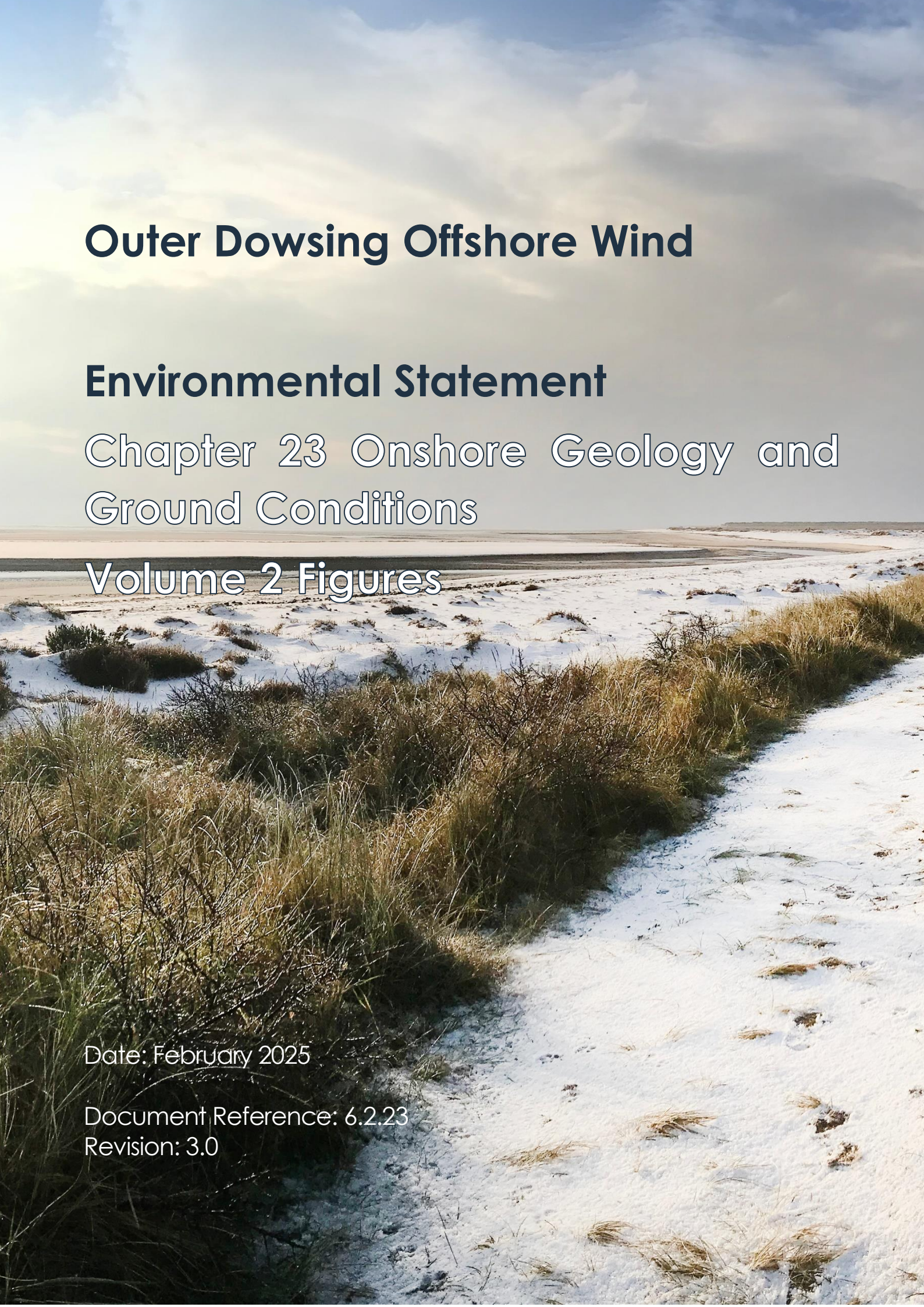


The background image is a photograph of a coastal landscape. In the foreground, there is a sandy path or dune area with patches of dry, yellowish-brown grass and some small, dark shrubs. The path leads towards a flat, sandy beach that stretches to the horizon. The sky is filled with soft, white and grey clouds, suggesting an overcast day. The overall tone is natural and somewhat desolate.

Outer Dowsing Offshore Wind

Environmental Statement

Chapter 23 Onshore Geology and Ground Conditions

Volume 2 Figures

Date: February 2025

Document Reference: 6.2.23

Revision: 3.0

Company:		Outer Dowsing Offshore Wind		Asset:		Whole Asset	
Project:		Whole Wind Farm		Sub Project/Package:		Whole Asset	
Document Title or Description:		Chapter 23 Onshore Geology and Ground Conditions Figures					
Internal Document Number:		PP1-ODOW-DEV-CS-FIG-0023_03		3 rd Party Doc No (If applicable):		N/A	
Rev No.	Date	Status / Reason for Issue	Author	Checked by	Reviewed by		Approved by
1.0	March 2024	DCO Application	Outer Dowsing	SLR	Shepherd & Wedderburn		Outer Dowsing
2.0	July 2024	Response to Section 51 Advice	SLR	SLR	Shepherd & Wedderburn		Outer Dowsing
3.0	February 2025	Examination Update	SLR	SLR	Shepherd & Wedderburn		Outer Dowsing

Table of Figures

- Figure 23.1 Study Area and ECC Route Segments (document reference 6.2.23.1)
- Figure 23.2 Superficial Geology (document reference 6.2.23.2)
- Figure 23.3 Bedrock Geology (document reference 6.2.23.3)
- Figure 23.4 Potential Sources of Contamination (document reference 6.2.23.4)

Change Log

- Figures 23.1 – 23.4 inclusive, have been updated to reflect refinements to the Project Order Limits made during Examination.



Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer
- Onshore Substation (OnSS) Footprint
- Landfall Trenchless Works Area
- Transition Joint Bay Area
- Connection Area



Coordinate System: British National Grid

0 5 10 km

Scale: 1:200,000

A3 Page Size

Environmental Statement Version 2
Examination Update

Study Area and ECC Route Segments

Figure 23.1



OUTER DOWSING
OFFSHORE WIND

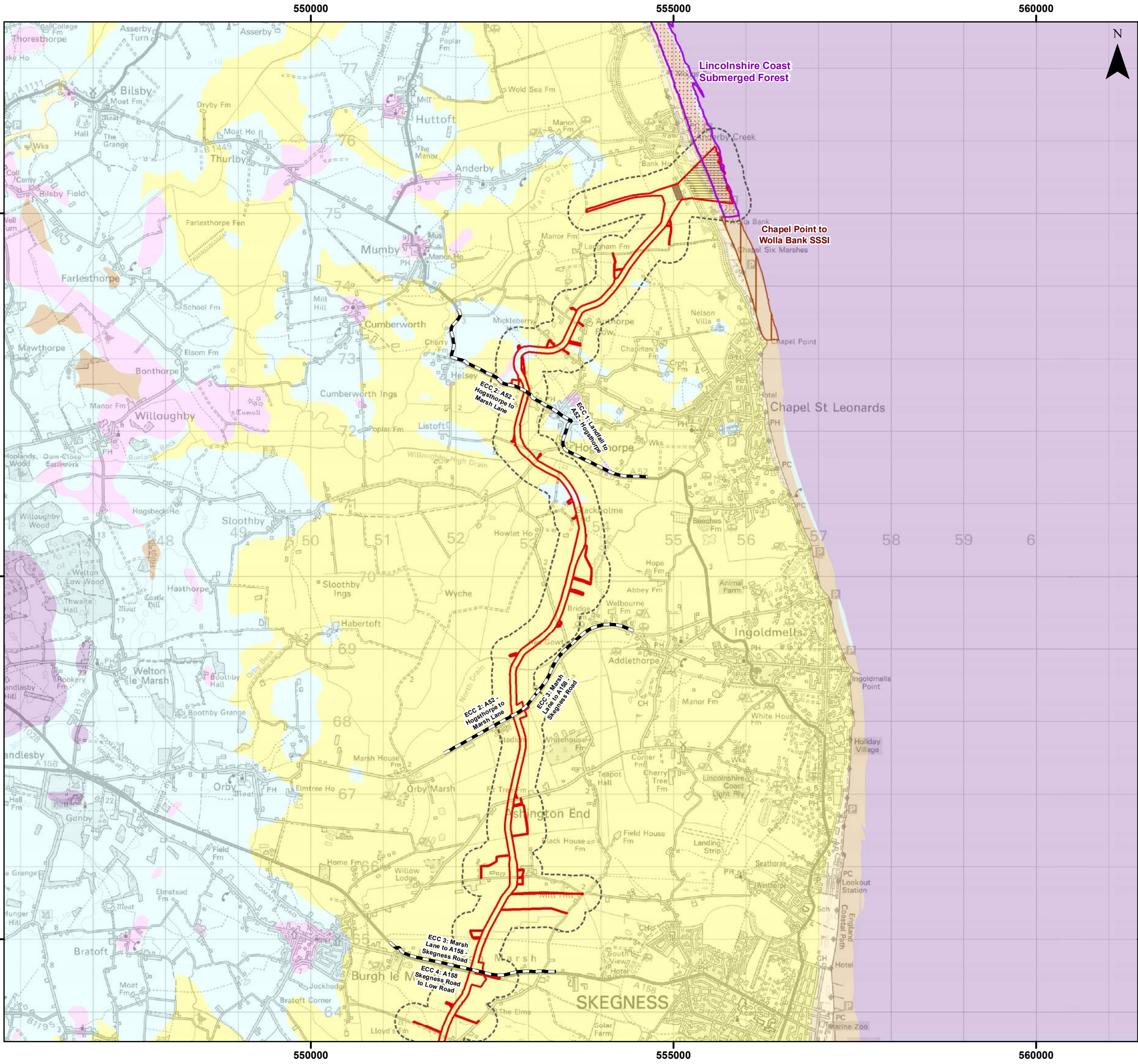


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Document Path: \\gis1\as\GIS\Projects\11\Projects\05356 - Gobe Consultants Ltd\00012 GTR4 Outer Dowing\Tech\GIS\Drawings\Wing\2024 05 S51\DS\Geology and Ground Conditions\Chapter\05356 00012 1364.0 Study Area and ECC Route Segments.mxd



Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works
- Transition Joint Bay
- Order Limits 250 m Buffer
- Site of Special Scientific Interest (SSSI) Cited for Geological Features
- Local Geological Site

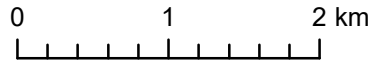
Superficial Deposits

- Alluvium - Clay, Silt, Sand And Gravel
- Beach And Tidal Flat Deposits - Clay, Silt And Sand
- Bedrock at or Near Surface
- Blown Sand – Sand
- Glaciofluvial Deposits, Devensian - Sand And Gravel
- Peat – Peat
- Tidal Flat Deposits - Clay, Silt And Sand
- Till, Devensian – Diamicton

Sources:
Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC. All Rights Reserved.



Coordinate System: British National Grid



Scale: 1:50,000

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Environmental Statement Version 2
Examination Update

Superficial Geology

Figure 23.2.1

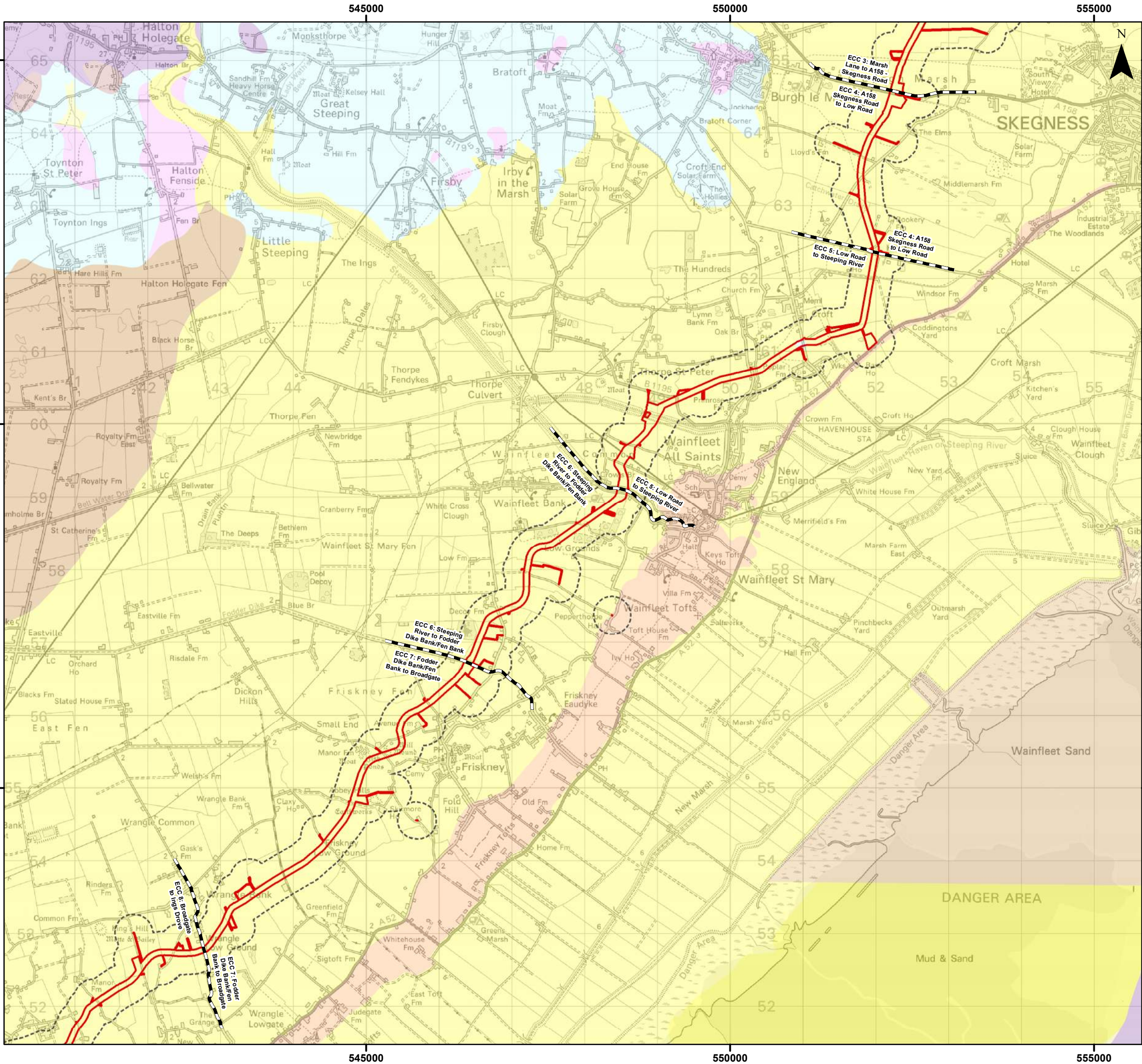


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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Superficial Deposits**
 - Bank Deposits – Sand
 - Beach And Tidal Flat Deposits - Clay, Silt And Sand
 - Bedrock at or Near Surface
 - Blown Sand – Sand
 - Glaciofluvial Deposits, Devensian - Sand And Gravel
 - Peat – Peat
 - Storm Beach Deposits - Sand And Gravel
 - Storm Beach Deposits - Sand And Silt
 - Tidal Flat Deposits - Clay And Silt
 - Till, Devensian – Diamicton

Sources:
Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC.
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Coordinate System: British National Grid

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Scale: 1:50,000

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Superficial Geology

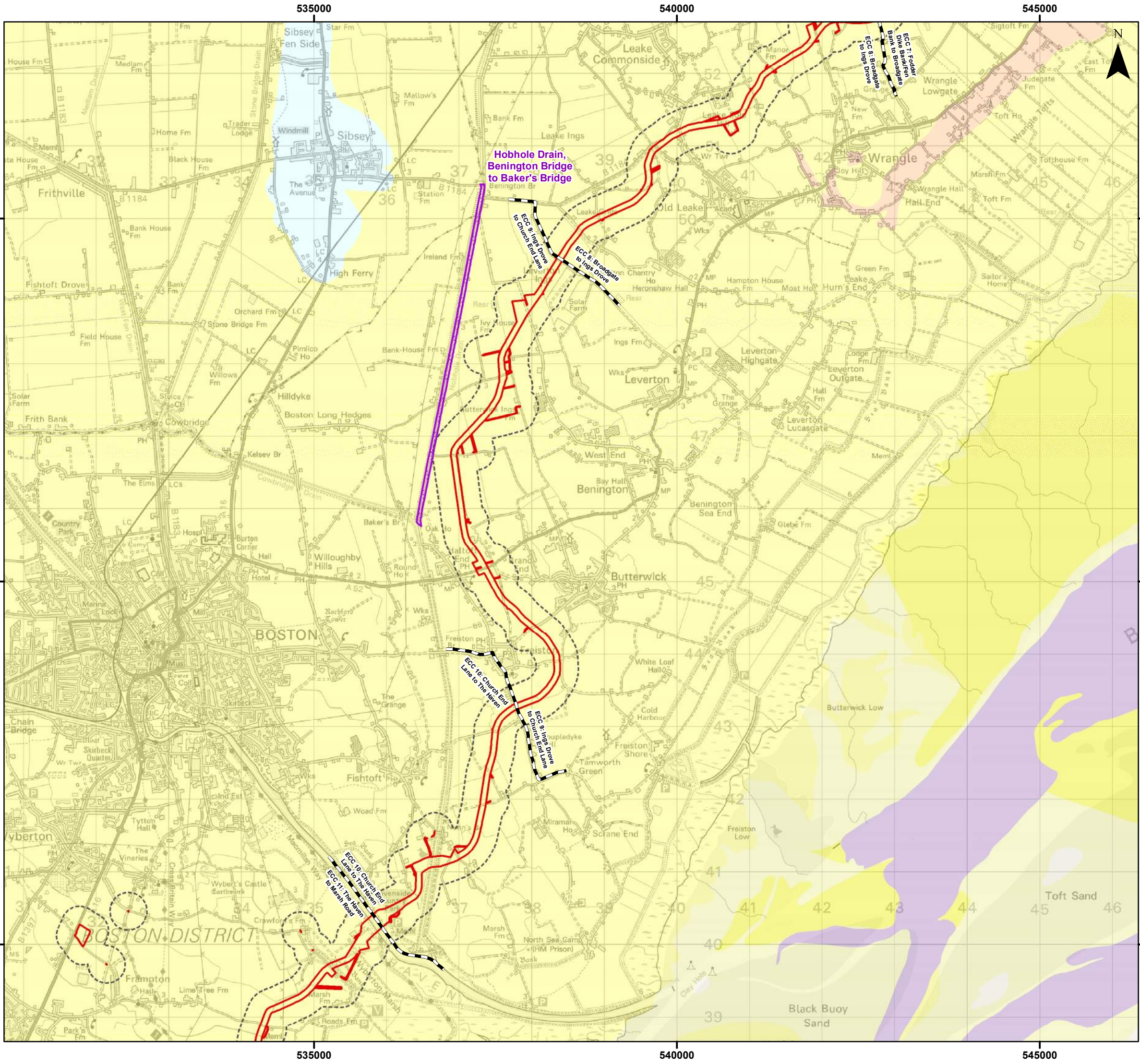
Figure 23.2.2



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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Local Geological Site
- Superficial Deposits**
 - Bank Deposits – Sand
 - Bedrock at or Near Surface
 - Blown Sand – Sand
 - Intertidal Deposits - Sand, Silt And Clay
 - Shell Bank - Sediment, Shell (Shells)
 - Storm Beach Deposits - Sand And Silt
 - Tidal Flat Deposits - Clay And Silt
 - Tidal Flat Deposits, 1 - Clay And Silt
 - Till, Devensian – Diamicton

Sources:
Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC.
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Coordinate System: British National Grid

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Scale: 1:50,000

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Examination Update

Superficial Geology

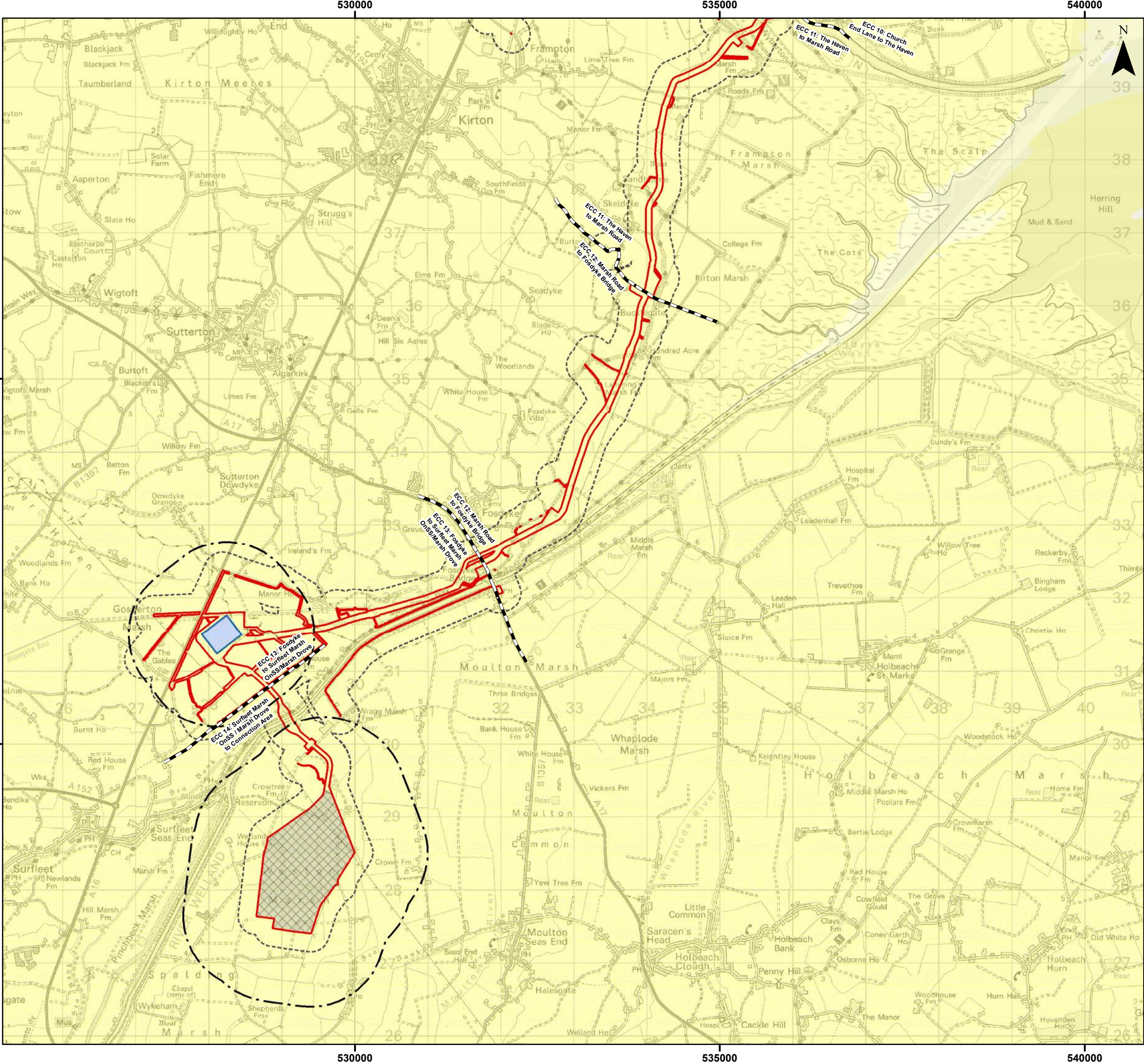
Figure 23.2.3



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Legend

- Order Limits
- Onshore Segment Break
- Onshore Substation (OnSS) Footprint
- Connection Area
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer

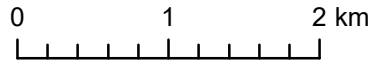
Superficial Deposits

- Intertidal Deposits - Sand, Silt And Clay
- Shell Bank - Sediment, Shell (Shells)
- Tidal Flat Deposits - Clay And Silt
- Tidal Flat Deposits - Clay, Silt And Sand

Sources:
Superficial Geology data obtained via BGS WMS. British Geological Survey © NERC.
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Coordinate System: British National Grid



Scale: 1:50,000

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Examination Update

Superficial Geology

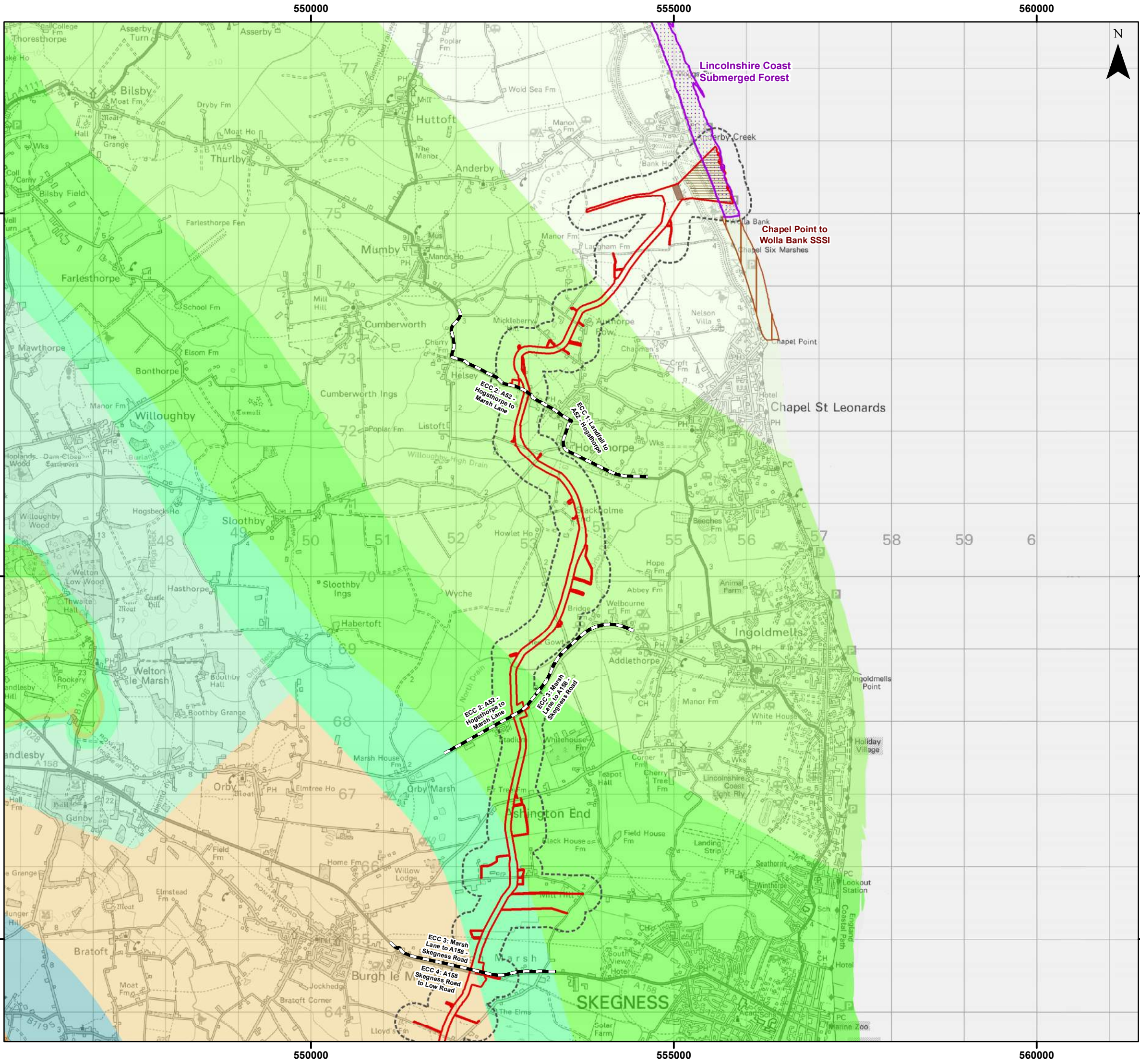
Figure 23.2.4



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Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works Area
- Transition Joint Bay Area
- Order Limits 250 m Buffer
- Site of Special Scientific Interest (SSSI) Cited for Geological Features
- Local Geological Site

Sedimentary Bedrock

- Burnham Chalk Formation – Chalk
- Welton Chalk Formation – Chalk
- Ferriby Chalk Formation – Chalk
- Hunstanton Formation – Chalk
- Carstone Formation – Sandstone
- Roach Formation - Mudstone And Limestone, Interbedded
- Claxby Ironstone Formation, Tealby Formation And Roach Formation - Mudstone And Limestone, Interbedded
- Spilsby Sandstone Formation – Sandstone

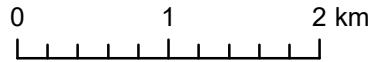
Cretaceous

Jurassic

Sources:
Bedrock Geology data obtained via BGS WMS, British Geological Survey © NERC. All Rights Reserved.



Coordinate System: British National Grid



Scale: 1:50,000

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Bedrock Geology

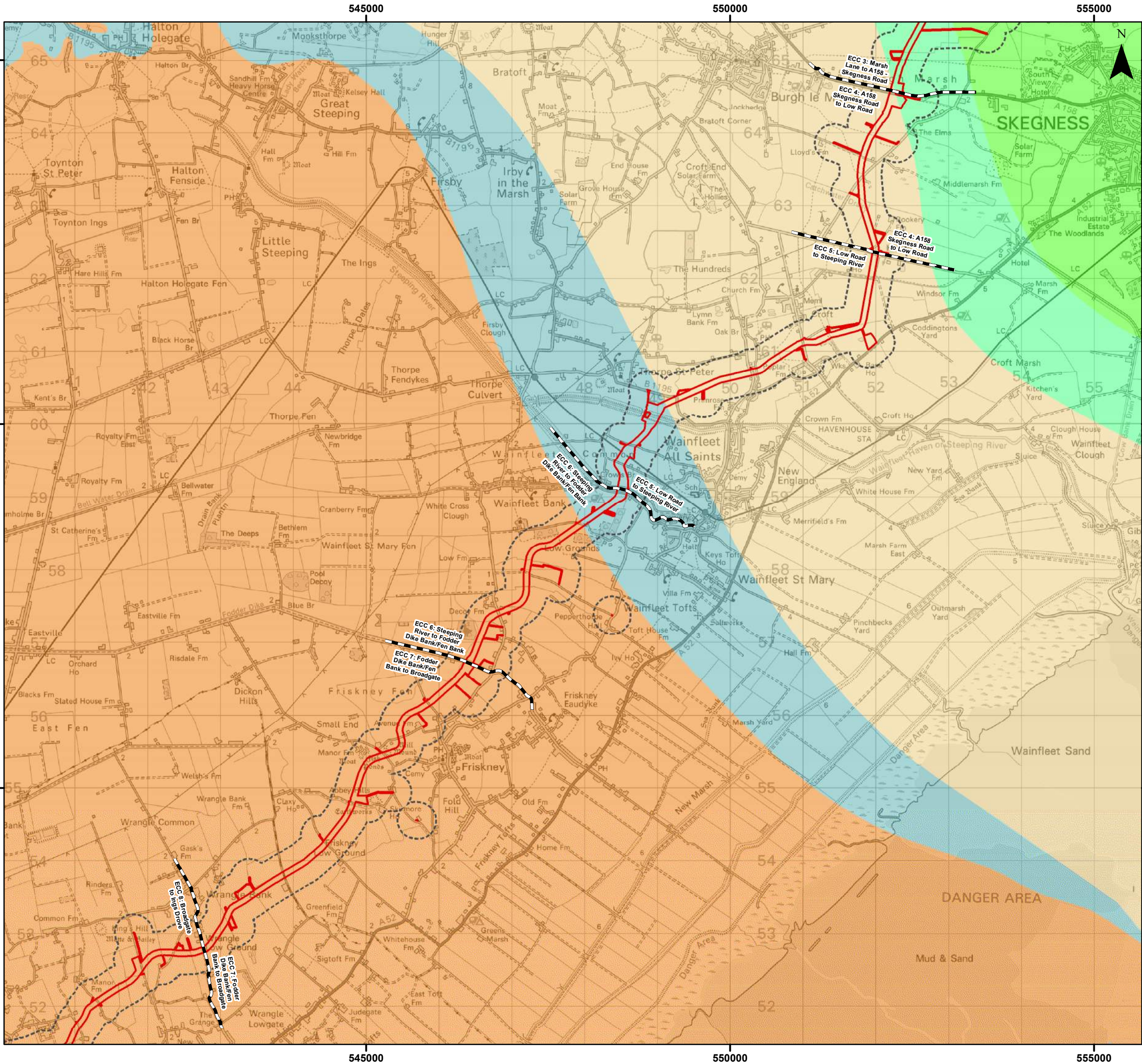
Figure 23.3.1



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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Sedimentary Bedrock**
 - Ferriby Chalk Formation – Chalk
 - Carstone Formation – Sandstone
 - Claxby Ironstone Formation, Tealby Formation And Roach Formation - Mudstone And Limestone, Interbedded
 - Spilsby Sandstone Formation – Sandstone
 - Kimmeridge Clay Formation – Mudstone

Sources:
Bedrock Geology data obtained via BGS WMS. British Geological Survey © NERC.
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Coordinate System: British National Grid

0 1 2 km

Scale: 1:50,000

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Bedrock Geology

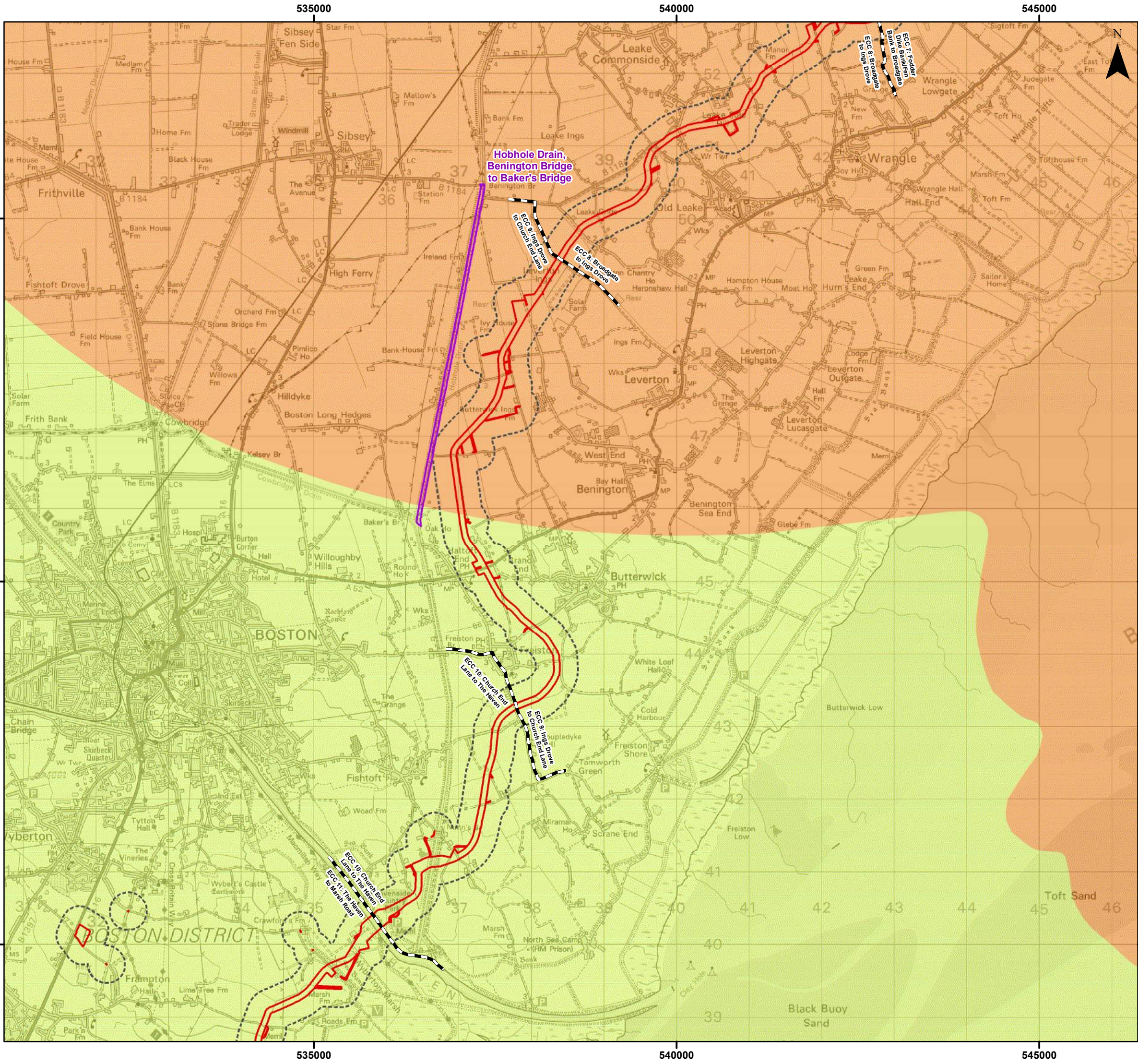
Figure 23.3.2

OUTER DOWSING
OFFSHORE WIND

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Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Local Geological Site
- Sedimentary Bedrock**
 - Kimmeridge Clay Formation – Mudstone
 - Amphthill Clay Formation – Mudstone

Sources:
Bedrock Geology data obtained via BGS WMS, British Geological Survey © NERC.
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Coordinate System: British National Grid

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Scale: 1:50,000

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Bedrock Geology

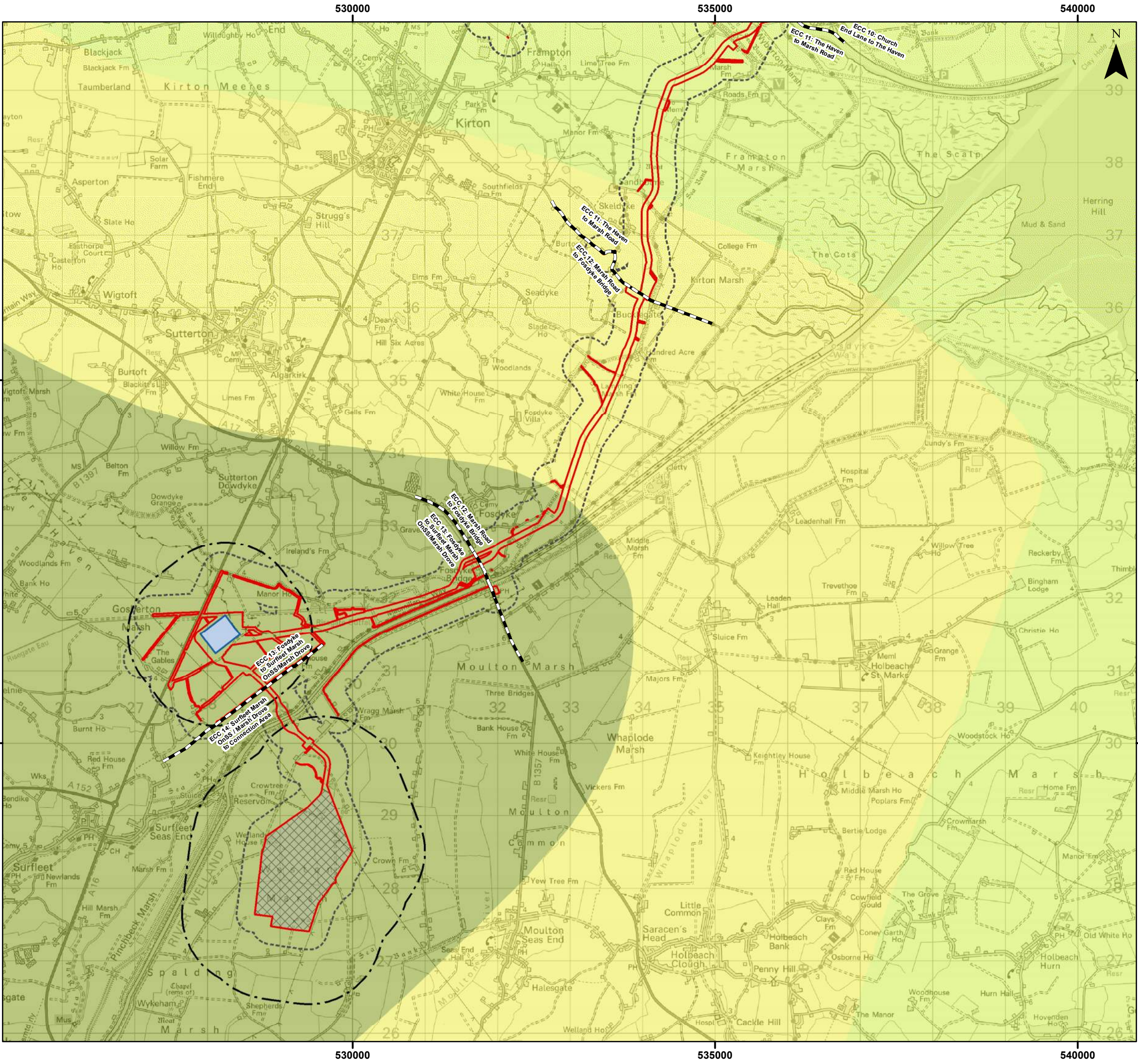
Figure 23.3.3



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Legend

- Order Limits
- Onshore Segment Break
- Onshore Substation (OnSS) Footprint
- Connection Area
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer

Sedimentary Bedrock

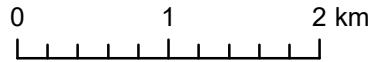
- Ampthill Clay Formation – Mudstone
- West Walton Formation - Mudstone And Siltstone
- Oxford Clay Formation – Mudstone

Jurassic

Sources:
Bedrock Geology data obtained via BGS WMS, British Geological Survey © NERC.
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Bedrock Geology

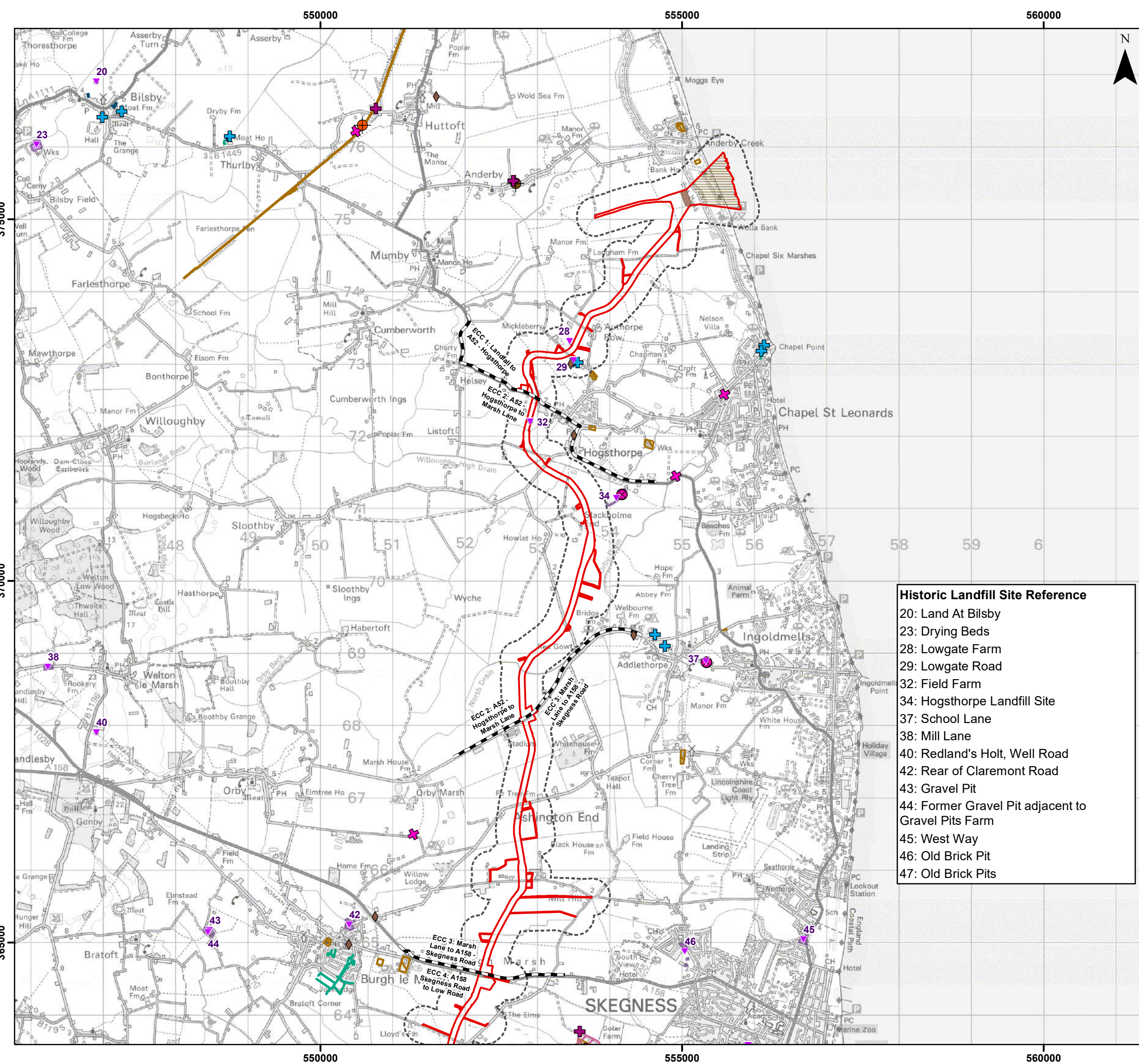
Figure 23.3.4



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Legend

- Order Limits
- Onshore Segment Break
- Landfall Trenchless Works
- Transition Joint Bay Area
- Order Limits 250 m Buffer
- Historic Landfill Site (Centroid)
- Historic Landfill Site (Boundary)
- Potentially Contaminative Industrial Uses (Past Land Use) Point
- Potentially Contaminative Industrial Uses (Past Land Use) Line
- Potentially Contaminative Industrial Uses (Past Land Use)
- Licensed Waste Management Facilities Location
- Licensed Waste Management Facilities Landfill Boundary
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water) Point
- Infilled Ground (Water) Line
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Waste Treatment Site
- Registered Waste Transport Site
- Substantiated Pollution Incident Register

Sources:
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Historic Landfill Site Reference

- 20: Land At Bilsby
- 23: Drying Beds
- 28: Lowgate Farm
- 29: Lowgate Road
- 32: Field Farm
- 34: Hogsthorpe Landfill Site
- 37: School Lane
- 38: Mill Lane
- 40: Redland's Holt, Well Road
- 42: Rear of Claremont Road
- 43: Gravel Pit
- 44: Former Gravel Pit adjacent to Gravel Pits Farm
- 45: West Way
- 46: Old Brick Pit
- 47: Old Brick Pits

Coordinate System: British National Grid

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Scale: 1:50,000

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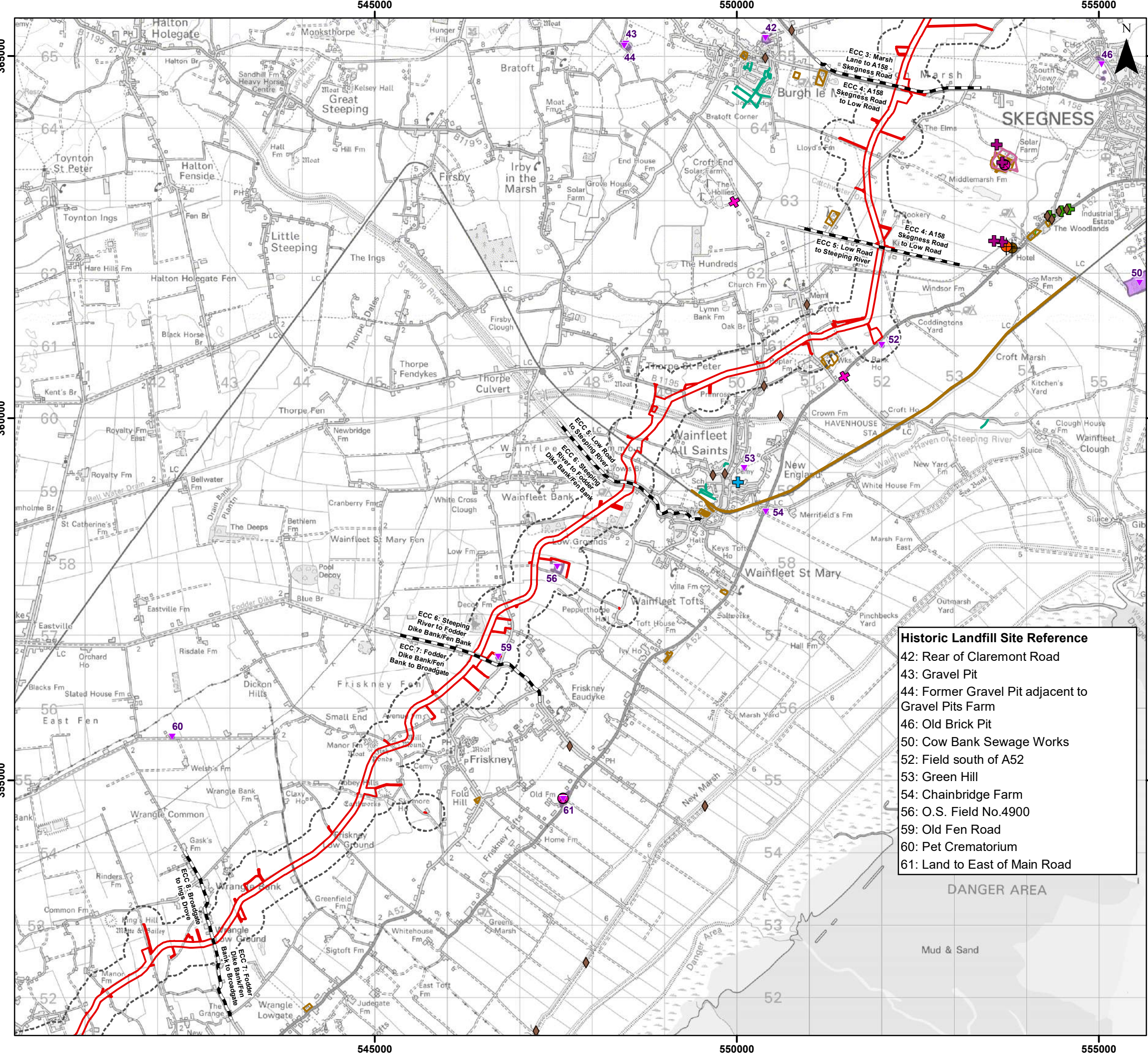
Potential Sources of Contamination

Figure 23.4.1

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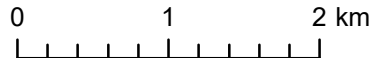
Legend

- Order Limits
- Onshore Segment Break
- Order Limits 250 m Buffer
- Historic Landfill Site (Centroid)
- Historic Landfill Site (Boundary)
- Potentially Contaminative Industrial Uses (Past Land Use) Point
- Potentially Contaminative Industrial Uses (Past Land Use) Line
- Potentially Contaminative Industrial Uses (Past Land Use)
- Licensed Waste Management Facilities Location
- Licensed Waste Management Facilities Landfill Boundary
- Potentially Infilled Land (Non-water) Point
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water) Point
- Infilled Ground (Water) Line
- Registered Landfill Site
- Registered Waste Treatment Site
- Registered Waste Transport Site
- Substantiated Pollution Incident Register

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Potential Sources of Contamination

Figure 23.4.2



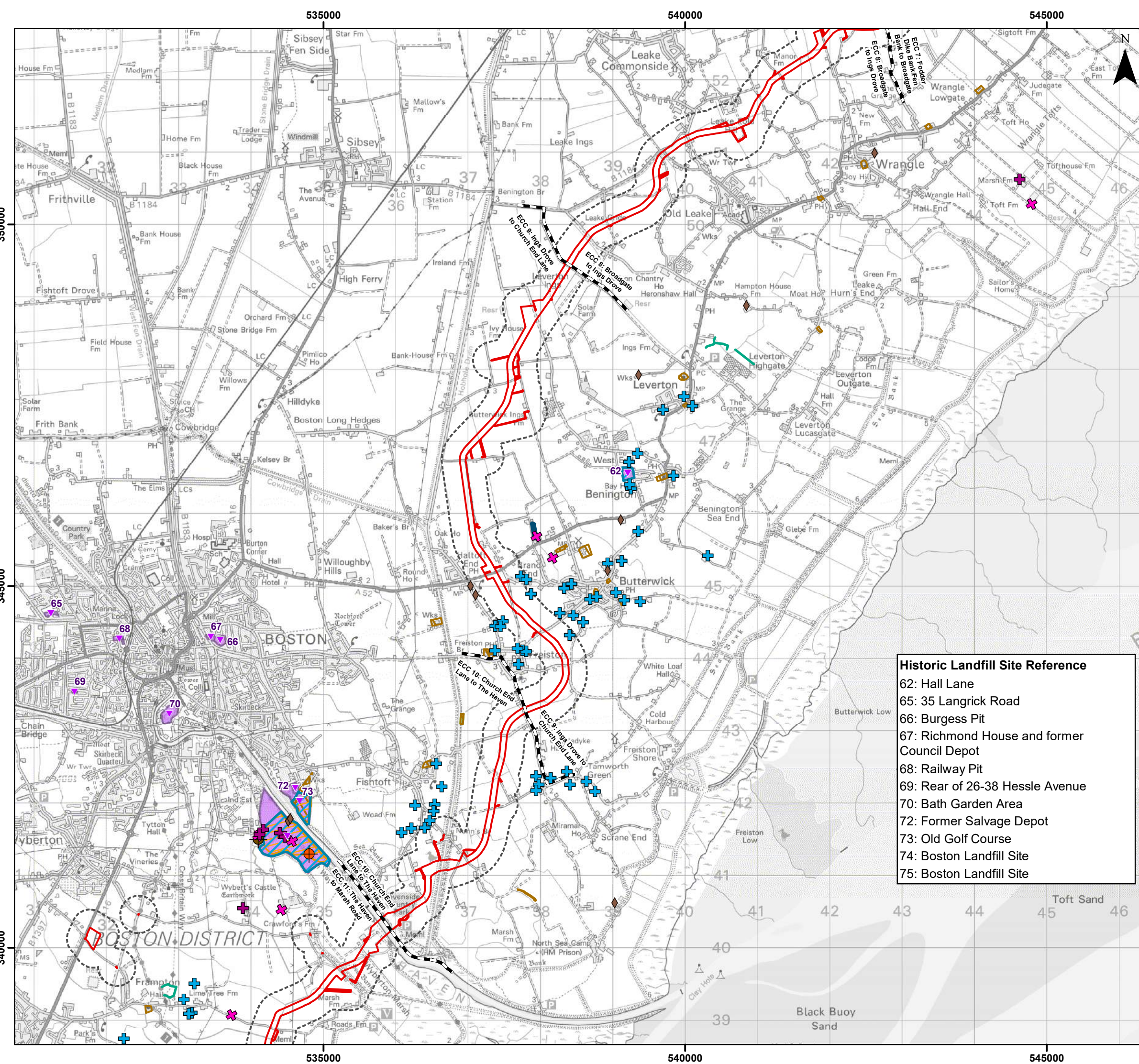
Date: 20/02/2025
Produced By: JRS
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Historic Landfill Site Reference

- 42: Rear of Claremont Road
- 43: Gravel Pit
- 44: Former Gravel Pit adjacent to Gravel Pits Farm
- 46: Old Brick Pit
- 50: Cow Bank Sewage Works
- 52: Field south of A52
- 53: Green Hill
- 54: Chainbridge Farm
- 56: O.S. Field No.4900
- 59: Old Fen Road
- 60: Pet Crematorium
- 61: Land to East of Main Road



Legend

Order Limits

Onshore Segment Break

Order Limits 250 m Buffer

Historic Landfill Site (Centroid)

Historic Landfill Site (Boundary)

BGS Recorded Landfill Site

Potentially Contaminative Industrial Uses (Past Land Use) Point

Potentially Contaminative Industrial Uses (Past Land Use)

Licensed Waste Management Facilities Location

Licensed Waste Management Facilities Landfill Boundary

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Water) Point

Infilled Ground (Water) Line

Potentially Infilled Land (Water)

Local Authority Landfill Sites

Registered Waste Treatment Site

Registered Waste Transport Site

Substantiated Pollution Incident Register

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0

1

2 km

Scale: 1:50,000

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Potential Sources of Contamination

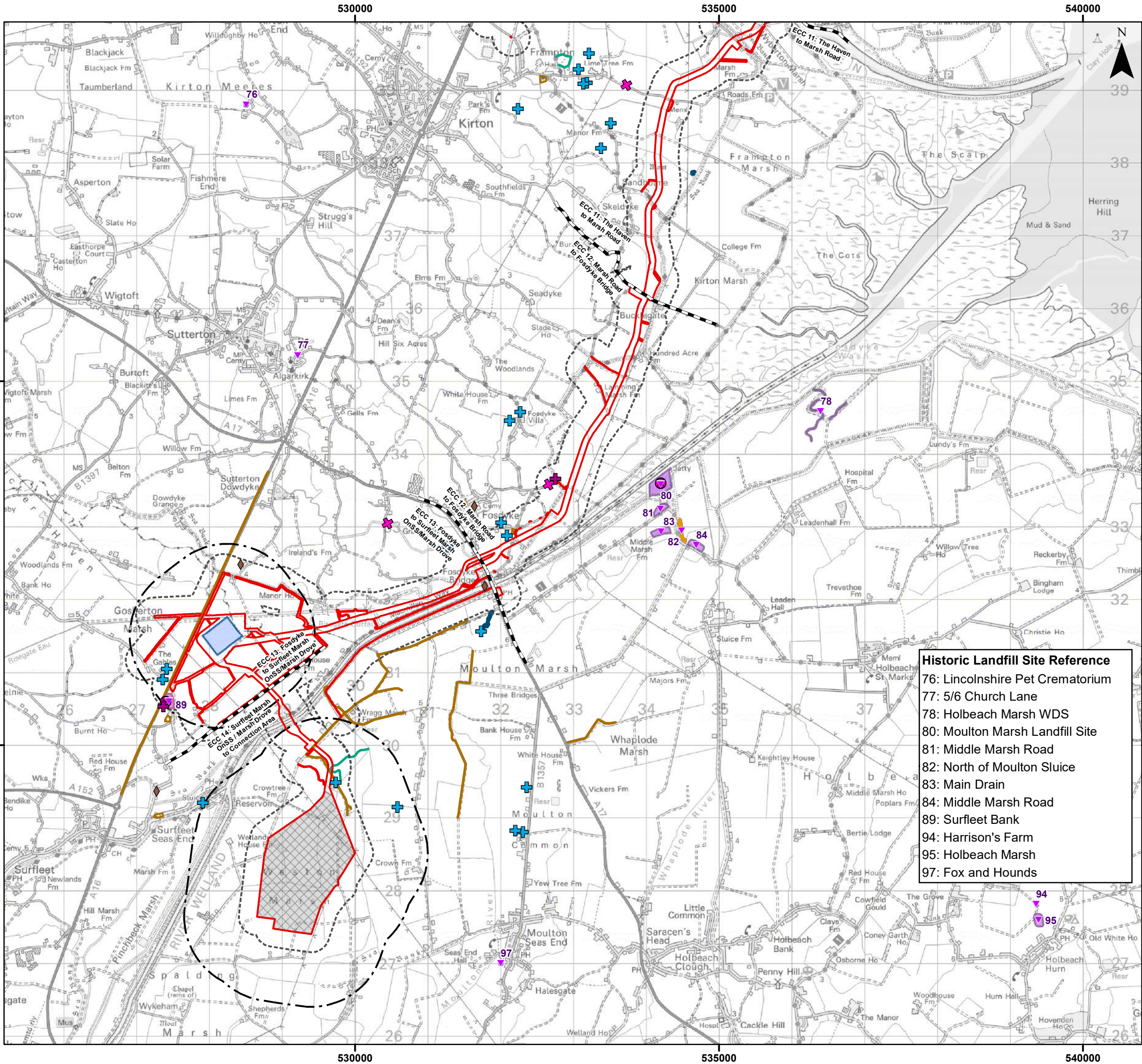
Figure 23.4.3

OUTER DOWING
OFFSHORE WIND

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Historic Landfill Site Reference	
62:	Hall Lane
65:	35 Langrick Road
66:	Burgess Pit
67:	Richmond House and former Council Depot
68:	Railway Pit
69:	Rear of 26-38 Hessle Avenue
70:	Bath Garden Area
72:	Former Salvage Depot
73:	Old Golf Course
74:	Boston Landfill Site
75:	Boston Landfill Site



Legend

- Order Limits
- Onshore Segment Break
- Onshore Substation (OnSS) Footprint
- Connection Area
- Order Limits 250 m Buffer
- Onshore Substation (OnSS) and Connection Area 1 km Buffer
- Historic Landfill Site (Centroid)
- Historic Landfill Site (Boundary)
- BGS Recorded Landfill Site
- Potentially Contaminative Industrial Uses (Past Land Use) Point
- Potentially Contaminative Industrial Uses (Past Land Use) Line
- Potentially Contaminative Industrial Uses (Past Land Use)
- Licensed Waste Management Facilities Location
- Licensed Waste Management Facilities Landfill Boundary
- Potentially Infilled Land (Water) Point
- Infilled Ground (Water) Line
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Substantiated Pollution Incident Register

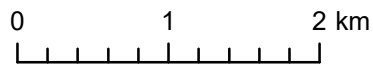
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Historic Landfill Site Reference

- 76: Lincolnshire Pet Crematorium
- 77: 5/6 Church Lane
- 78: Holbeach Marsh WDS
- 80: Moulton Marsh Landfill Site
- 81: Middle Marsh Road
- 82: North of Moulton Sluice
- 83: Main Drain
- 84: Middle Marsh Road
- 89: Surfleet Bank
- 94: Harrison's Farm
- 95: Holbeach Marsh
- 97: Fox and Hounds

Coordinate System: British National Grid



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Figure 23.4.4



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