

**RWE Renewables UK Dogger Bank
South (West) Limited**

**RWE Renewables UK Dogger Bank
South (East) Limited**

Dogger Bank South Offshore Wind Farms

Environmental Statement

Volume 7

Chapter 19 – Geology and Land Quality

Figure 19-1 to Figure 19-9 (Revision 3)

April 2025

Application Reference: 7.19.1

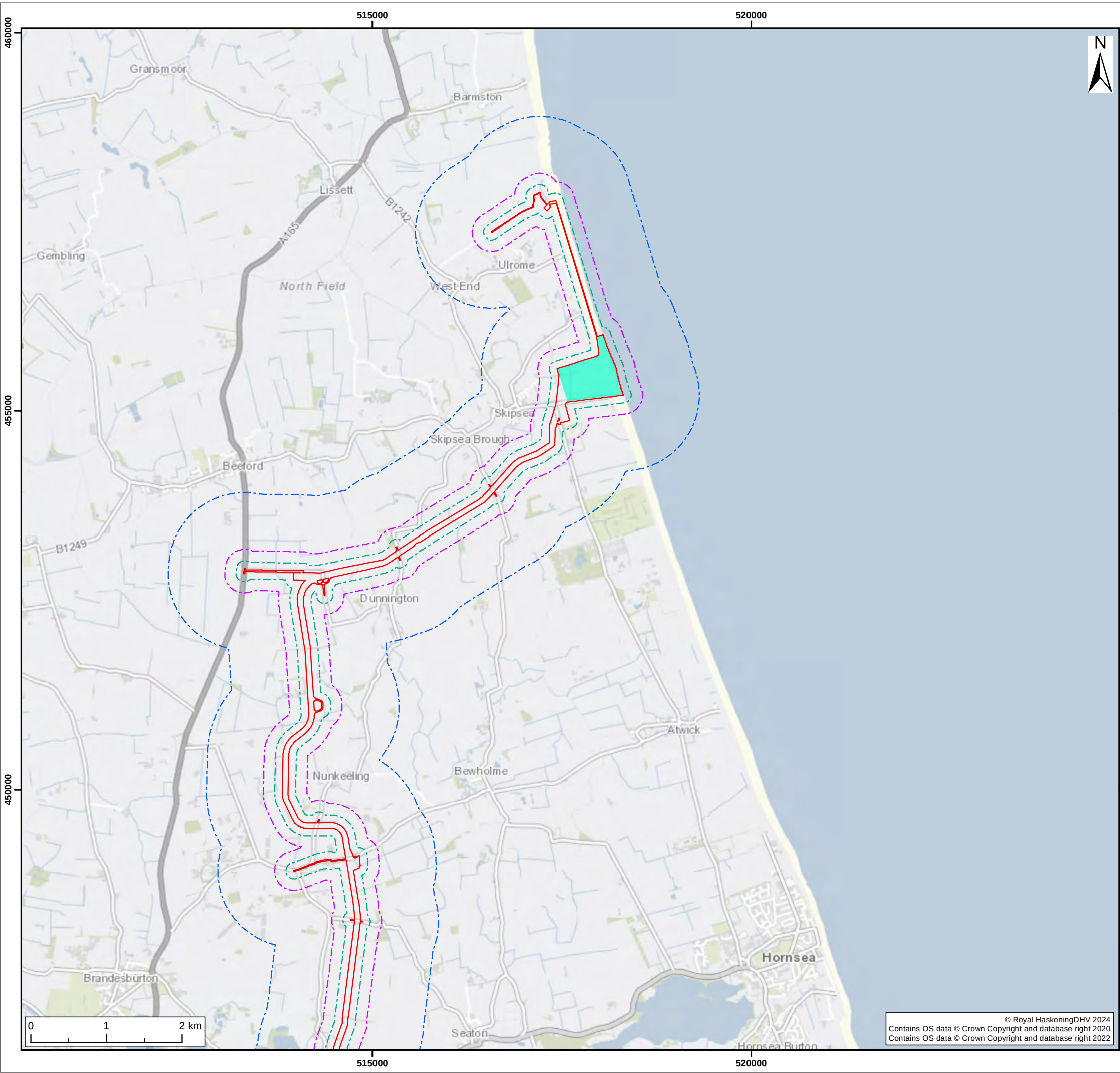
APFP Regulation: 5(2)(a)

Revision: 03

Unrestricted

Company:	RWE Renewables UK Dogger Bank South (West) Limited and RWE Renewables UK Dogger Bank South (East) Limited	Asset:	Development		
Project:	Dogger Bank South Offshore Wind Farms	Sub Project/Package:	Consents		
Document Title or Description:	Environmental Statement – Chapter 19 – Figure 19-1 to Figure 19-9 (Revision 3)				
Document Number:	004300160-03	Contractor Reference Number:	PC2340-RHD-ON-ZZ-RP-Z-0102		
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Rev No.	Date	Status/Reason for Issue	Author	Checked by	Approved by
01	June 2024	Final for DCO Application	RHDHV	RWE	RWE
02	January 2025	Submission for Deadline 1	RHDHV	RWE	RWE
03	April 2025	Submission for Deadline 4	RHDHV	RWE	RWE

Revision Change Log			
Rev No.	Page	Section	Description
01	N/A	N/A	Submitted for DCO Application
02	25 to 27	N/A	Chapter 19 Geology and Land Quality, Figure 19-8 has been updated following the receipt of the ExAs Supplementary Agenda Questions for Issue Specific Hearing 2, Agenda Item 11: Onshore Water Environment, ISH2.11.6. A 50m buffer has been added to assist in identifying any groundwater abstractions within 50m of the Onshore Order Limits, as detailed in The Applicants' Responses to Issue Specific Hearing 2 Supplementary Agenda Questions [document reference 11.5].
03	10 to 12	Figure 19-3	Chapter 19 Geology and Land Quality Figure 19-1 to Figure 19-9 (Revision 2) [REP1-0.13] has been updated following Issue Specific Hearing 4 Action Point 52 and 53 [EV9-002]. In response to Action Point 52, Figure 19-3 has been updated to remove the statement in the notes of Figure 19-3 that stated '<i>The whole route is impacted by SSI impact risk zones</i>' as this is incorrect. In response to Action Point 53, Figure 19-3 has been updated to remove the 'Local Geological Sites' layer from the Figure. Further details are provided in The Applicants' Responses to April 2025 Hearing Action Points [document reference 14.11].
03	22 to 24	Figure 19-7	Chapter 19 Geology and Land Quality Figure 19-1 to Figure 19-9 (Revision 2) [REP1-0.13] has been updated following Issue Specific Hearing 4 Action Point 51 [EV9-002]. In response to Action Point 51, Figure 19-7 has been updated include the designations Area of Search, Sand and Gravel and Preferred Area of Sand and Gravel as well as Mineral Safeguarding Areas. Further details are provided in The Applicants' Responses to April 2025 Hearing Action Points [document reference 14.11].



- Legend:
- Onshore Development Area
 - Onshore Development Area 100m Buffer
 - Onshore Development Area 250m Buffer
 - Onshore Development Area 1km Buffer
 - Substation Zone 4
 - Landfall Zone 8

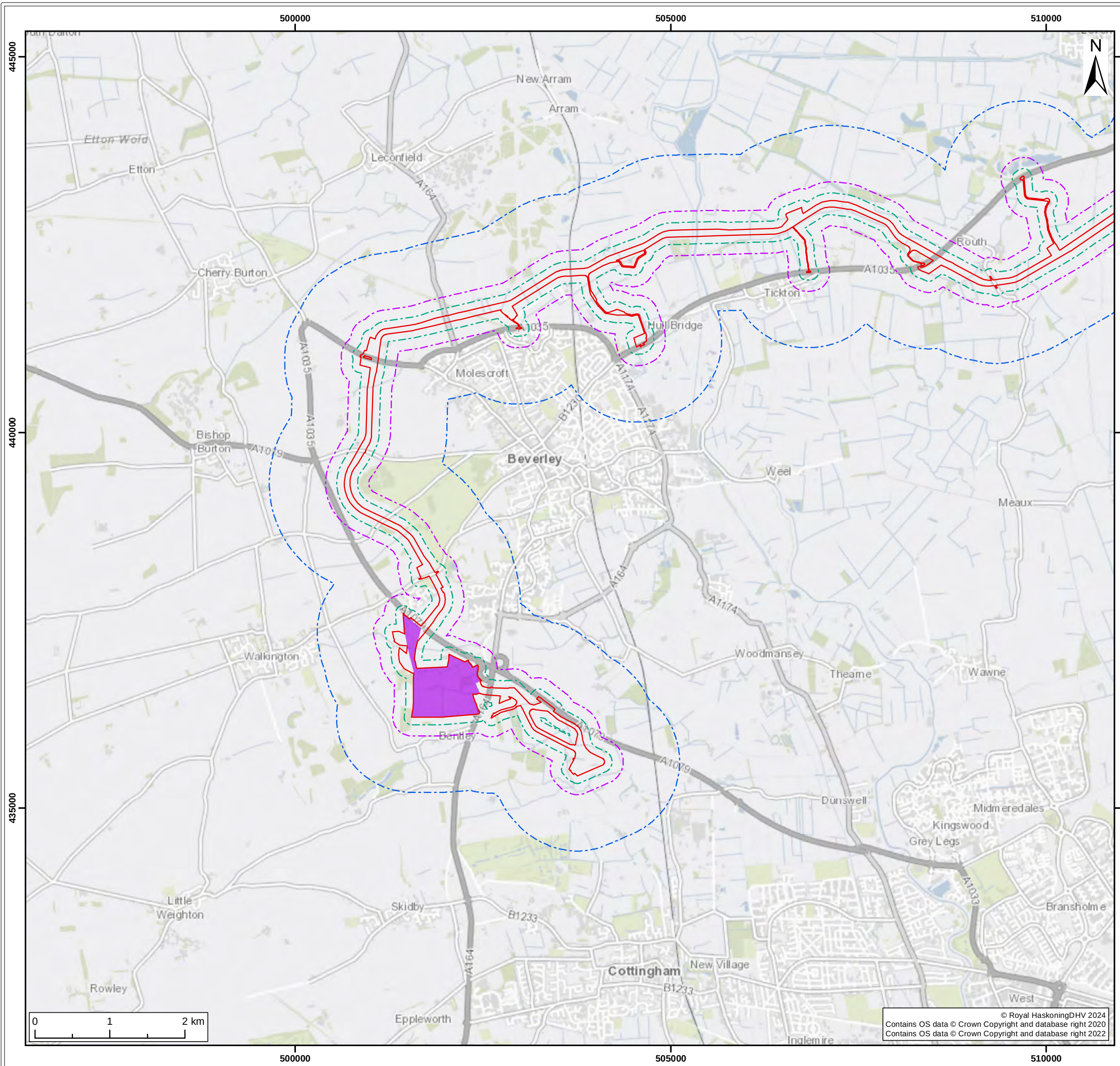
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:
Onshore Development Area

Figure: 19-1a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0862

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





Legend:

- Onshore Development Area
- Onshore Development Area 100m Buffer
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Substation Zone 4
- Landfall Zone 8

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

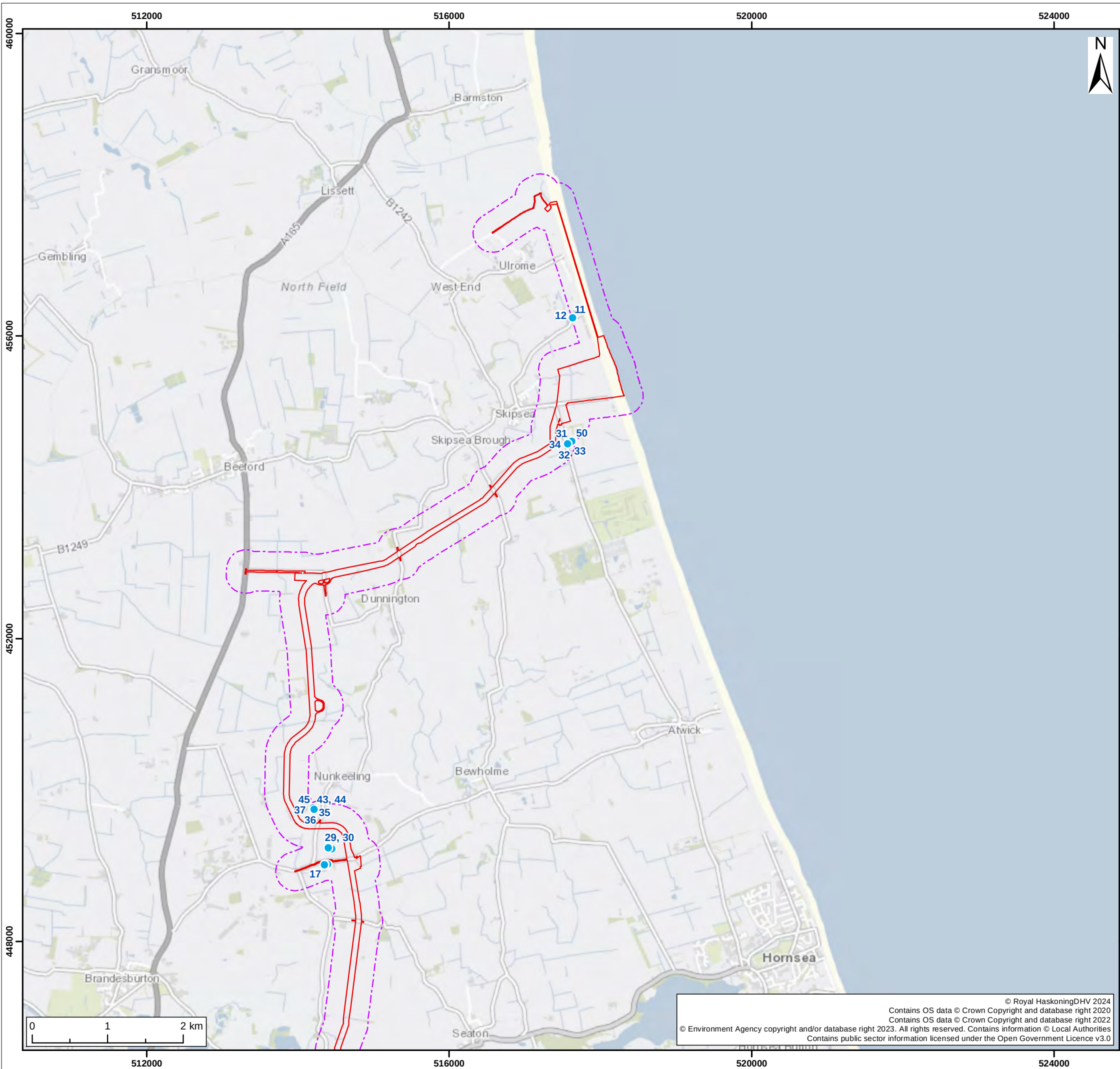
Title:

Onshore Development Area

Figure: 19-1c	Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0862		
Co-ordinate system: British National Grid		Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms		Report: Environmental Statement	



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- Legend:
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Historical Landfill (EA records)
 - Waste Exemptions (EA records)

Features reference tables 19-4 and 19-5 in the report

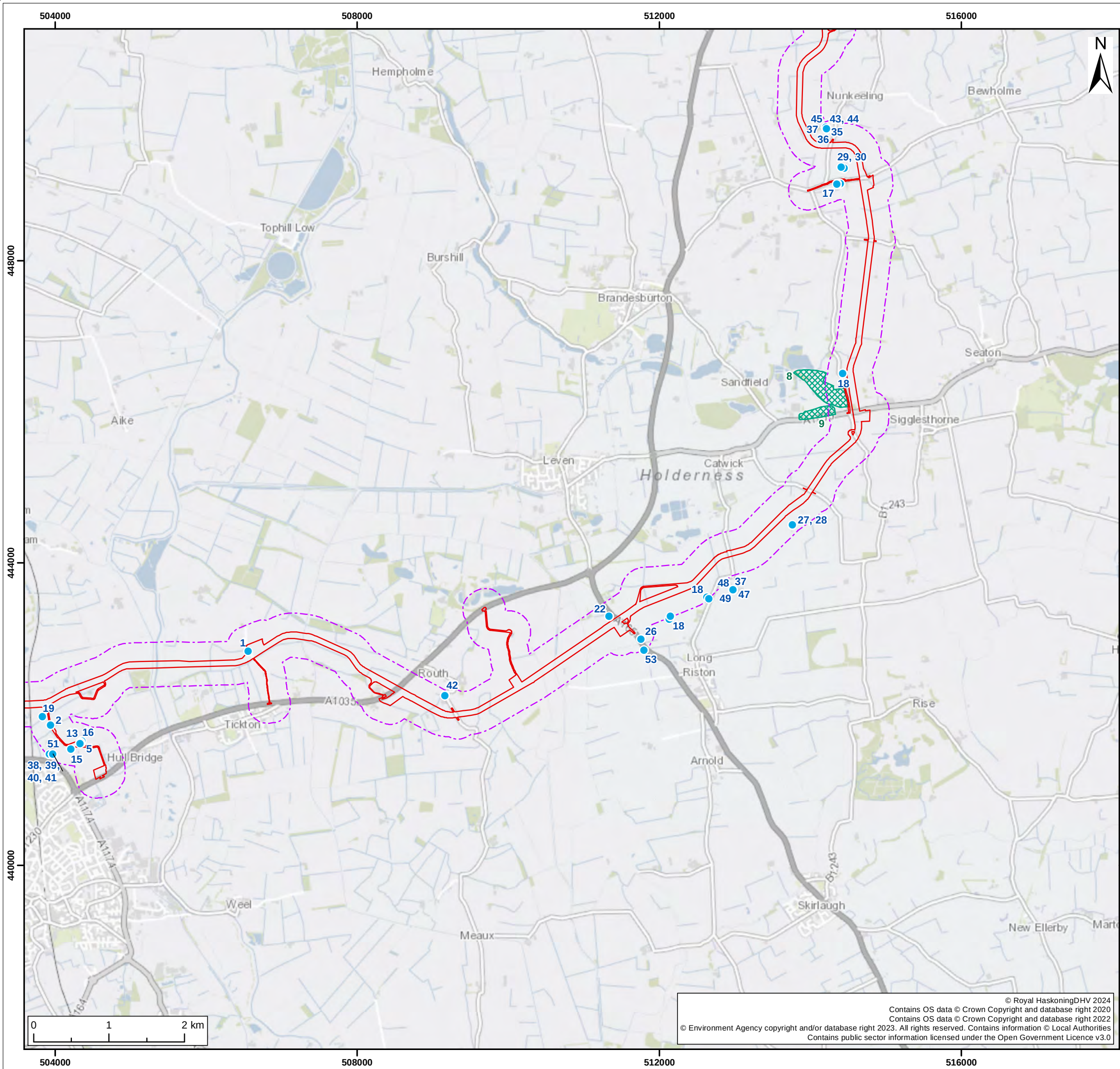
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SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:
Identified Waste Facilities

Figure: 19-2a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0863

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





- Legend:
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Historical Landfill (EA records)
 - Waste Exemptions (EA records)

Features reference tables 19-4 and 19-5 in the report

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

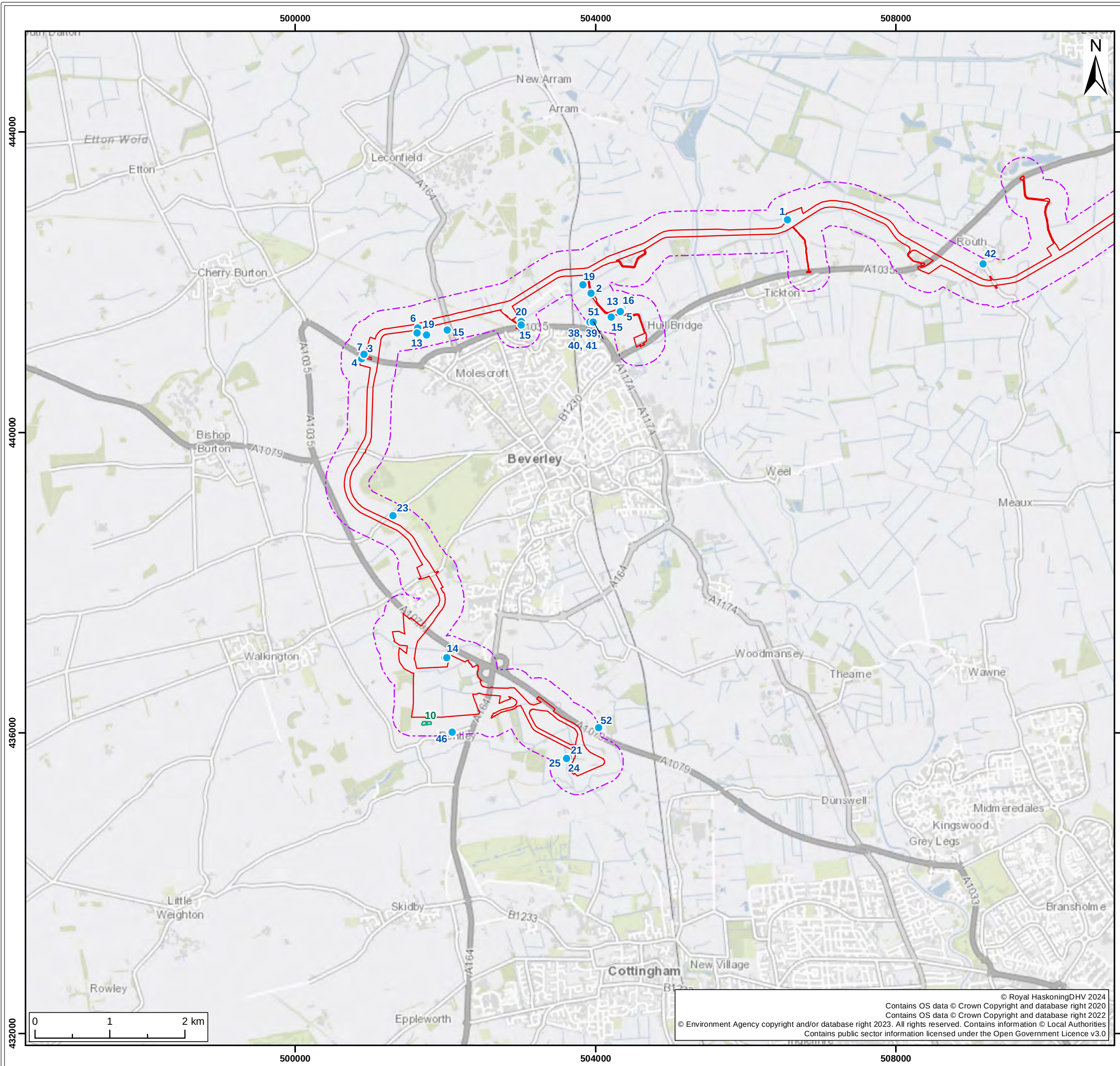
Title:

Identified Waste Facilities

Figure: 19-2b	Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0863		
Co-ordinate system: British National Grid		Page Size: A3	Scale: 1:50,000
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- Legend:
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Historical Landfill (EA records)
 - Waste Exemptions (EA records)

Features reference tables 19-4 and 19-5 in the report

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
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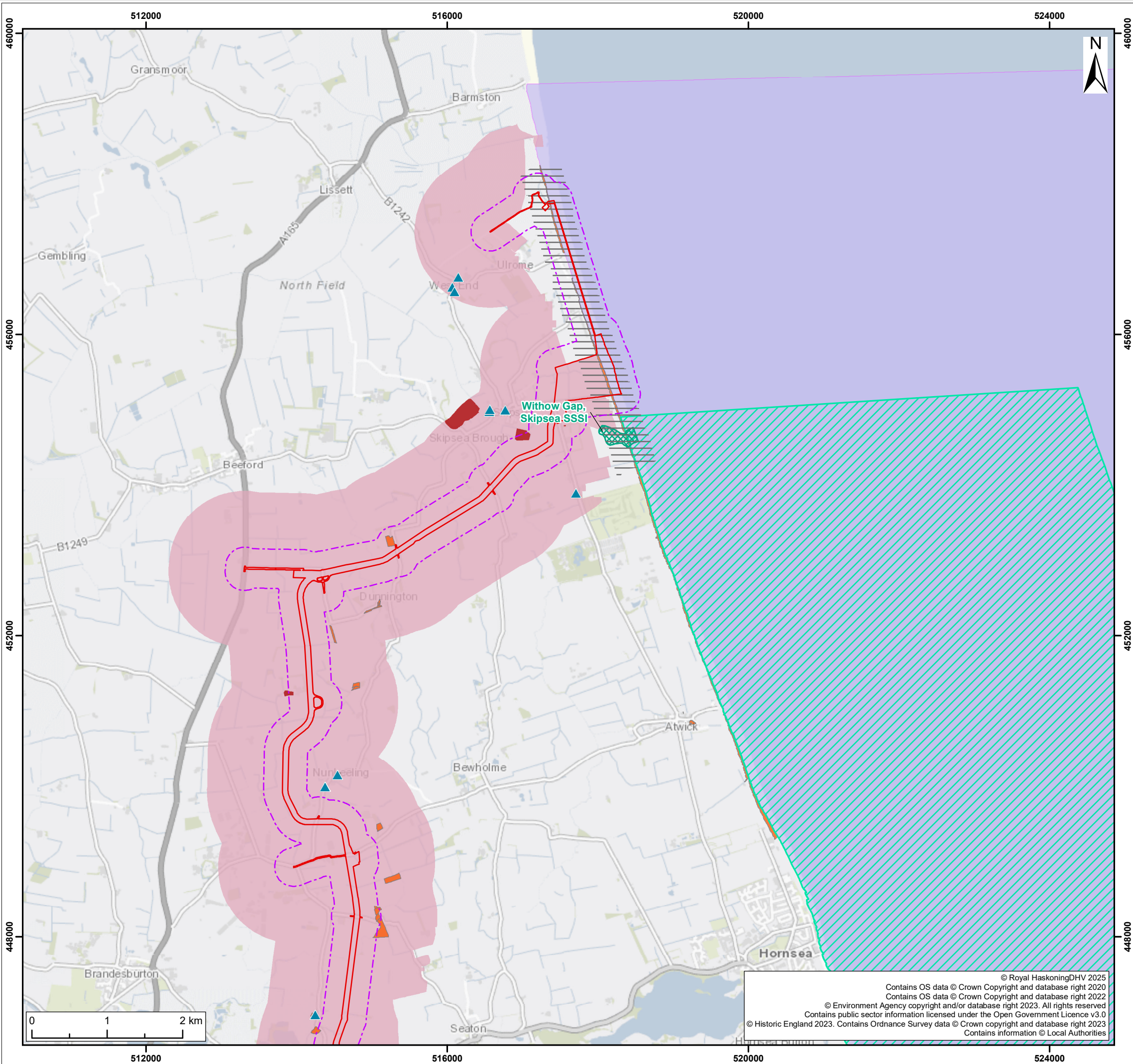
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Identified Waste Facilities

Figure: 19-2c		Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0863	
Co-ordinate system: British National Grid		Page Size: A3	Scale: 1:50,000
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- Legend:
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Sites of Special Scientific Interest
 - Special Protection Area
 - Ancient Woodland
 - Marine Conservation Zone
 - Priority Habitat Inventory
 - Habitat Networks
 - Local Nature Reserve
 - Listed Buildings
 - Scheduled Monuments
 - Open Mosaic Habitat
 - Nitrate Vulnerable Zones
 - Groundwater
 - Surface Water

Features reference table 19-11 in ES Chapter 19

S3	P02	17/04/2025	Suitable for review & comment	SM	KD	ND
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
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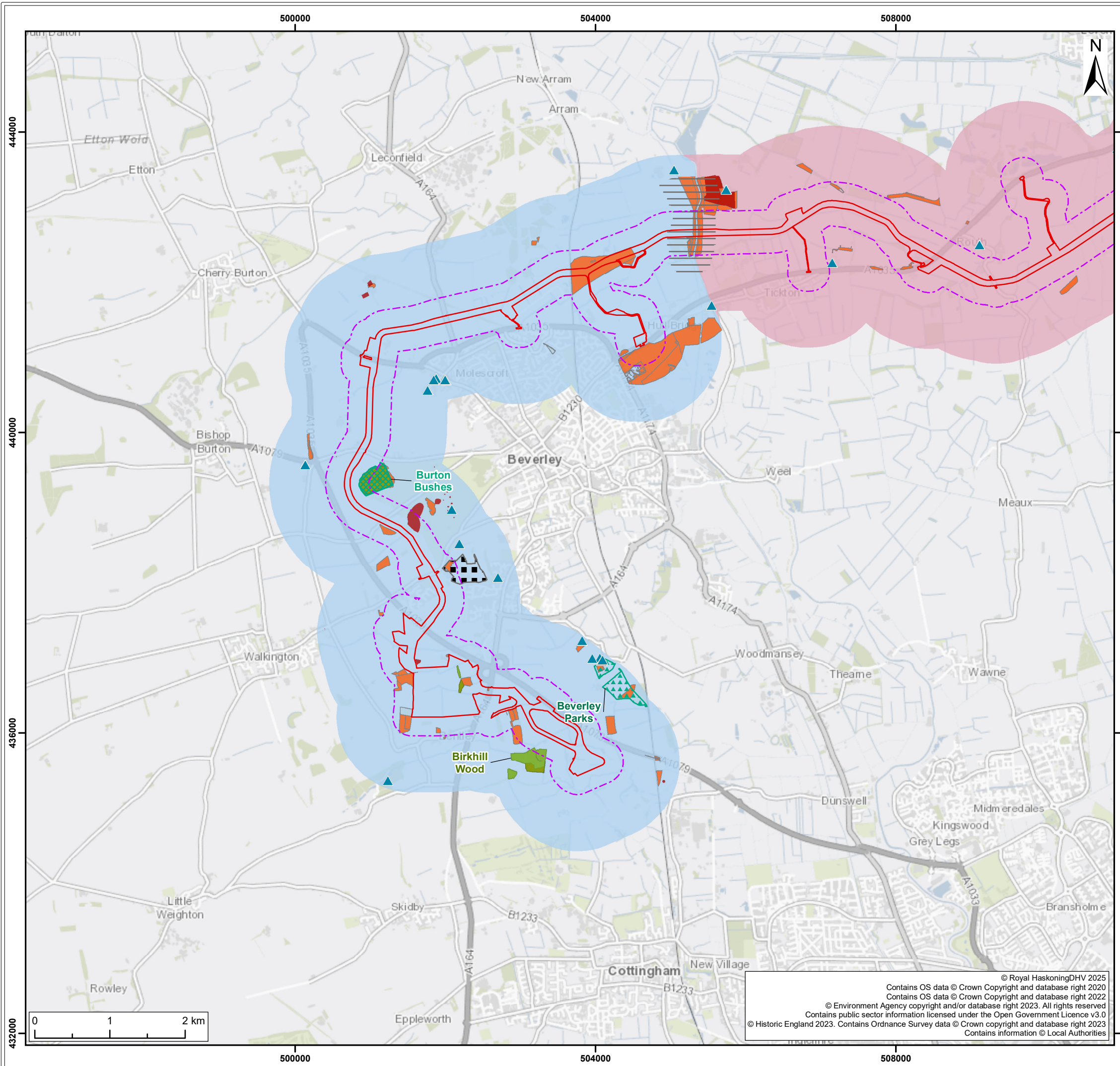
Title:
Environmentally Sensitive Land Uses

Figure: 19-3a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0864

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
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- Legend:
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Sites of Special Scientific Interest
 - Special Protection Area
 - Ancient Woodland
 - Marine Conservation Zone
 - Priority Habitat Inventory
 - Habitat Networks
 - Nitrate Vulnerable Zones
 - Groundwater
 - Surface Water
 - Local Nature Reserve
 - Listed Buildings
 - Scheduled Monuments
 - Open Mosaic Habitat

Features reference table 19-11 in ES Chapter 19

S3	P02	17/04/2025	Suitable for review & comment	SM	KD	ND
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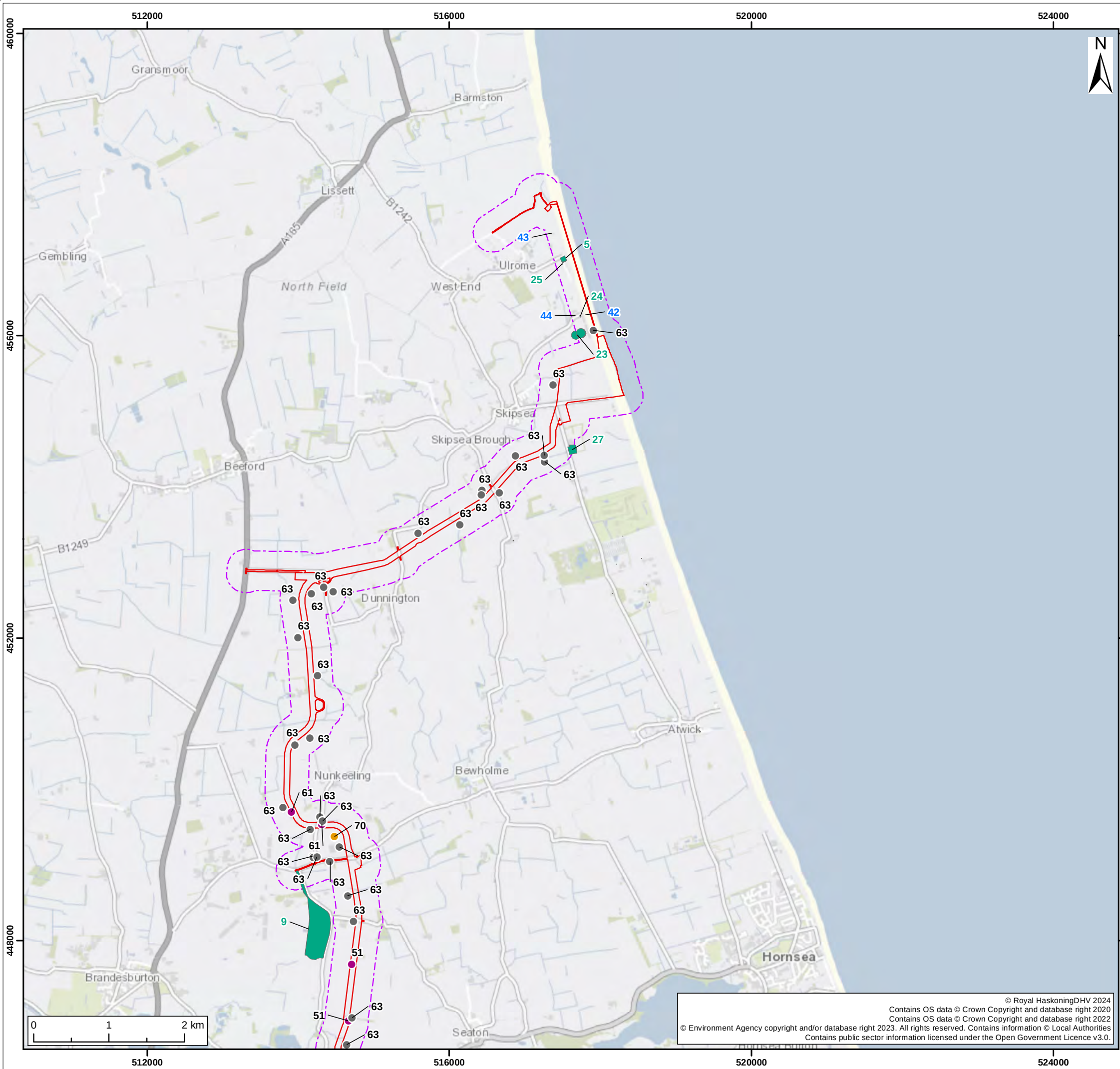
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Environmentally Sensitive Land Uses

Figure: 19-3c Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0864

Co-ordinate system: British National Grid Page Size: A3 Scale: 1:50,000

Project: Dogger Bank South Offshore Wind Farms Report: Environmental Statement





- Onshore Development Area
- Onshore Development Area 250m Buffer
- Historical Energy Features
- Historical Tanks
- Historical Industrial Landuse
- Potential pit / pond / infilled land
- Potential pits / ponds / chalk pits / old gravel pits
- Slurry lagoon

Features reference tables 19-14, 19-15, 19-9, 19-20, 19-27 & 19-28 in the report

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SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

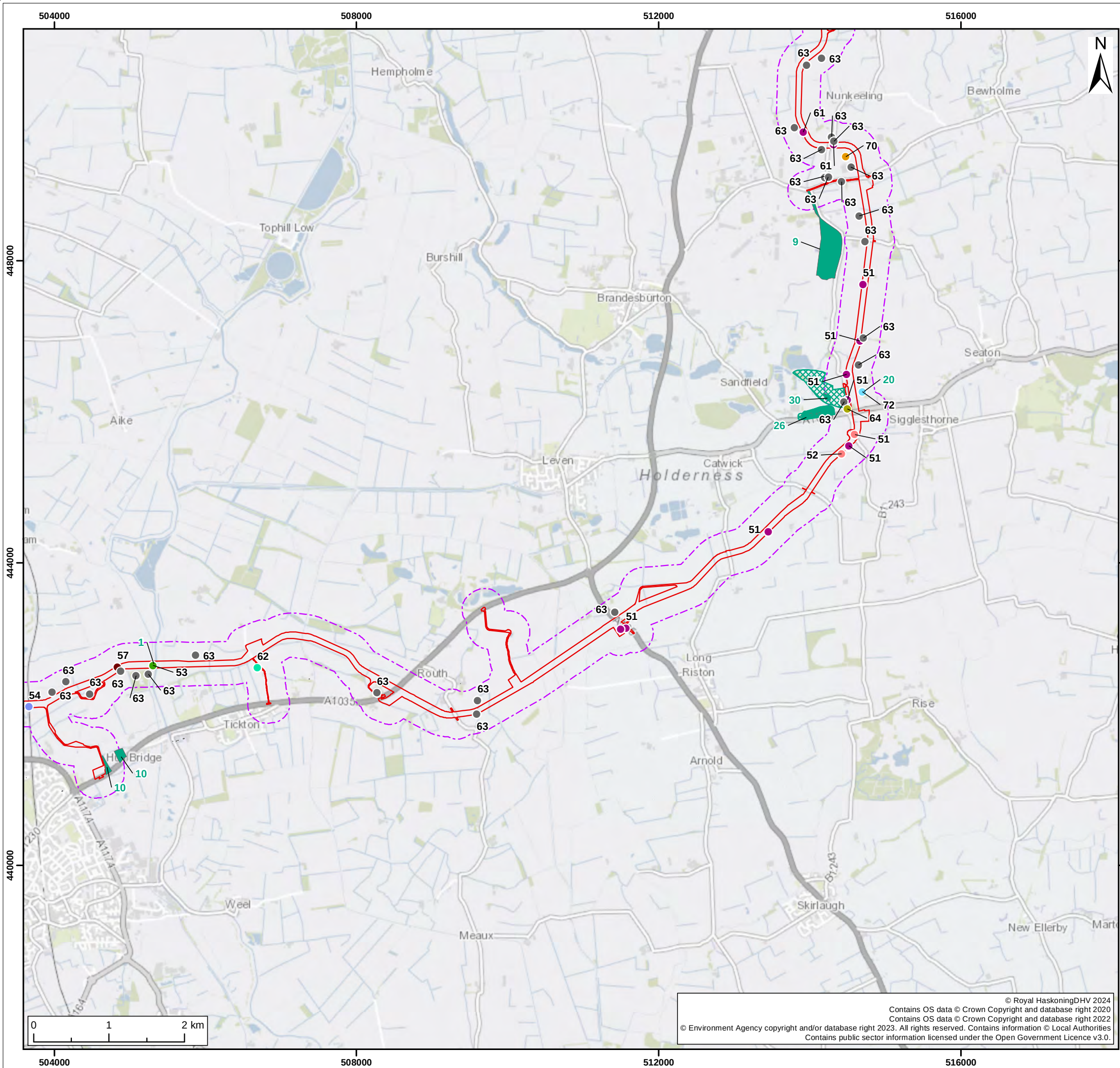
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Potentially Contaminative Historical Land Uses

Figure: 19-4a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0865

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





- Onshore Development Area
- Onshore Development Area 250m Buffer
- Historical Landfill (EA records)
- Historical Energy Features
- Historical Tanks
- Historical Industrial Landuse
- Hull and Scarborough Railway
- Old Sand Pit
- Potential pit / pond
- Potential pit / pond / infilled land
- Potential pits / ponds / chalk pits / old gravel pits
- Sheep wash
- Slurry lagoon
- South Bullock Pumping Station
- Springs and potential pond
- Unknown buildings

Features reference tables 19-14, 19-15, 19-9, 19-20, 19-27 & 19-28 in the report

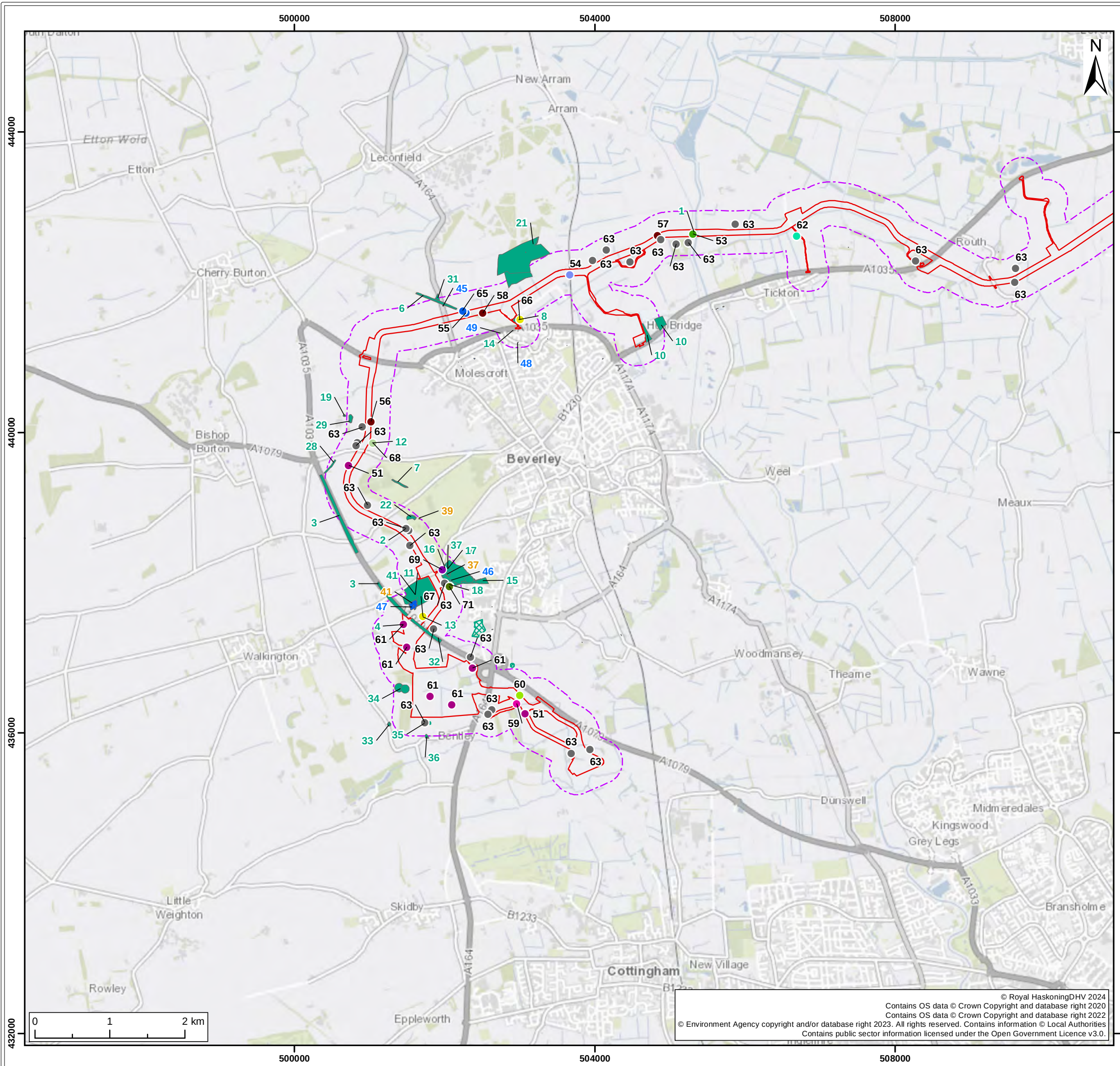
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Title:
Potentially Contaminative Historical Land Uses

Figure: 19-4b	Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0865		
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Project: Dogger Bank South Offshore Wind Farms		Report: Environmental Statement	



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- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Historical Landfill (EA records)
 - Historical Energy Features
 - Historical Tanks
 - Historical Industrial Landuse
 - Beverley Water Works and Reservoir
 - Chalk pit, Kilns and Victoria Whiting Works
 - Hull and Scarborough Railway
 - Old Butts (Potential Pit)
 - Old Gravel Pit
 - Potential pit / pond / infilled land
 - Potential pits / ponds / chalk pits / old gravel pits
 - Sewage works
 - South Bullock Pumping Station
 - Springs and potential pond
 - Unknown buildings
 - Well
 - York, Market Weighton and Beverley Railway
- Features reference tables 19-14, 19-15, 19-9, 19-20, 19-27 & 19-28 in the report

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SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

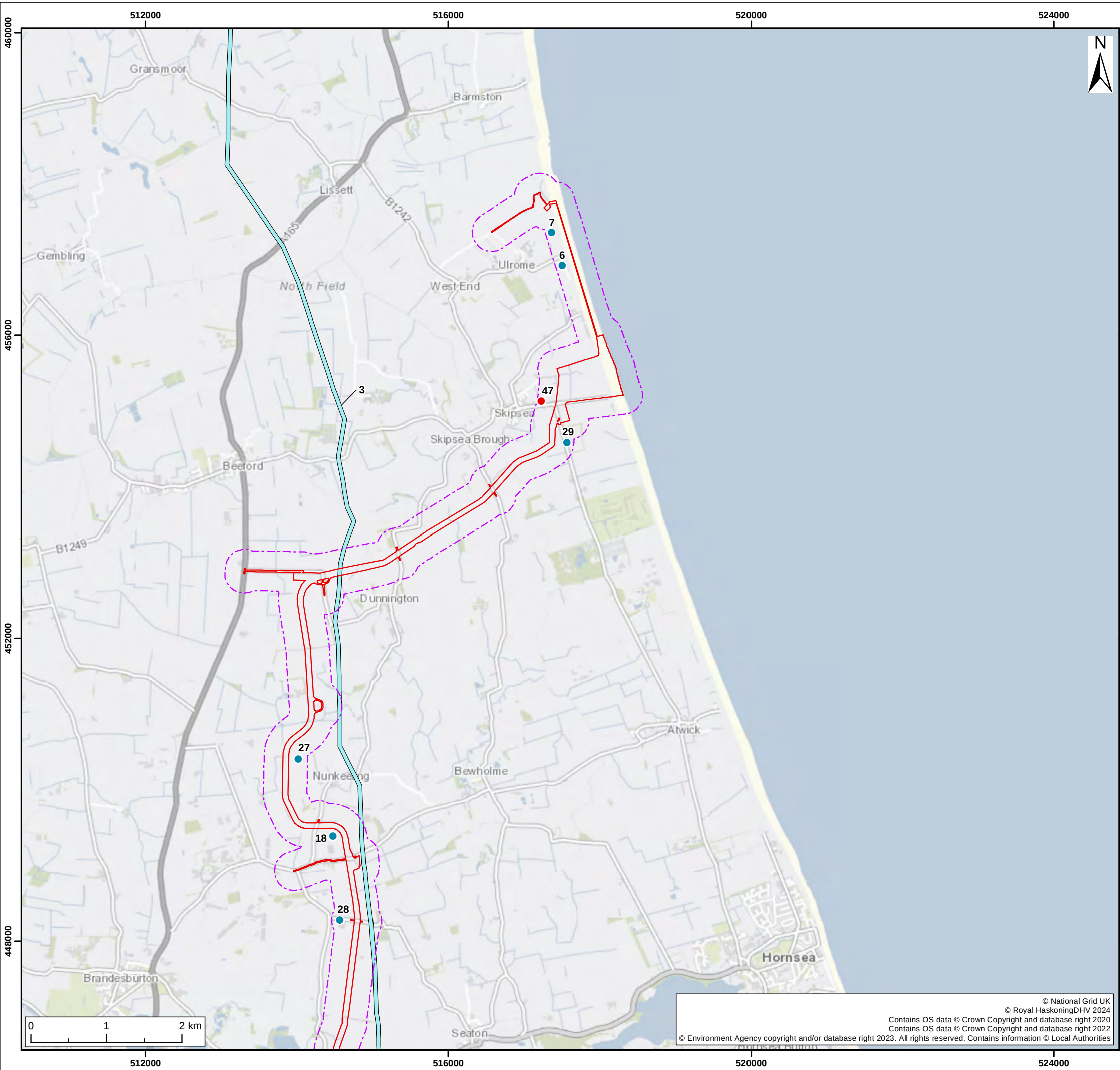
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Potentially Contaminative Historical Land Uses

Figure: 19-4c		Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0865	
Co-ordinate system: British National Grid		Page Size: A3	Scale: 1:50,000
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- Legend
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Current or recent petrol stations
 - Industrial land uses
- National Grid High Pressure Gas Pipeline**
- Burton Agnes to Paull

Features reference tables 19-17 and 19-18 in the report

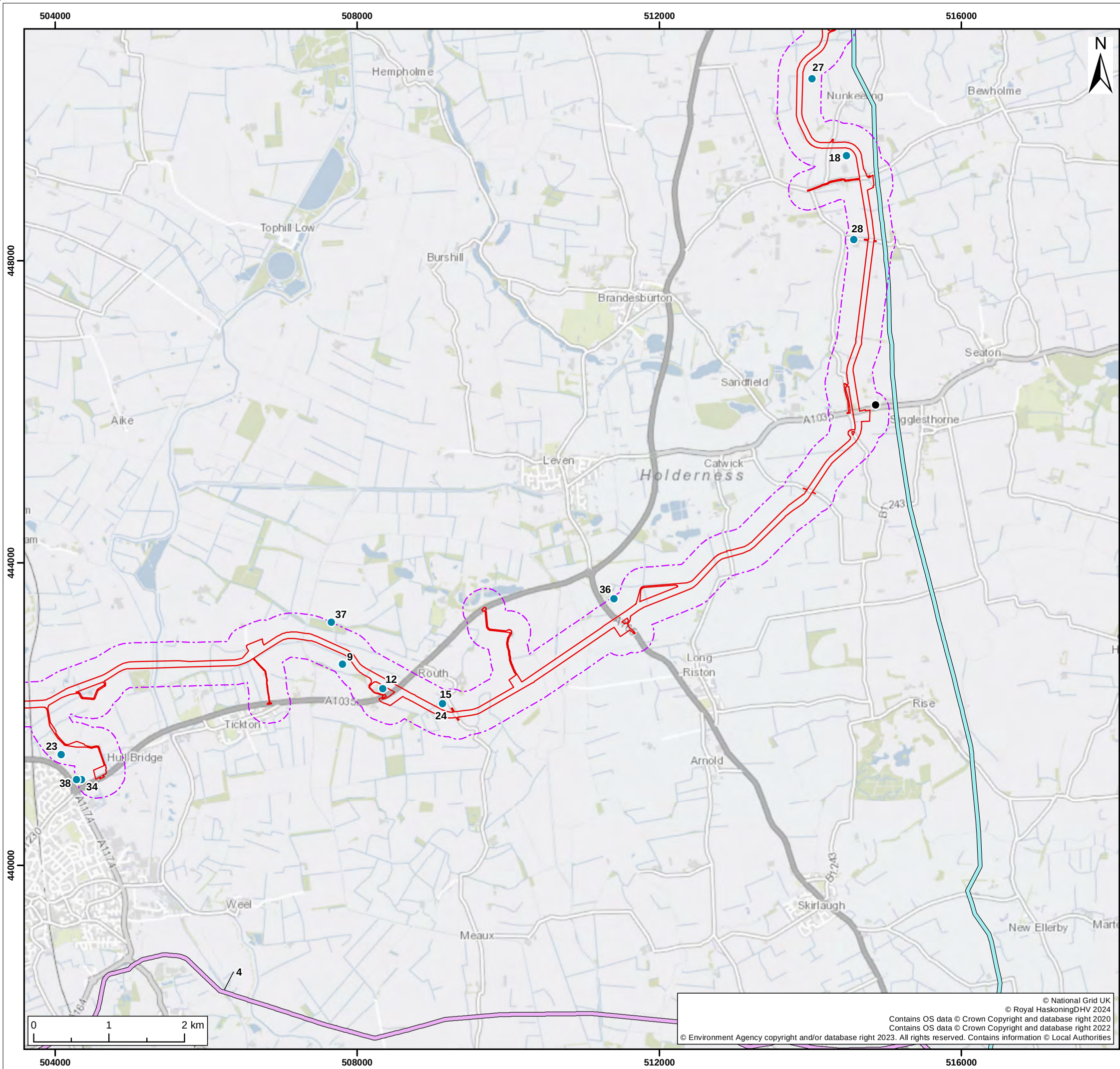
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SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:

Potentially Contaminative Current Land Uses

Figure: 19-5a	Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0866		
Co-ordinate system: British National Grid		Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms		Report: Environmental Statement	





Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Industrial land uses
- Licensed industrial activities (Part A(1))

National Grid High Pressure Gas Pipeline

- Burton Agnes to Paull
- Easington to Asselby

Features reference tables 19-17 and 19-18 in the report

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

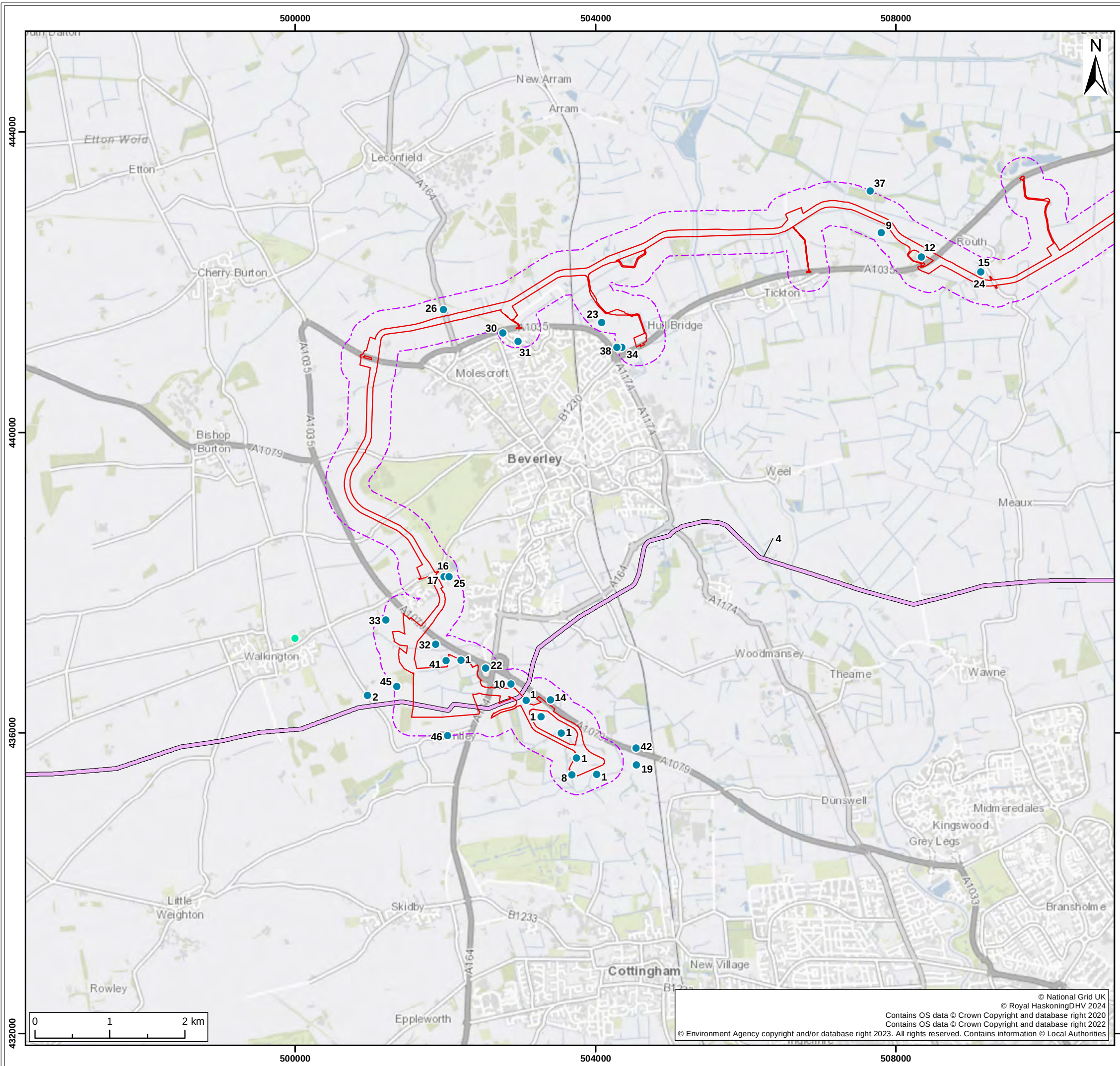
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Potentially Contaminative Current Land Uses

Figure: 19-5b Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0866

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





- Legend
- Onshore Development Area
 - Onshore Development Area 250m Buffer
 - Industrial land uses
 - Licensed pollutant release (Part
- National Grid High Pressure Gas Pipeline**
- Easington to Asselby

Features reference tables 19-17 and 19-18 in the report

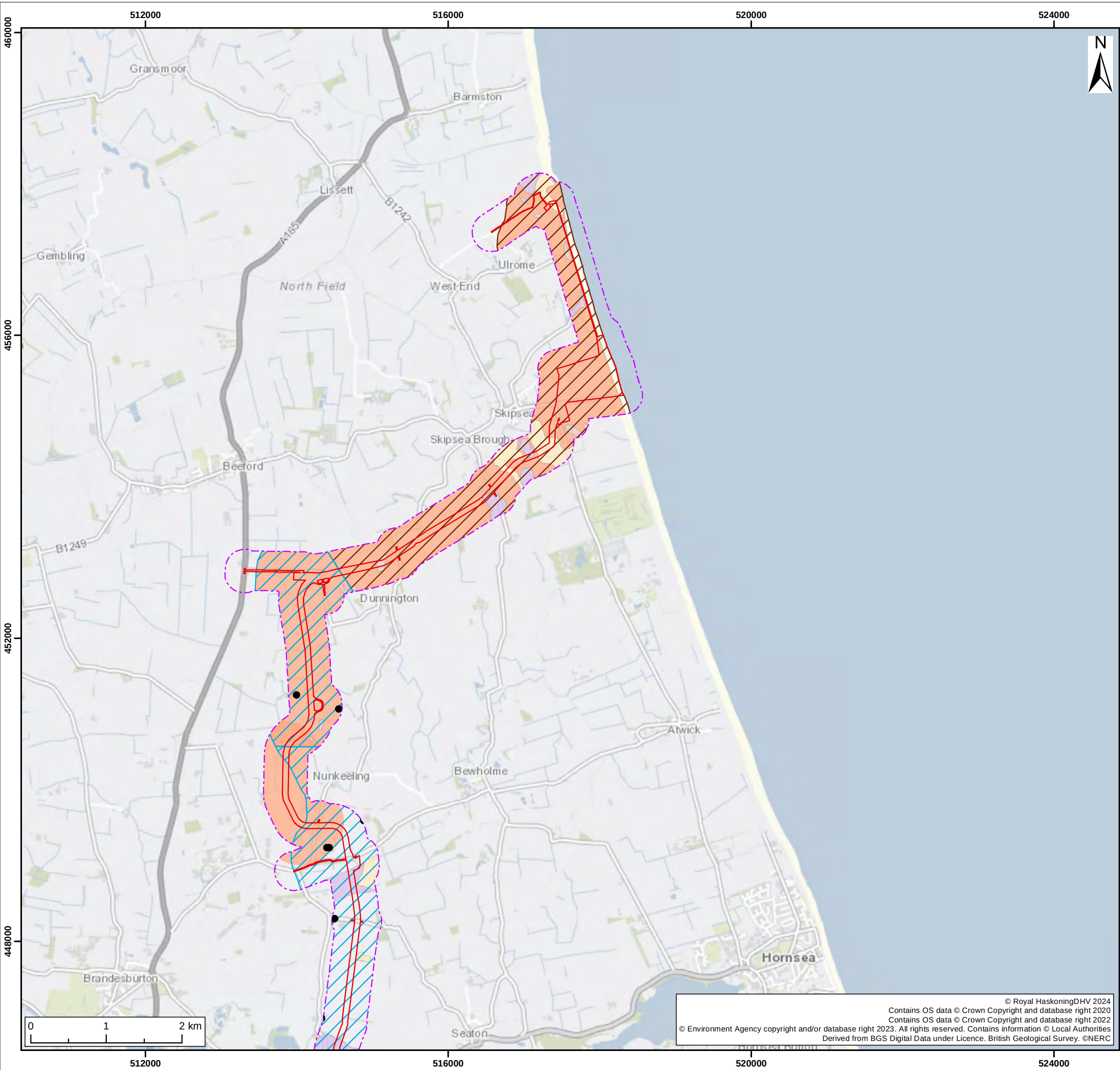
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SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:
Potentially Contaminative Current Land Uses

Figure: 19-5c Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0866

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- BGS Boreholes

50k Bedrock Geology

- Burnham Chalk Formation
- Flamborough Chalk Formation
- Rowe Chalk Formation

50k Superficial Geology

- Alluvium
- Glaciofluvial Deposits
- Head
- Lacustrine Deposits
- Marine Beach Deposits
- Storm Beach Deposits
- Sand and Gravel
- Till

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

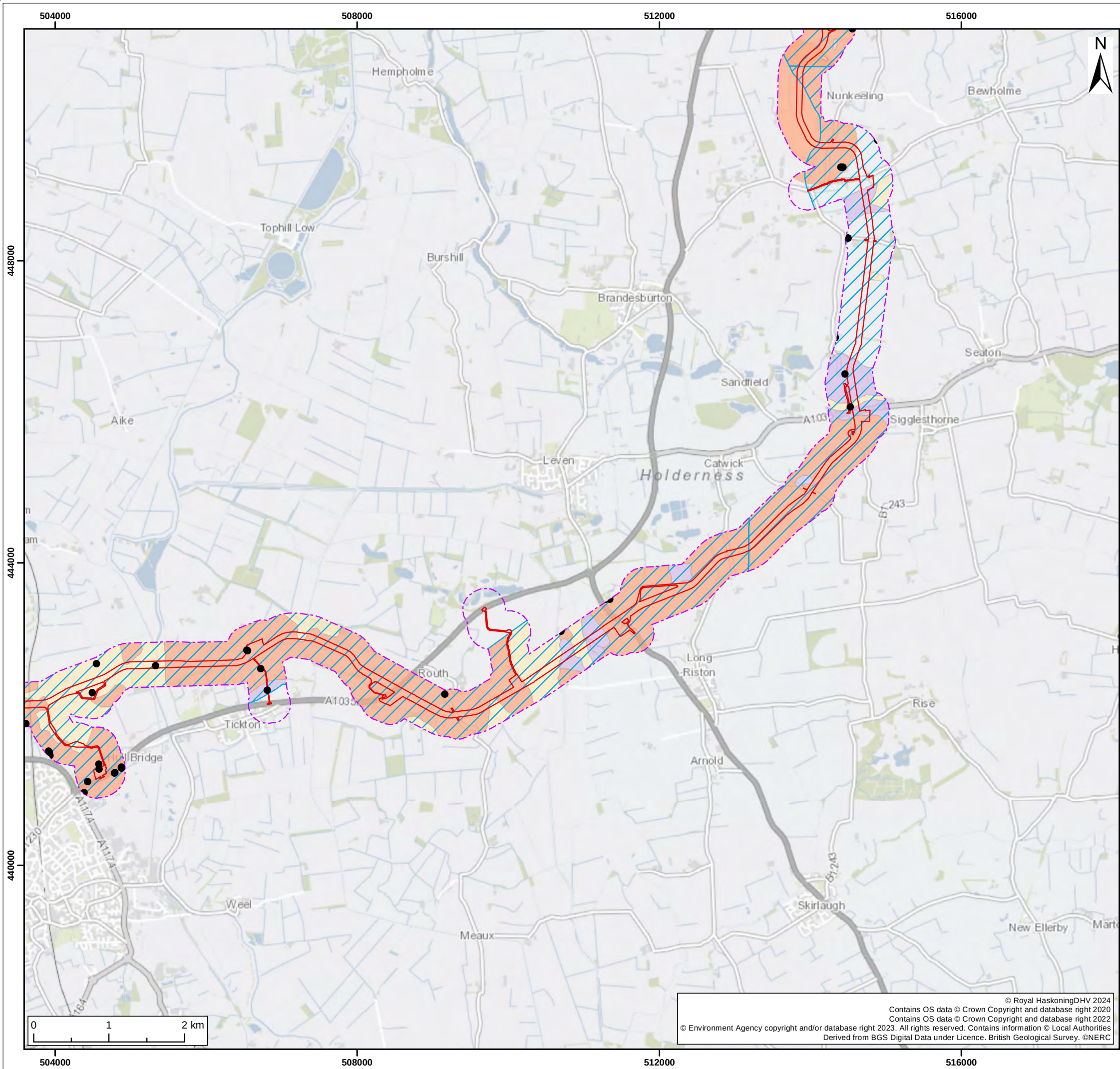
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Geology and Ground Conditions

Figure: 19-6a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0867

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- BGS Boreholes

50k Bedrock Geology

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- Flamborough Chalk Formation
- Rowe Chalk Formation

50k Superficial Geology

- Alluvium
- Glaciofluvial Deposits
- Head
- Lacustrine Deposits
- Marine Beach Deposits
- Storm Beach Deposits
- Sand and Gravel
- Till

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

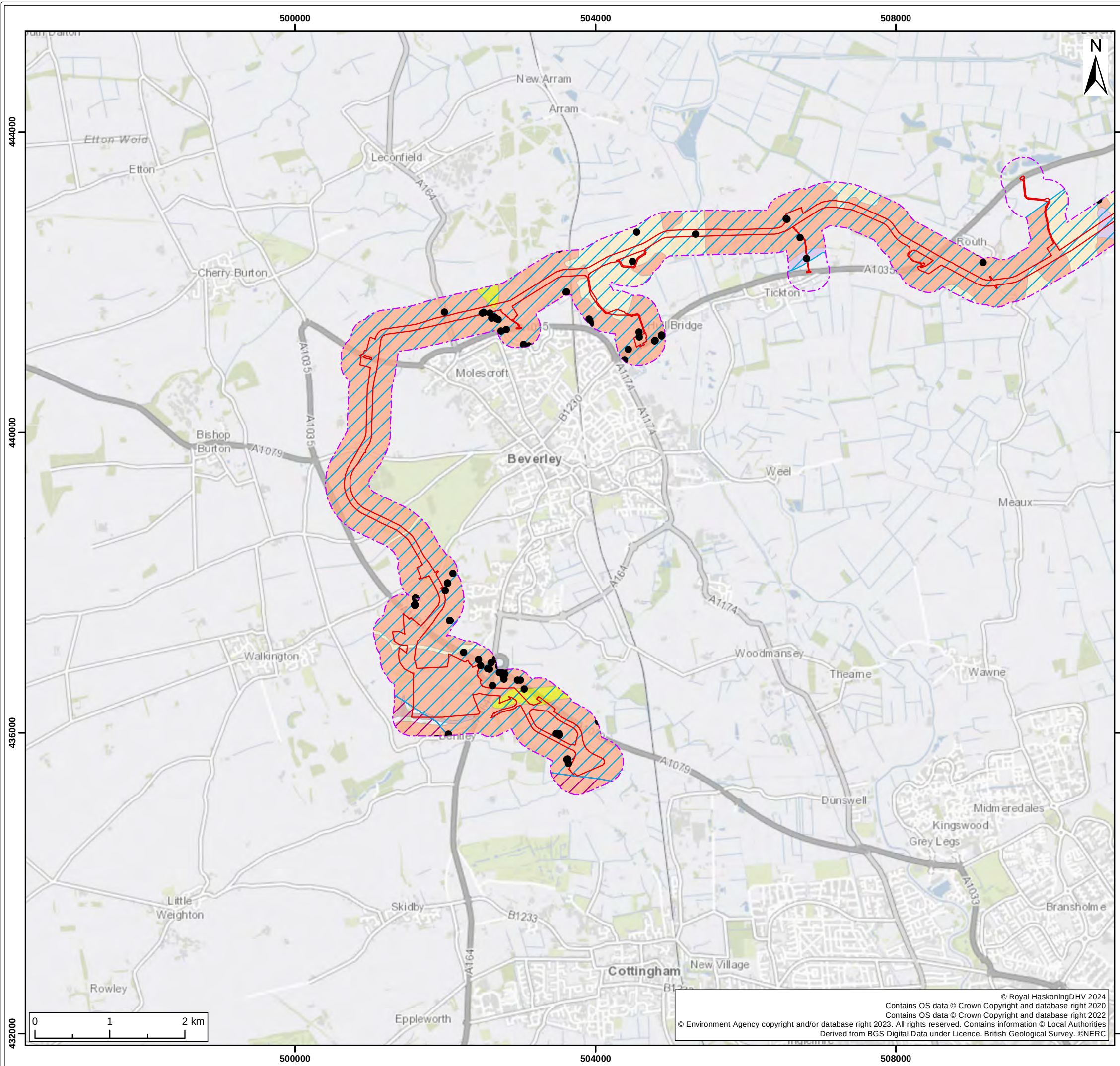
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Geology and Ground Conditions

Figure: 19-6b Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0867

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- BGS Boreholes

50k Bedrock Geology

- Burnham Chalk Formation
- Flamborough Chalk Formation
- Rowe Chalk Formation

50k Superficial Geology

- Alluvium
- Glaciofluvial Deposits
- Head
- Lacustrine Deposits
- Marine Beach Deposits
- Storm Beach Deposits
- Sand and Gravel
- Till

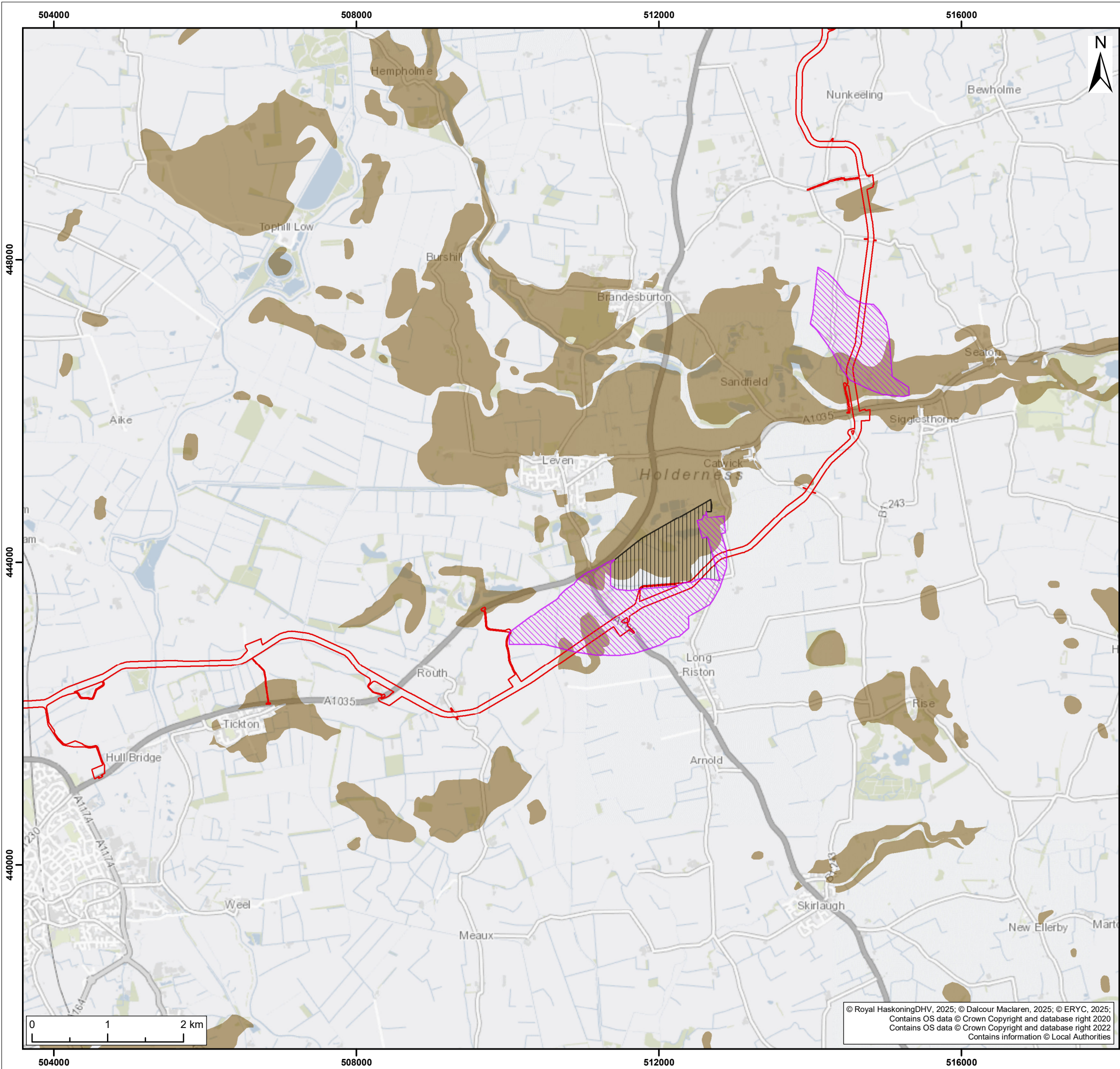
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:

Geology and Ground Conditions

Figure: 19-6c Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0867

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	



- Legend**
- Onshore Development Area
 - Mineral Safeguarding Areas
 - Area of Search
 - Preferred Area

Note:
The Preferred Areas & Areas of Search are clipped to approximately 700m from the Order Limits

Mineral Safeguarding Areas: draw attention to the existence of the underlying mineral when proposals for surface development are being planned.

Preferred Areas: are where resources are known to exist and where planning permission might reasonably be sought.

Areas of Search: are defined where there is less certainty about the mineral resource.

S4	P03	25/04/2025	Suitable for stage approval	SM	ND	
S3	P02	23/04/2025	Suitable for review & comment	SM	KD	ND
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

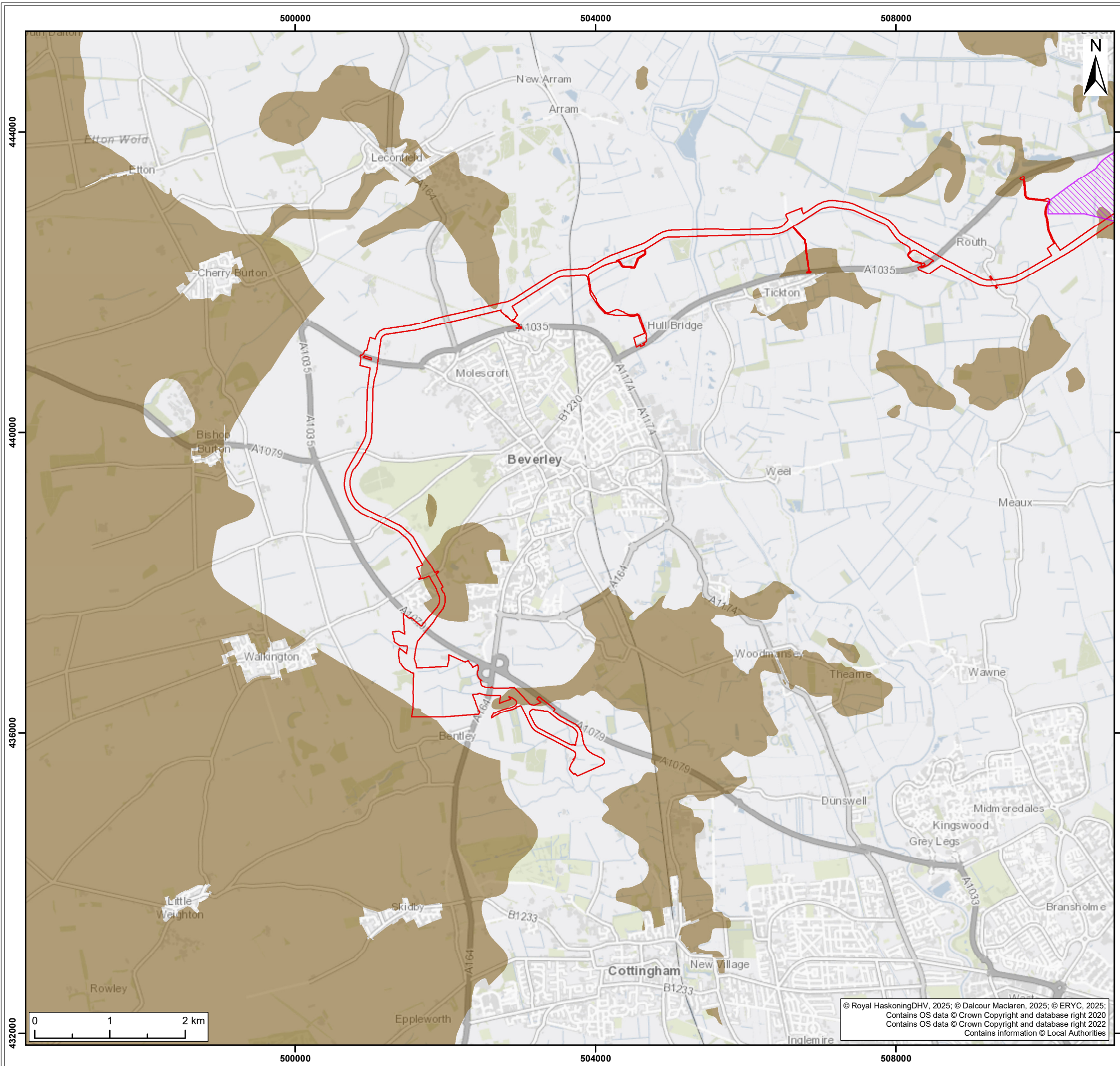
Title:

Mineral Safeguarding Areas

Figure: 19-7b Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0868

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	





- Legend**
- Onshore Development Area
 - Mineral Safeguarding Areas
 - Area of Search
 - Preferred Area

Note:
The Preferred Areas & Areas of Search are clipped to approximately 700m from the Order Limits

Mineral Safeguarding Areas: draw attention to the existence of the underlying mineral when proposals for surface development are being planned.

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S4	P03	25/04/2025	Suitable for stage approval	SM	ND	
S3	P02	23/04/2025	Suitable for review & comment	SM	KD	ND
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

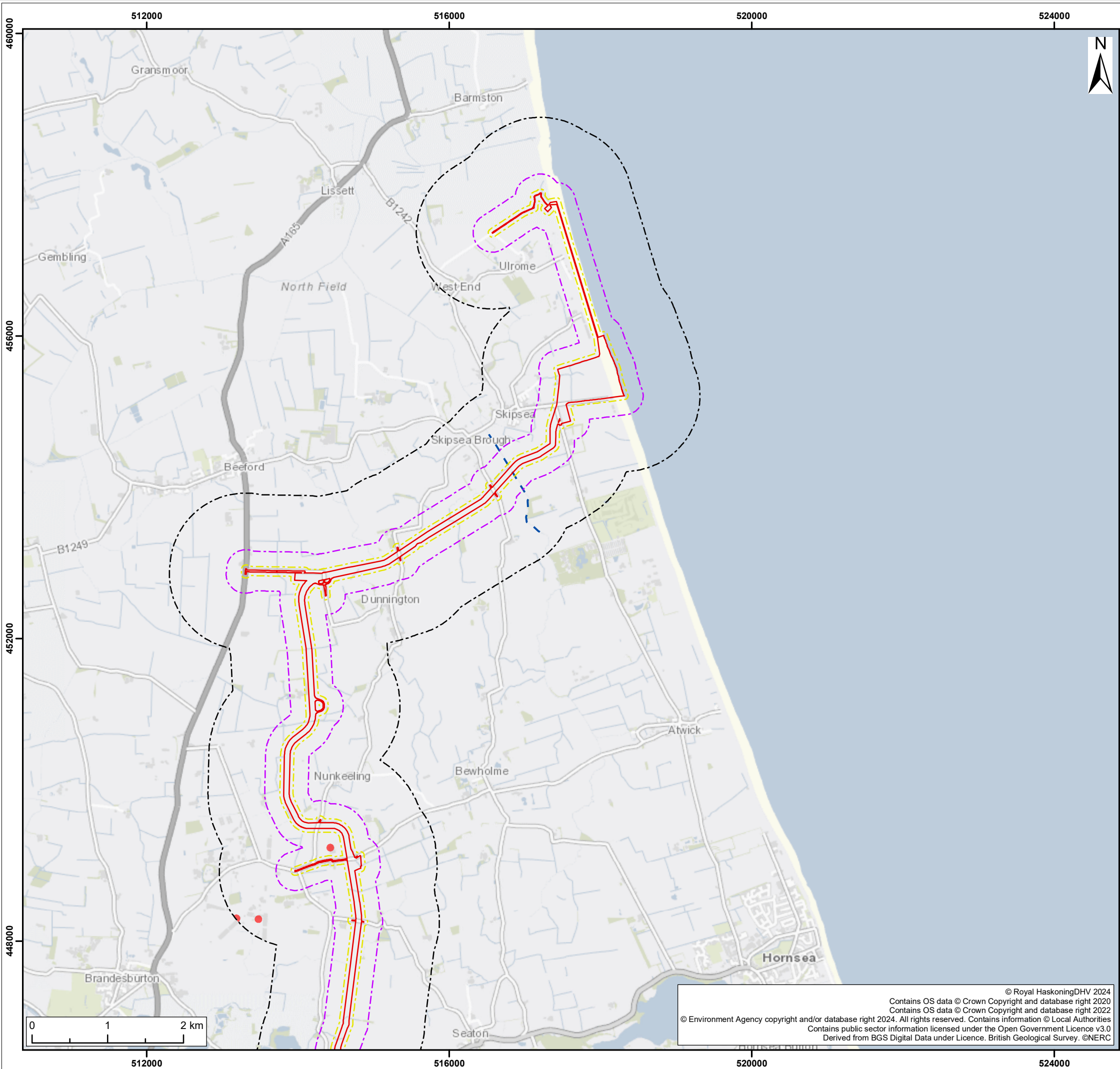
Title:

Mineral Safeguarding Areas

Figure: 19-7c		Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0868	
Co-ordinate system: British National Grid		Page Size: A3	Scale: 1:50,000
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Legend

- Onshore Development Area
- Onshore Development Area 50m Buffer
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- WFD Surface Water Body Linear Features
- Substation Zone 4

Source Protection Zone

- SPZ1
- SPZ2
- SPZ3
- Commercial abstraction well under the jurisdiction of the Local Authority
- Domestic Potable abstraction well under the jurisdiction of the Local Authority

Licensed groundwater & surface water abstractions (labelled licence number eg. 2/26/30/049)

- Groundwater - non potable
- Groundwater - potable
- Surface water - non potable

S3	P02	28/01/2025	Suitable for review & comment	SM	KD	ND
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

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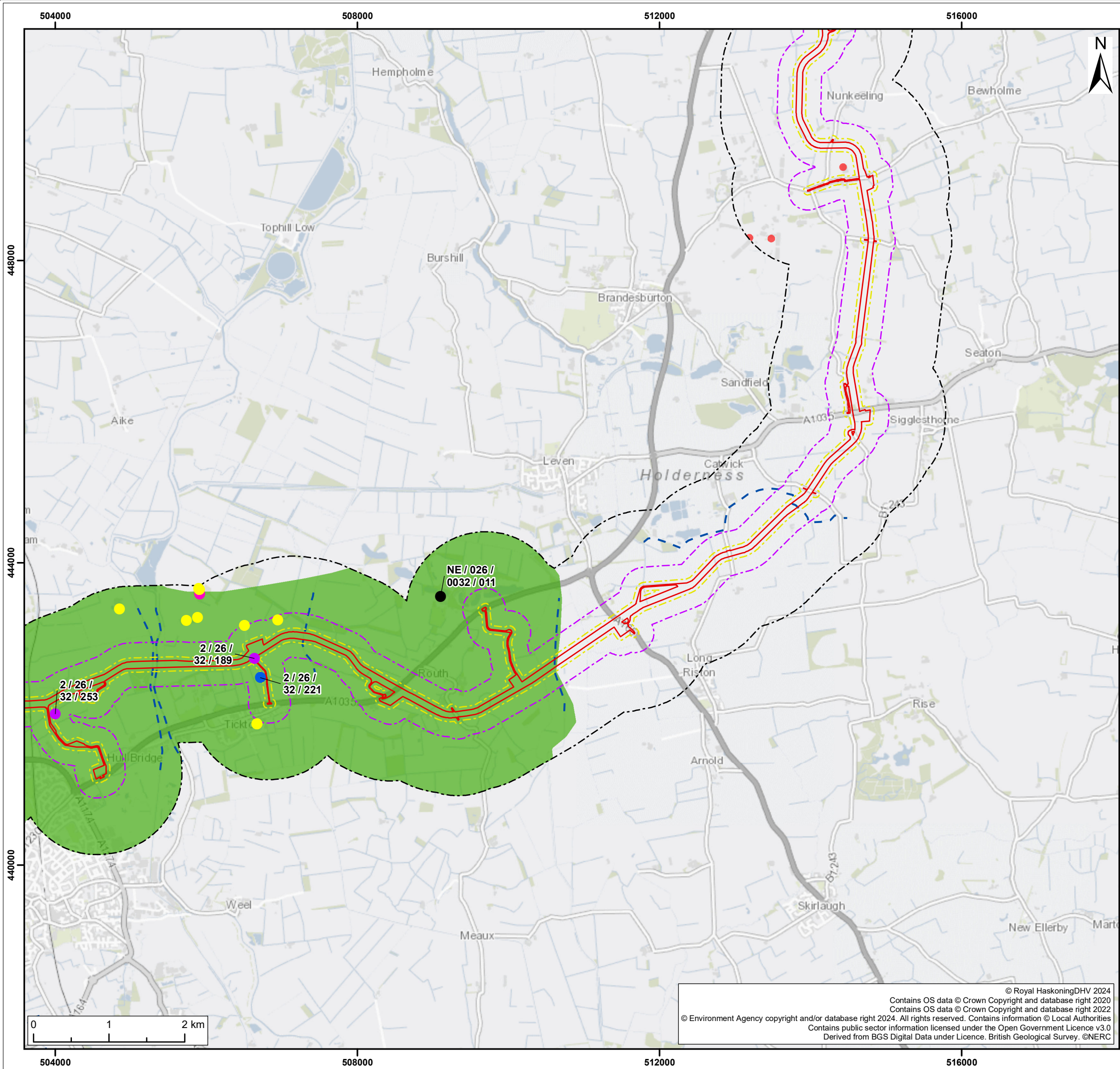
Hydrogeology and Hydrology

Figure: 19-8a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0869

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
Project: Dogger Bank South Offshore Wind Farms	Report: Environmental Statement	



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Legend

- Onshore Development Area
- Onshore Development Area 50m Buffer
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- WFD Surface Water Body Linear Features
- Substation Zone 4

Source Protection Zone

- SPZ1
- SPZ2
- SPZ3
- Commercial abstraction well under the jurisdiction of the Local Authority
- Domestic Potable abstraction well under the jurisdiction of the Local Authority

Licensed groundwater & surface water abstractions (labelled licence number eg. 2/26/30/049)

- Groundwater - non potable
- Groundwater - potable
- Surface water - non potable

S3	P02	28/01/2025	Suitable for review & comment	SM	KD	ND
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:

Hydrogeology and Hydrology

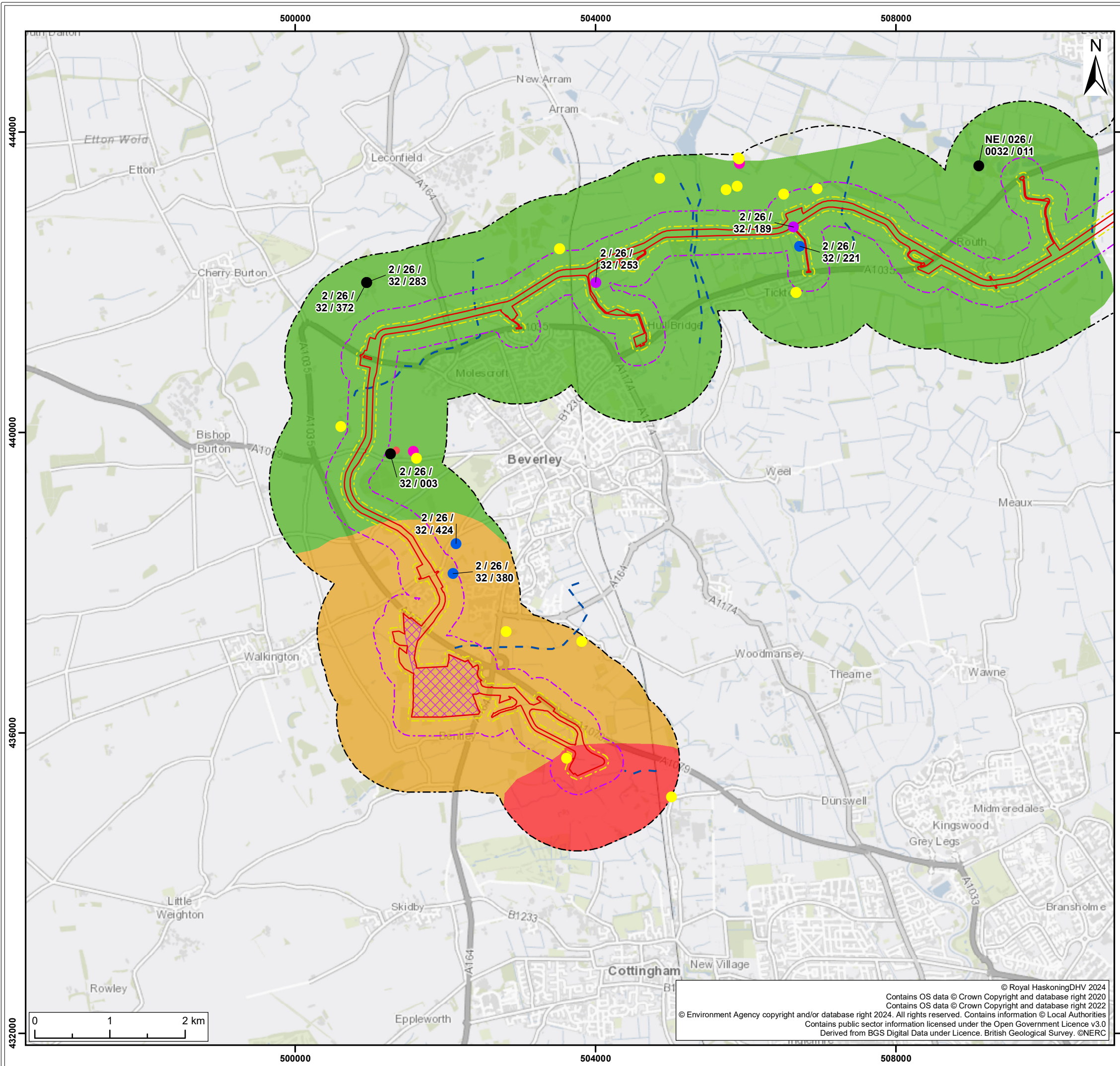
Figure: 19-8b Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0869

Co-ordinate system: British National Grid Page Size: A3 Scale: 1:50,000

Project: Dogger Bank South Offshore Wind Farms Report: Environmental Statement



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Legend

- Onshore Development Area
- Onshore Development Area 50m Buffer
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- WFD Surface Water Body Linear Features
- Substation Zone 4

Source Protection Zone

- SPZ1
- SPZ2
- SPZ3

- Commercial abstraction well under the jurisdiction of the Local Authority
- Domestic Potable abstraction well under the jurisdiction of the Local Authority

Licensed groundwater & surface water abstractions (labelled licence number eg. 2/26/30/049)

- Groundwater - non potable
- Groundwater - potable
- Surface water - non potable

S3	P02	28/01/2025	Suitable for review & comment	SM	KD	ND
S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

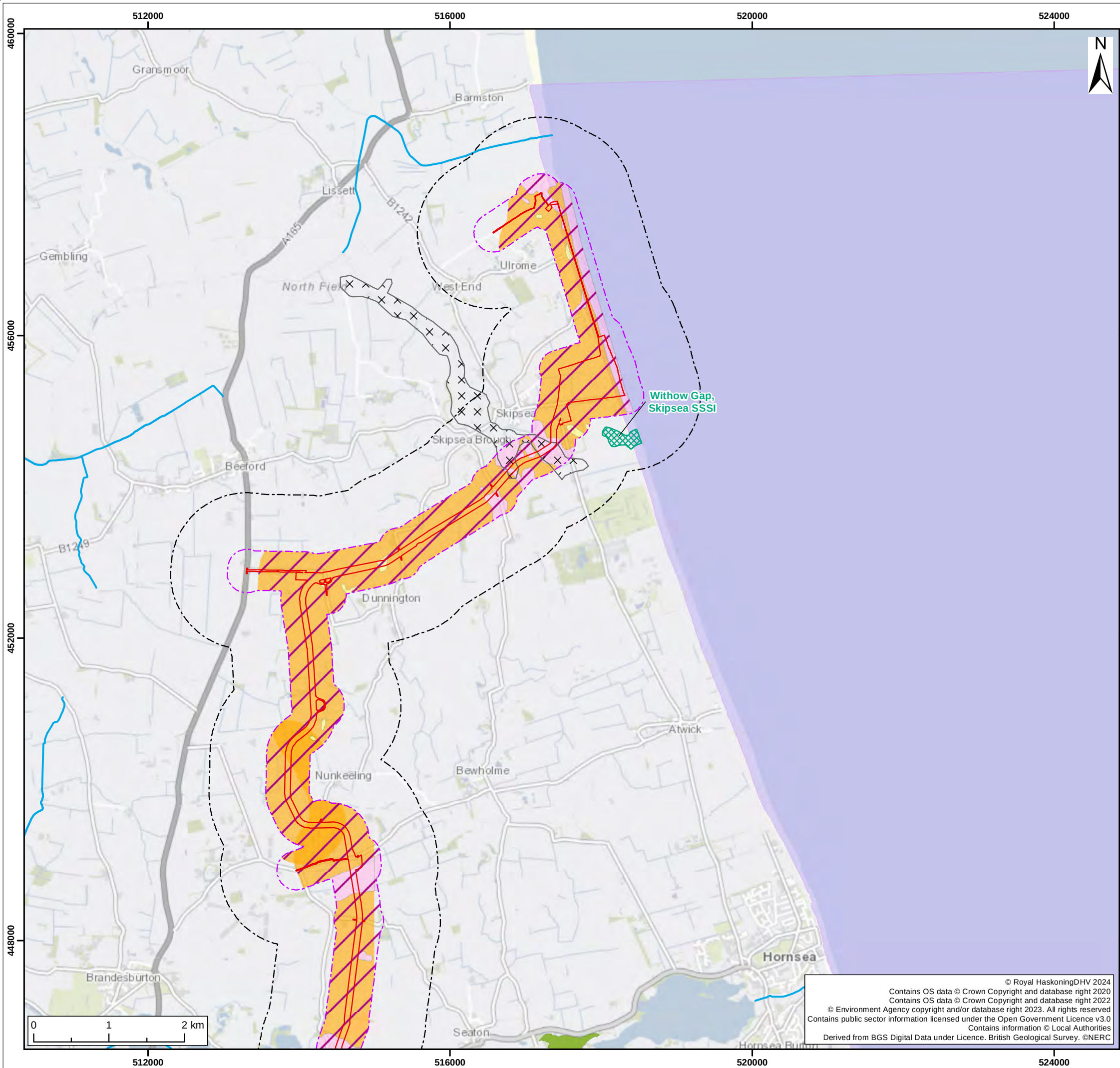
Title:

Hydrogeology and Hydrology

Figure: 19-8c

Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0869

Co-ordinate system: British National Grid	Page Size: A3	Scale: 1:50,000
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Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Statutory Main Rivers
- Local Geological Site
- Sites of Special Scientific Interest
- Principal Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Superficial Aquifer
- Secondary Superficial Aquifer Undifferentiated
- Special Protection Area
- Ancient Woodland

Licensed groundwater abstractions (labelled licence number eg. 2/26/30/049)

- Non potable
- Potable

Features reference table 19.45

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:

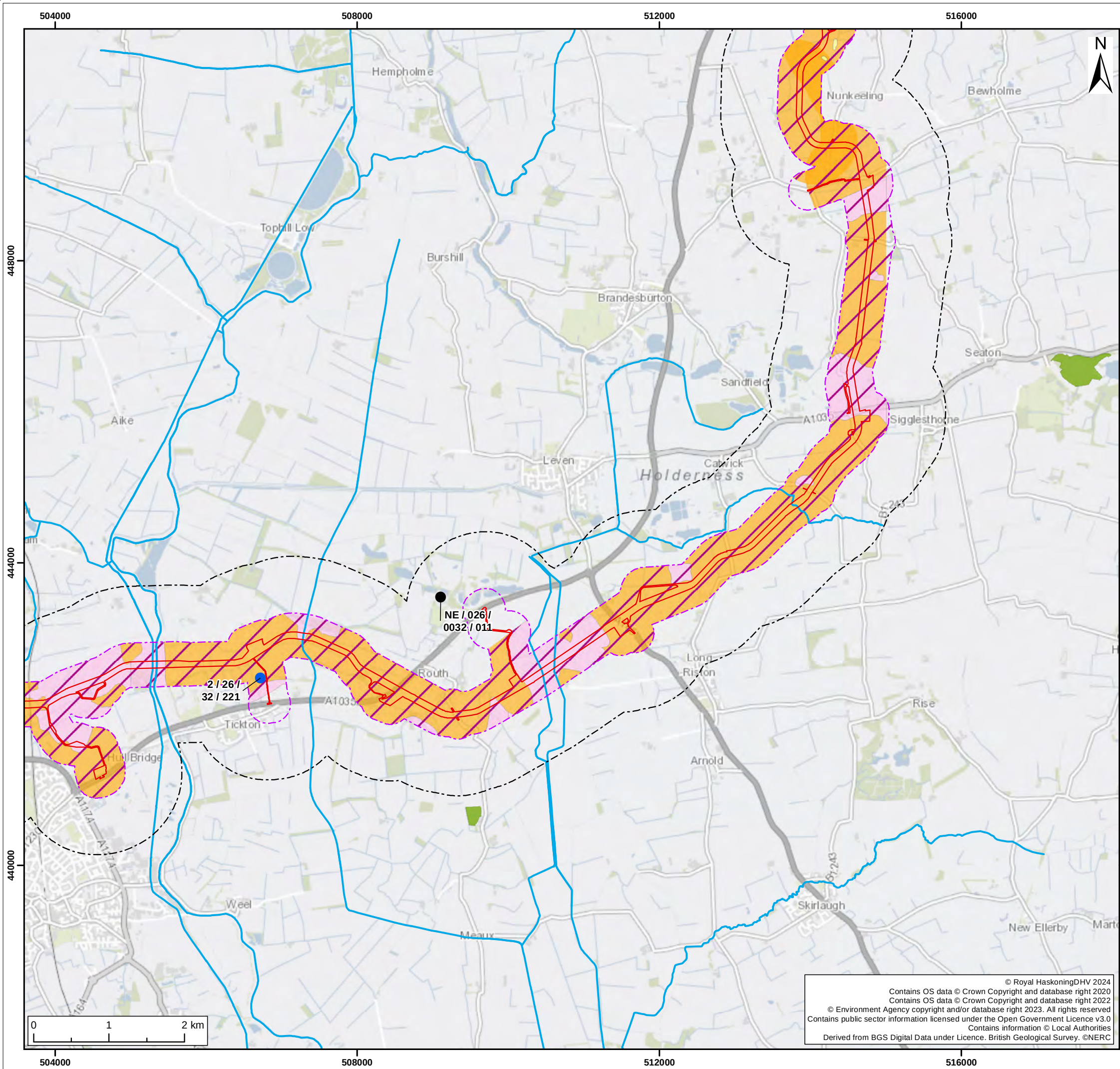
Potential Receptors

Figure: 19-9a Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0870

Co-ordinate system: British National Grid Page Size: A3 Scale: 1:50,000

Project: Dogger Bank South Offshore Wind Farms Report: Environmental Statement





Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Statutory Main Rivers
- Local Geological Site
- Sites of Special Scientific Interest
- Principal Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Superficial Aquifer
- Secondary Superficial Aquifer Undifferentiated
- Special Protection Area
- Ancient Woodland

Licensed groundwater abstractions (labelled licence number eg. 2/26/30/049)

- Non potable
- Potable

Features reference table 19.45

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:

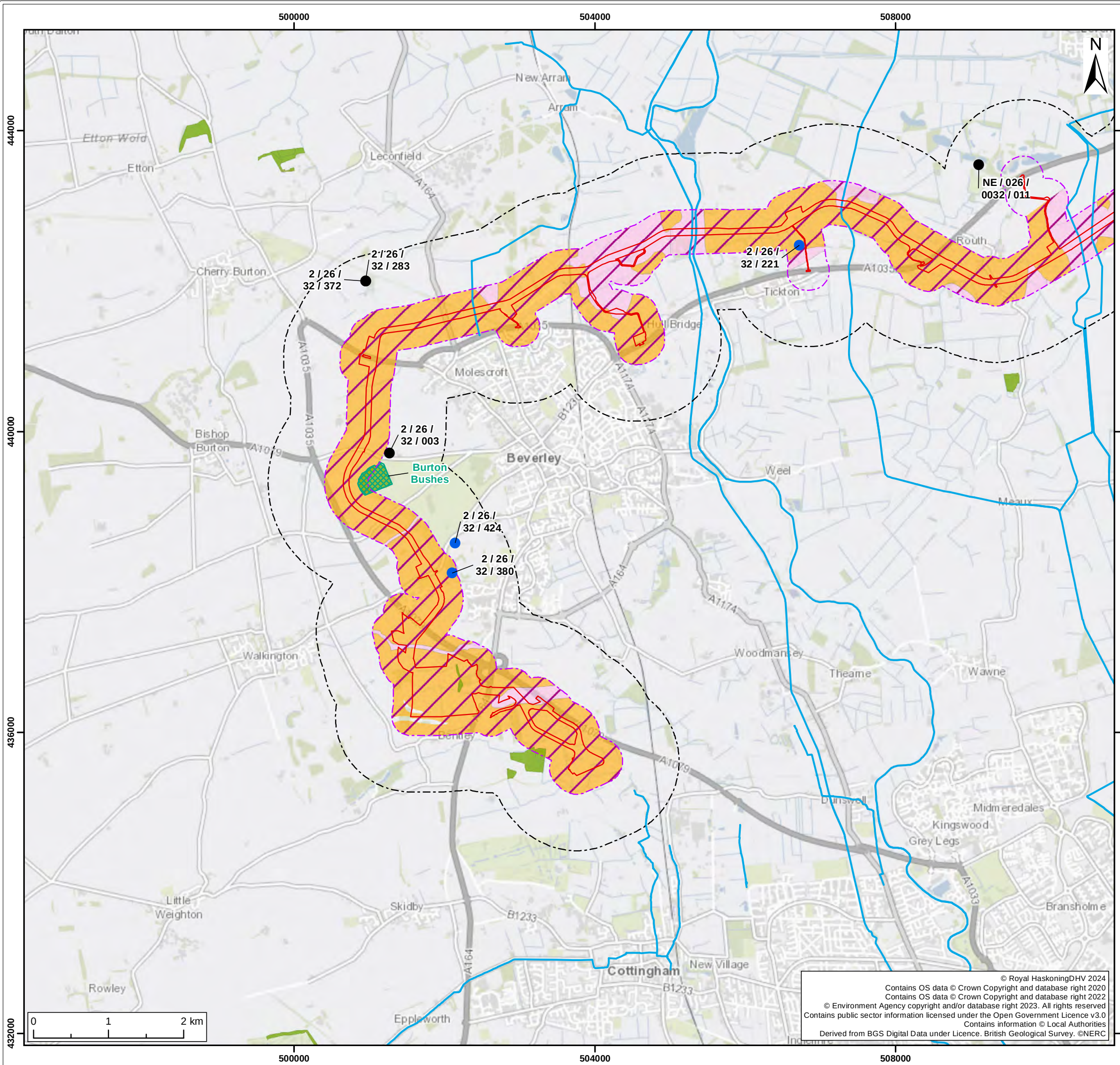
Potential Receptors

Figure: 19-9b Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0870

Co-ordinate system: British National Grid Page Size: A3 Scale: 1:50,000

Project: Dogger Bank South Offshore Wind Farms Report: Environmental Statement





Legend

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Statutory Main Rivers
- Local Geological Site
- Sites of Special Scientific Interest
- Principal Bedrock Aquifer
- Secondary A Superficial Aquifer
- Secondary B Superficial Aquifer
- Secondary Superficial Aquifer Undifferentiated
- Special Protection Area
- Ancient Woodland

Licensed groundwater abstractions (labelled licence number eg. 2/26/30/049)

- Non potable
- Potable

Features reference table 19.45

S2	P01	30/04/2024	Suitable for Information	SB	KD	ND
SUI	REV	DATE	DESCRIPTION	DRW	CHK	APR

Title:
Potential Receptors

Figure: 19-9c Drawing No: PC2340-RHD-ON-ZZ-DR-Z-0870

Co-ordinate system: British National Grid Page Size: A3 Scale: 1:50,000

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