

The background image shows two women walking on a dirt path through a field of tall grass and wildflowers. The woman on the left is wearing a plaid shirt, a dark vest, and jeans, and is holding a leash for a black and white dog. The woman on the right is wearing a dark jacket and leggings. In the background, there are power lines and a cloudy sky.

The Great Grid Upgrade

Grimsby to Walpole

Preliminary Environmental Information Report

Volume 2 Part B Section Specific Assessments

Section 3 New Lincolnshire Connection Substations A and B

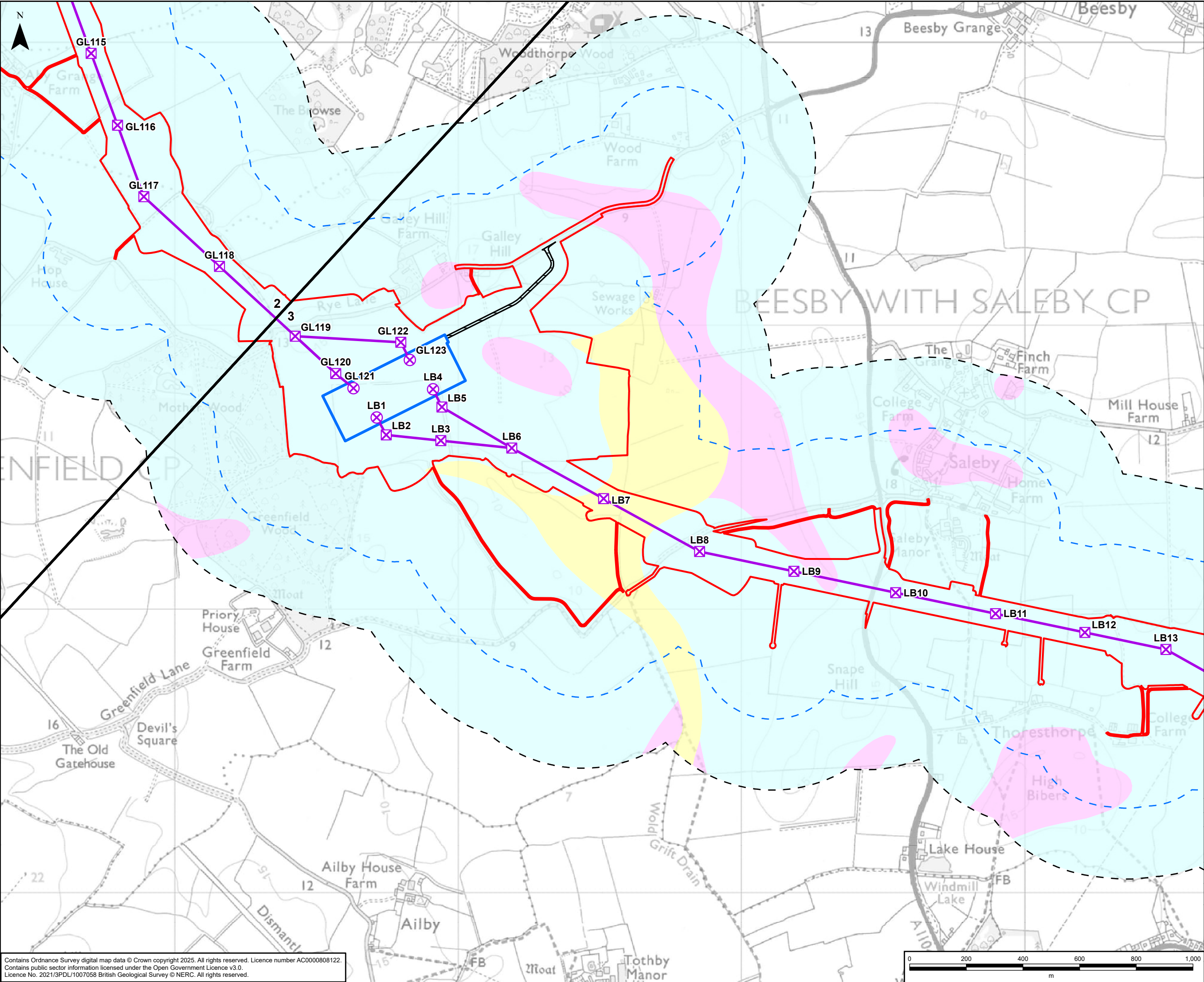
Chapter 7 Geology and Hydrogeology

Figures

June 2025

Volume 2 Part B Section 3 Chapter 7 – Figure List

Figure number	Figure title
Figure 7.1	Superficial Geology
Figure 7.2	Bedrock Geology
Figure 7.3	Groundwater Source Protection Zones
Figure 7.4	Aquifer Designations: Superficial Deposits
Figure 7.5	Aquifer Designations: Bedrock Geology
Figure 7.6	Landfills, Waste and Potentially Contaminative Previous Land Uses



GRIMSBY TO WALPOLE LEGEND

Legend

- Draft Order Limits
- Route Section Break
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Overhead Line
- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route

Superficial Geology (BGS 50k)

- Alluvium - Clay, Silt, Sand and Gravel
- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Till, Devensian - Diamicton

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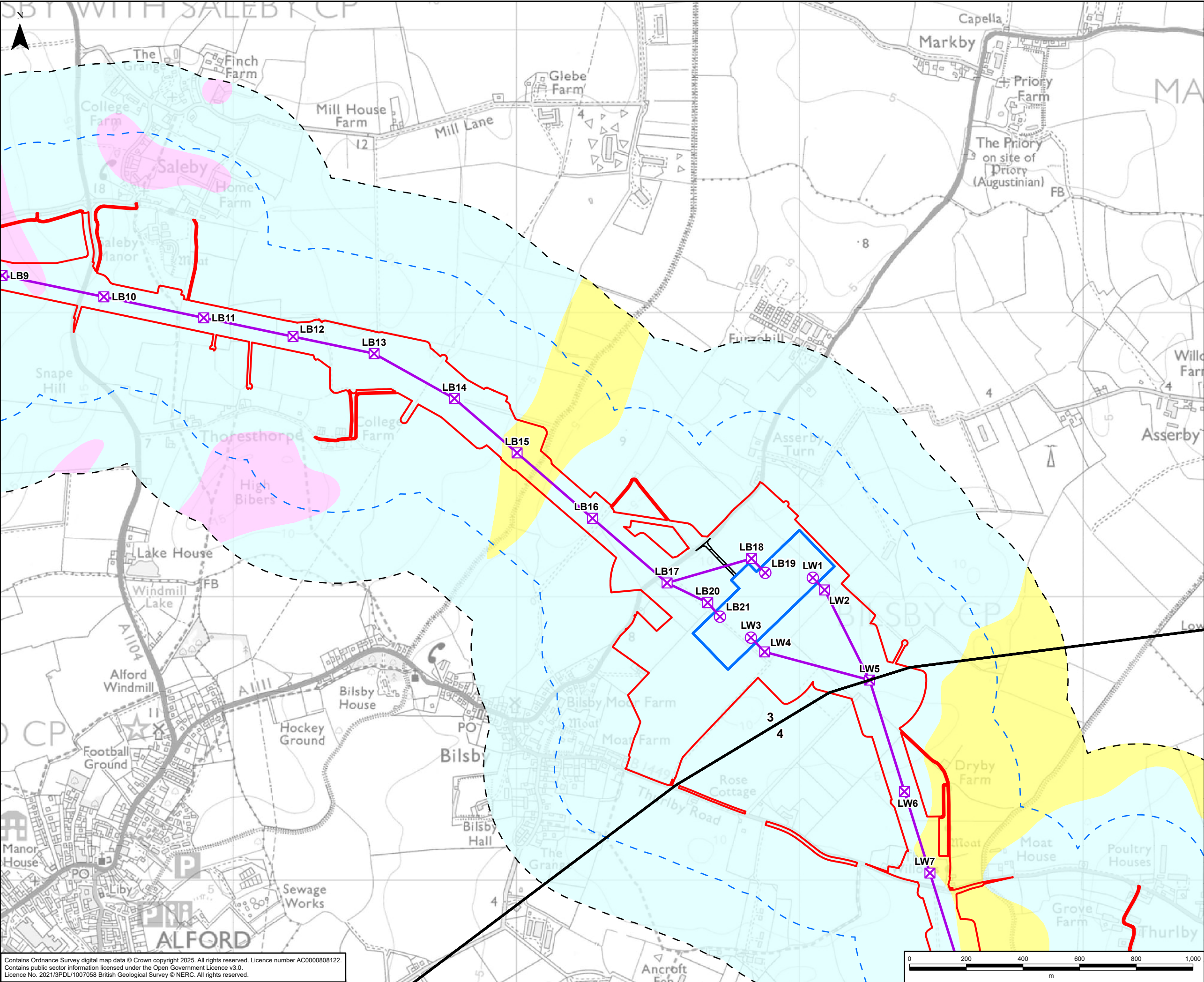
Purpose: PEI REPORT - SECTION 3

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Document Title: FIGURE 7.1
SUPERFICIAL GEOLOGY

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Superficial Geology (BGS 50k)

- Glaciofluvial Deposits, Devensian - Sand and Gravel
- Tidal Flat Deposits - Clay and Silt
- Till, Devensian - Diamicton

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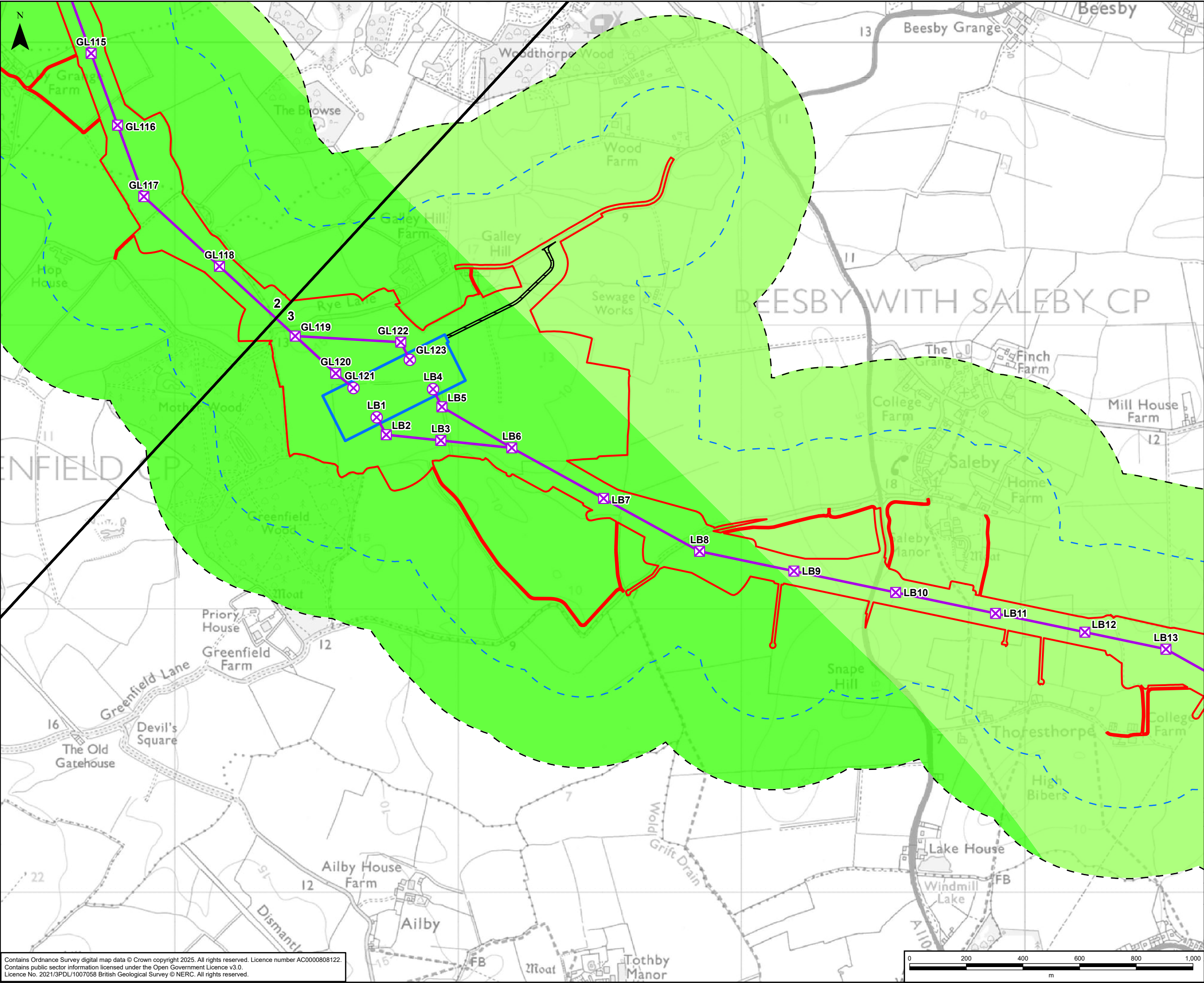
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Bedrock Geology (BGS 50k)

- Ferriby Chalk Formation - Chalk
- Welton Chalk Formation - Chalk

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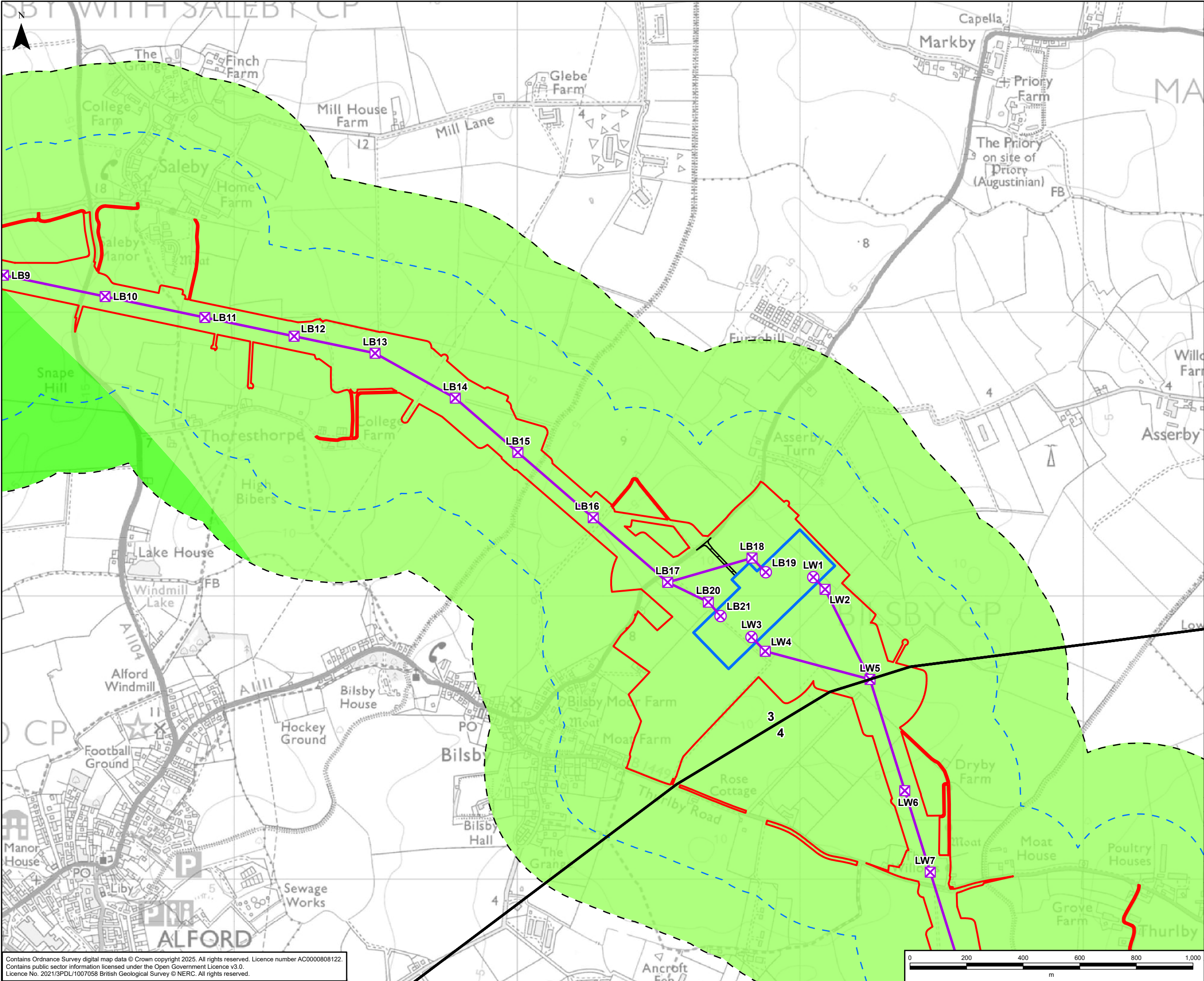
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Route Section Break

250m Study Area

500m Study Area

Indicative New Lattice Pylon

Indicative New Gantry

Indicative New Overhead Line

Indicative New Substation Boundary

Indicative Permanent Substation Access Route

Bedrock Geology (BGS 50k)

Ferriby Chalk Formation - Chalk

Welton Chalk Formation - Chalk

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FIGURE 7.2
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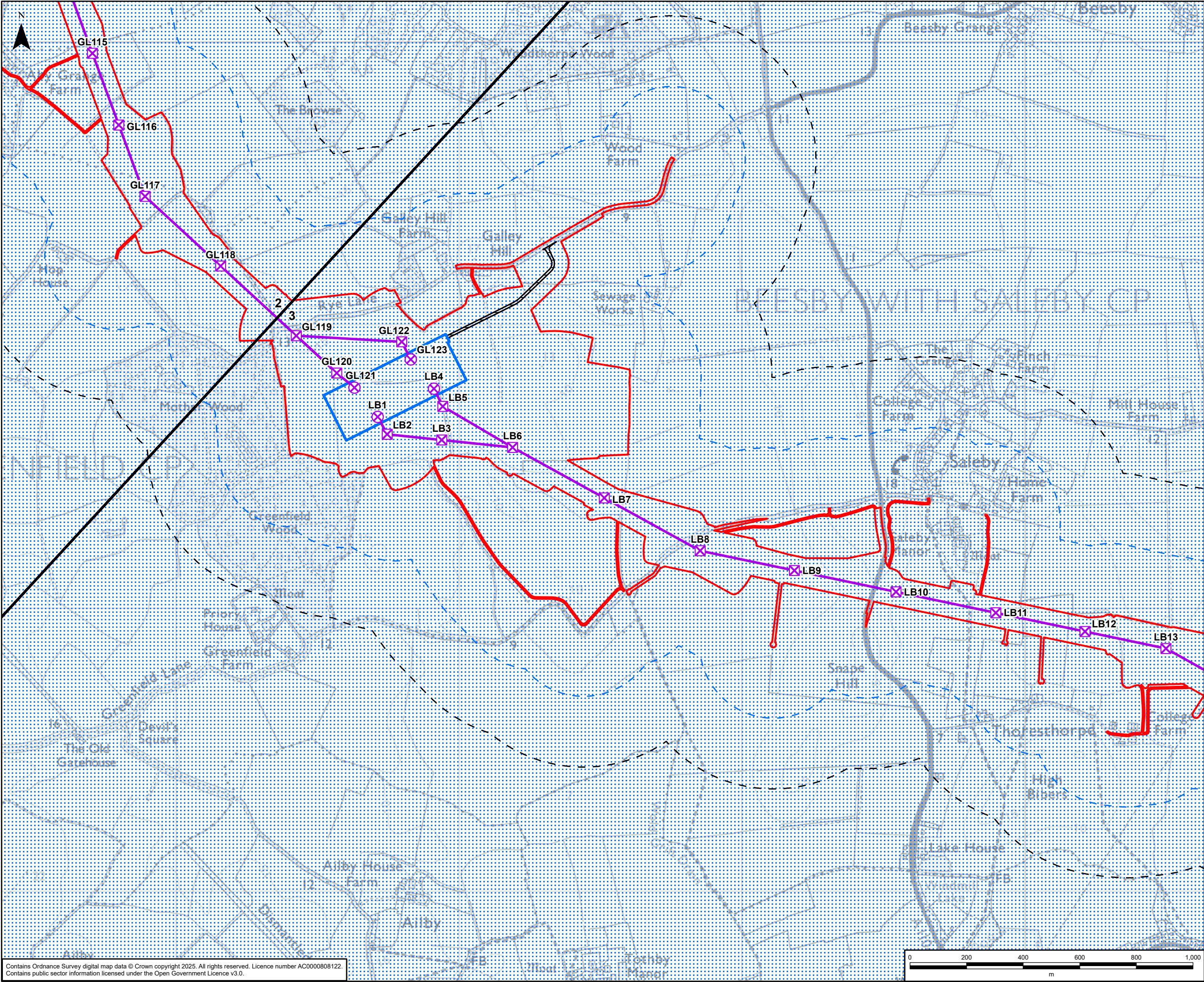
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Route Section Break

250m Study Area

500m Study Area

Indicative New Lattice Pylon

Indicative New Gantry

Indicative New Overhead Line

Indicative New Substation Boundary

Indicative Permanent Substation Access Route

Source Protection Zone

Zone 3

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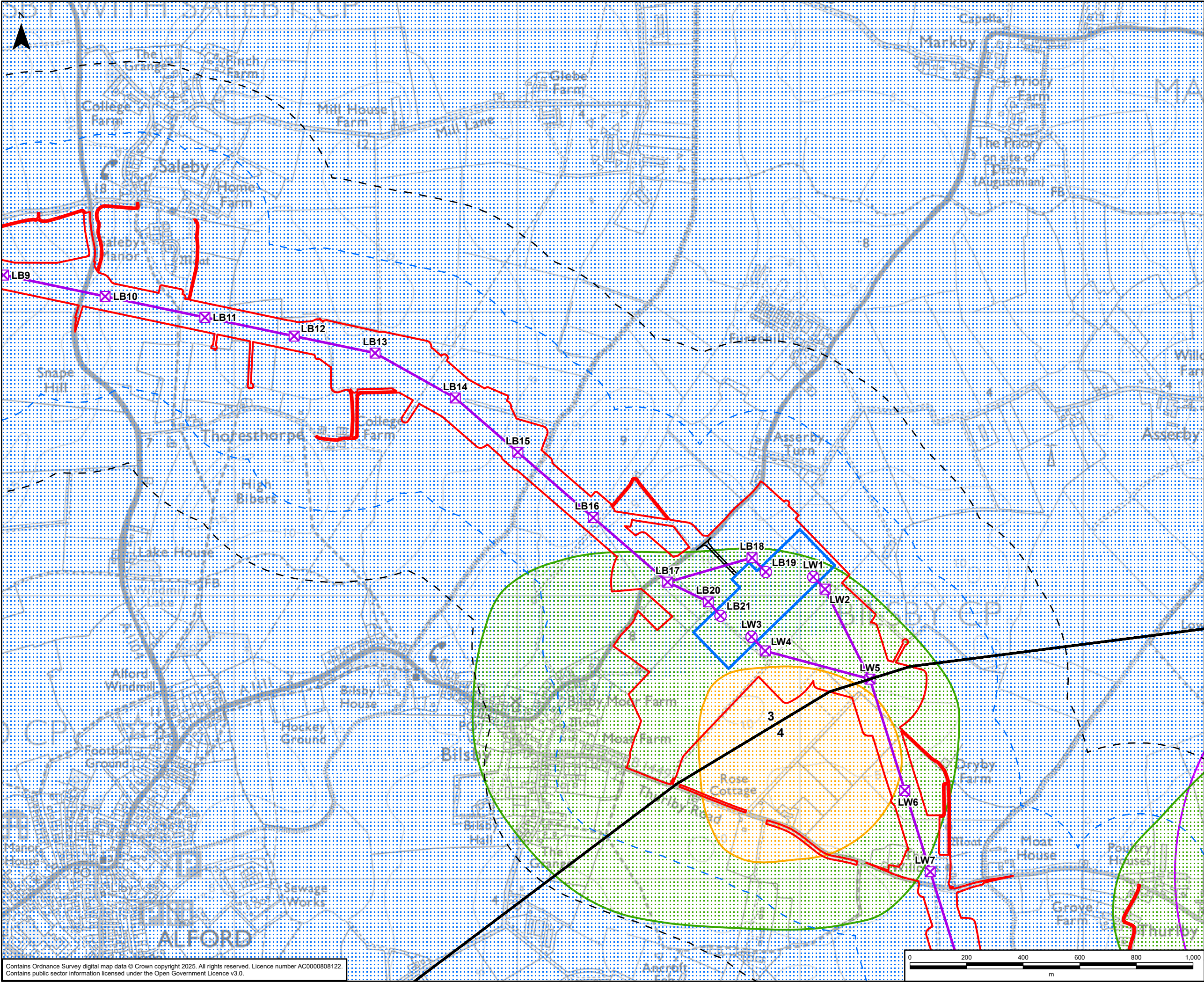
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FIGURE 7.3
GROUNDWATER SOURCE PROTECTION ZONES

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GRIMSBY TO WALPOLE LEGEND

Draft Order Limits

Route Section Break

250m Study Area

500m Study Area

Indicative New Lattice Pylon

Indicative New Gantry

Indicative New Overhead Line

Indicative New Substation Boundary

Indicative Permanent Substation Access Route

Source Protection Zone

Zone 1

Zone 2

Zone 2c

Zone 3

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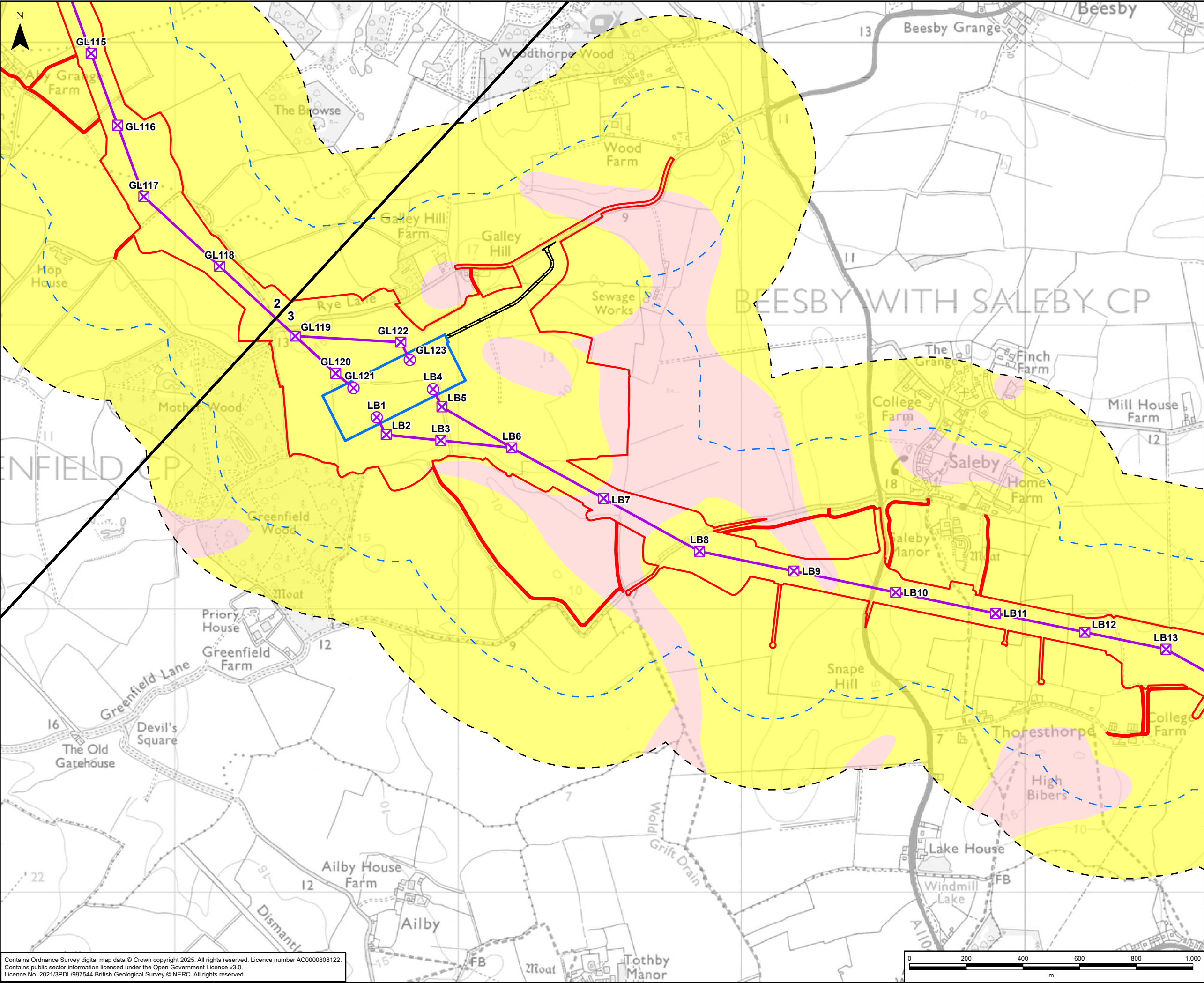
FIGURE 7.3
GROUNDWATER SOURCE PROTECTION ZONES

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GRIMSBY TO WALPOLE LEGEND

Legend

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Aquifer Designation: Superficial Deposits

- Secondary A
- Secondary (Undifferentiated)

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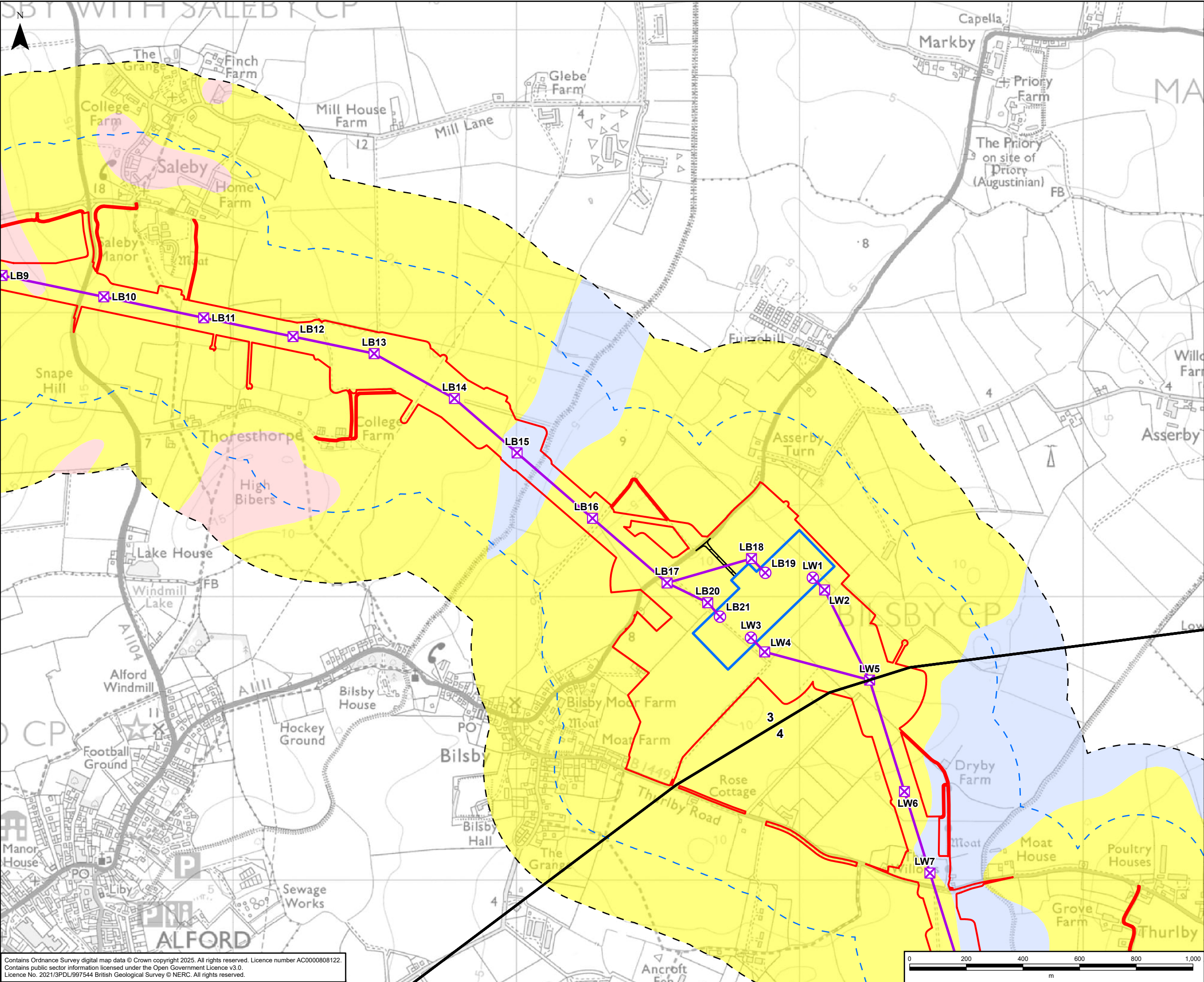
Purpose: PEI REPORT - SECTION 3

Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.4**
AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS

Creator: LC	Date: 25/04/2025	Checker: SG	Date: 25/04/2025	Approver: DR	Date: 25/04/2025
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GRIMSBY TO WALPOLE LEGEND

Legend

Draft Order Limits

Route Section Break

250m Study Area

500m Study Area

Indicative New Lattice Pylon

Indicative New Gantry

Indicative New Overhead Line

Indicative New Substation Boundary

Indicative Permanent Substation Access Route

Aquifer Designation: Superficial Deposits

Secondary A

Secondary (Undifferentiated)

Unproductive Strata

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FIGURE 7.4
AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS

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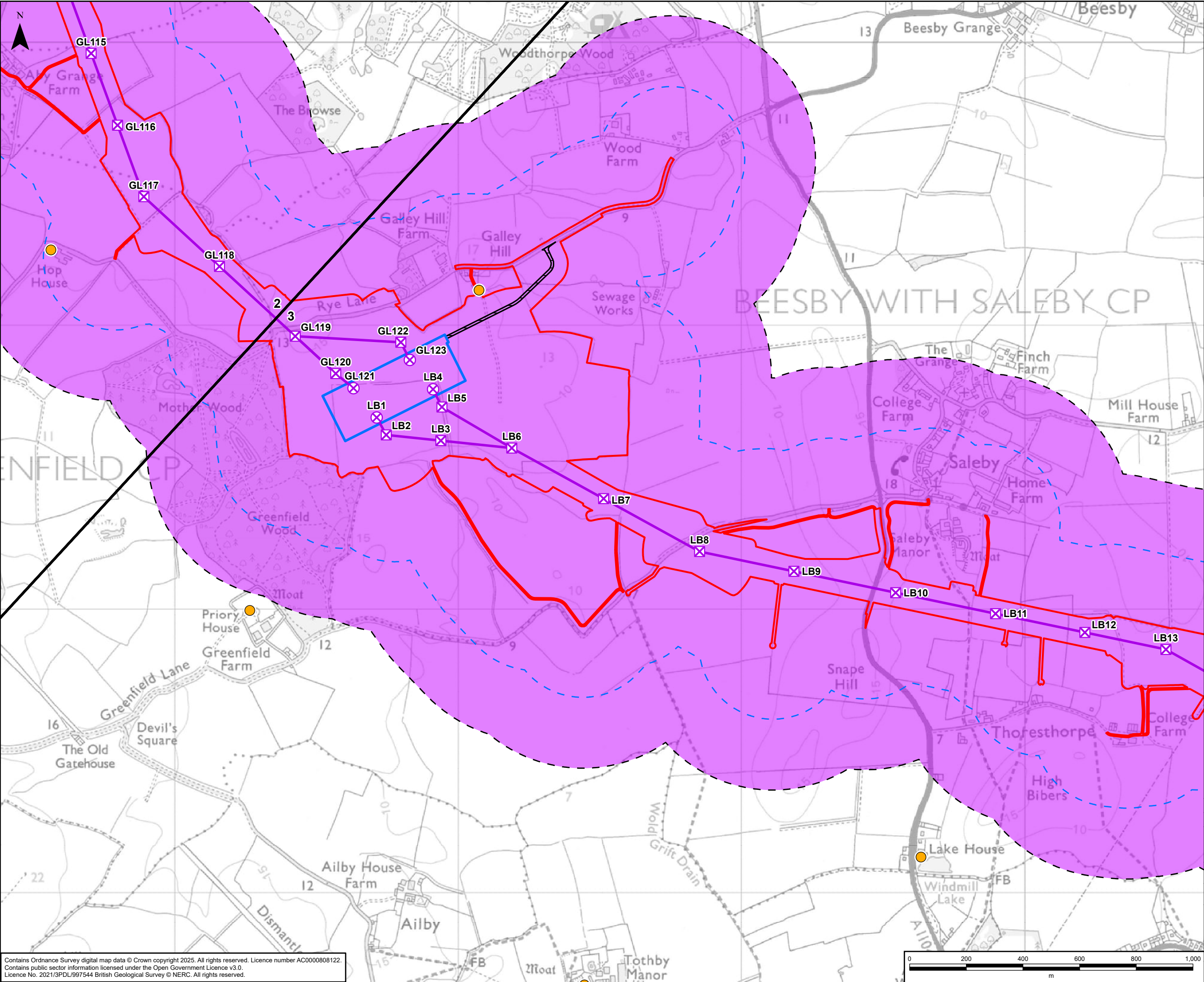
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GRIMSBY TO WALPOLE LEGEND

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- Indicative Permanent Substation Access Route
- Private Water Supply Location
- Aquifer Designation: Bedrock Geology
- Principal

NOTE:

PWS - The abstracted unit is not known, and therefore may include abstractions from either superficial or bedrock geology.

The Environment Agency provides records of groundwater abstractions, which are not available under Open Government License (available under the Environment Agency Conditional License) and have therefore not been reproduced on this figure

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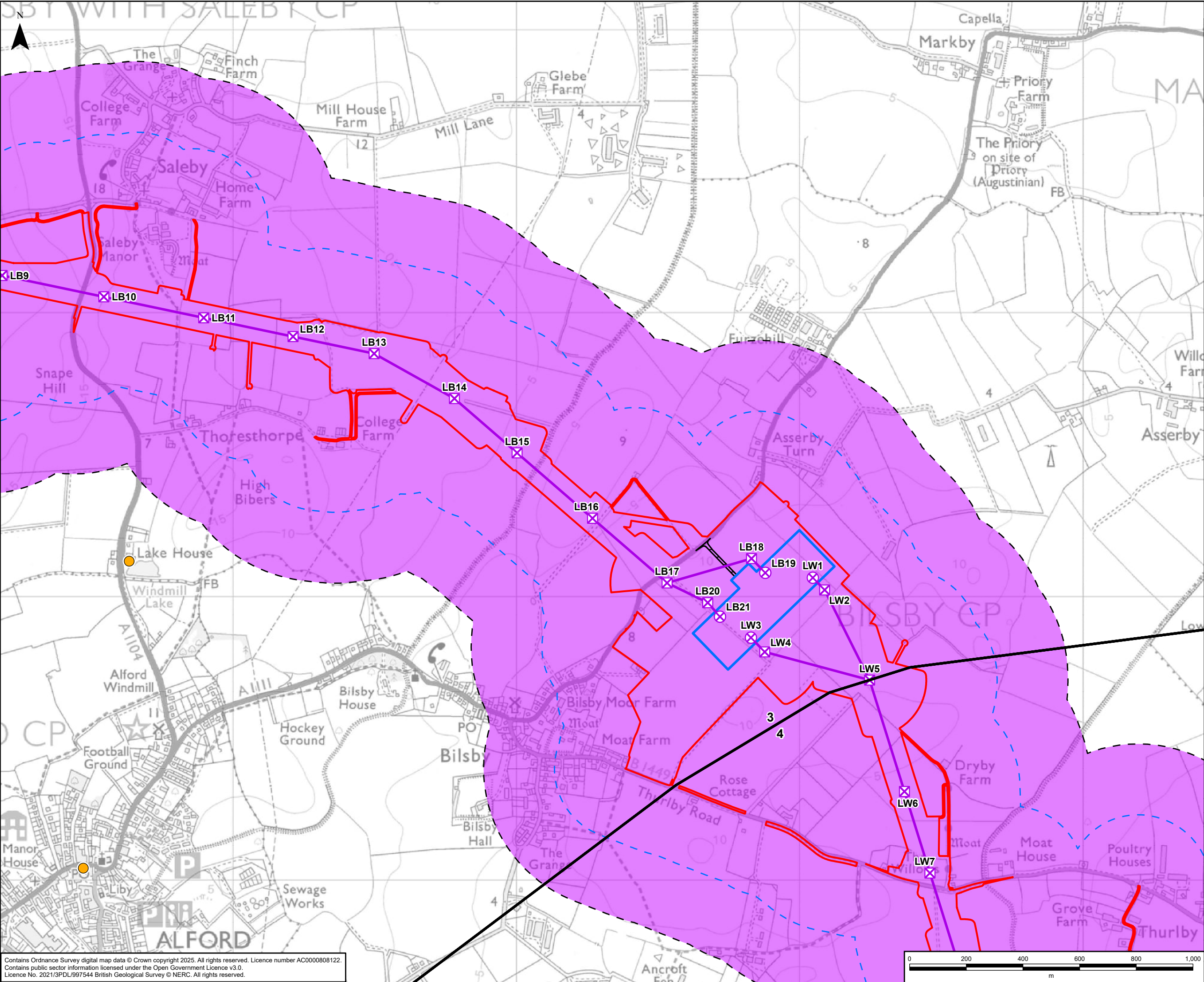
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Document Title: FIGURE 7.5
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

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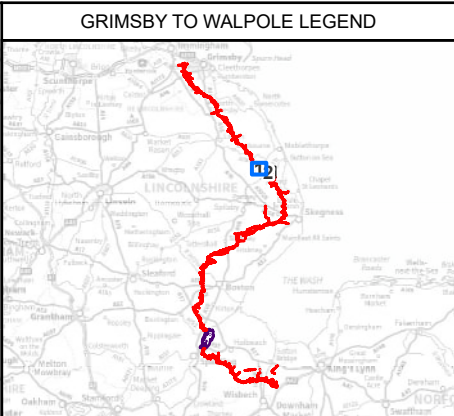
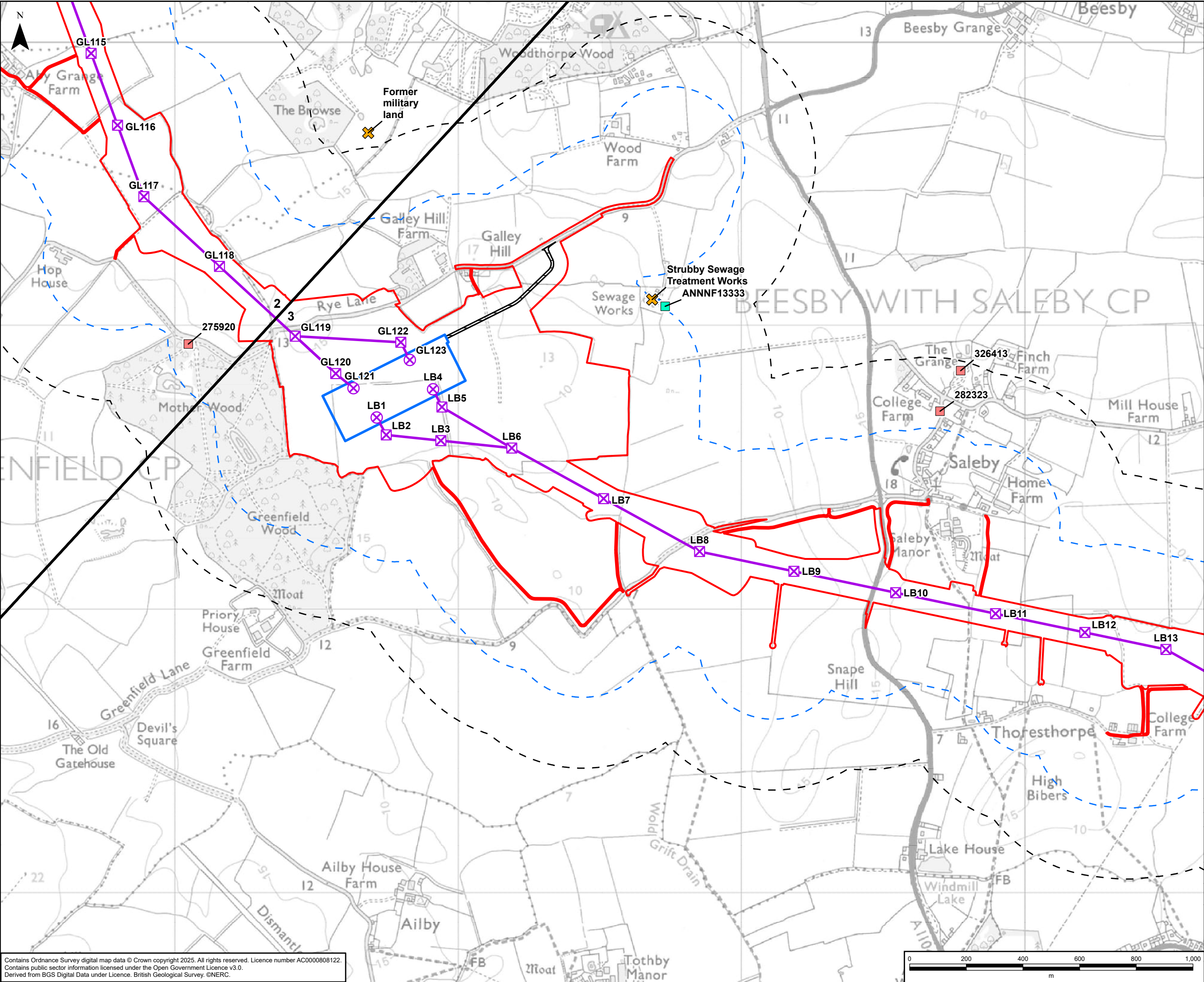
Purpose: PEI REPORT - SECTION 3

Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.5
AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

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GRIMSBY TO WALPOLE LEGEND

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- Indicative New Substation Boundary
- Indicative Permanent Substation Access Route
- Pollution Incident Location (EA)
- Discharge Consent Location (EA)
- Sewage Treatment Works (LCC)

Features of Contamination Potential

- Moderate

The potential contamination features shown on this drawing are represented by an indicative point location and not a polygon showing their extent. The extent of these features is discussed within the PEI Report where available/known.

LCC data sourced from the Lincolnshire Minerals and Waste Local Plan.
EA abstraction information has not been digitised as this is protected information.

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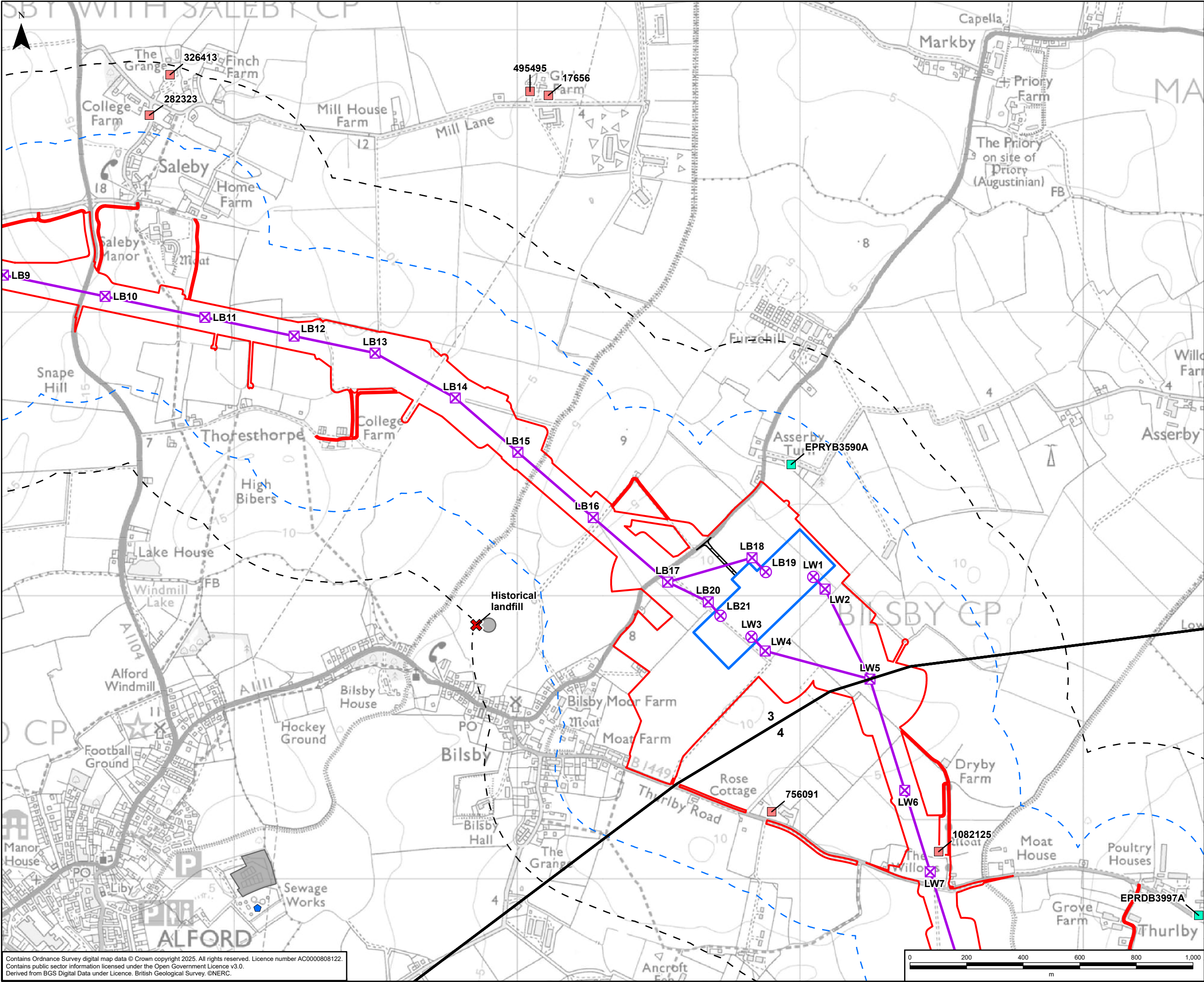
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Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.6
LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE
PREVIOUS LAND USES

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- Indicative Permanent Substation Access Route
- Pollution Incident Location (EA)
- Discharge Consent Location (EA)
- Sewage Treatment Works (LCC)
- Historic Landfill Site (EA)

Features of Contamination Potential

- High

The potential contamination features shown on this drawing are represented by an indicative point location and not a polygon showing their extent. The extent of these features is discussed within the PEI Report where available/known.

LCC data sourced from the Lincolnshire Minerals and Waste Local Plan.
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