

## The Great Grid Upgrade

Grimsby to Walpole

# Preliminary Environmental Information Report

Volume 2 Part B Section Specific Assessments

Section 6 Refined Weston Marsh Substation Siting Zone to New  
Walpole B Substation

Chapter 7 Geology and Hydrogeology

Figures

June 2025

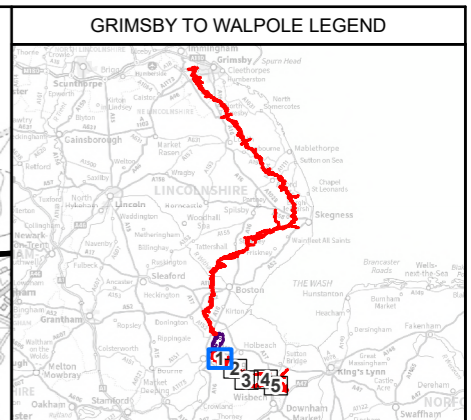
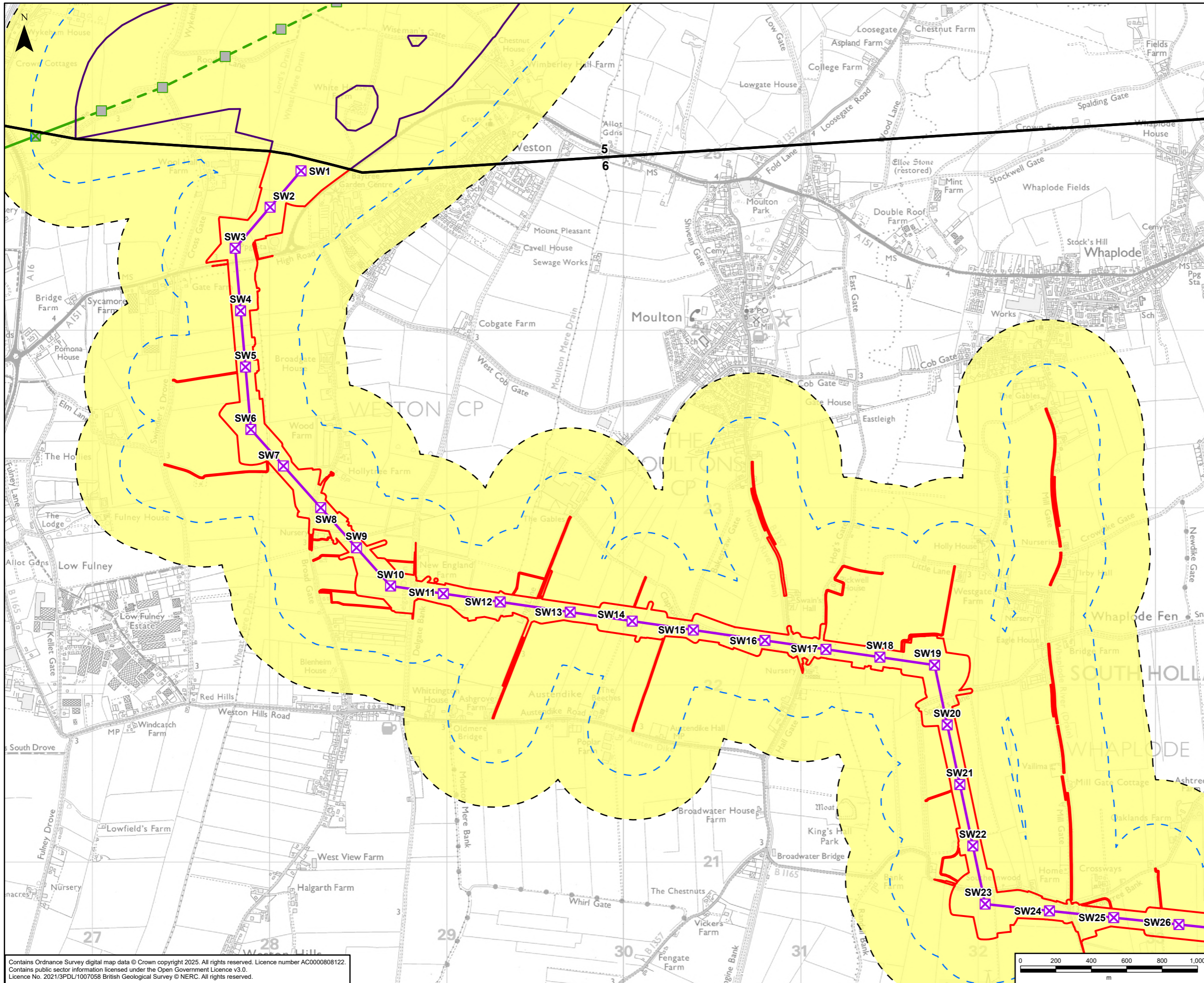




# Volume 2 Part B Section 6 Chapter 7 – Figure List

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Figure 7.5	Landfills, Waste and Potentially Contaminative Previous Land Uses



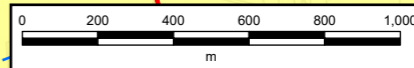


- Legend**
- Draft Order Limits
  - Refined Weston Marsh Substation Siting Zone
  - Route Section Break
  - 250m Study Area
  - 500m Study Area
  - ✕ Indicative New Lattice Pylon
  - Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
  - ✕ Existing Lattice Pylon - Not Affected
  - Indicative New Overhead Line
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  - Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified
- Superficial Geology (BGS 50k)**
- Tidal Flat Deposits - Clay and Silt

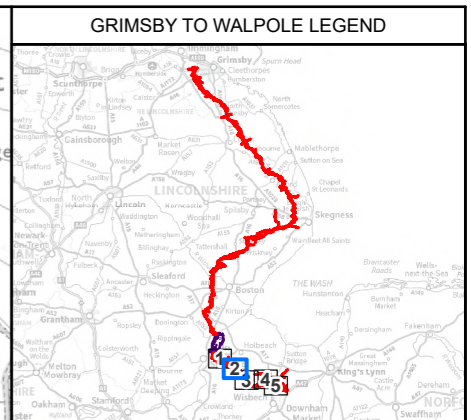
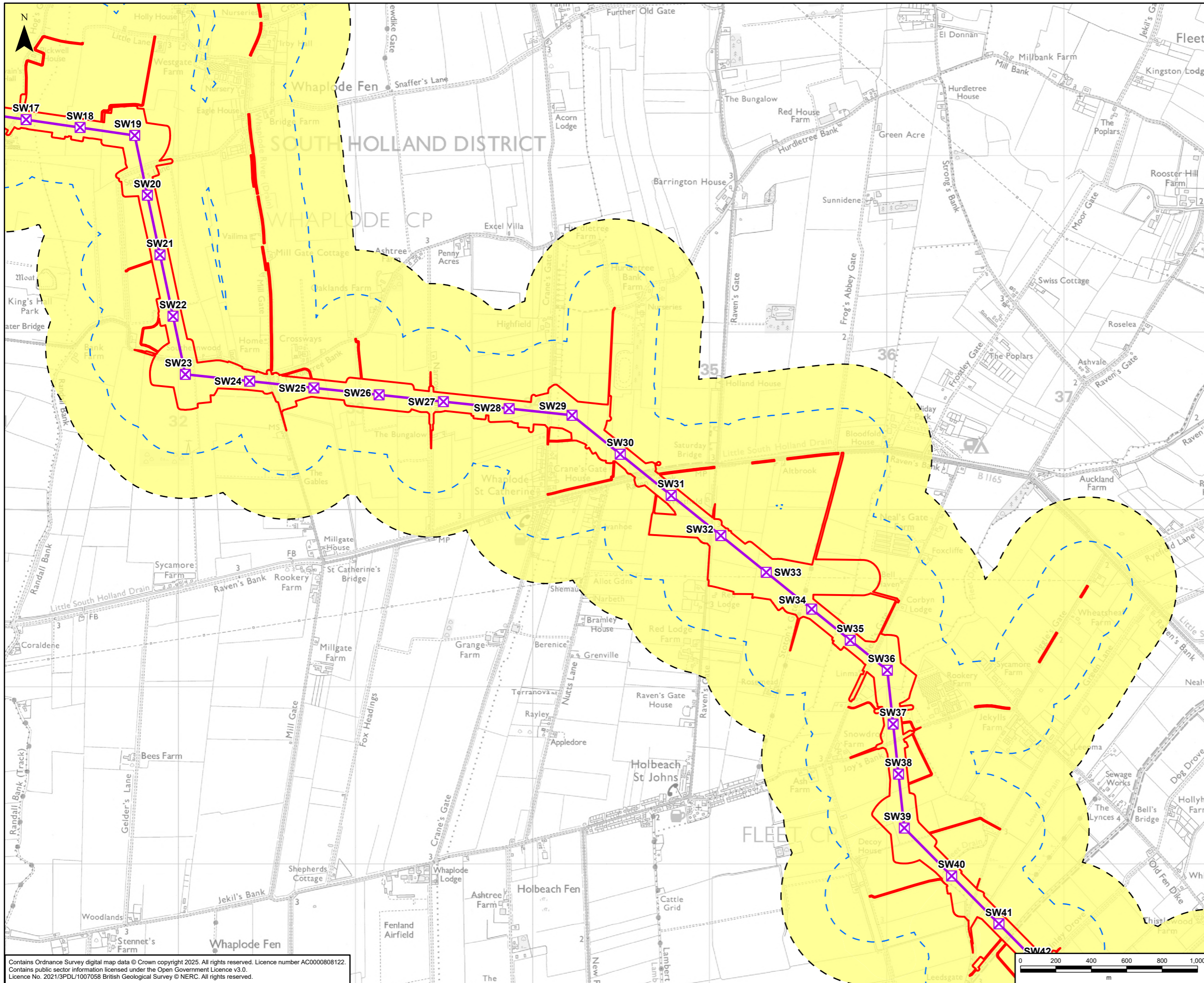
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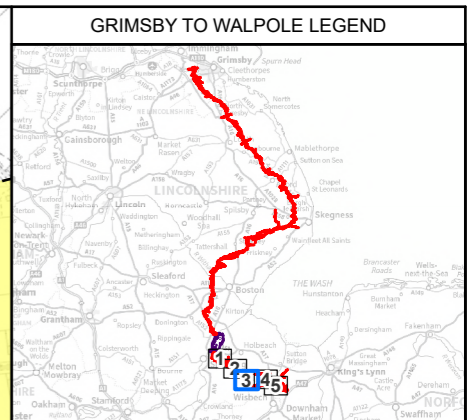
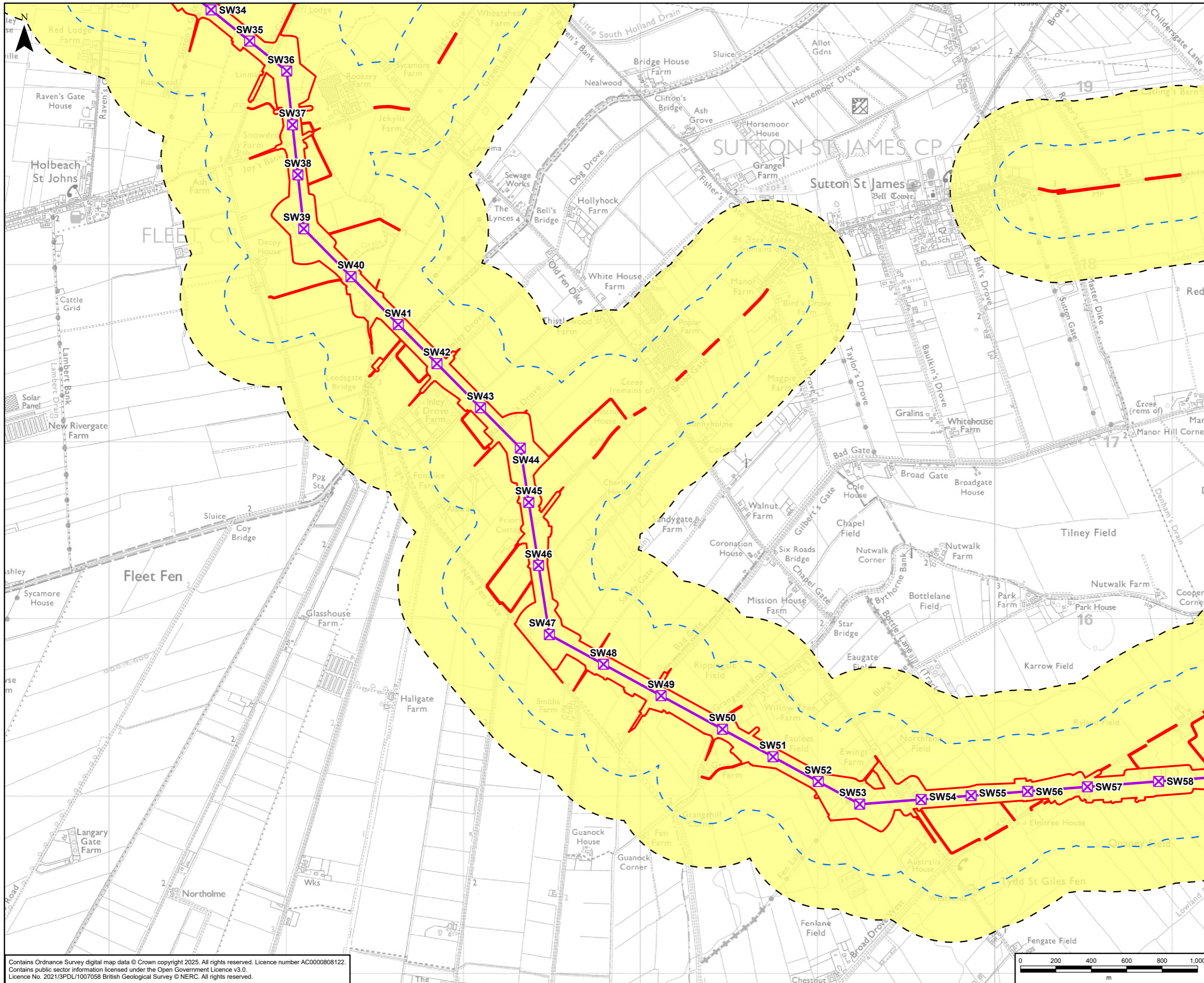
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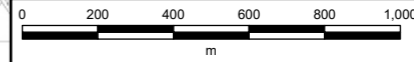
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  - Tidal Flat Deposits - Sand and Silt

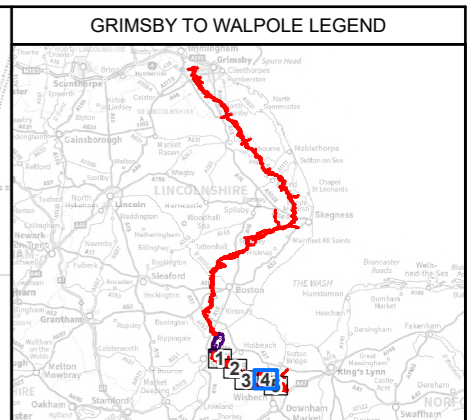
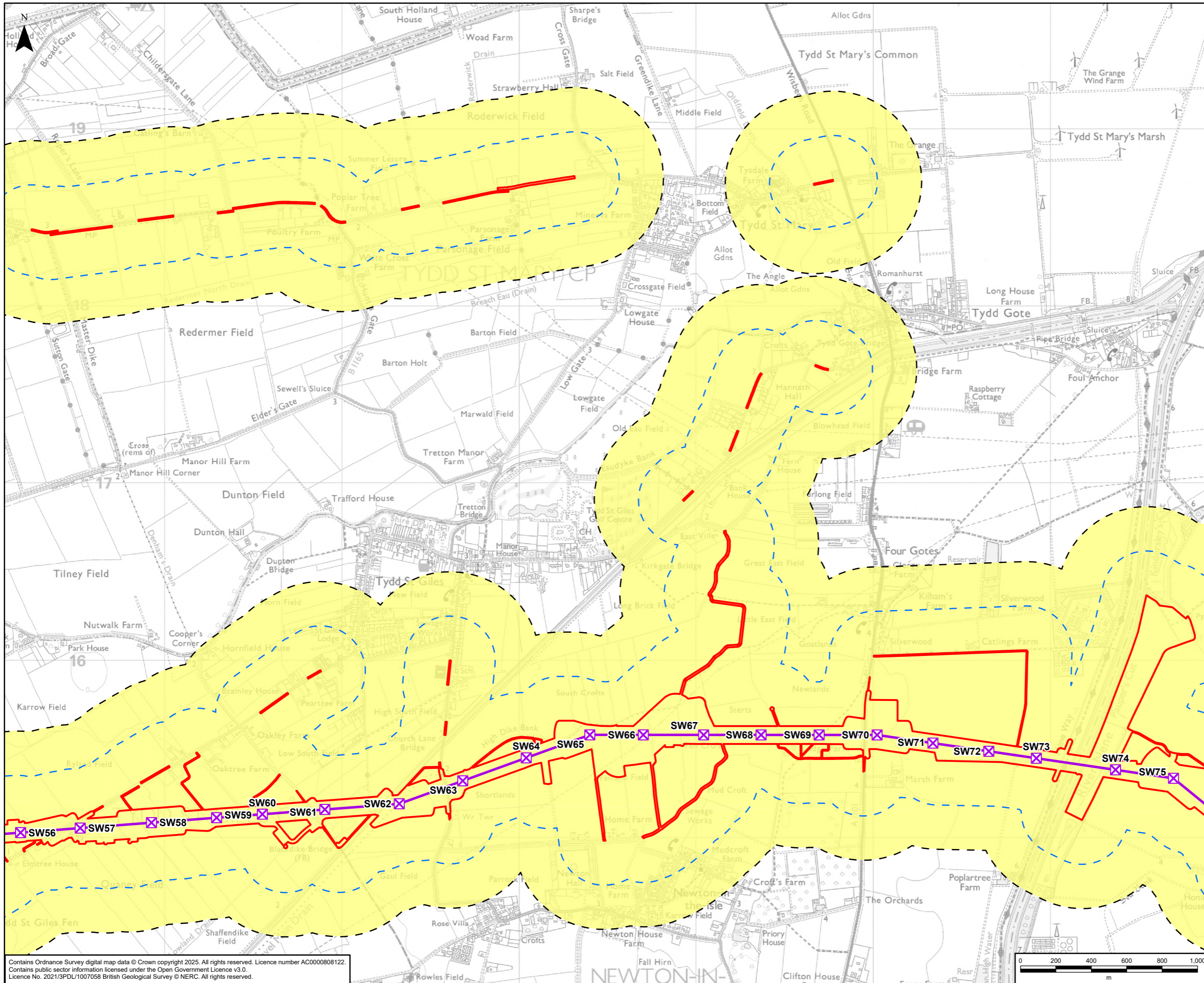
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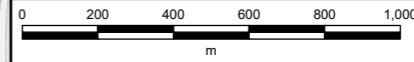
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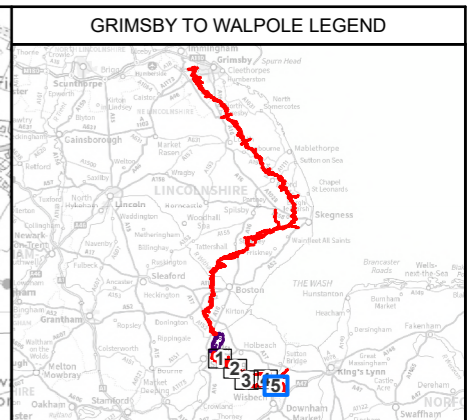
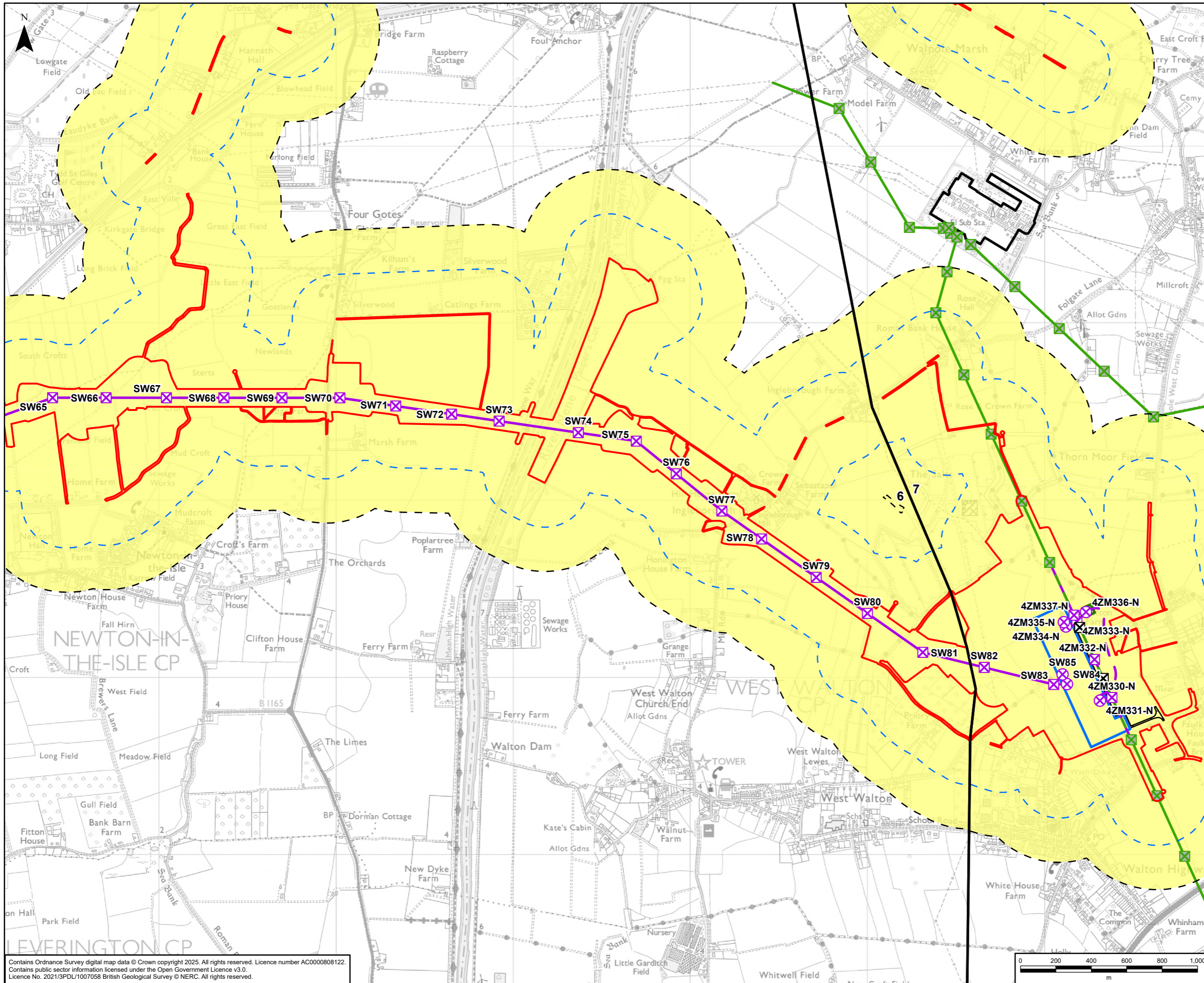
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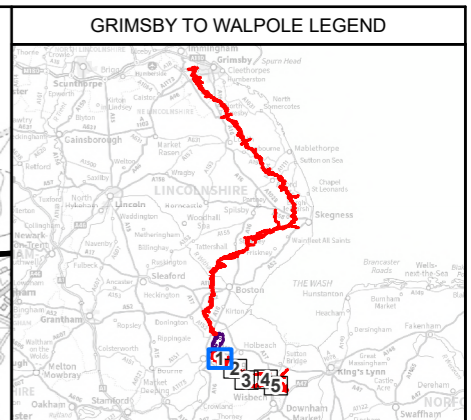
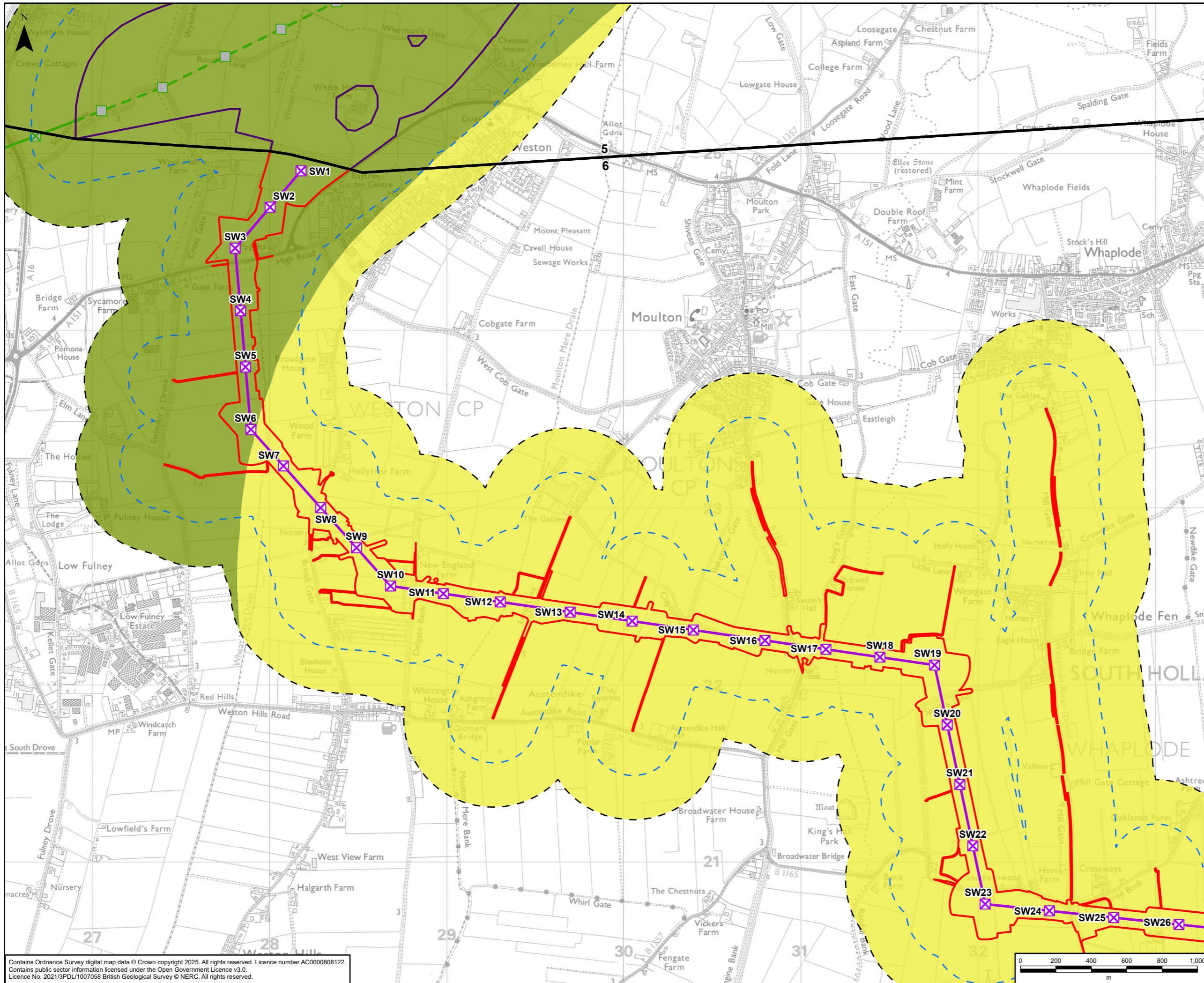
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  - Indicative New Substation Boundary
  - Indicative Cable Sealing End Compound Boundary
  - Indicative Permanent Substation Access Route
  - Superficial Geology (BGS 50k)
  - Tidal Flat Deposits - Clay and Silt

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- Indicative New Overhead Line
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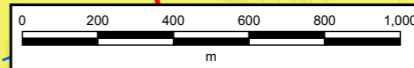
**Bedrock Geology (BGS 50k)**

- Oxford Clay Formation - Mudstone
- West Walton Formation - Mudstone and Siltstone

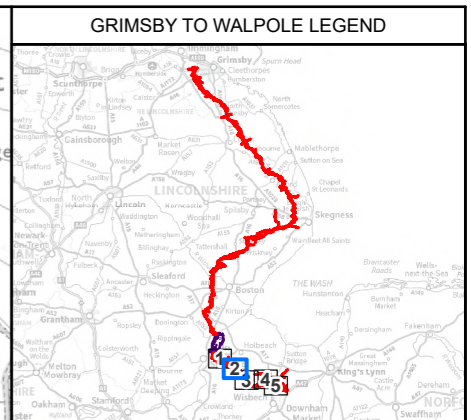
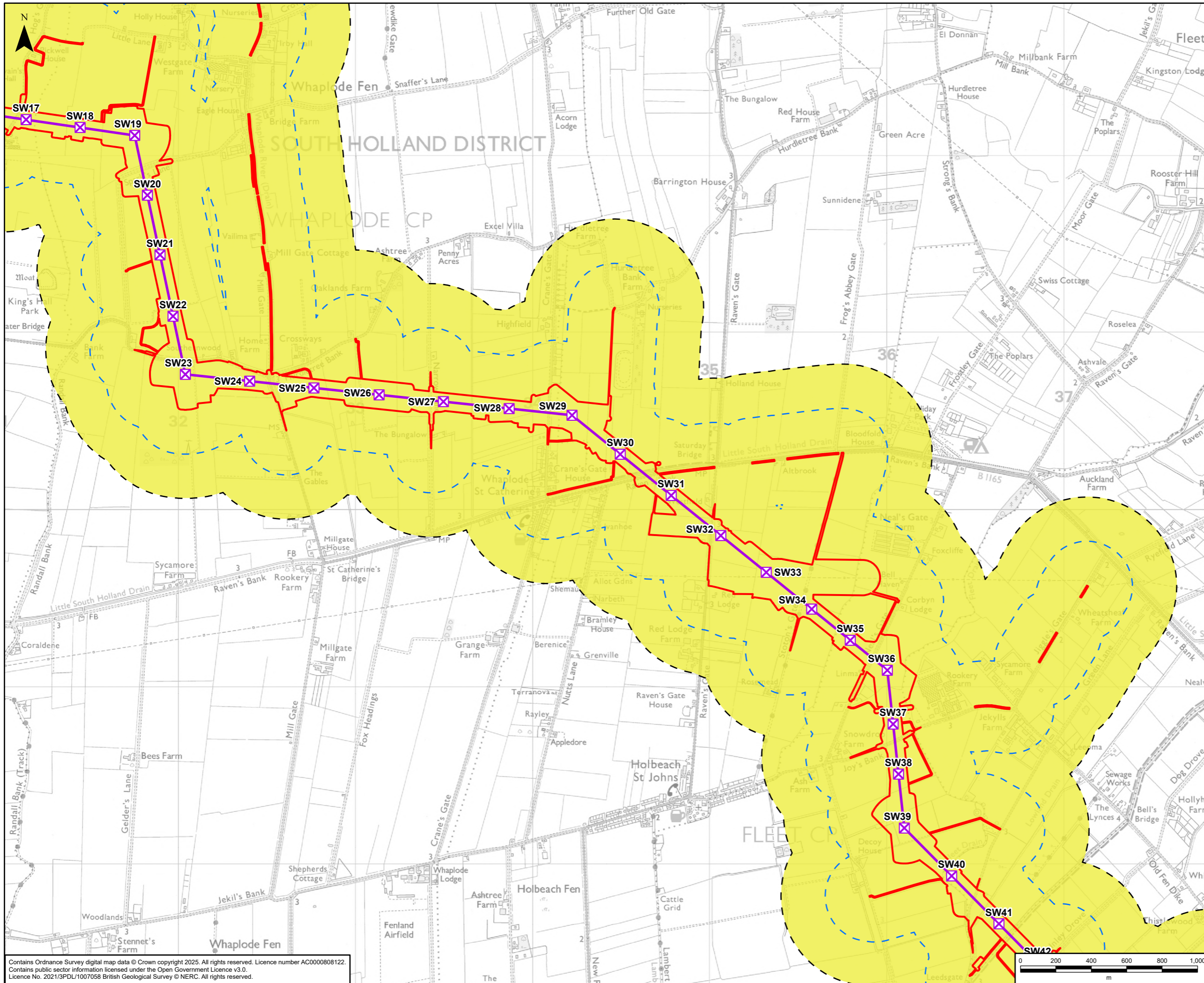
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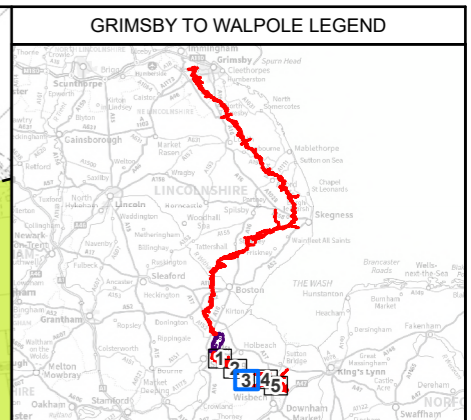
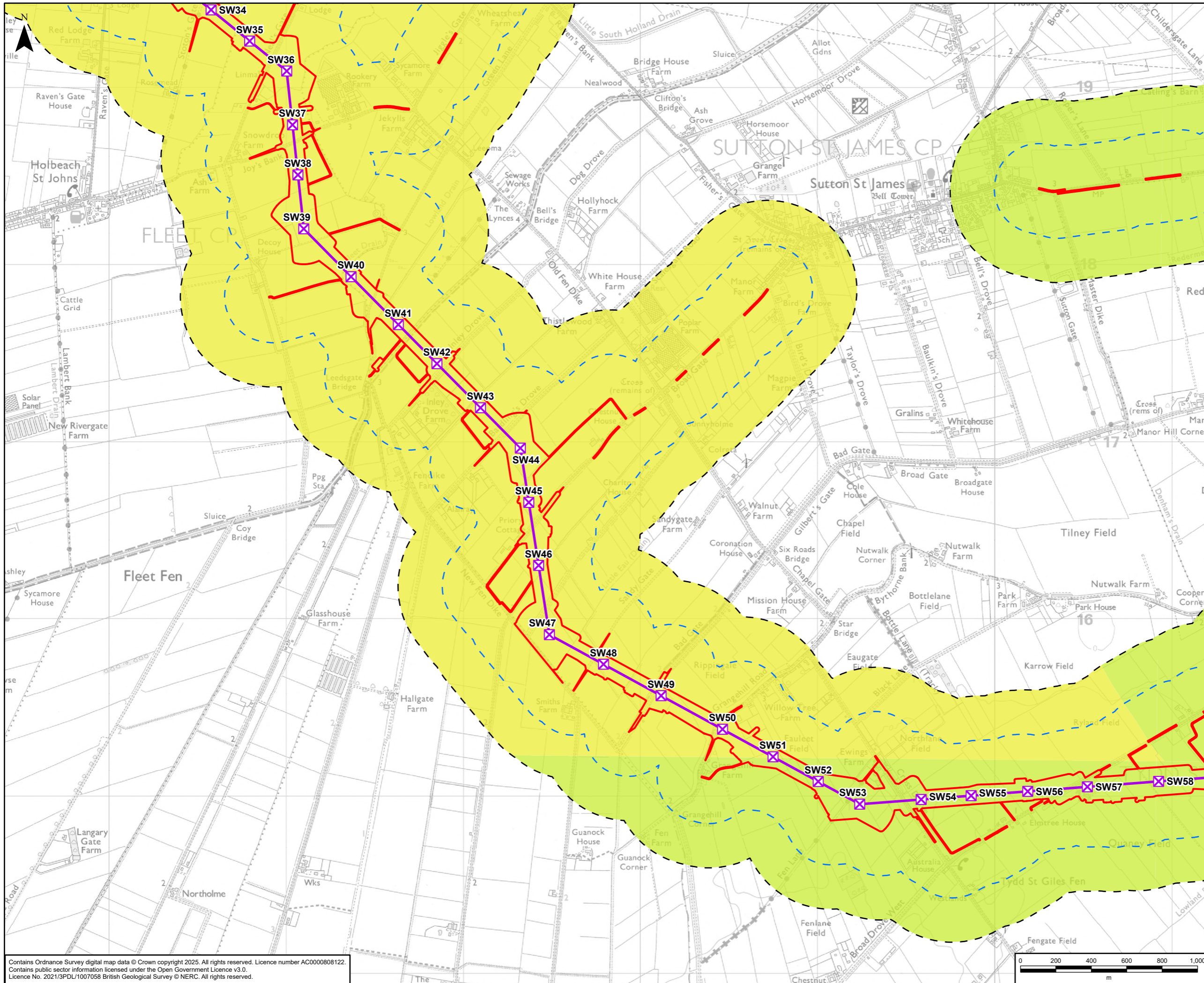
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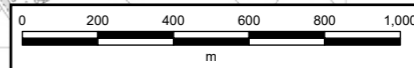


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  - West Walton Formation - Mudstone and Siltstone
  - West Walton Formation and Amphill Clay Formation (Undifferentiated) - Mudstone

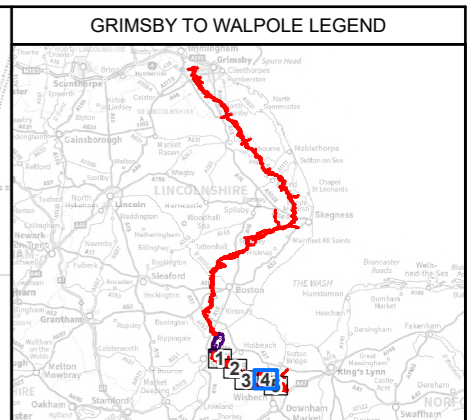
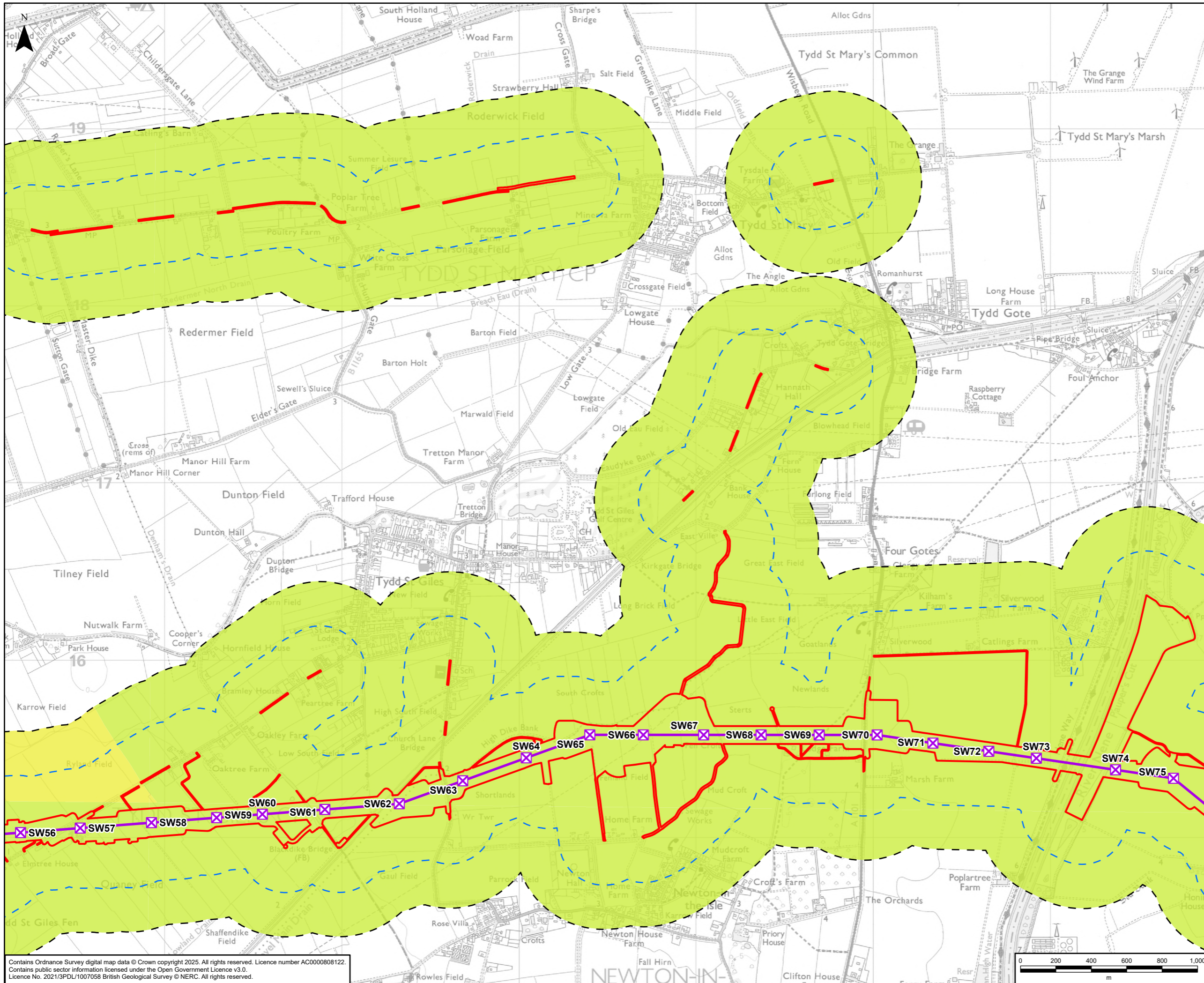
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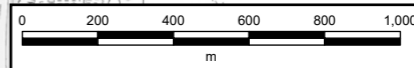


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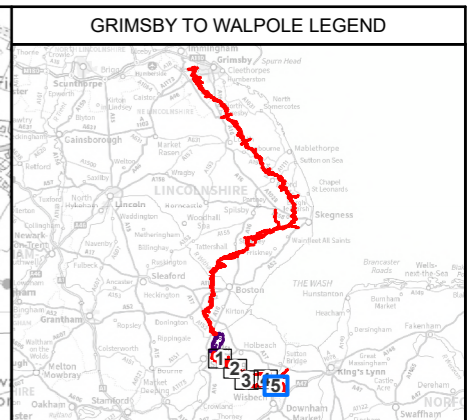
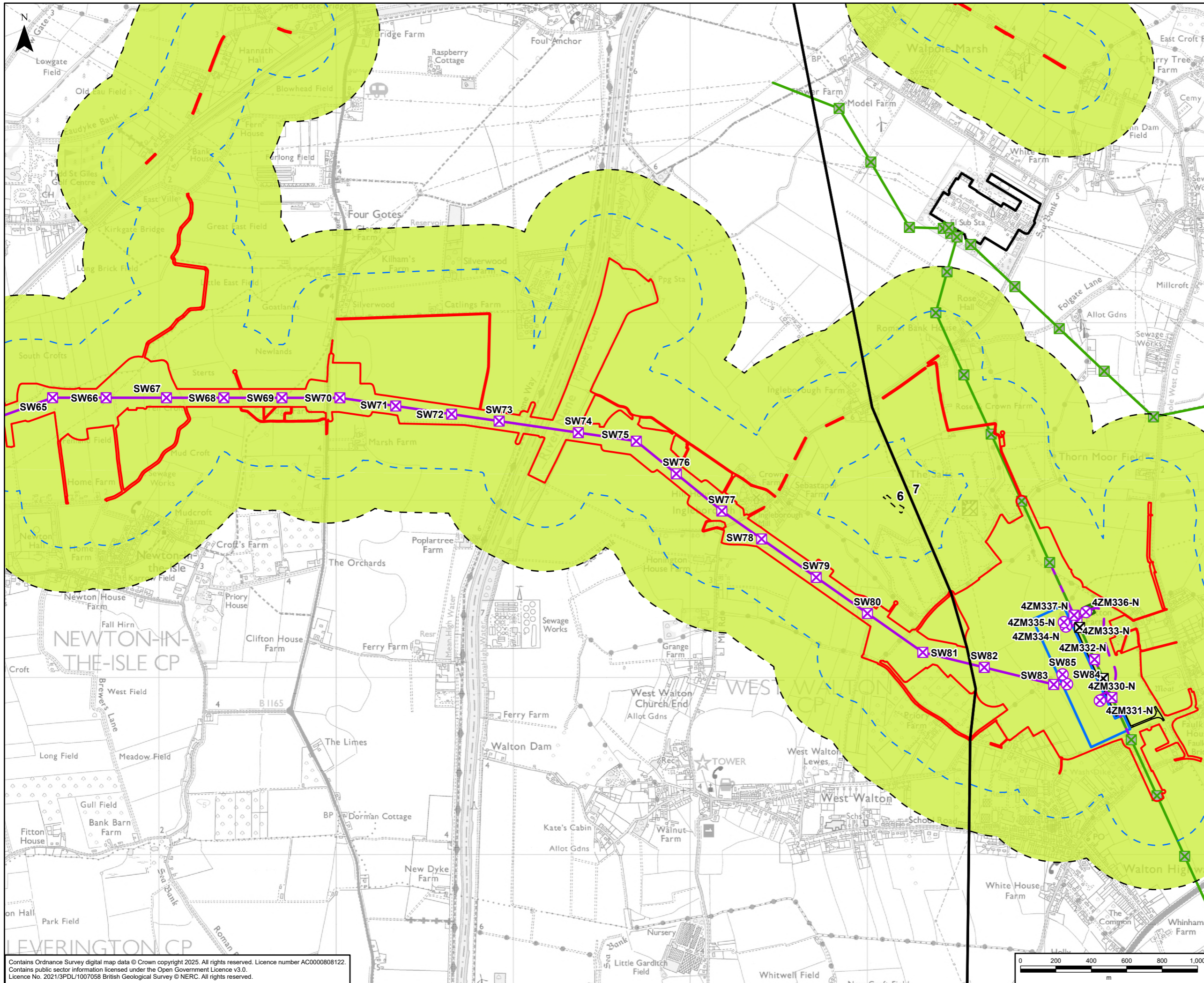
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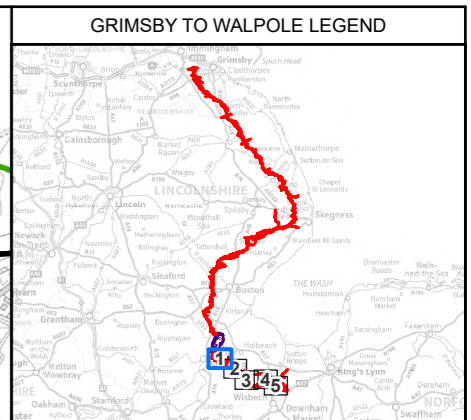
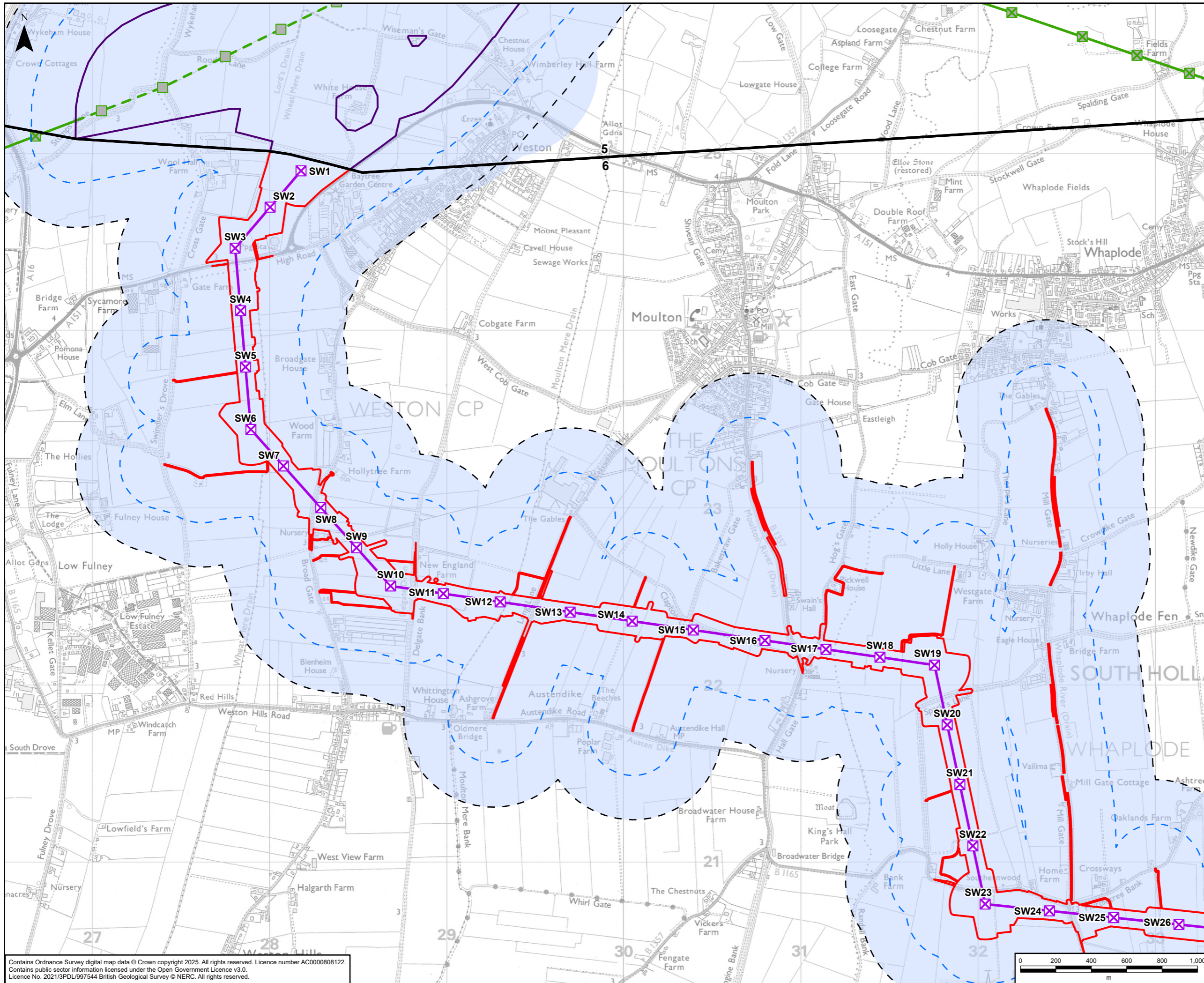
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  - Bedrock Geology (BGS 50k)
  - Amptill Clay Formation - Mudstone

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- Unproductive Strata

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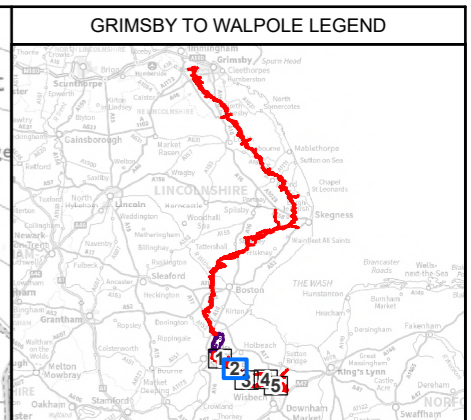
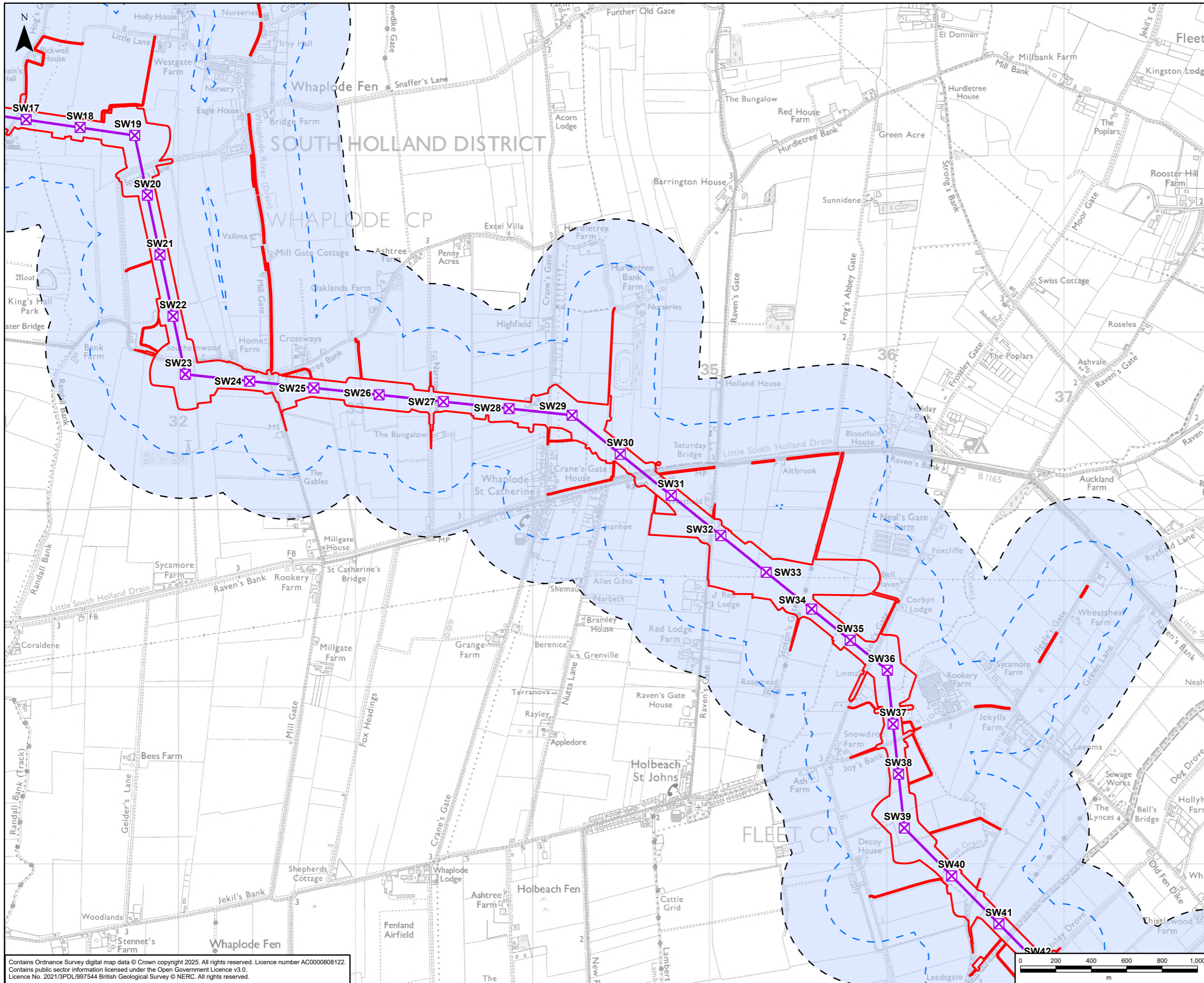
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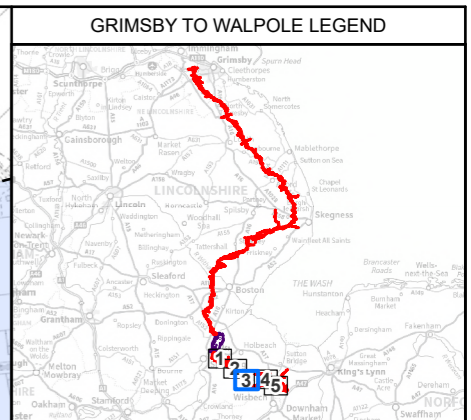
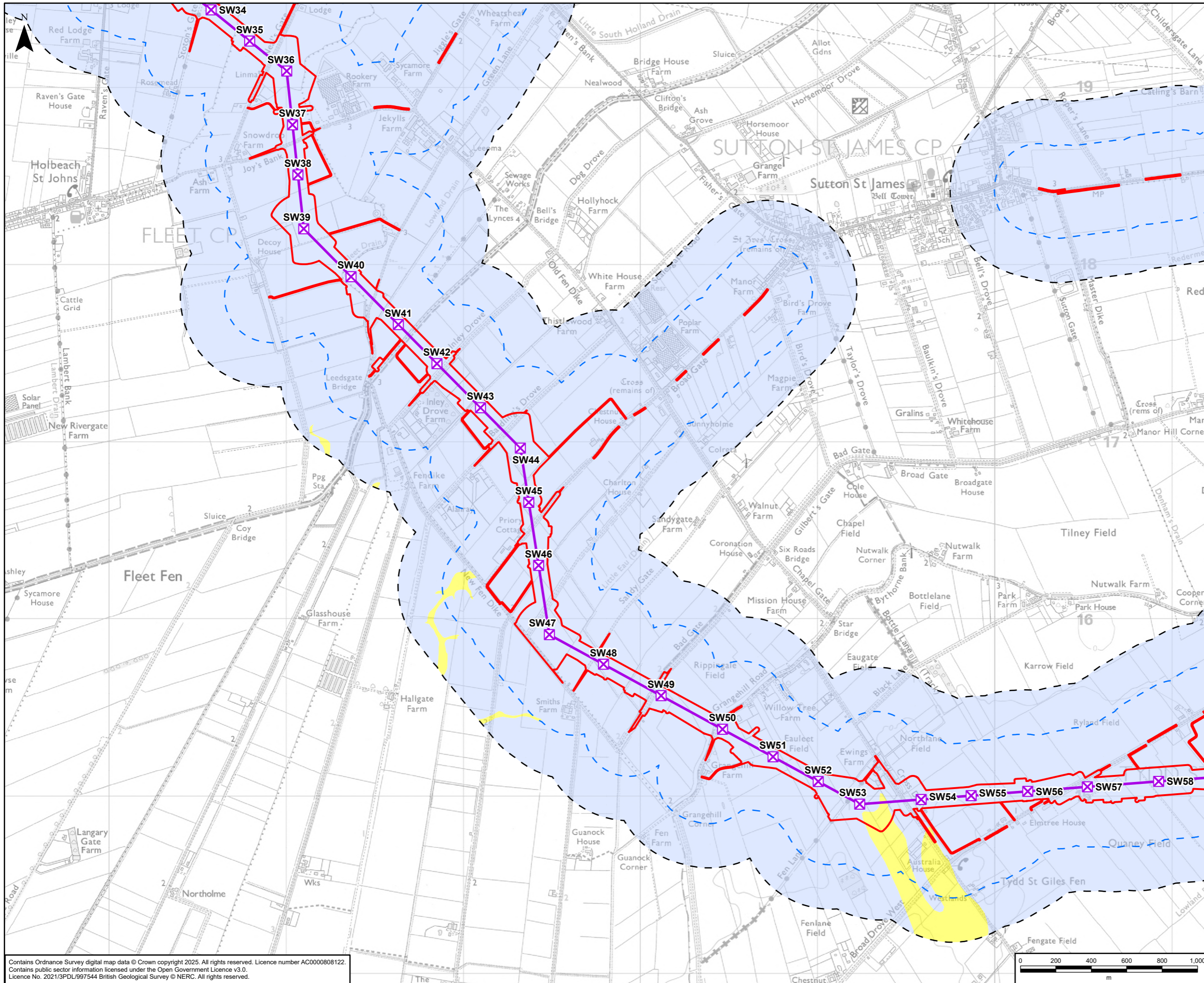
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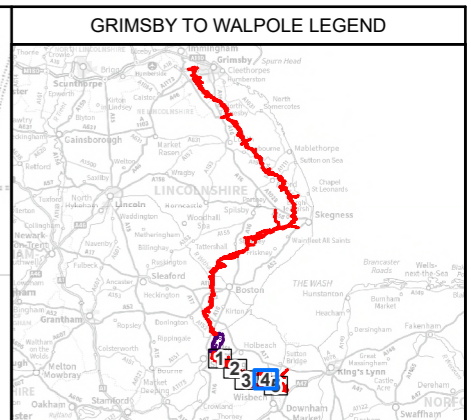
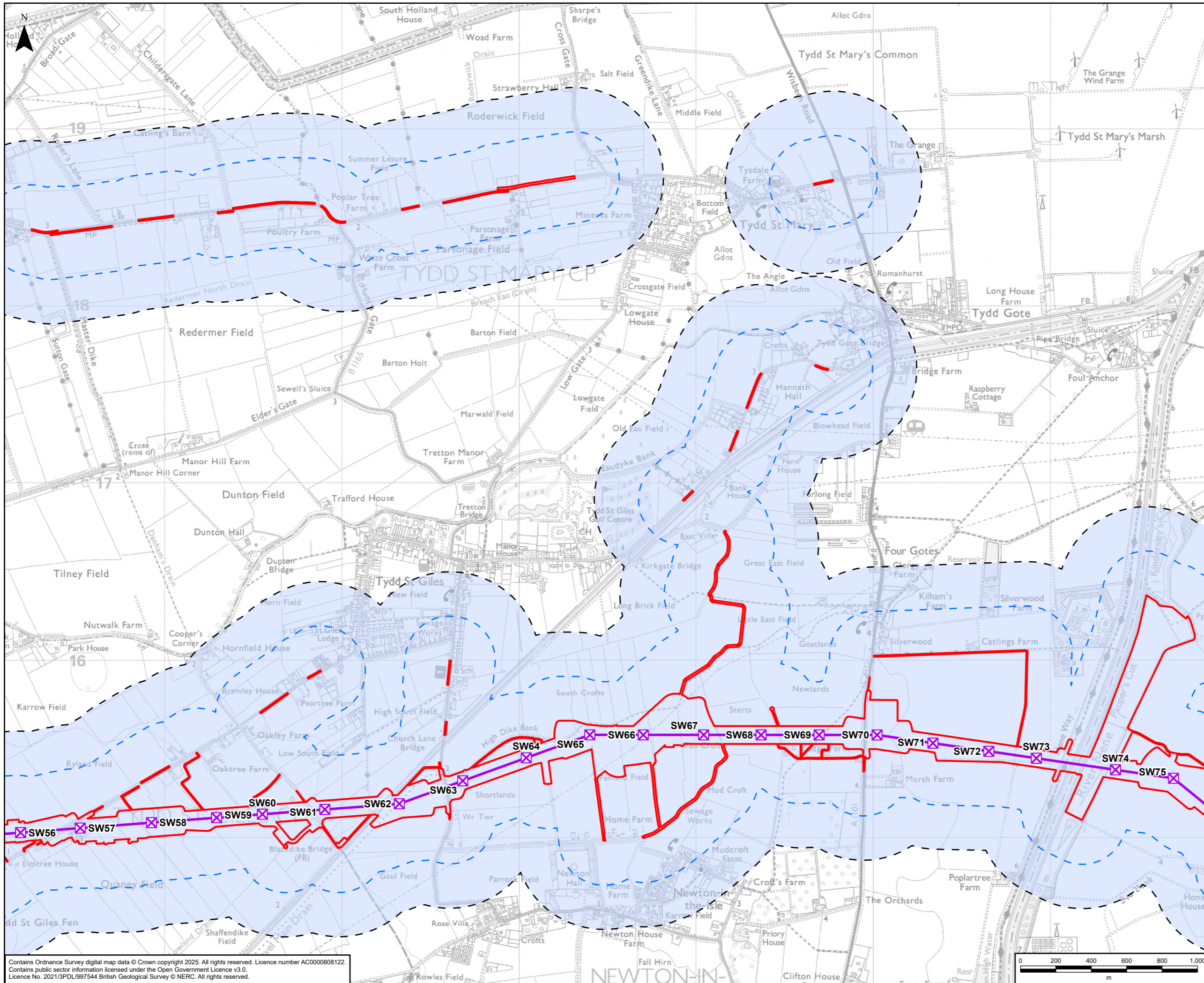
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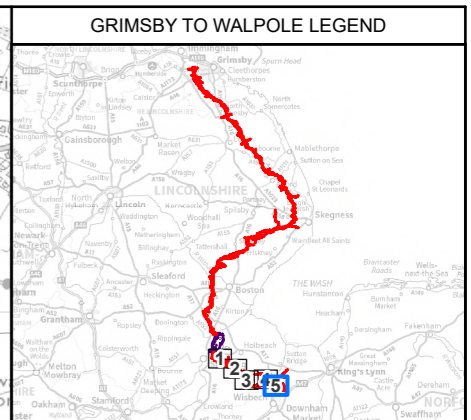
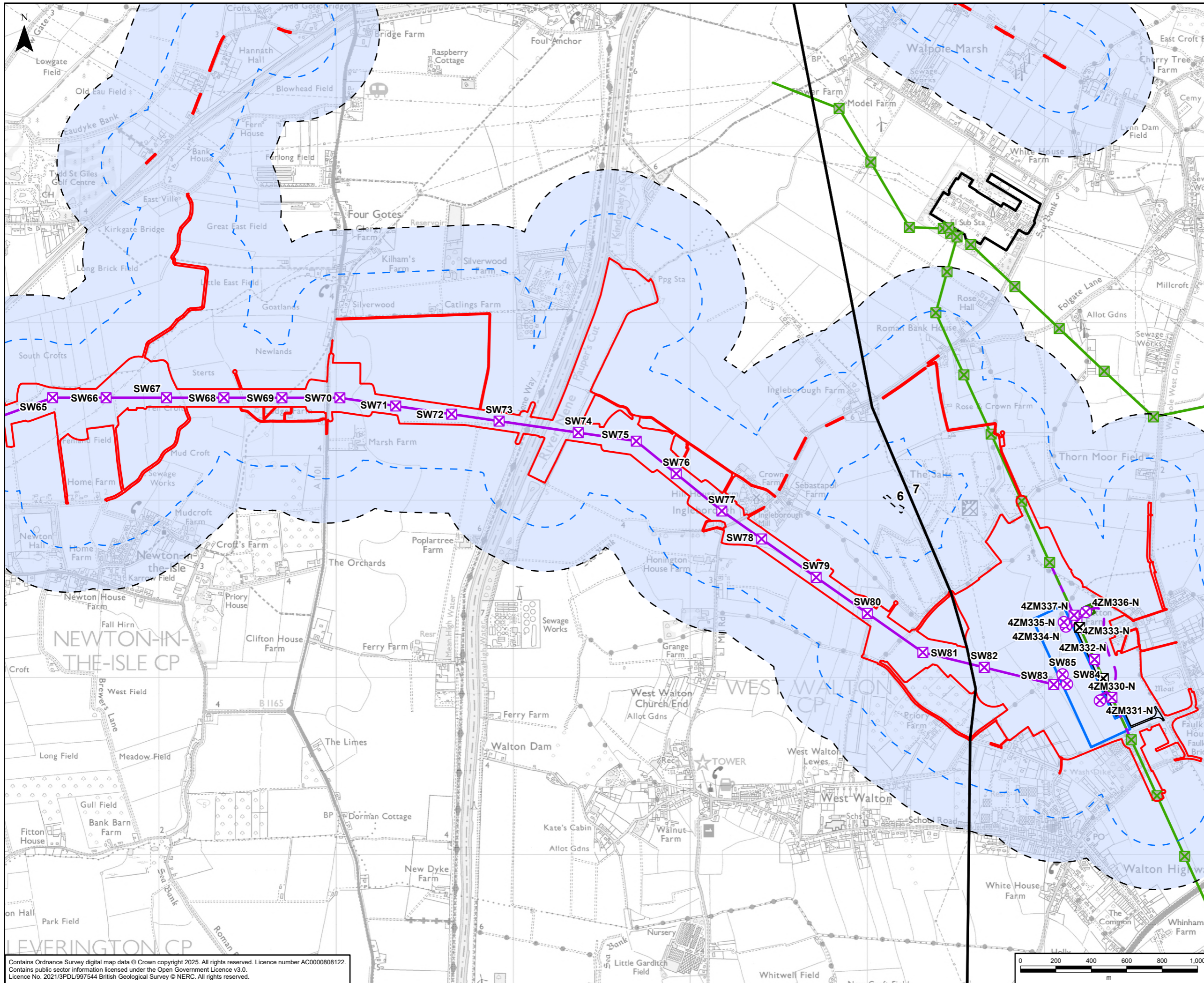
- Legend**
- Draft Order Limits
  - 250m Study Area
  - 500m Study Area
  - Indicative New Lattice Pylon
  - Indicative New Overhead Line
- Aquifer Designation: Superficial Deposits**
- Unproductive Strata

A	25/04/2025	First Issue	LC	SG	DR
Rev	Date	Description	GIS	Chk	App

<b>nationalgrid</b>					
Purpose: PEI REPORT - SECTION 6					
Scheme: GRIMSBY TO WALPOLE					
Document Title: FIGURE 7.3 AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS					
Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	25/04/2025	SG	25/04/2025	DR	25/04/2025
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:20,000	A3	4 OF 5	A	

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- Legend**
- Draft Order Limits
  - Route Section Break
  - 250m Study Area
  - 500m Study Area
  - Indicative New Lattice Pylon
  - Indicative New Gantry
  - Existing Lattice Pylon - Not Affected
  - Existing Lattice Pylon - To Be Dismantled
  - Indicative New Overhead Line
  - Indicative New Underground Cable
  - Existing Overhead Line - Not Affected
  - Existing Overhead Line - To Be Dismantled
  - Existing Overhead Line - To Be Modified
  - Existing Substation Boundary
  - Indicative New Substation Boundary
  - Indicative Cable Sealing End Compound Boundary
  - Indicative Permanent Substation Access Route
  - Aquifer Designation: Superficial Deposits
  - Unproductive Strata

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Rev	Date	Description	GIS	Chk	App

**nationalgrid**

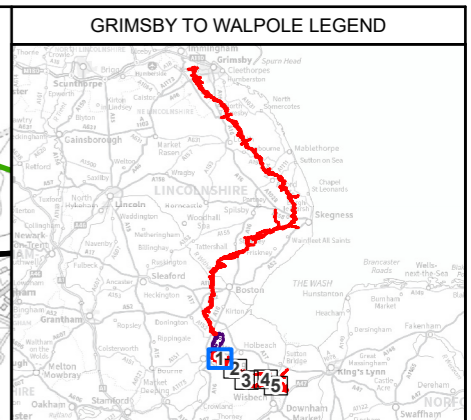
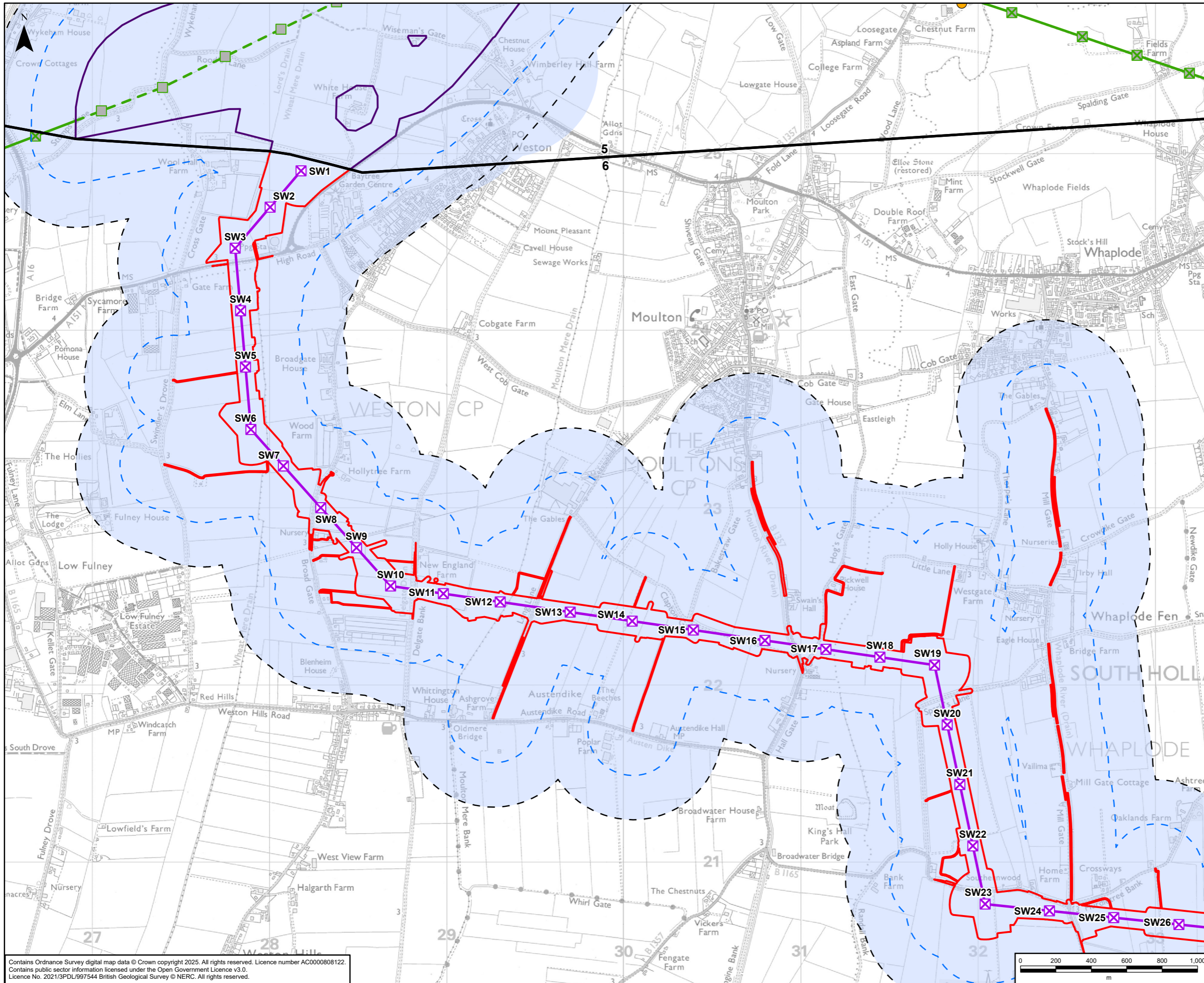
Purpose: PEI REPORT - SECTION 6

Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.3**  
 AQUIFER DESIGNATIONS: SUPERFICIAL DEPOSITS

Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	25/04/2025	SG	25/04/2025	DR	25/04/2025
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:20,000	A3	5 OF 5	A	





- Legend**
- Draft Order Limits
  - Refined Weston Marsh Substation Siting Zone
  - Route Section Break
  - 250m Study Area
  - 500m Study Area
  - ✕ Indicative New Lattice Pylon
  - Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
  - ✕ Existing Lattice Pylon - Not Affected
  - Indicative New Overhead Line
  - Existing Overhead Line - Not Affected
  - Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified
  - Private Water Supply Location
- Aquifer Designation: Bedrock Geology
- Unproductive Strata

**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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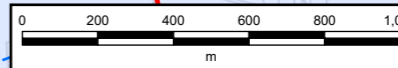
Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.4**  
 AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

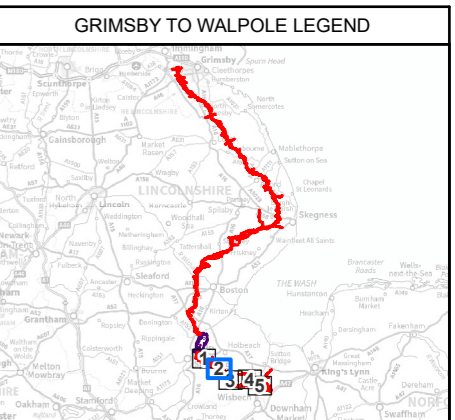
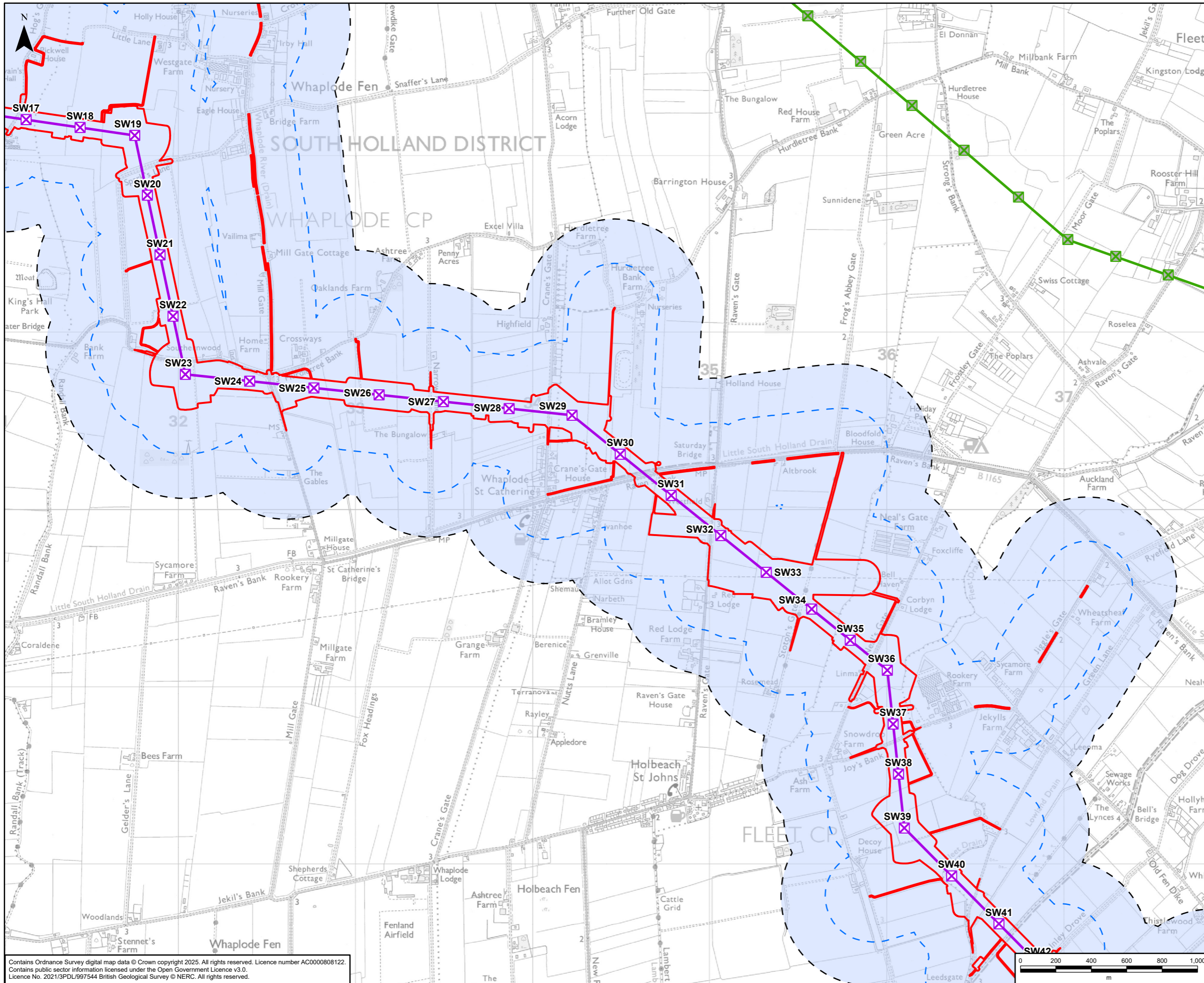
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FIGURE	1:20,000	A3	1 OF 5	A

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**Legend**

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- X Indicative New Lattice Pylon
- X Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Aquifer Designation: Bedrock Geology

- Unproductive Strata

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

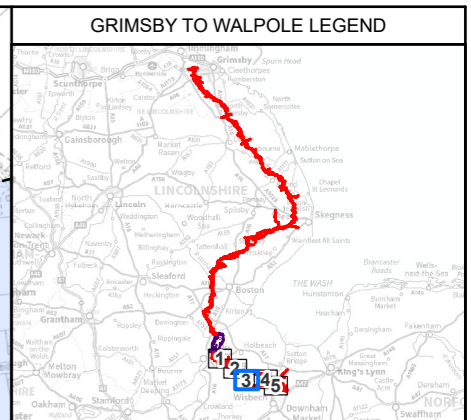
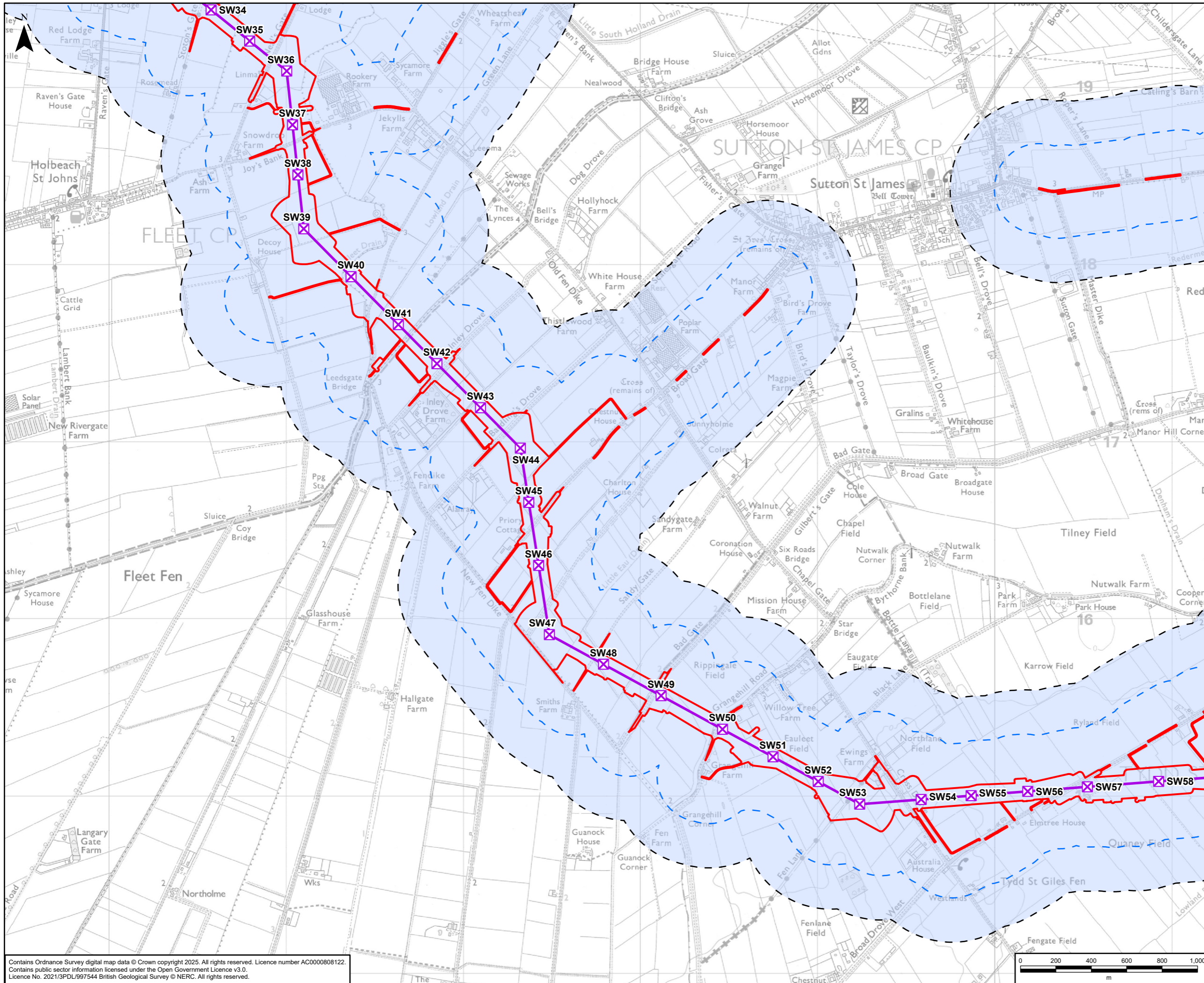
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A	12/05/2025	First Issue	LC	SG	DR

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Purpose: PEI REPORT - SECTION 6					
Scheme: GRIMSBY TO WALPOLE					
Document Title: FIGURE 7.4 AQUIFER DESIGNATIONS: BEDROCK GEOLOGY					
Creator: LC	Date: 12/05/2025	Checker: SG	Date: 12/05/2025	Approver: DR	Date: 12/05/2025
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- Legend**
- Draft Order Limits
  - 250m Study Area
  - 500m Study Area
  - X Indicative New Lattice Pylon
  - Indicative New Overhead Line
  - Aquifer Designation: Bedrock Geology
  - Unproductive Strata

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

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Rev	Date	Description	GIS	Chk	App

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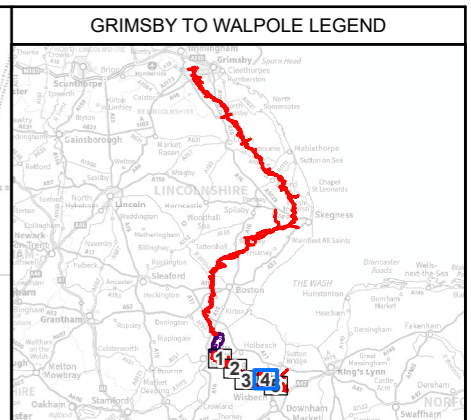
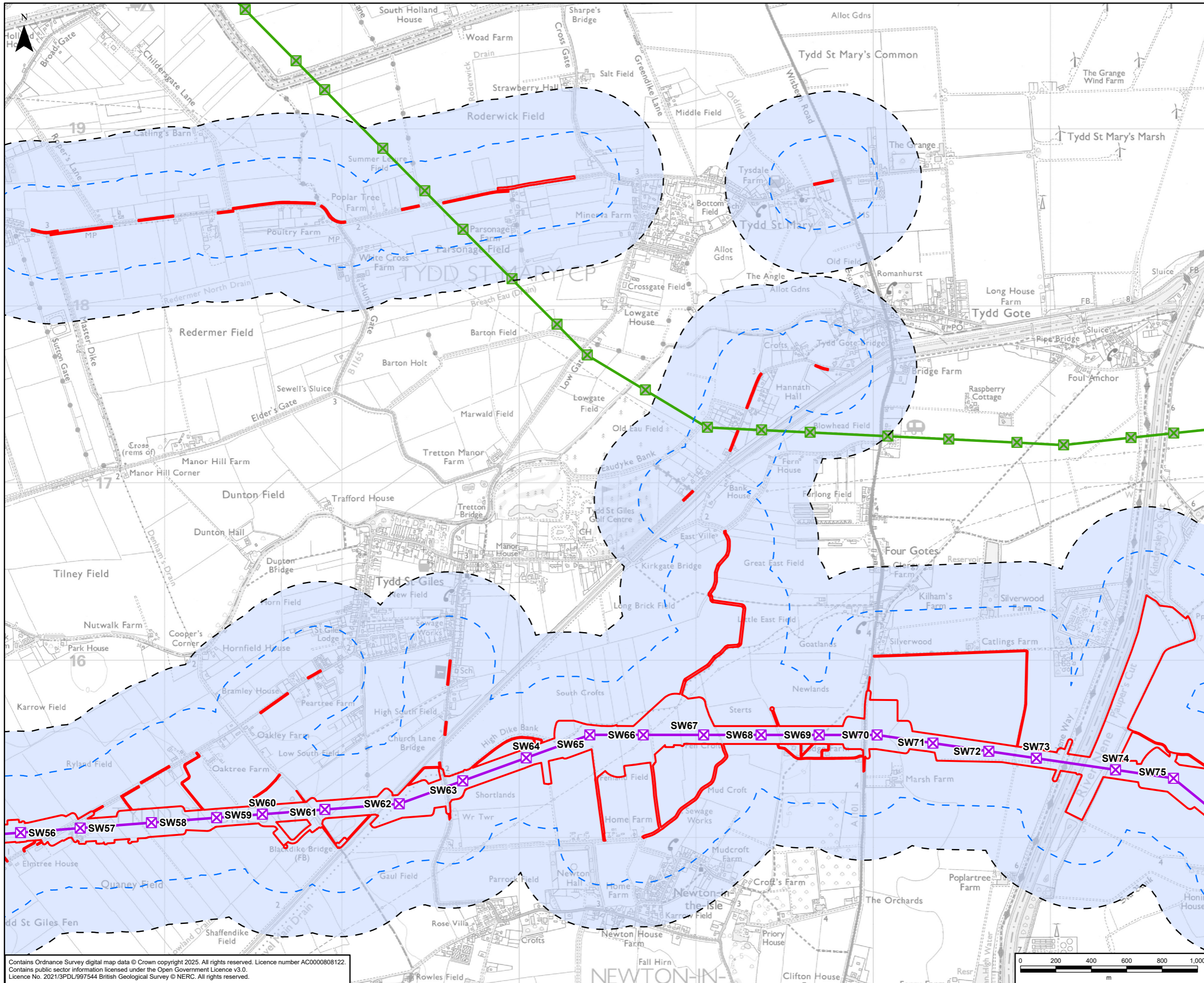
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Document Title: **FIGURE 7.4**  
 AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	12/05/2025	SG	12/05/2025	DR	12/05/2025
Document Type:	Scale:	Format:	Sheets:	Rev:	
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**GRIMSBY TO WALPOLE LEGEND**

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Existing Lattice Pylon - Not Affected
- Indicative New Overhead Line
- Existing Overhead Line - Not Affected

Aquifer Designation: Bedrock Geology

- Unproductive Strata

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

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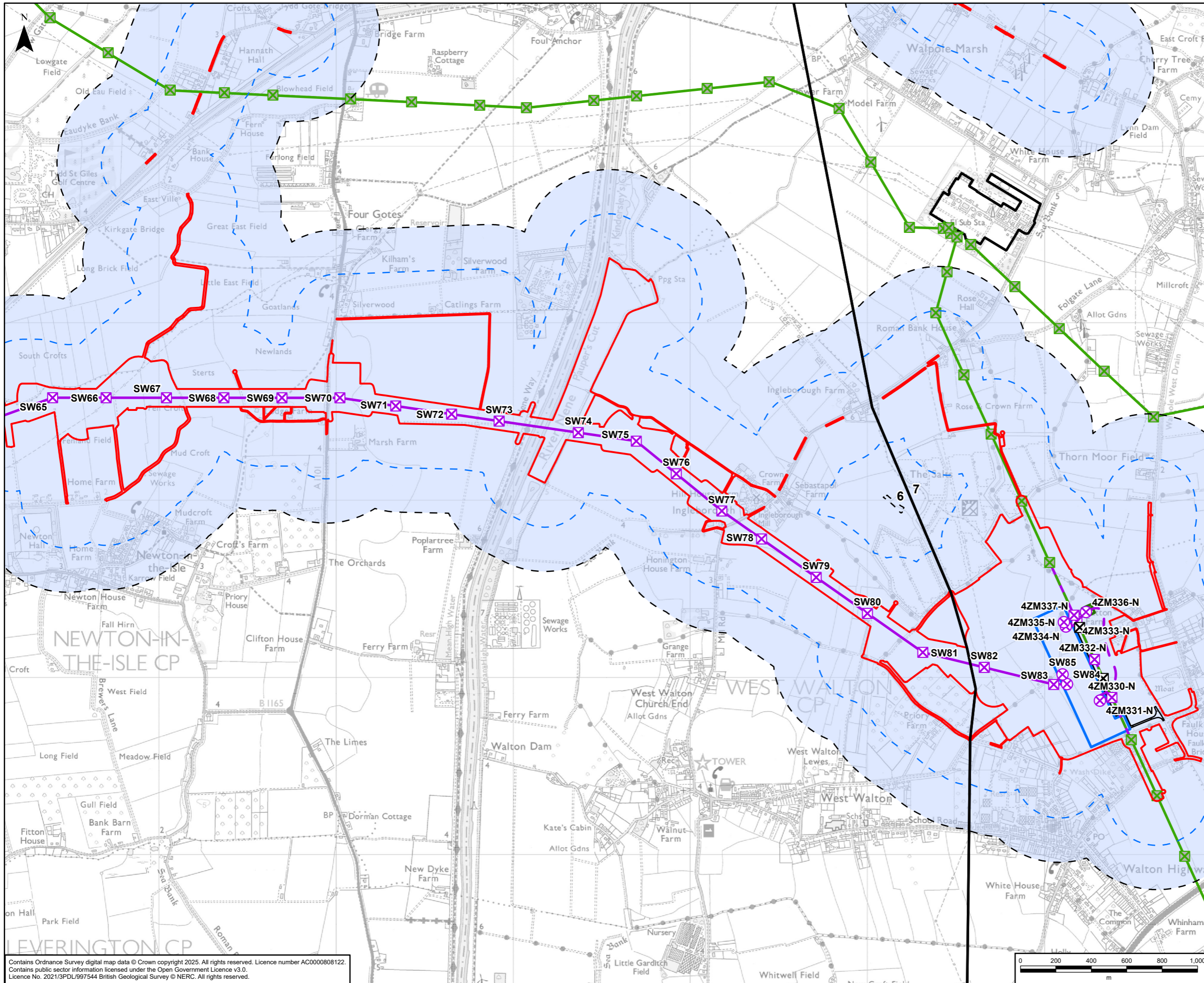
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 AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

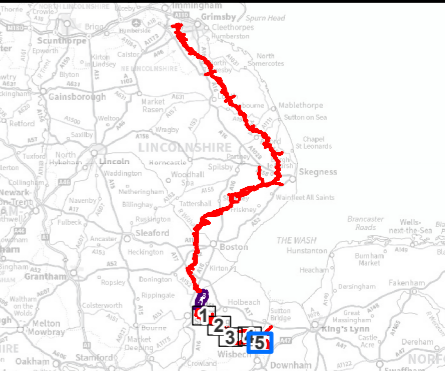
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GRIMSBY TO WALPOLE LEGEND



- Legend**
- Draft Order Limits
  - Route Section Break
  - 250m Study Area
  - 500m Study Area
  - Indicative New Lattice Pylon
  - Indicative New Gantry
  - Existing Lattice Pylon - Not Affected
  - Existing Lattice Pylon - To Be Dismantled
  - Indicative New Overhead Line
  - Indicative New Underground Cable
  - Existing Overhead Line - Not Affected
  - Existing Overhead Line - To Be Dismantled
  - Existing Overhead Line - To Be Modified
  - Existing Substation Boundary
  - Indicative New Substation Boundary
  - Indicative Cable Sealing End Compound Boundary
  - Indicative Permanent Substation Access Route
- Aquifer Designation: Bedrock Geology
- Unproductive Strata

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

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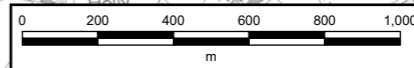
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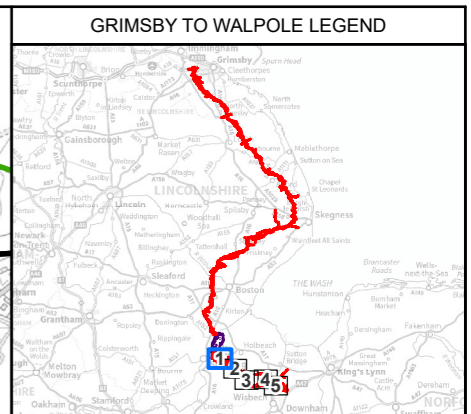
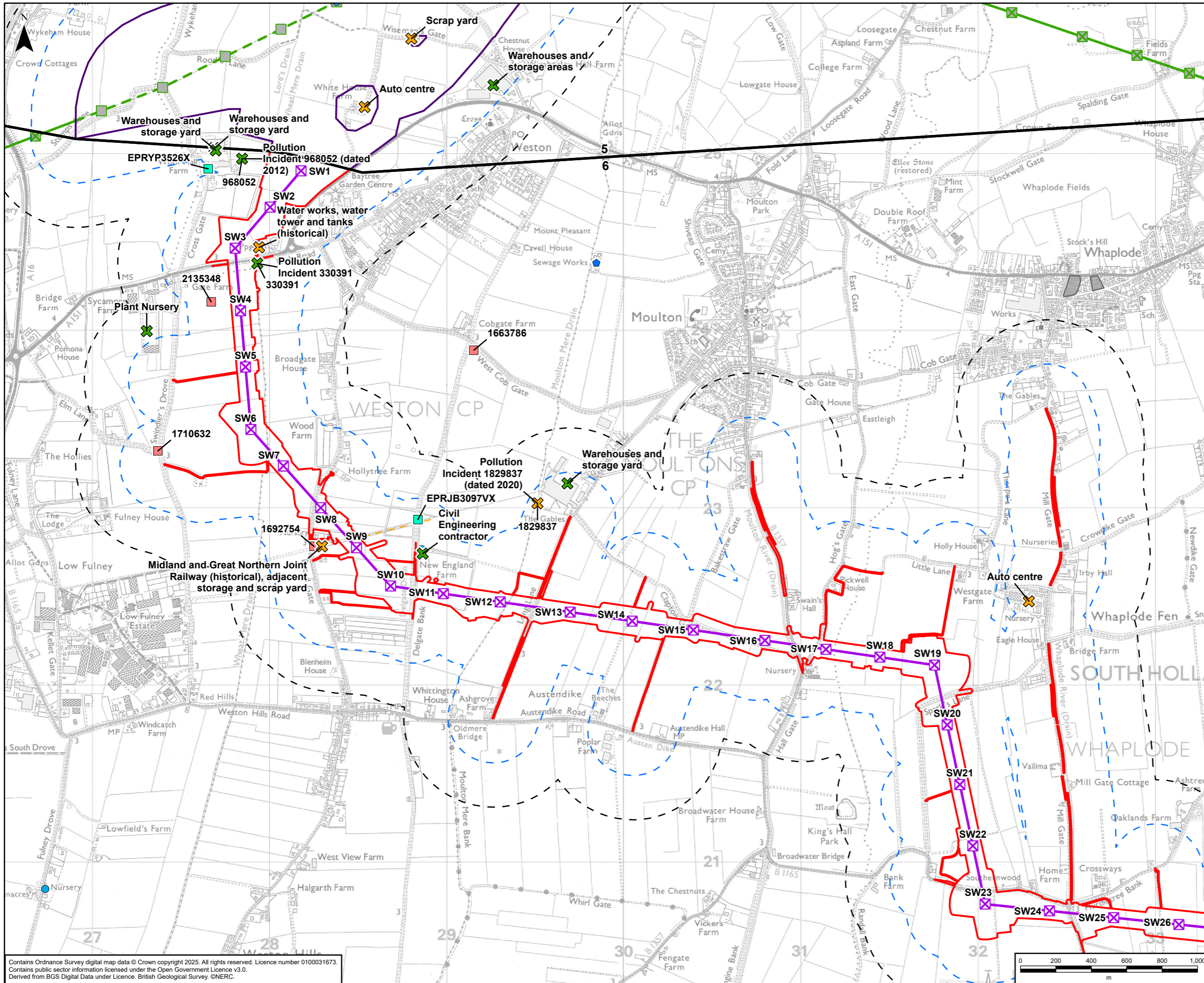
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AQUIFER DESIGNATIONS: BEDROCK GEOLOGY

Creator: LC	Date: 12/05/2025	Checker: SG	Date: 12/05/2025	Approver: DR	Date: 12/05/2025
Document Type: FIGURE	Scale: 1:20,000	Format: A3	Sheets: 5 OF 5	Rev: A	

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- Legend**
- Draft Order Limits
  - Refined Weston Marsh Substation Siting Zone
  - Route Section Break
  - 250m Study Area
  - 500m Study Area
  - Indicative New Lattice Pylon
  - Existing Lattice Pylon - Within Weston Marsh Siting Zone that May Be Modified
  - Existing Lattice Pylon - Not Affected
  - Indicative New Overhead Line
  - Existing Overhead Line - Not Affected
  - Existing Overhead Line - Within Weston Marsh Siting Zone that May Be Modified
  - Pollution Incident Location (EA)
  - Discharge Consent Location (EA)
  - Recent Industrial Land Uses
  - Sewage Treatment Works (LCC)
  - Lincolnshire Waste Site (LCC)
  - Historical Railway
  - Historical Tank
  - Historic Landfill Site (EA)
- Features of Contamination Potential**
- Low
  - 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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Rev	Date	Description	GIS	Chk	App

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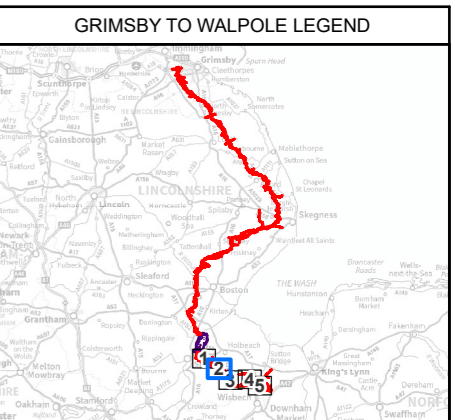
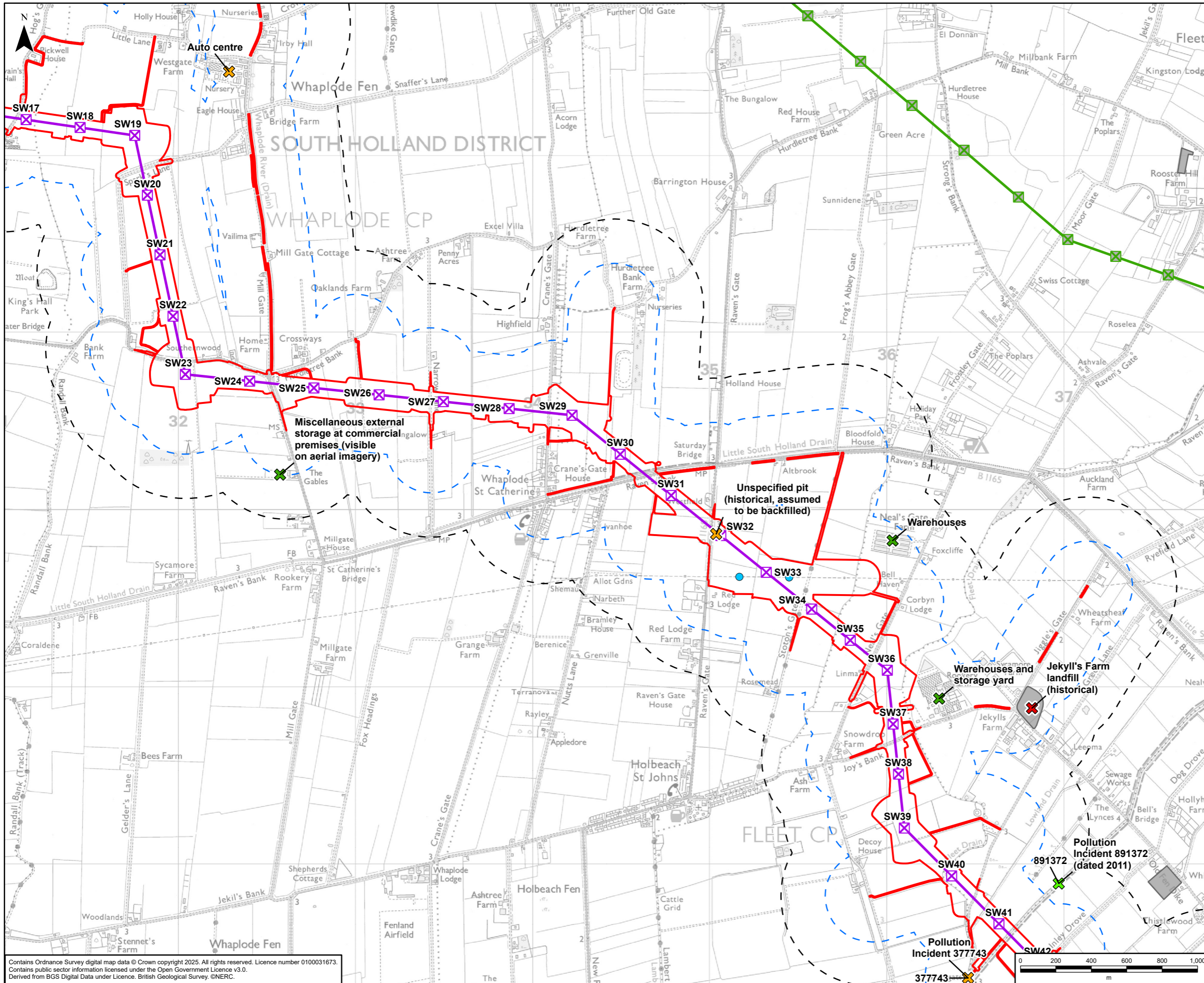
Scheme: GRIMSBY TO WALPOLE

Document Title: FIGURE 7.5 LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE PREVIOUS LAND USES

Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	12/05/2025	SG	12/05/2025	DR	12/05/2025
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- Legend**
- Draft Order Limits
  - 250m Study Area
  - 500m Study Area
  - Indicative New Lattice Pylon
  - Existing Lattice Pylon - Not Affected
  - Indicative New Overhead Line
  - Existing Overhead Line - Not Affected
  - Pollution Incident Location (EA)
  - Recent Industrial Land Uses
  - Surface Ground Workings
  - Historic Landfill Site (EA)
- Features of Contamination Potential**
- X Very Low
  - x Low
  - X Moderate
  - X 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.  
EA abstraction information has not been digitised as this is protected information.

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Purpose: PEI REPORT - SECTION 6

Scheme: GRIMSBY TO WALPOLE

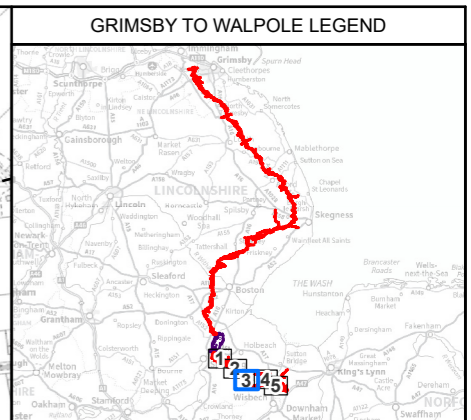
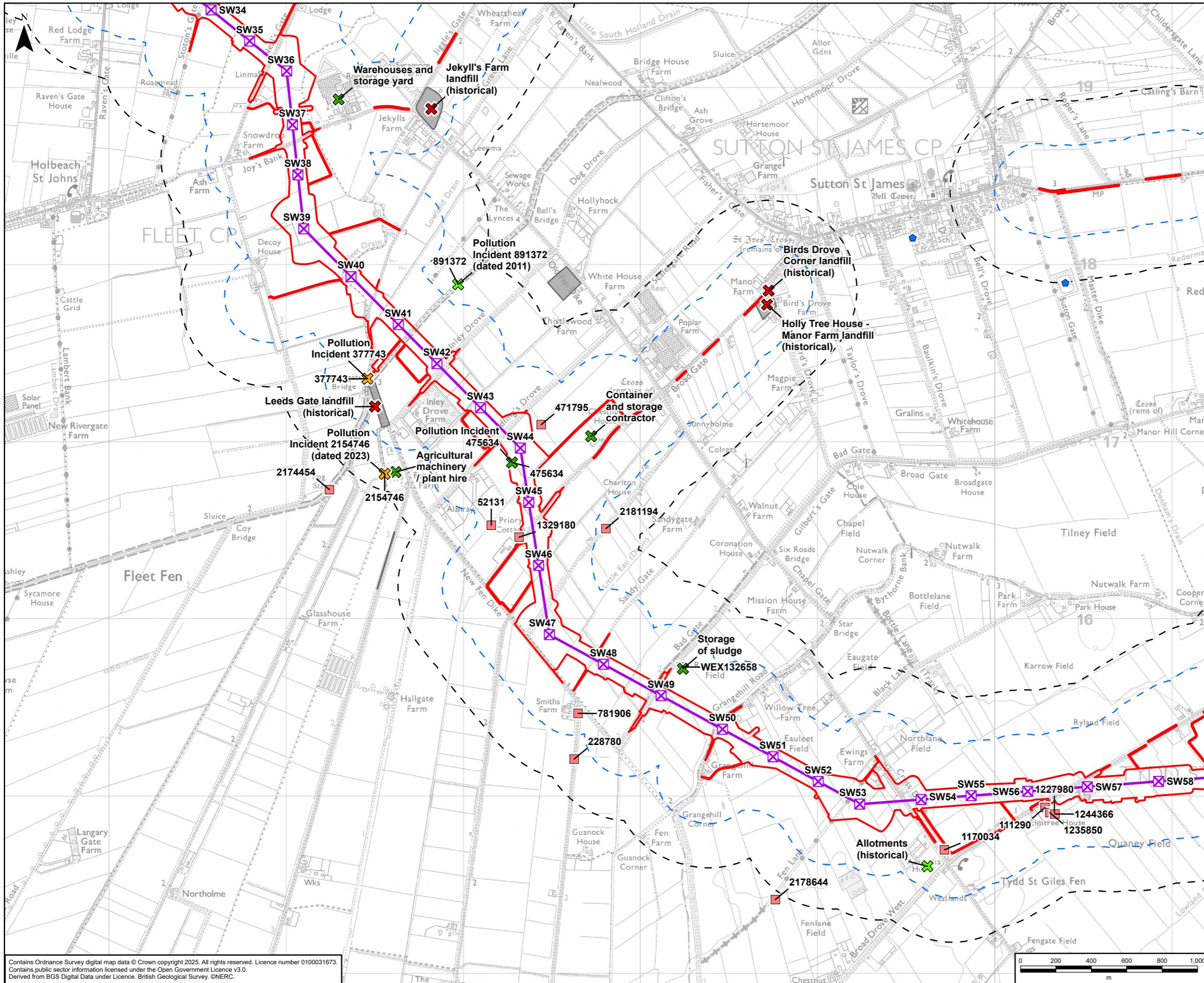
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LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE PREVIOUS LAND USES

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LC	12/05/2025	SG	12/05/2025	DR	12/05/2025

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**GRIMSBY TO WALPOLE LEGEND**

**Legend**

- Draft Order Limits
- 250m Study Area
- 500m Study Area
- Indicative New Lattice Pylon
- Indicative New Overhead Line
- Pollution Incident Location (EA)
- Waste Exemption (EA)
- Sewage Treatment Works (LCC)
- Historic Landfill Site (EA)

**Features of Contamination Potential**

- Very Low
- Low
- Moderate
- 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.  
EA abstraction information has not been digitised as this is protected information.

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Purpose: PEI REPORT - SECTION 6

Scheme: GRIMSBY TO WALPOLE

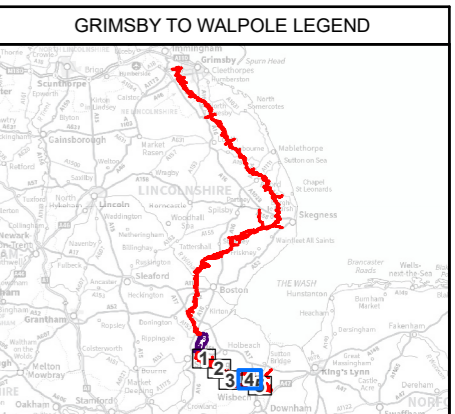
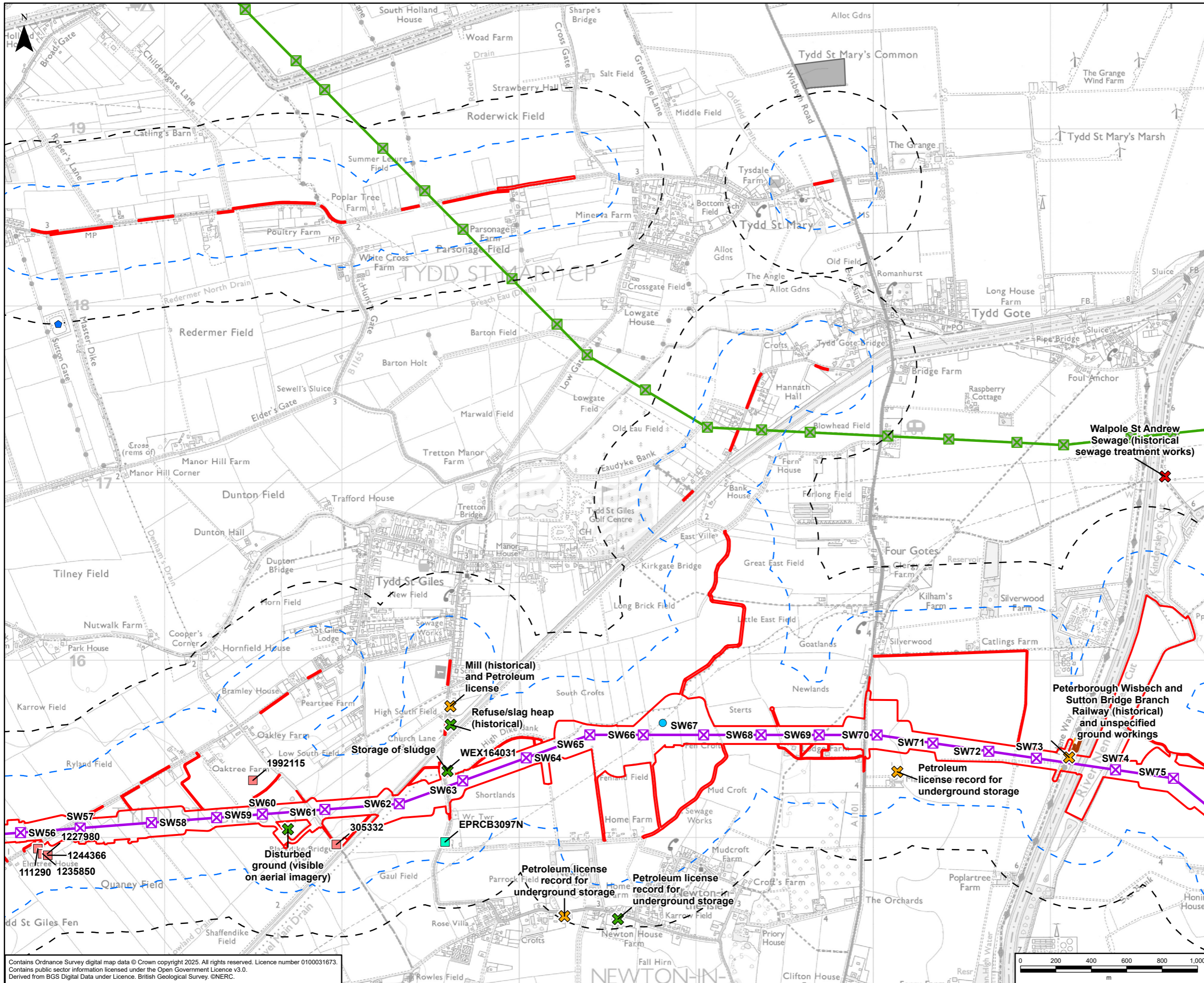
Document Title: FIGURE 7.5 LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE PREVIOUS LAND USES

Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	12/05/2025	SG	12/05/2025	DR	12/05/2025

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- Legend**
- Draft Order Limits
  - 250m Study Area
  - 500m Study Area
  - Indicative New Lattice Pylon
  - Existing Lattice Pylon - Not Affected
  - Indicative New Overhead Line
  - Existing Overhead Line - Not Affected
  - Pollution Incident Location (EA)
  - Discharge Consent Location (EA)
  - Waste Exemption (EA)
  - Recent Industrial Land Uses
  - Sewage Treatment Works (LCC)
  - Historical Railway
  - Surface Ground Workings
  - Historic Landfill Site (EA)
- Features of Contamination Potential**
- Low
  - Moderate
  - 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.  
EA abstraction information has not been digitised as this is protected information.

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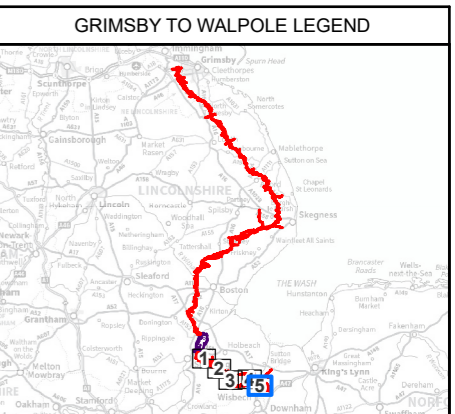
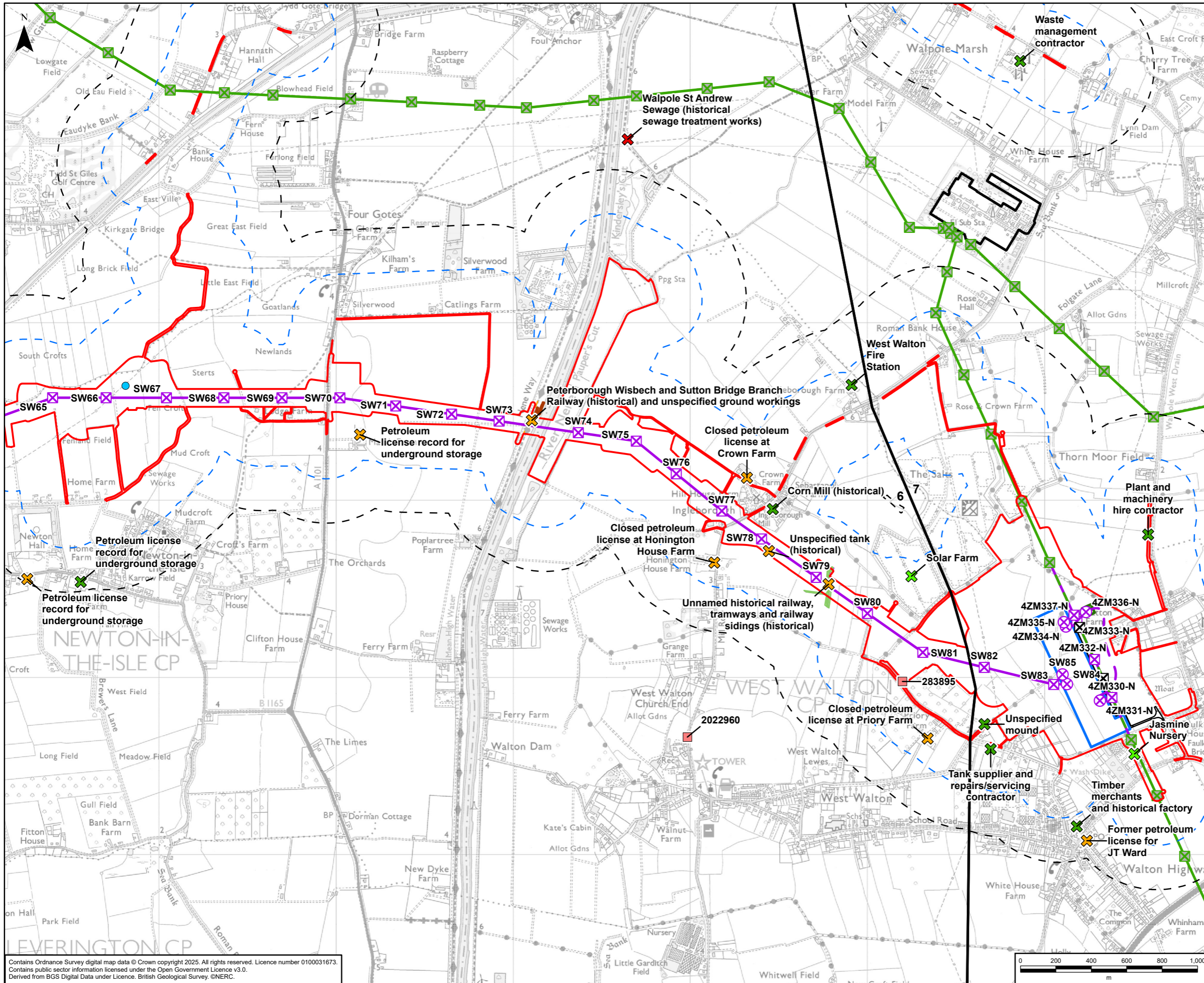
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LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE  
PREVIOUS LAND USES**

Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	12/05/2025	SG	12/05/2025	DR	12/05/2025

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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
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To Be Dismantled
- Indicative New Overhead Line
- Indicative New Underground Cable
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To Be Dismantled
- Existing Overhead Line - To Be Modified
- Existing Substation Boundary
- Indicative New Substation Boundary
- Indicative Cable Sealing End Compound Boundary
- Indicative Permanent Substation Access Route
- Pollution Incident Location (EA)
- Recent Industrial Land Uses
- Historical Railway
- Historical Railway Feature HD
- Historical Railway Feature LD
- Historical Tank
- Surface Ground Workings

**Features of Contamination Potential**

- Very Low
- Moderate
- Low
- 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.  
EA abstraction information has not been digitised as this is protected information.

Rev	Date	Description	GIS	Chk	App
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Purpose: PEI REPORT - SECTION 6

Scheme: GRIMSBY TO WALPOLE

Document Title: **FIGURE 7.5 LANDFILLS, WASTE AND POTENTIALLY CONTAMINATIVE PREVIOUS LAND USES**

Creator:	Date:	Checker:	Date:	Approver:	Date:
LC	12/05/2025	SG	12/05/2025	DR	12/05/2025

Document Type: FIGURE Scale: 1:20,000 Format: A3 Sheets: 5 OF 5 Rev: A

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