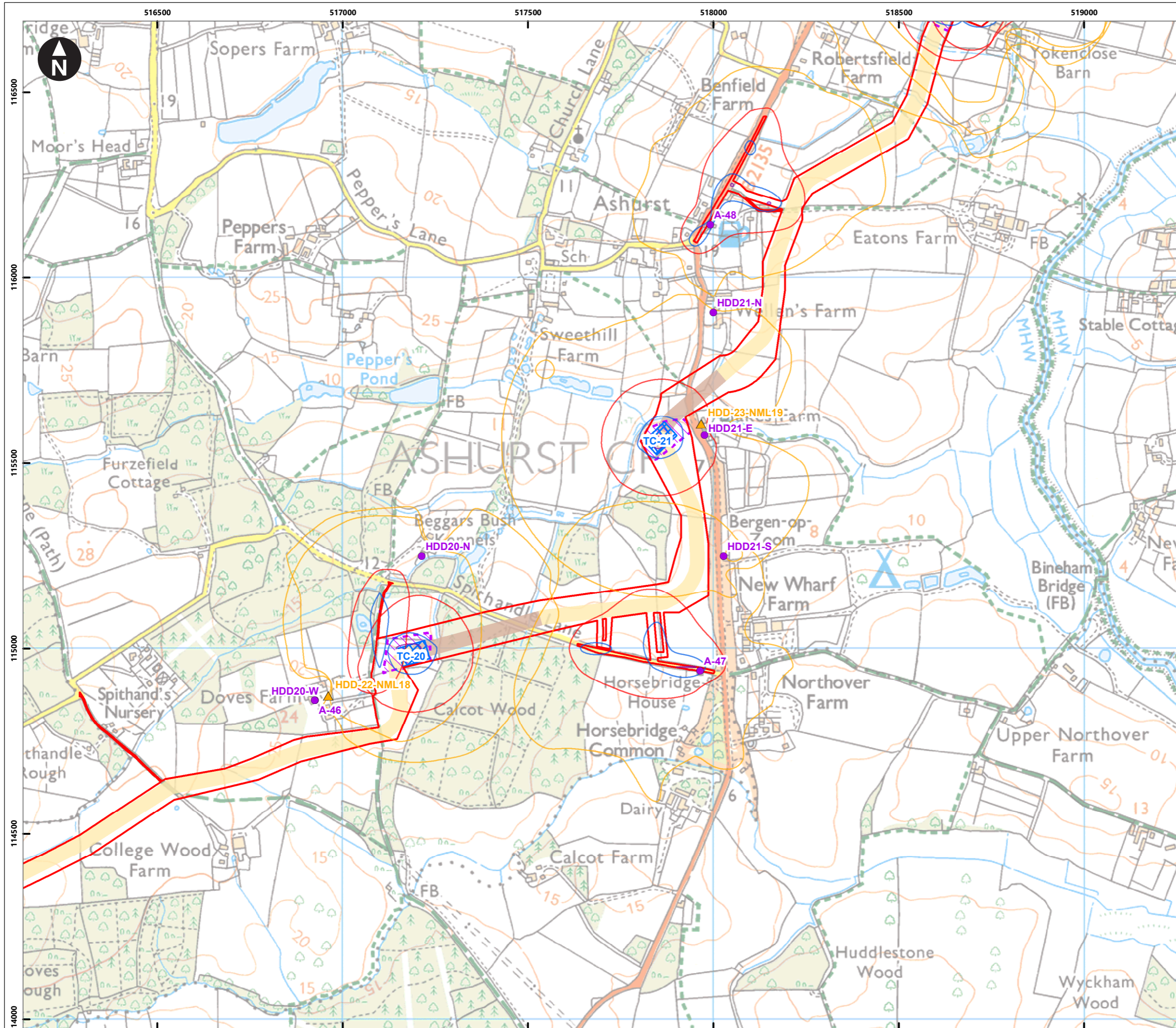


Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.4g Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429	Version: 1.0
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Company: WSP	Drawn By: COLLJ	Chk/Prvd: EVANM	Drawn Date: 28/07/2023	Status: FINAL
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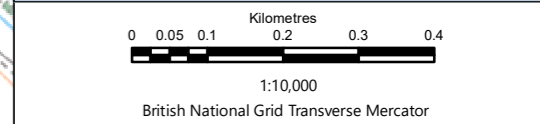
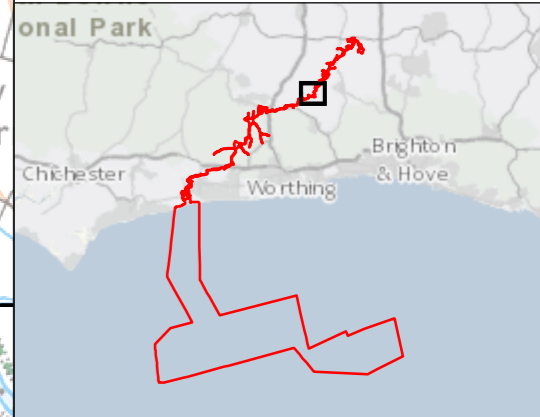
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

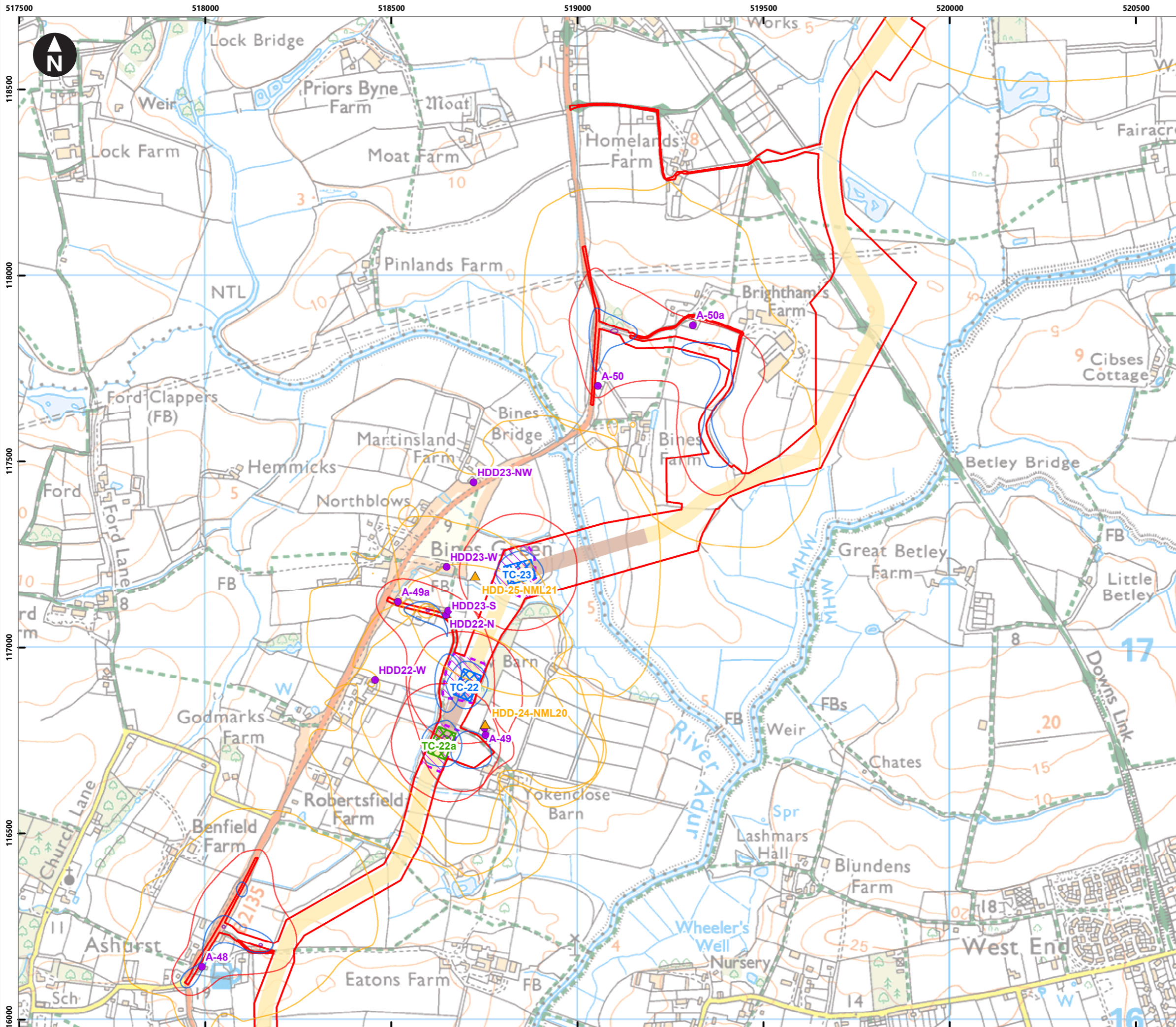
- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85



Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.4h Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSP-ES-ON-FG-ON-4429		Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM
Drawn Date: 28/07/2023	Status: FINAL	



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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

onal Park  
 Chichester  
 Worthing  
 Brighton & Hove

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

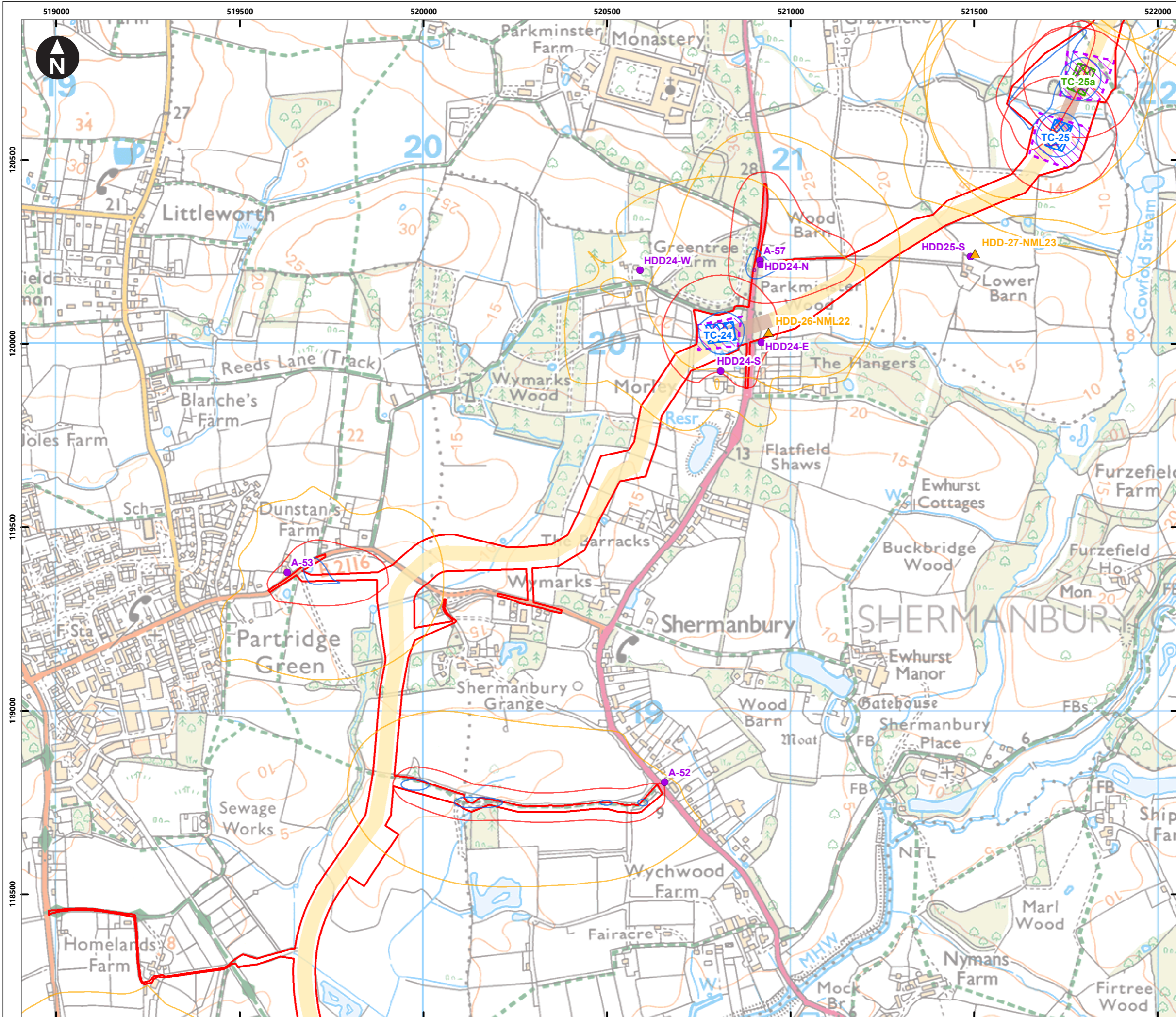
Rampion Extension Development

**Rampion 2 WIND FARM**

Rampion 2 Offshore Wind Farm  
 Figure 21.4i Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429  
 Version: 1.0

Company: WSP  
 Drawn By: COLLJ  
 Chk/Prvrd: EVANM  
 Drawn Date: 28/07/2023  
 Status: FINAL



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**Key**

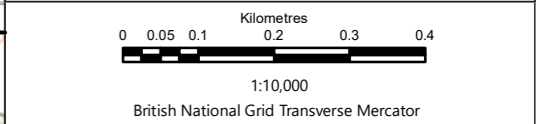
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**


- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85



Rampion Extension Development

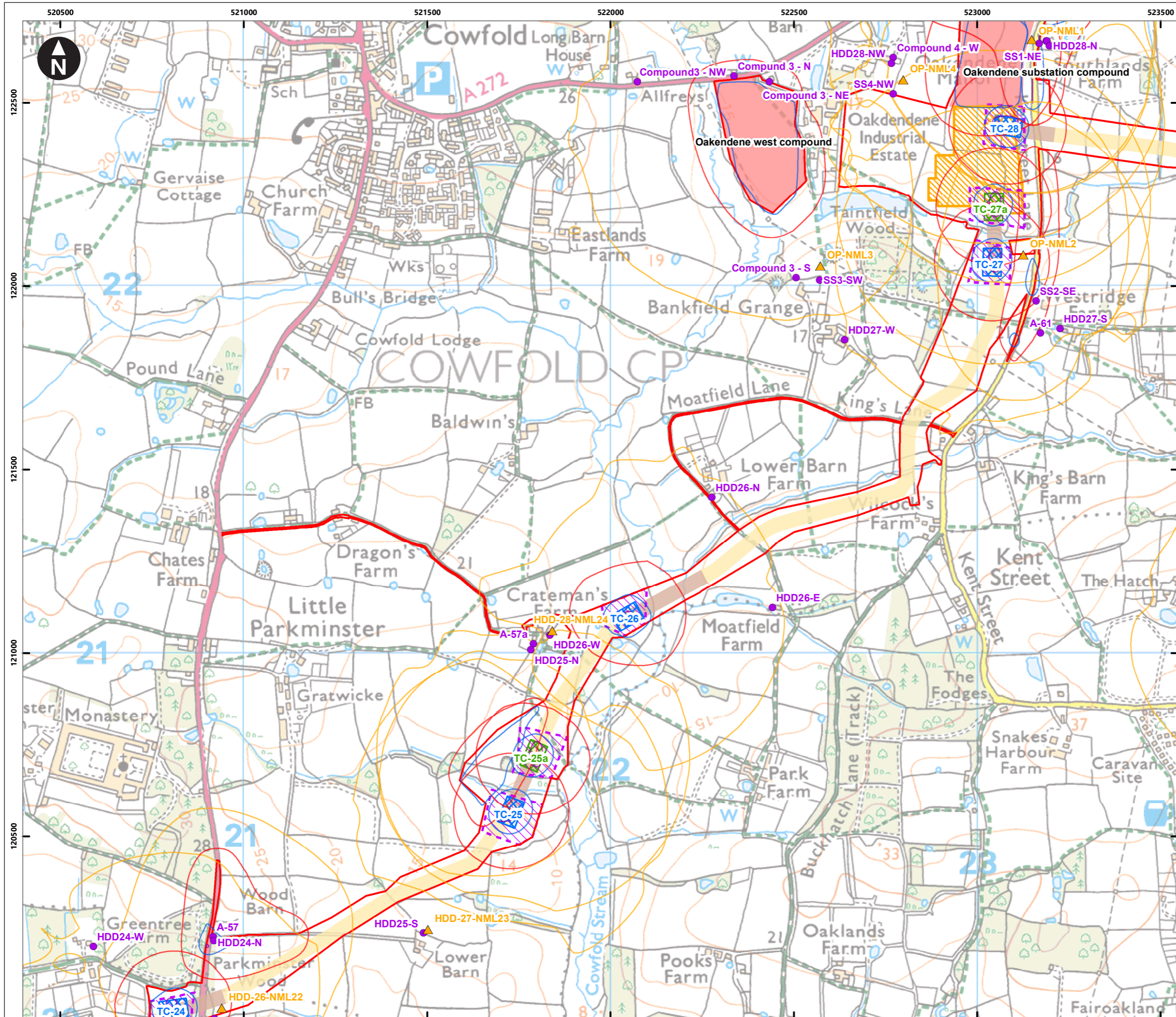


Rampion 2 Offshore Wind Farm

Figure 21.4j Construction Noise Contours

Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429		Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM
Drawn Date: 28/07/2023	Status: FINAL	



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**Key**

- Proposed DCO Order Limits
- Monitoring locations
- Receptor locations
- Onshore substation site
- Temporary construction compound
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85

onal Park  
 Chichester  
 Worthing  
 Brighton & Hove

0 0.05 0.1 0.2 0.3 0.4  
 Kilometres  
 1:10,000  
 British National Grid Transverse Mercator

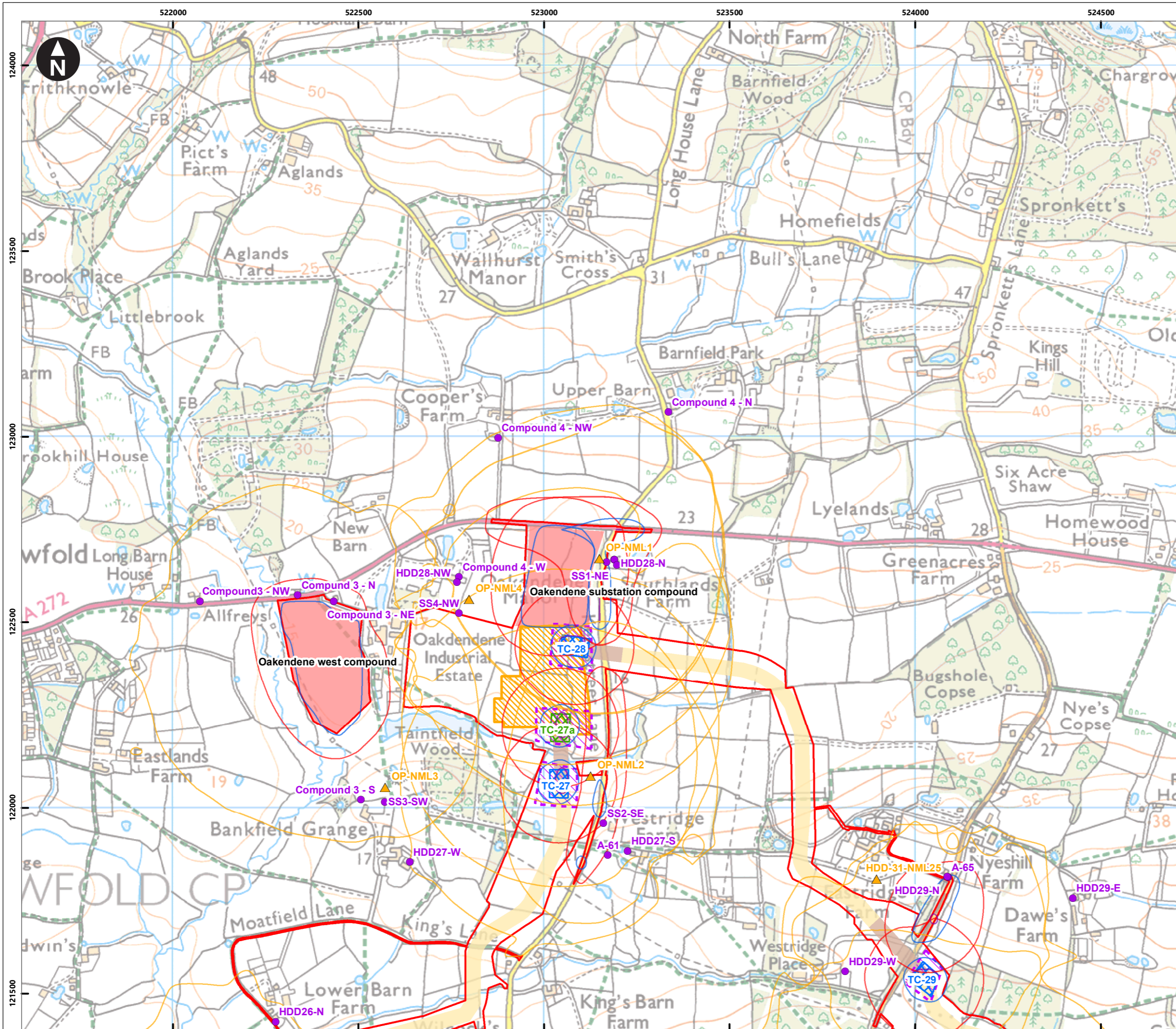
Rampion Extension Development

**Rampion 2 WIND FARM**

Rampion 2 Offshore Wind Farm  
 Figure 21.4k Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429  
 Version: 1.0

Company: WSP  
 Drawn By: COLLJ  
 Chk/Prvrd: EVANM  
 Drawn Date: 28/07/2023  
 Status: FINAL

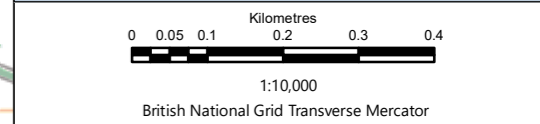
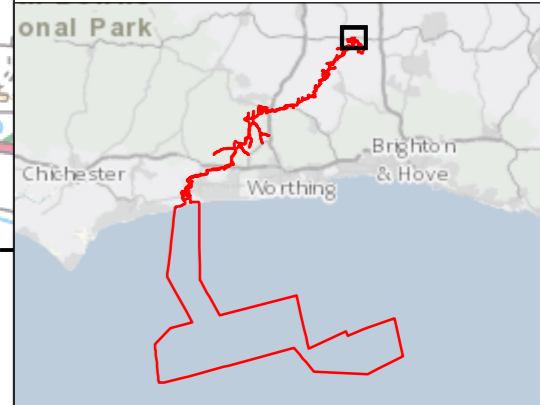


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- Key**
- Proposed DCO Order Limits
  - ▲ Monitoring locations
  - Receptor locations
  - Onshore substation site
  - Temporary construction compound
  - Trenchless Crossing (TC) compounds
  - Trenchless Crossing (TC) compound alternatives
  - Trenchless Crossing (TC) limits of deviation

- Proposed onshore cable construction corridor**
- Indicative trenchless section
  - Indicative open cut section

- Noise Zone (dB)**
- Below 45
  - 45 to 55
  - 55 to 65
  - 65 to 75
  - 75 to 85

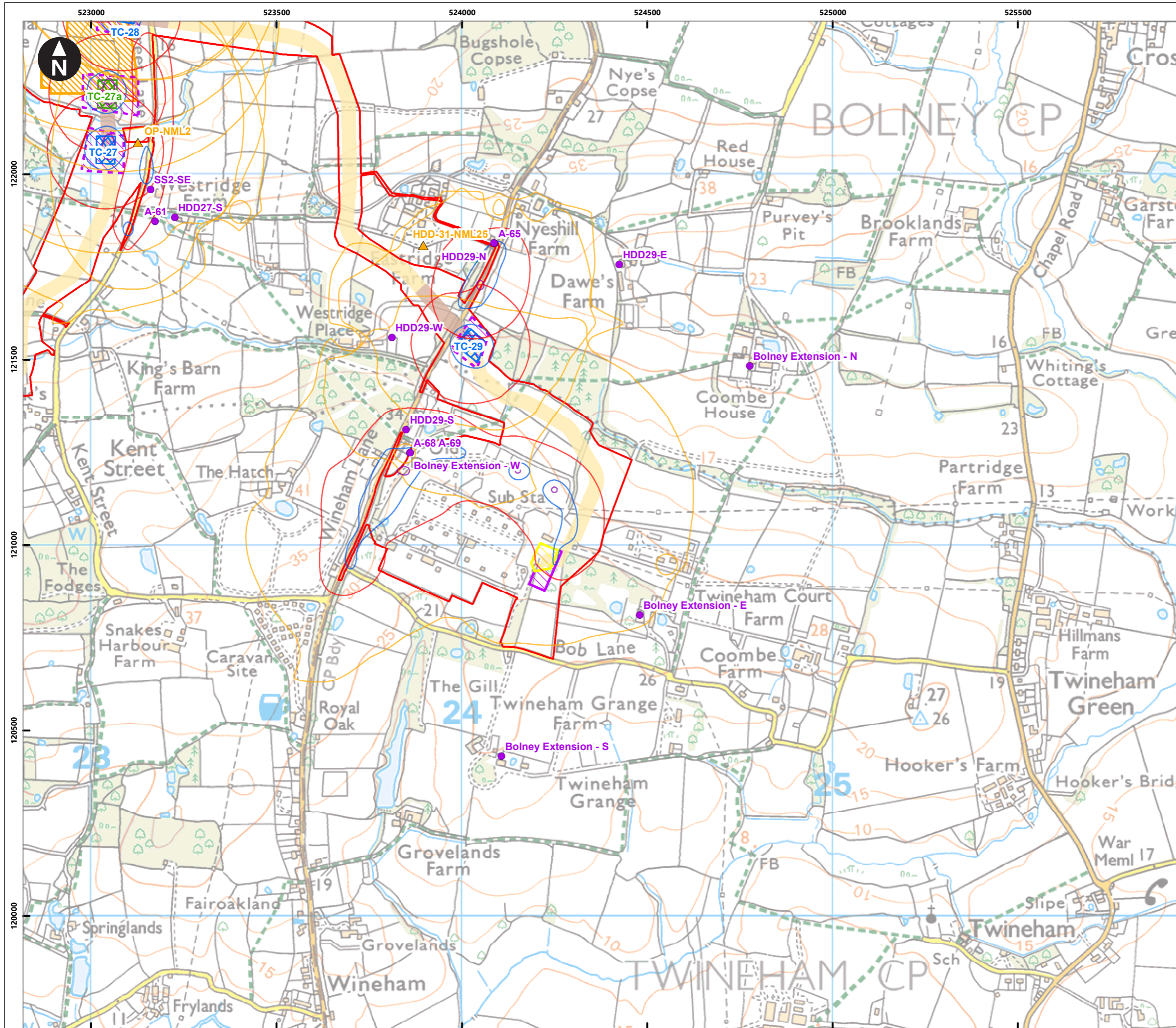


Rampion Extension Development  


Rampion 2 Offshore Wind Farm  
 Figure 21.4I Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429		Version: 1.0
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Company: WSP	Drawn By: COLLJ	Chk/Prvrd: EVANM	Drawn Date: 28/07/2023	Status: FINAL
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**Key**

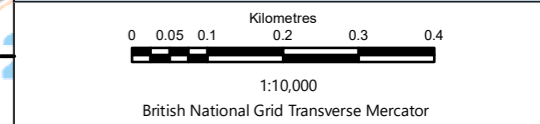
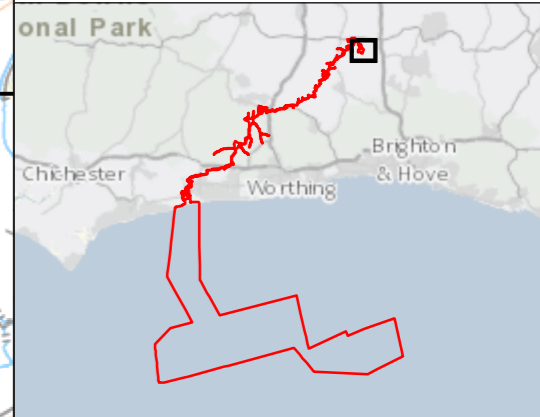
- Proposed DCO Order Limits
- ▲ Monitoring locations
- Receptor locations
- Onshore substation site
- Bolney Substation extension (GIS)
- Bolney Substation extension (AIS)
- Trenchless Crossing (TC) compounds
- Trenchless Crossing (TC) compound alternatives
- Trenchless Crossing (TC) limits of deviation

**Proposed onshore cable construction corridor**

- Indicative trenchless section
- Indicative open cut section

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65
- 65 to 75
- 75 to 85



Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 21.4m Construction Noise Contours  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-4429		Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Prvd: EVANM
Drawn Date: 28/07/2023	Status: FINAL	





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**Key**

- Proposed DCO Order Limits
- Onshore substation site
- Statcom Heat Exchanger
- Statcom Cooling Unit
- Statcom Electrics
- Cooling Unit
- Harmonic Filter
- Main Transformer
- Shunt Reactor

**Noise Zone (dB)**

- Below 45
- 45 to 55
- 55 to 65

0 0.0075 0.015 0.03 0.045 0.06  
 Kilometres  
 1:1,500  
 British National Grid Transverse Mercator

Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 21.5 Substation Noise Mitigated  
 Environmental Statement

System Identifier: 42285-WSPE-ES-ON-FG-ON-2112				Version: 1.0
Company: WSP	Drawn By: COLLJ	Chk/Aprvd: EVANM	Drawn Date: 31/07/2023	Status: FINAL

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