

Chesterfield to Willington

Environmental Impact Assessment Scoping Report
Volume 3 (Part 1): Figure 1.1 to Figure 10.7

October 2024



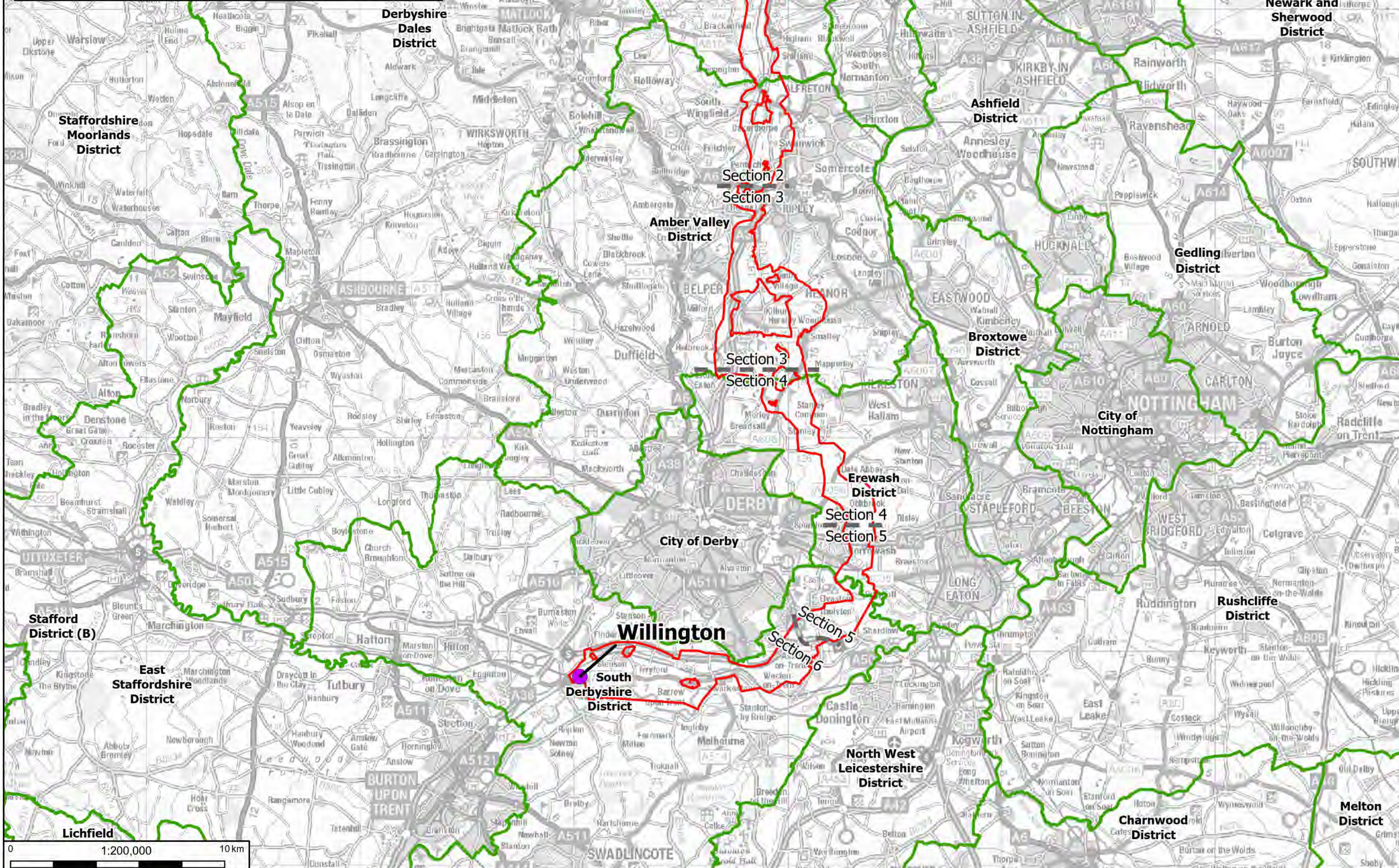
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1. Introduction

Figure 1.1



Legend

- Existing Substation
- Scoping Boundary
- EIA Scoping Section Lines
- Study Area
- Local Authority Boundary

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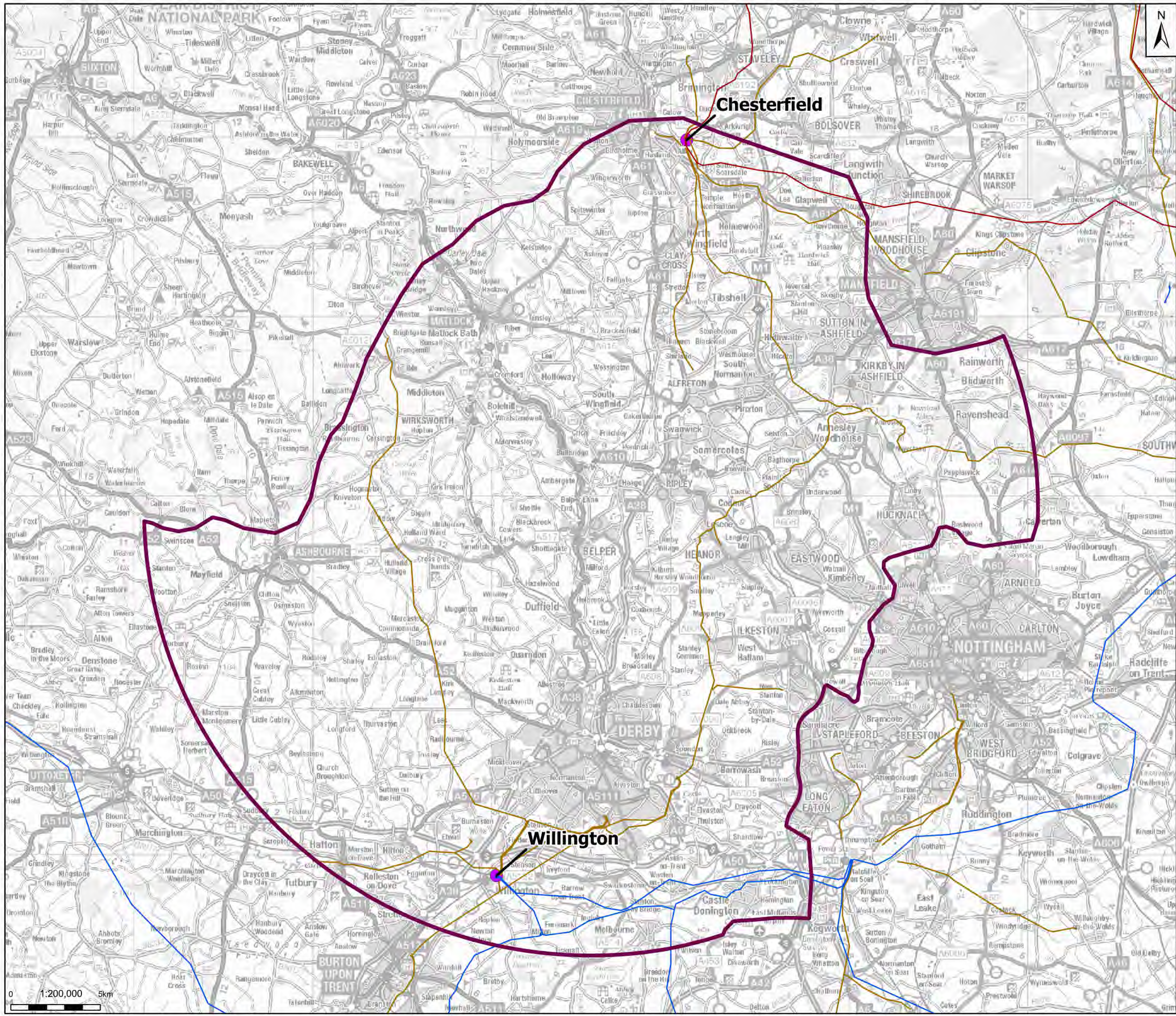
Introduction
 Figure 1.1
 Location / Context

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3. Main Alternatives Considered

Figure 3.1 to Figure 3.3

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Legend

- Routing and Siting Study Area
- Existing Substation

Existing Overhead Line

- 400kV
- 275kV
- 132kV

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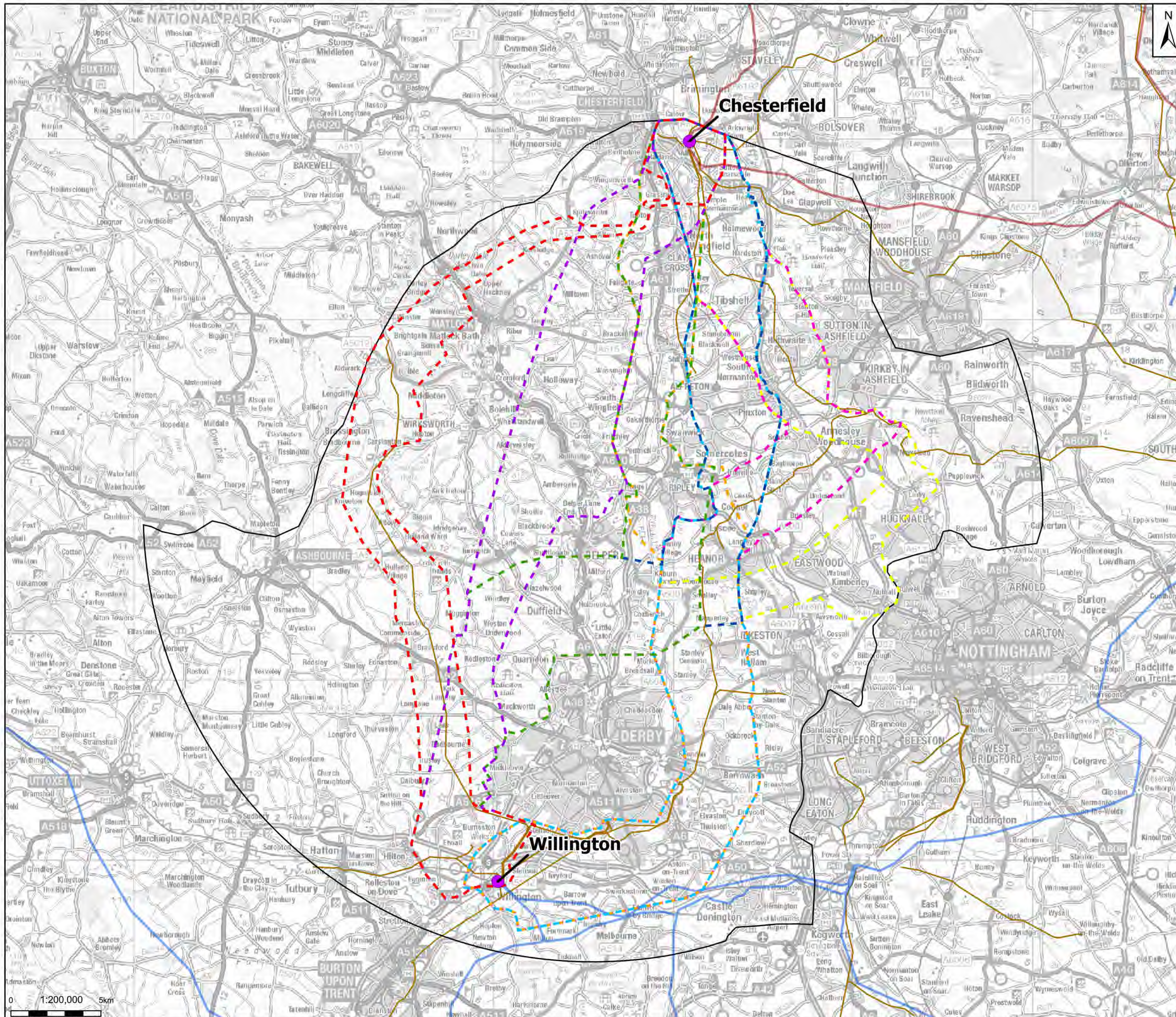
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**Main Alternatives Considered
 Figure 3.1
 Routing and Siting Study Area**

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Legend

- Routing and Siting Study Area
- Existing Substation
- Existing Overhead Line
- 400kV
- 275kV
- 132kV
- Preliminary Corridor 1
- Preliminary Corridor 2
- Preliminary Corridor 3
- Preliminary Corridor 3a
- Preliminary Corridor 4
- Preliminary Corridor 5a
- Preliminary Corridor 5b
- Preliminary Corridor 5c

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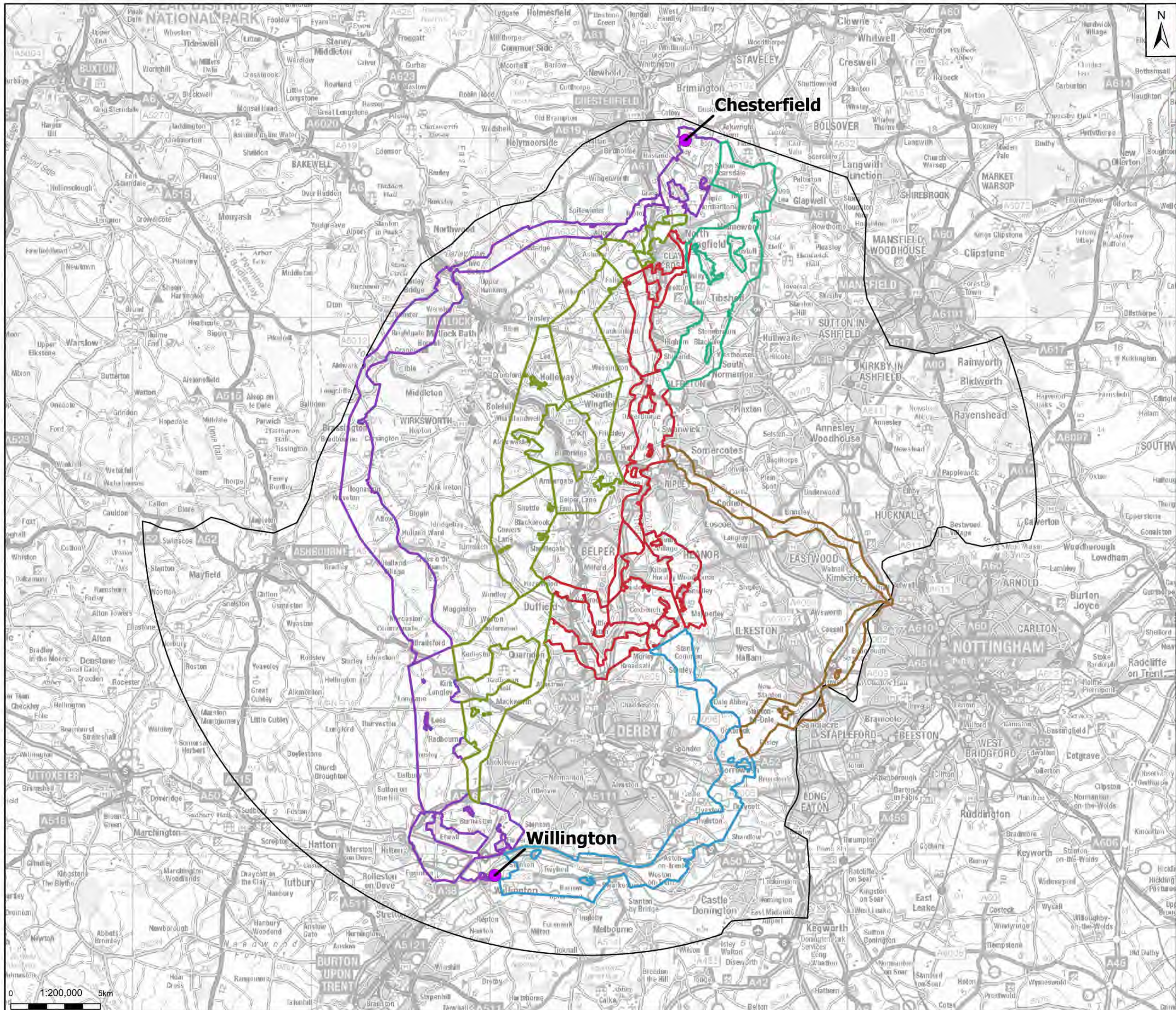
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Title: **Main Alternatives Considered Figure 3.2 Preliminary Route Corridor Options**

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Legend

- Existing Substation
- Routing and Siting Study Area
- Corridor 1
- Corridor 2
- Corridor 3
- Corridor 4
- Corridor 5
- Corridor 6

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Title: **Main Alternatives Considered Figure 3.3 Refined Route Corridor Options**

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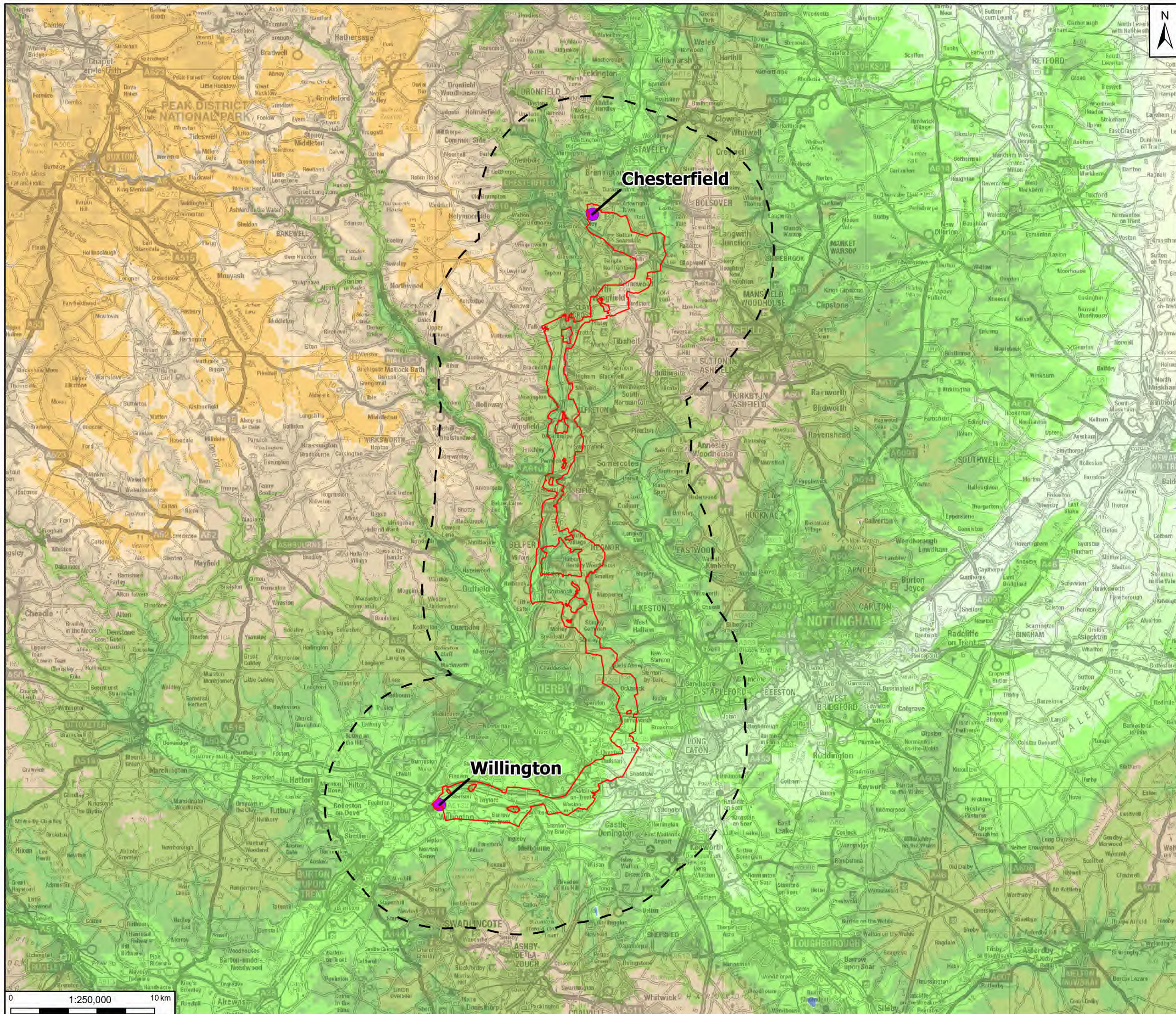
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6. Landscape and Visual

Figure 6.1 to Figure 6.6

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Legend

- Scoping Boundary
- Provisional LVIA Study Area - 7.5km
- Existing Substation

Elevation (Metres)

- 2 to 0
- 0 to 5
- 5 to 10
- 10 to 20
- 20 to 35
- 35 to 50
- 50 to 75
- 75 to 100
- 100 to 150
- 150 to 250
- 250 to 300
- 300 to 400

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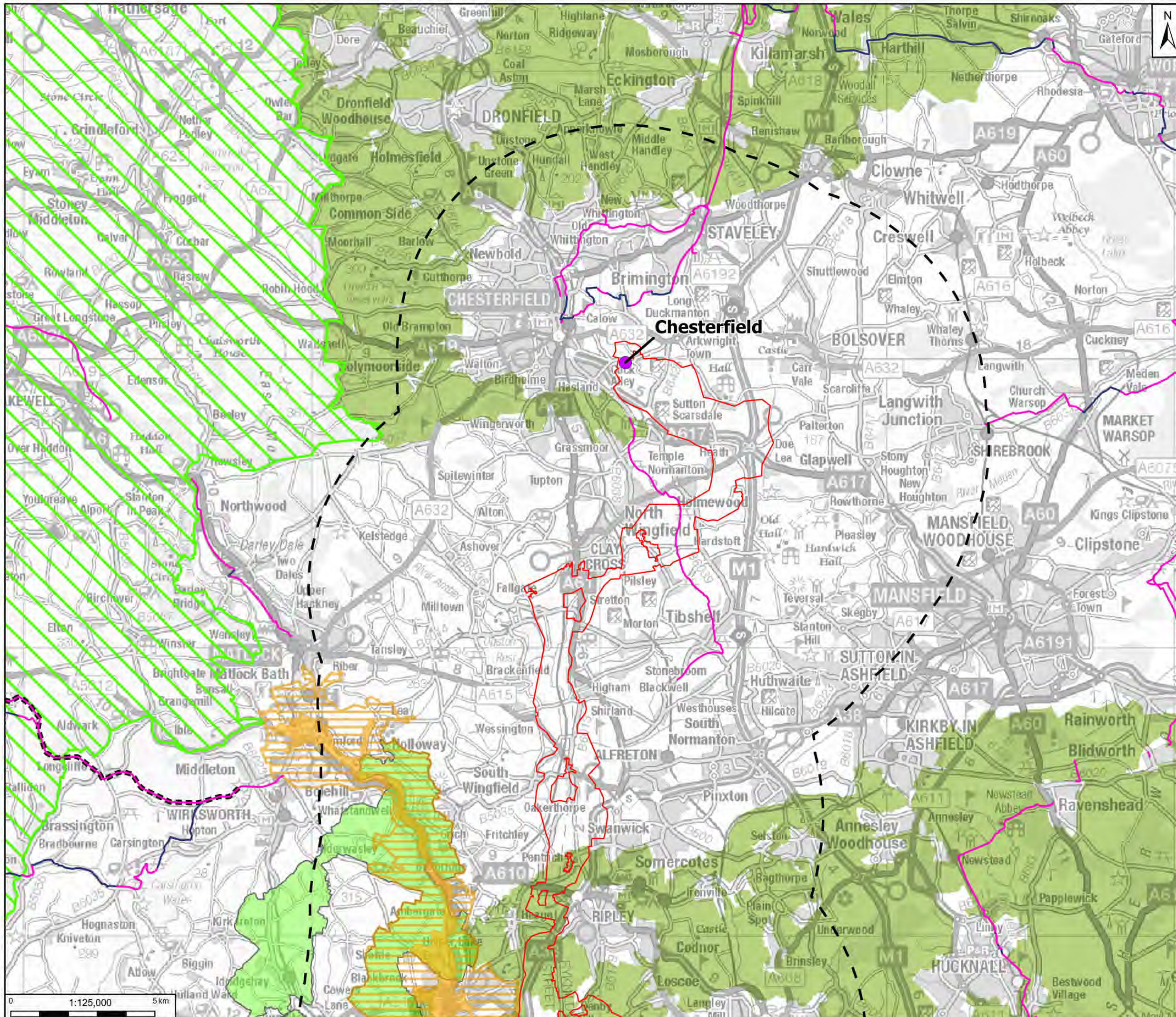
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Title: **Landscape and Visual Figure 6.1 Provisional Landscape and Visual Impact Assessment (LVIA) Study Area**

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Legend

- Scoping Boundary
- Provisional LVIA Study Area - 7.5km
- Existing Substation
- Pennine Bridleway National Trail
- National Cycle Route
 - Traffic Free
 - On Road
- Peak District National Park
- Amber Valley Special Landscape Area
- Green Belt
- Derwent Valley Mills World Heritage Site
 - Core Area
 - Buffer Zone

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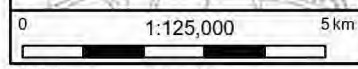
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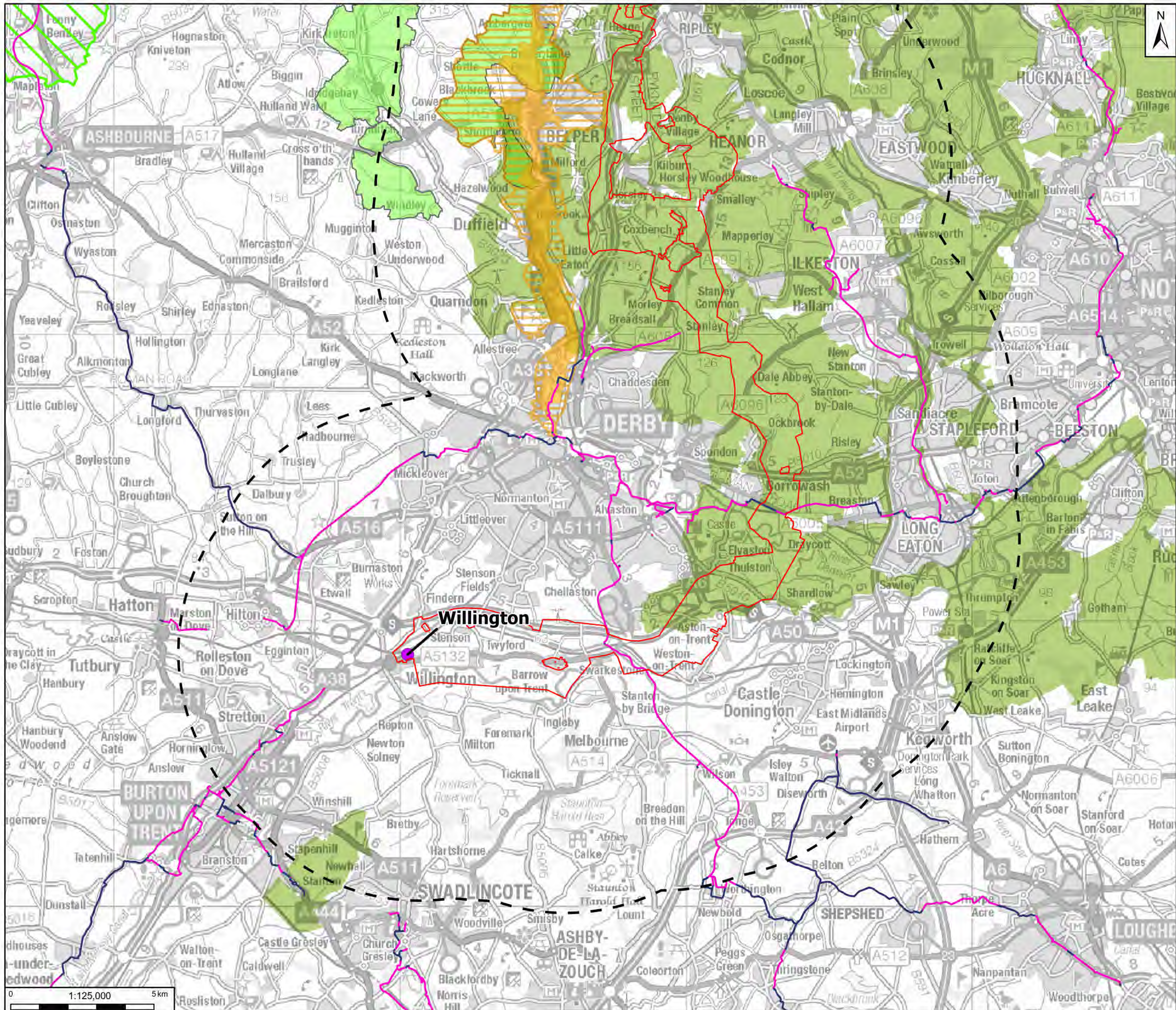
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Legend

- Scoping Boundary
- Provisional LVIA Study Area - 7.5km
- Existing Substation
- National Cycle Route
 - Traffic Free
 - On Road
- Peak District National Park
- Amber Valley Special Landscape Area
- Green Belt
- Derwent Valley Mills World Heritage Site
 - Core Area
 - Buffer Zone

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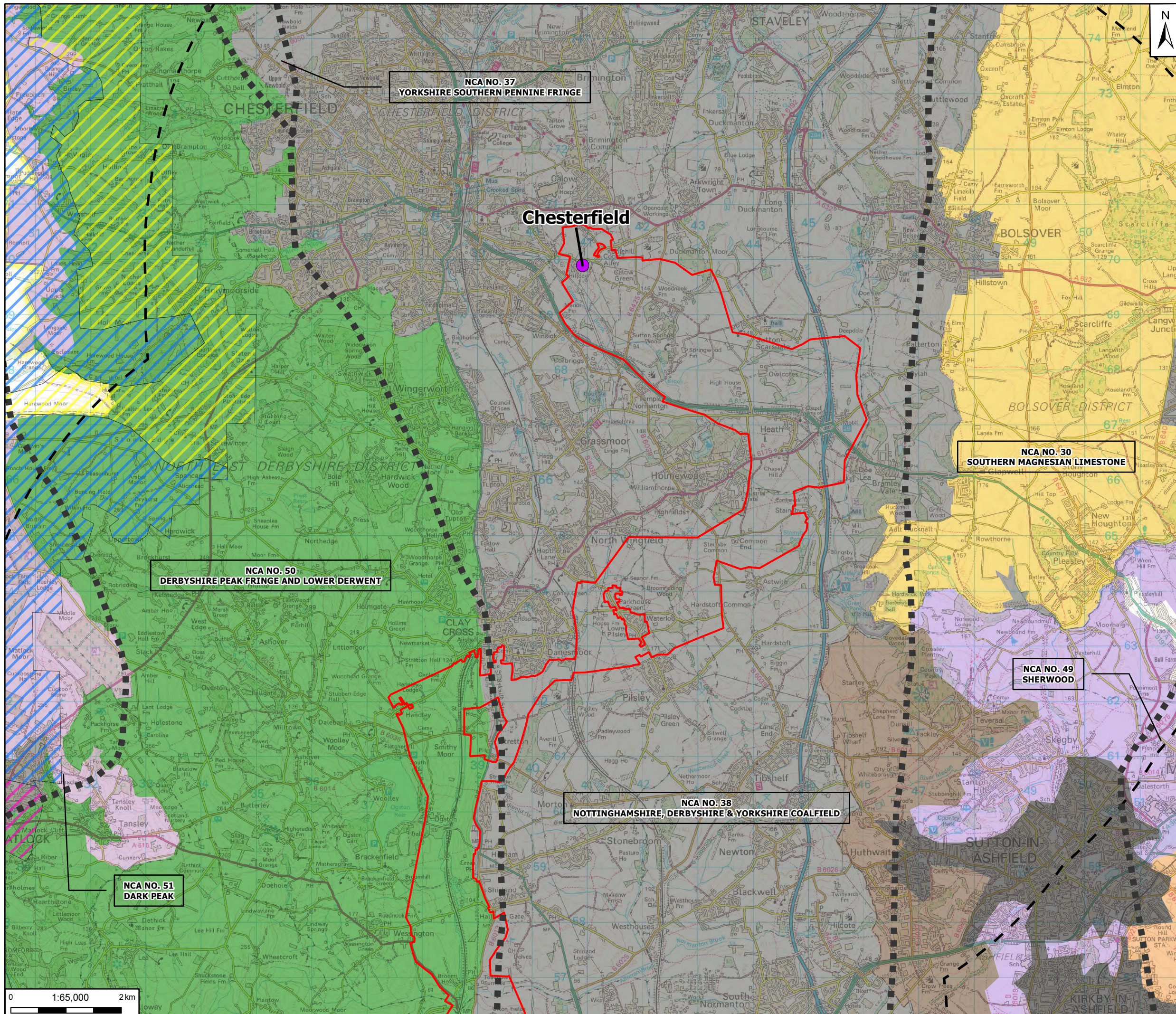
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Title: **Landscape and Visual Figure 6.3 Landscape Designations and Features (South)**

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Legend

- Scoping Boundary
- Provisional LVIA Study Area - 7.5km
- Existing Substation
- National Character Areas (NCA)

Peak District National Park Landscape Strategy and Action Plan 2009-2019 - Character Types

- Derbyshire Peak Fringe
- Derwent Valley
- Eastern Moors
- White Peak

The Landscape Character Area of Derbyshire

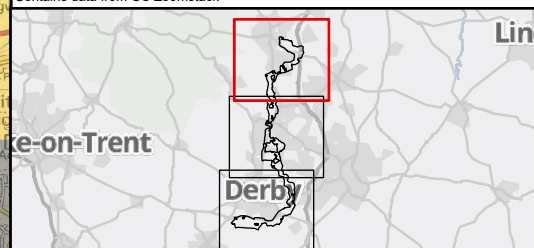
- Dark Peak
- Derbyshire Peak Fringe and Lower Derwent
- Nottinghamshire, Derbyshire and Yorkshire Coalfield
- Southern Magnesian Limestone

Nottinghamshire Landscape Guidelines: Character Areas

- Magnesian Limestone Ridge
- Main Urban Areas
- Nottinghamshire Coalfield
- Sherwood Region

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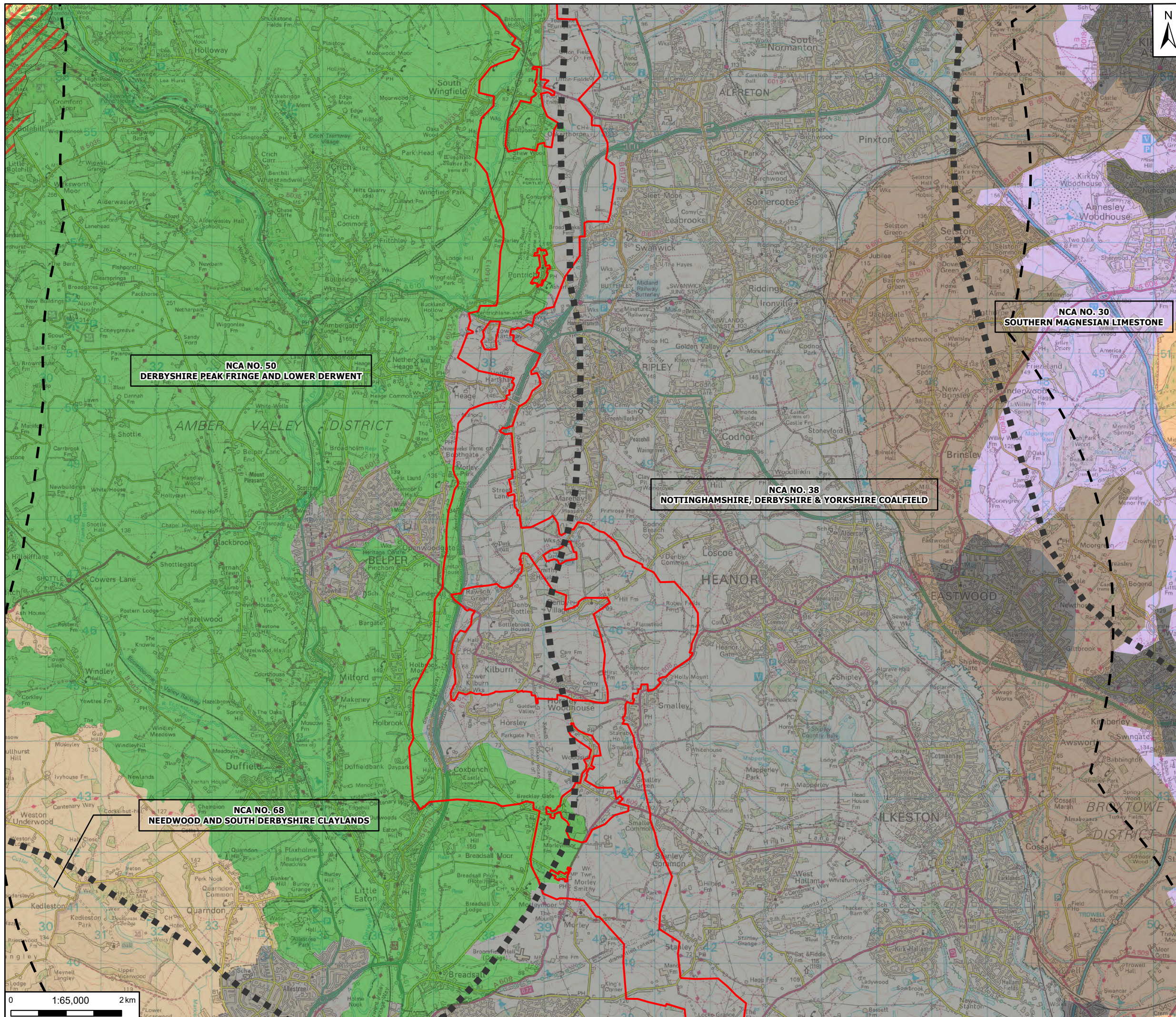
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Title: **Landscape and Visual Figure 6.4 Landscape Character (North)**

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Legend

- Scoping Boundary
- Provisional LVIA Study Area - 7.5km
- Existing Substation
- National Character Areas (NCA)

Peak District National Park Landscape Strategy and Action Plan 2009-2019 - Character Types

- White Peak

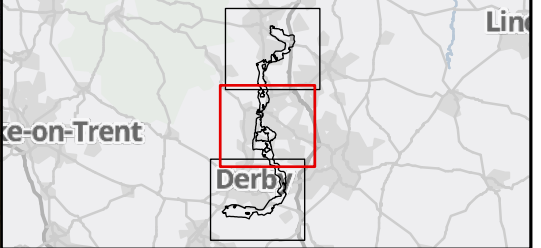
The Landscape Character Area of Derbyshire

- Derbyshire Peak Fringe and Lower Derwent
- Needwood and South Derbyshire Claylands
- Nottinghamshire, Derbyshire and Yorkshire Coalfield
- White Peak

Nottinghamshire Landscape Guidelines: Character Areas

- Magnesian Limestone Ridge
- Main Urban Areas
- Nottinghamshire Coalfield
- Sherwood Region

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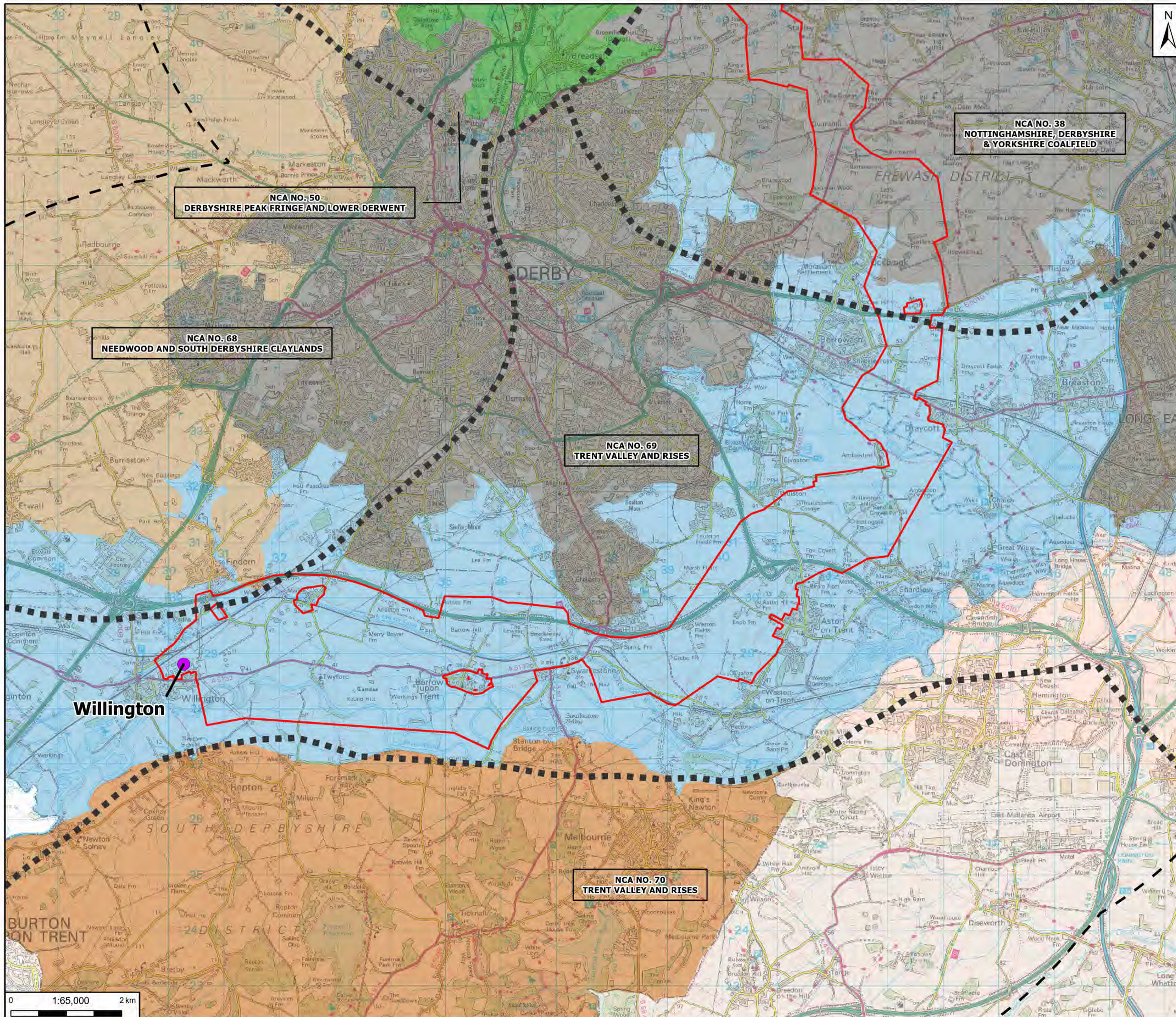
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Title: **Landscape and Visual Figure 6.5 Landscape Character (Central)**

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**NCA NO. 50
DERBYSHIRE PEAK FRINGE AND LOWER DERWENT**

**NCA NO. 68
NEEDWOOD AND SOUTH DERBYSHIRE CLAYLANDS**

**NCA NO. 69
TRENT VALLEY AND RISES**

**NCA NO. 38
NOTTINGHAMSHIRE, DERBYSHIRE
& YORKSHIRE COALFIELD**

**NCA NO. 70
TRENT VALLEY AND RISES**

- Legend**
- Scoping Boundary
 - Provisional LVIA Study Area - 7.5km
 - Existing Substation
 - National Character Areas (NCA)
- The Landscape Character Area of Derbyshire**
- Derbyshire Peak Fringe and Lower Derwent
 - Leicestershire and South Derbyshire Coalfield
 - Melbourn Parklands
 - Needwood and South Derbyshire Claylands
 - Nottinghamshire, Derbyshire and Yorkshire Coalfield
 - Trent Valley Washlands
- Nottinghamshire Landscape Guidelines: Character Areas**
- Main Urban Areas
 - Nottinghamshire Coalfield
- Leicester, Leicestershire, & Rutland Landscape and Woodland Strategy: Character Areas**
- Langley Lowlands
 - Trent Valley

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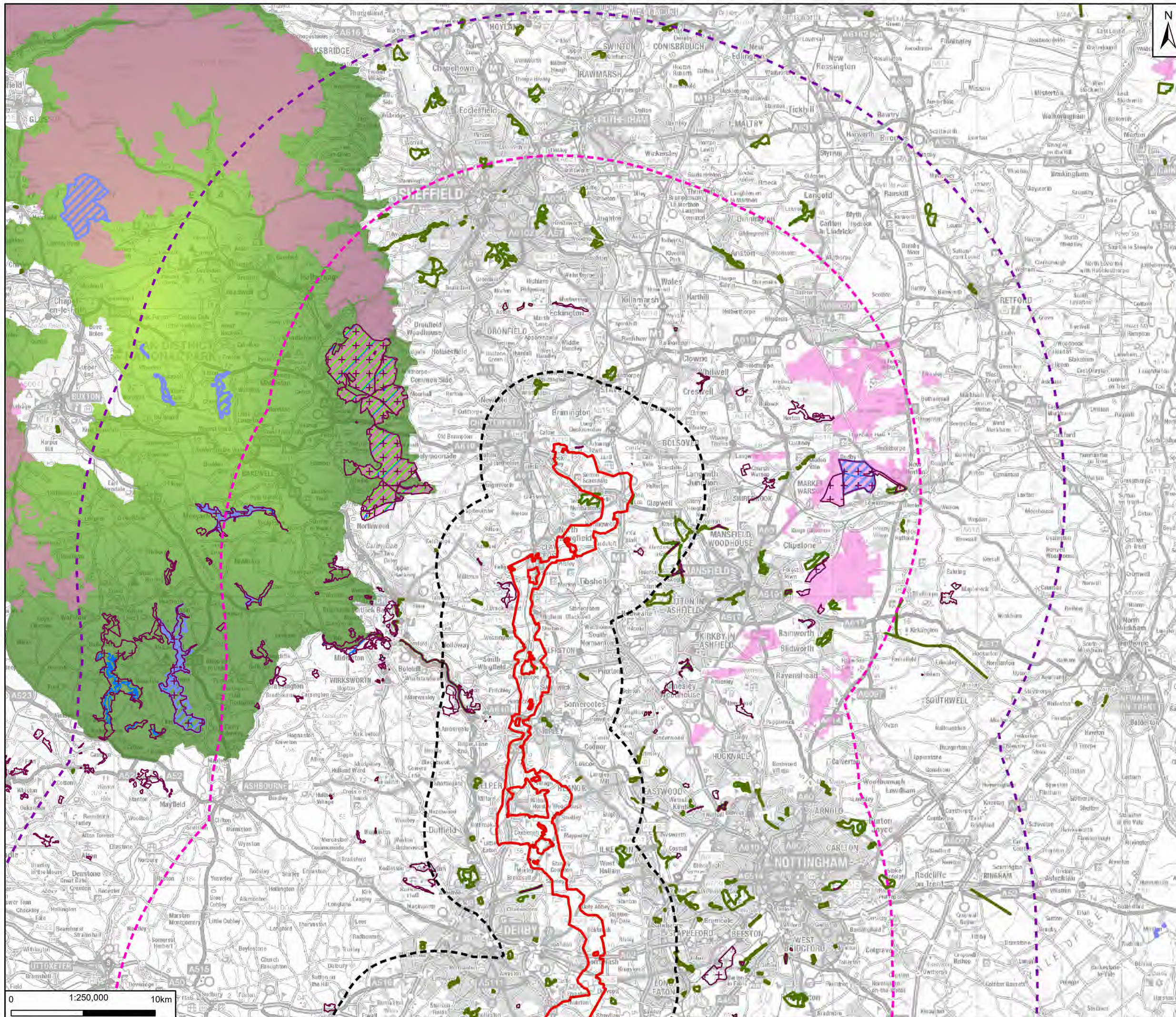
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7. Ecology and Biodiversity

Figure 7.1 to Figure 7.3

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Legend

- Scoping Boundary
- 5km Study Area
- 20km Study Area
- 30 km Study Area
- Important Bird Area (IBA)
- Statutory Designated Sites
- Sites of Special Scientific Interest (SSSI)
- Special Protection Area (SPA)
- Special Area of Conservation (SAC)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)
- National Parks (NP)

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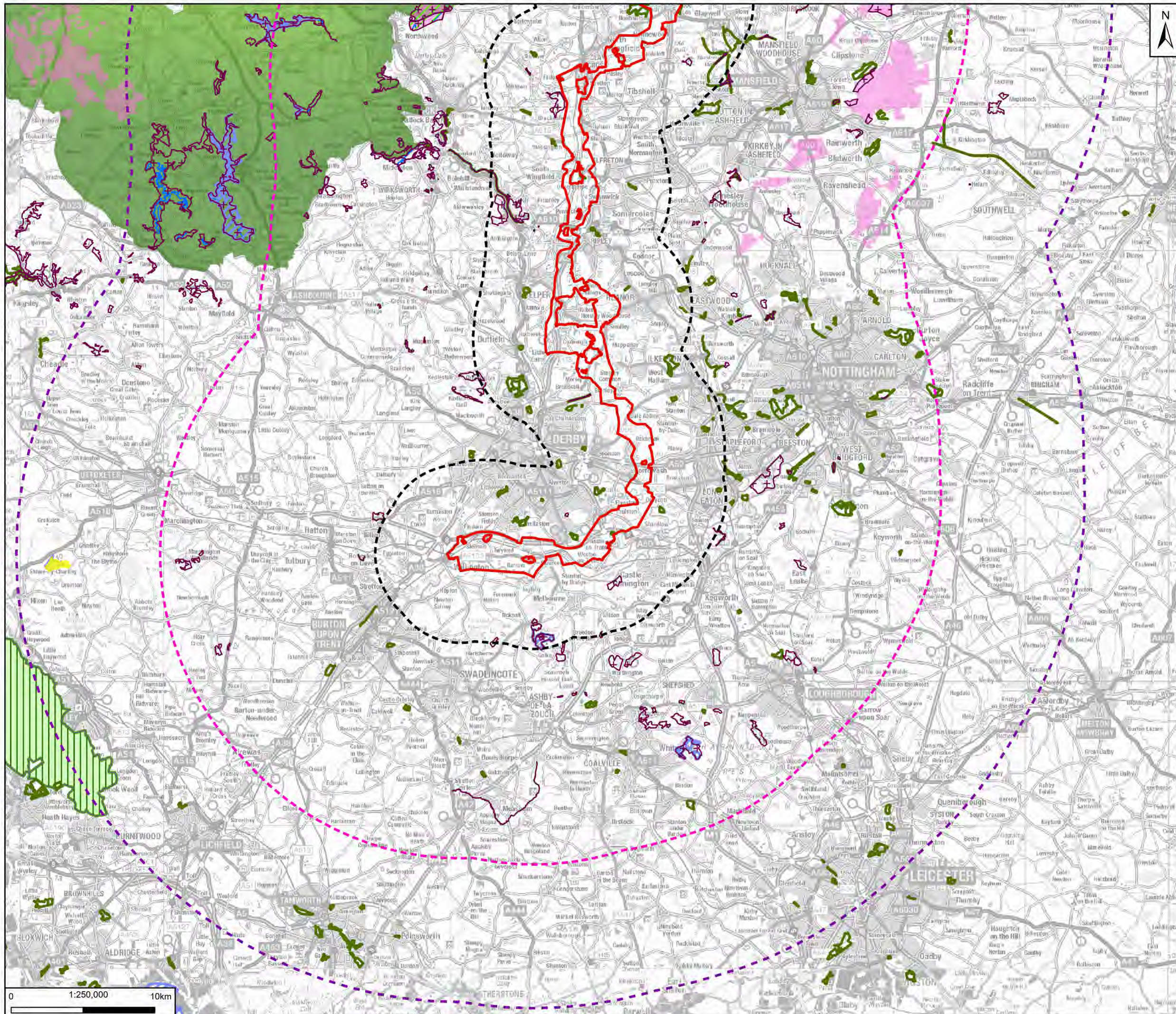
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Title: Ecology and Biodiversity
Figure 7.1
Sites Designated for Biodiversity
Page 1 of 2

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Legend

- [Red Outline] Scoping Boundary
- [Blue Outline] Special Area of Conservation (SAC)
- [Black Dashed] 5km Study Area
- [Green Dotted] Areas of Outstanding Natural Beauty (AONB)
- [Pink Dotted] 20km Study Area
- [Blue Hatched] National Nature Reserve (NNR)
- [Purple Dotted] 30 km Study Area
- [Pink Solid] Important Bird Area (IBA)
- [Green Hatched] Local Nature Reserve (LNR)
- [Red Outline] Statutory Designated Sites
- [Yellow Solid] Ramsar Sites
- [Red Outline] Sites of Special Scientific Interest (SSSI)
- [Green Solid] National Parks (NP)
- [Green Outline] Special Protection Area (SPA)

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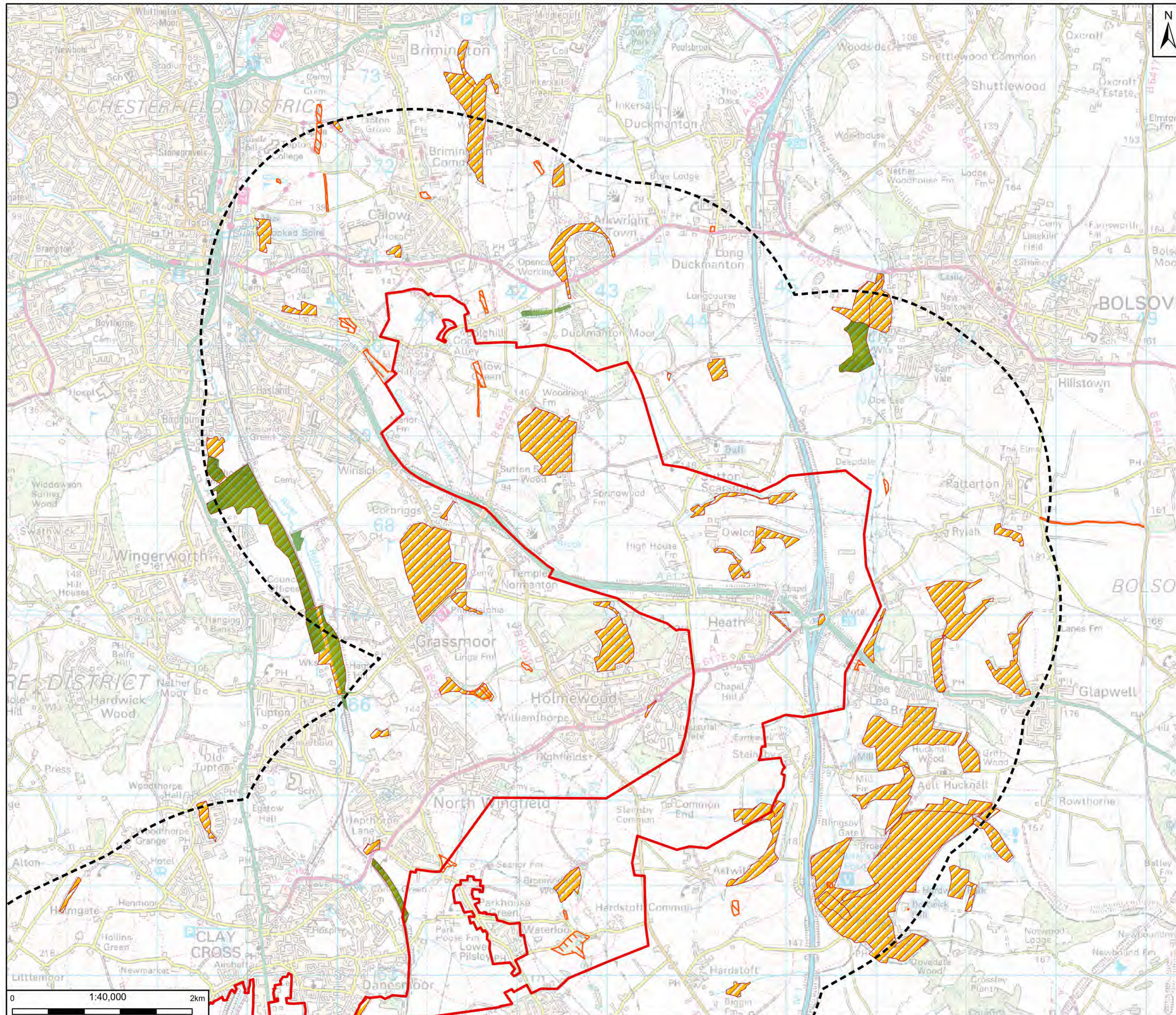
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Figure 7.1
Sites Designated for Biodiversity
Page 2 of 2

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Legend

- Scoping Boundary
- 2km Study Area
- Non-Statutory Designated Sites**
 - Local Wildlife Sites (LWS)
 - Potential Local Wildlife Site (PLWS)
 - Derby Wildlife Trust Reserves
 - Regionally Important Geological and Geomorphologic Site (RIGS)

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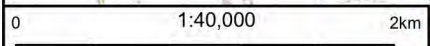
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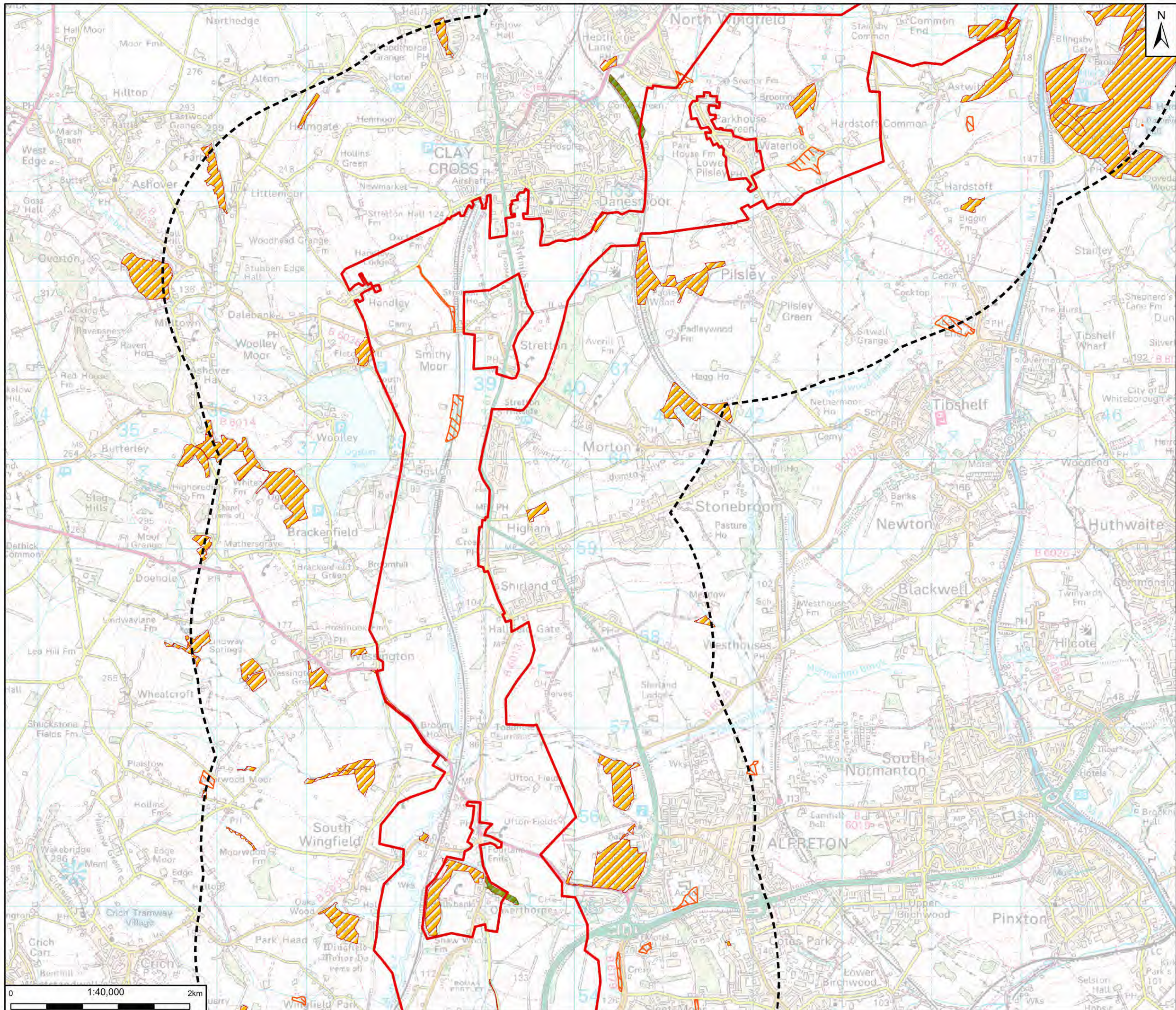
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Legend

- Scoping Boundary
- 2km Study Area
- Non-Statutory Designated Sites**
 - Local Wildlife Sites (LWS)
 - Potential Local Wildlife Site (PLWS)
 - Derby Wildlife Trust Reserves
 - Regionally Important Geological and Geomorphologic Site (RIGS)

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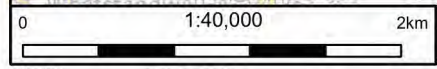
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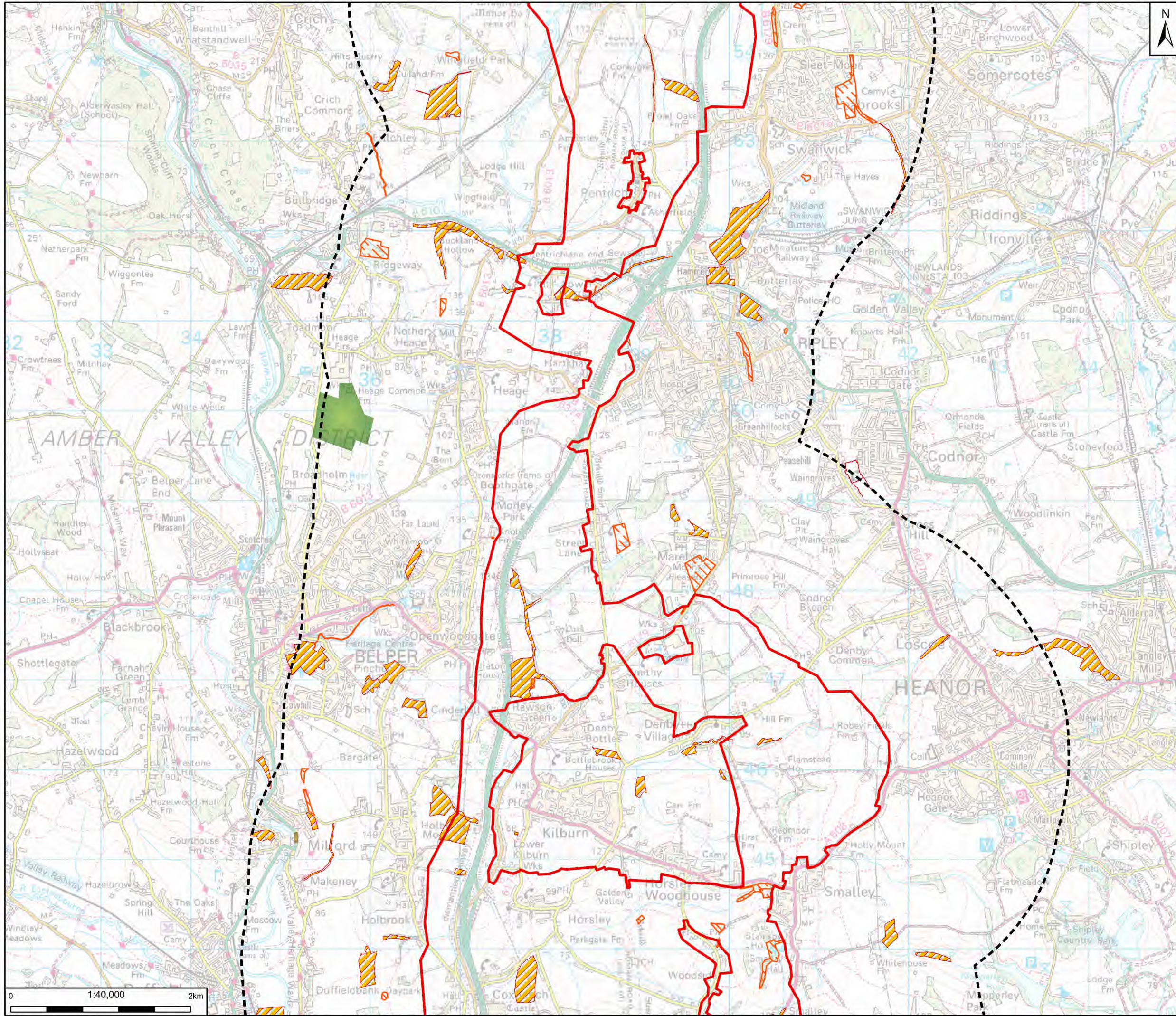
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Suitability Code:	S2	Project Number:	30199581

Suitability Description: **For Information**

Drawing Number: **30199581-ARC-EGN-ZZ-DR-ZZ-00045-S2** Revision: **P01**





Legend

- Scoping Boundary
- 2km Study Area
- Non-Statutory Designated Sites**
 - Local Wildlife Sites (LWS)
 - Potential Local Wildlife Site (PLWS)
 - Derby Wildlife Trust Reserves
 - Regionally Important Geological and Geomorphologic Site (RIGS)

Notes:
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Client:

nationalgrid PROJECT: **CHESTERFIELD TO WILLINGTON**

Site: **CCWE** Client: **113 Strain, London, WC2N 5EH**

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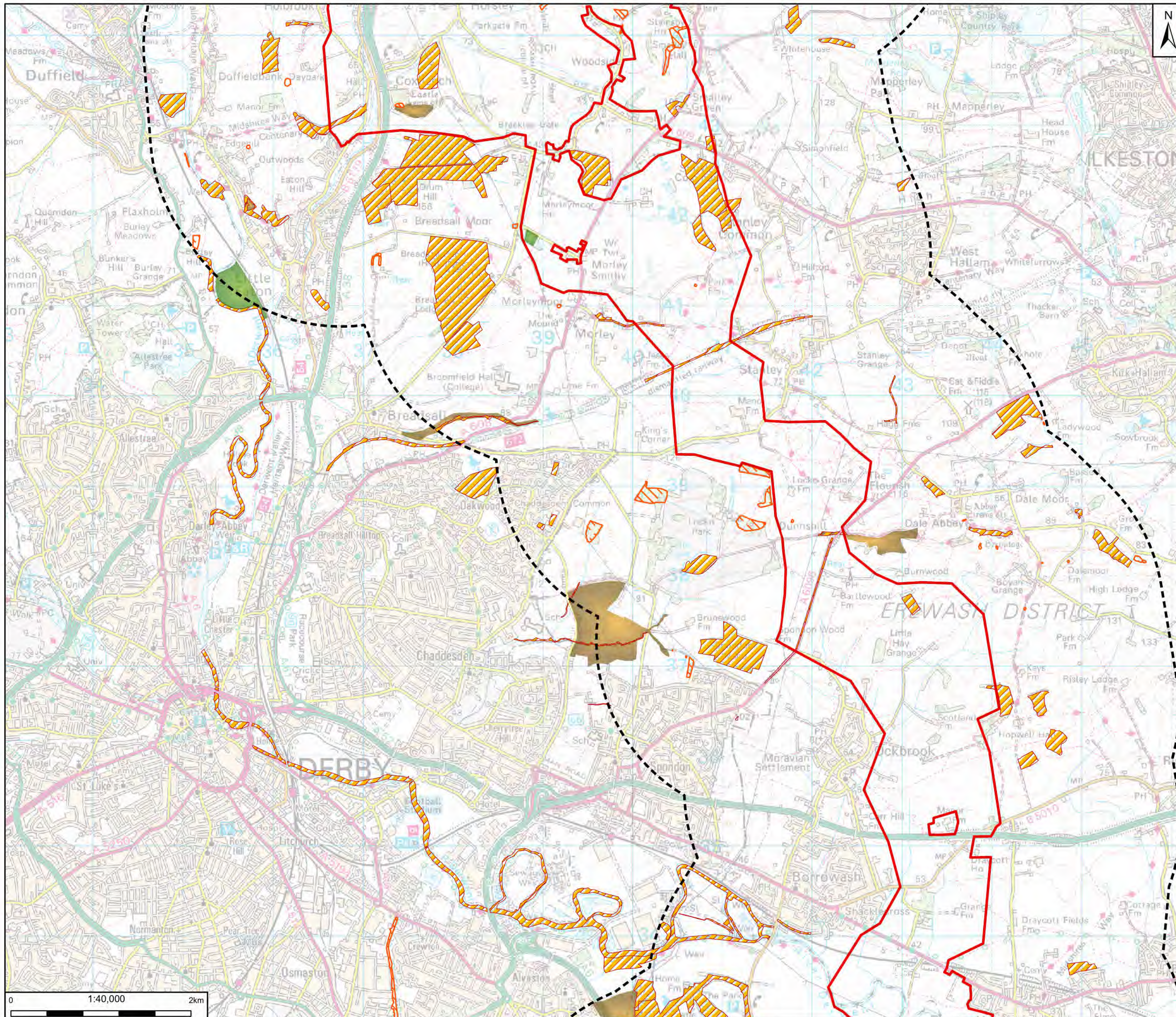
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Title: **Ecology and Biodiversity- Figure 7.2 Non-Statutory Sites Designated for Biodiversity Page 3 of 7**

Designed	26 Sep 24	
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Checked	26 Sep 24	
Approved	26 Sep 24	
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Suitability Code:	S2	Project Number: 30199581

Suitability Description: **For Information**

Drawing Number: 30199581-ARC-EGN-ZZ-DR-ZZ-00045-S2
Revision: P01



Legend

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Client:

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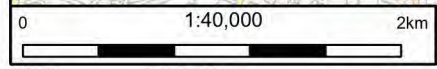
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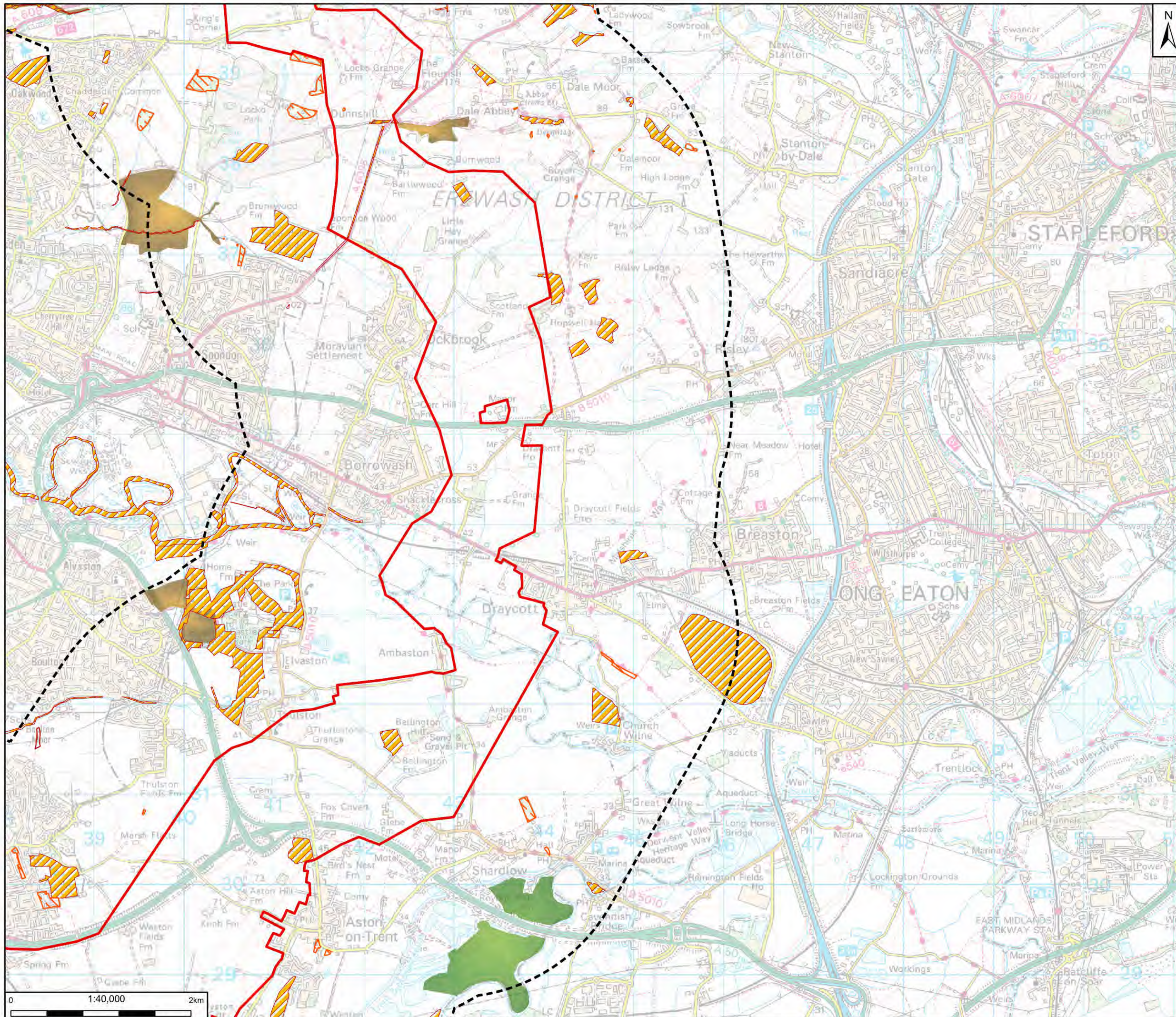
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Suitability Description: **For Information**

Drawing Number: **30199581-ARC-EGN-ZZ-DR-ZZ-00045-S2** Revision: **P01**





- Legend**
- Scoping Boundary
 - 2km Study Area
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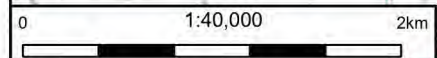
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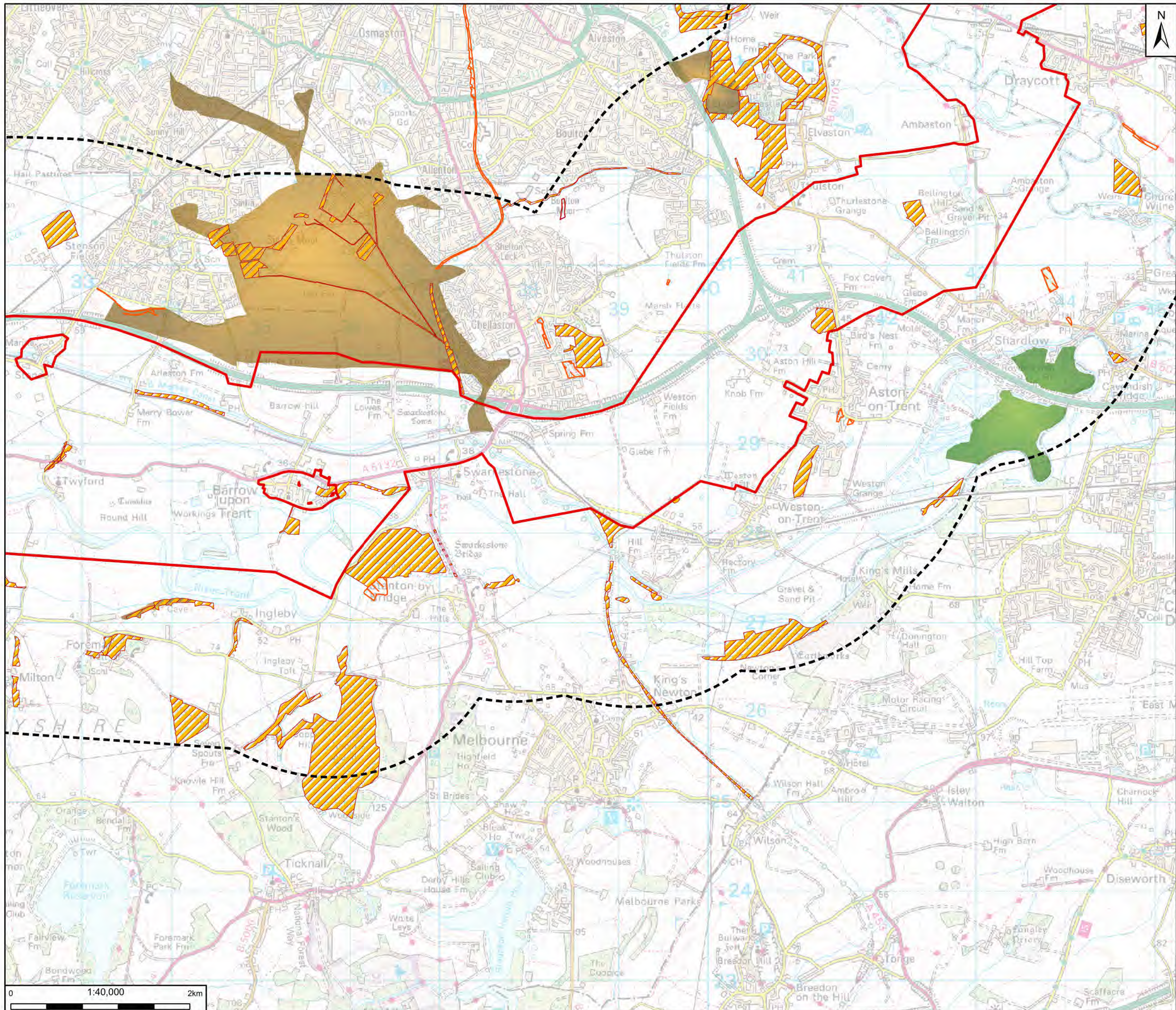
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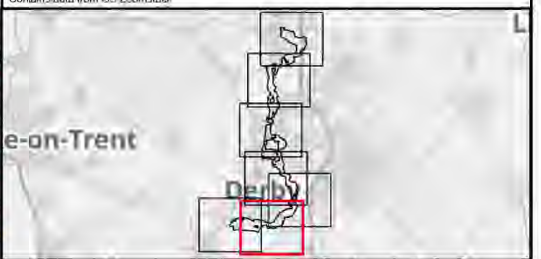




Legend

- Scoping Boundary
- 2km Study Area
- Non-Statutory Designated Sites**
 - Local Wildlife Sites (LWS)
 - Potential Local Wildlife Site (PLWS)
 - Derby Wildlife Trust Reserves
 - Regionally Important Geological and Geomorphologic Site (RIGS)

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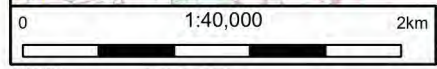
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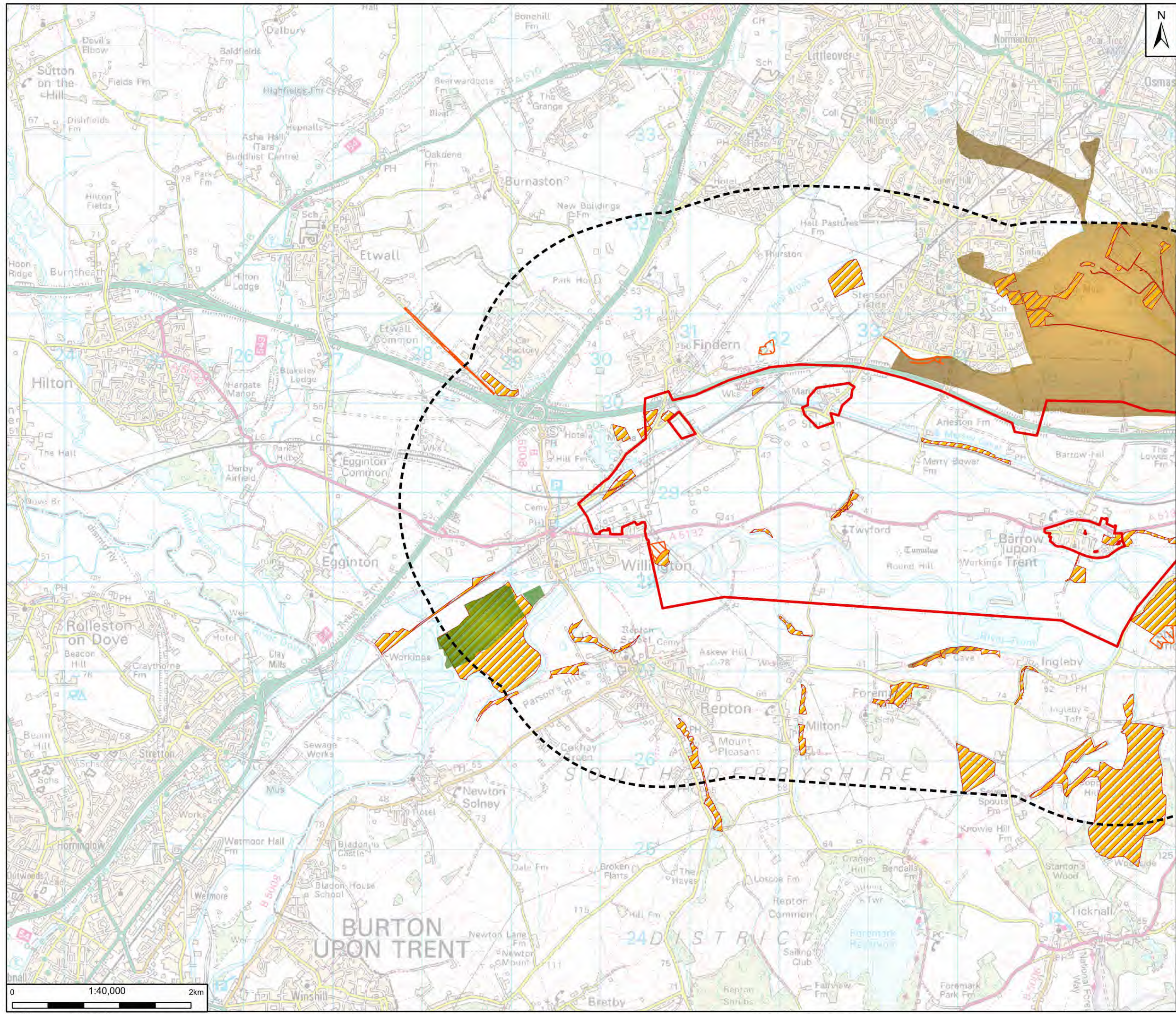
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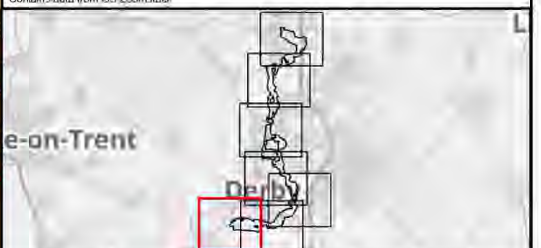




Legend

- Scoping Boundary
- 2km Study Area
- Non-Statutory Designated Sites**
 - Local Wildlife Sites (LWS)
 - Potential Local Wildlife Site (PLWS)
 - Derby Wildlife Trust Reserves
 - Regionally Important Geological and Geomorphologic Site (RIGS)

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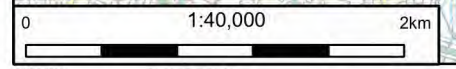
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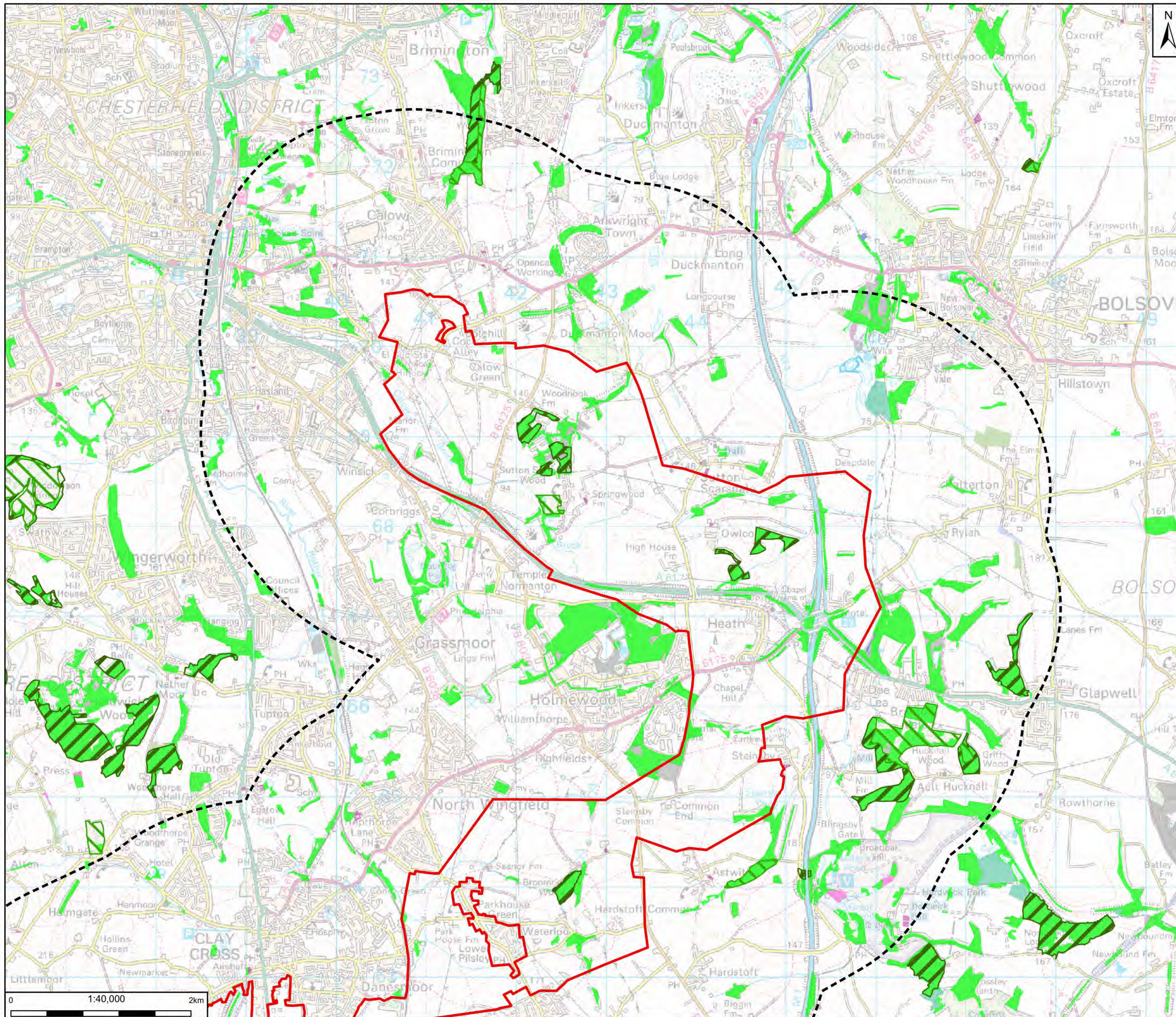
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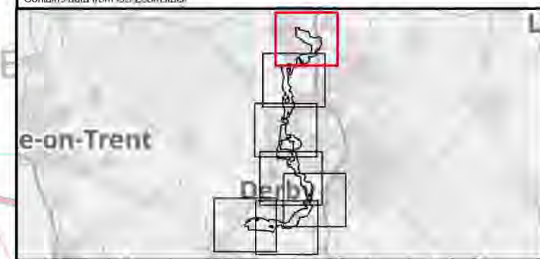
Legend

- Scoping Boundary
- 2km Study Area
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

Priority Habitats

- Coastal and Floodplain Grazing Marsh
- Deciduous Woodland
- Good Quality Semi Improved Grassland
- Lowland Calcareous Grassland
- Lowland Dry Acid Grassland
- Lowland Fens
- Lowland Meadows
- No Main Habitat But Additional Habitats Present
- Reedbeds
- Traditional Orchard

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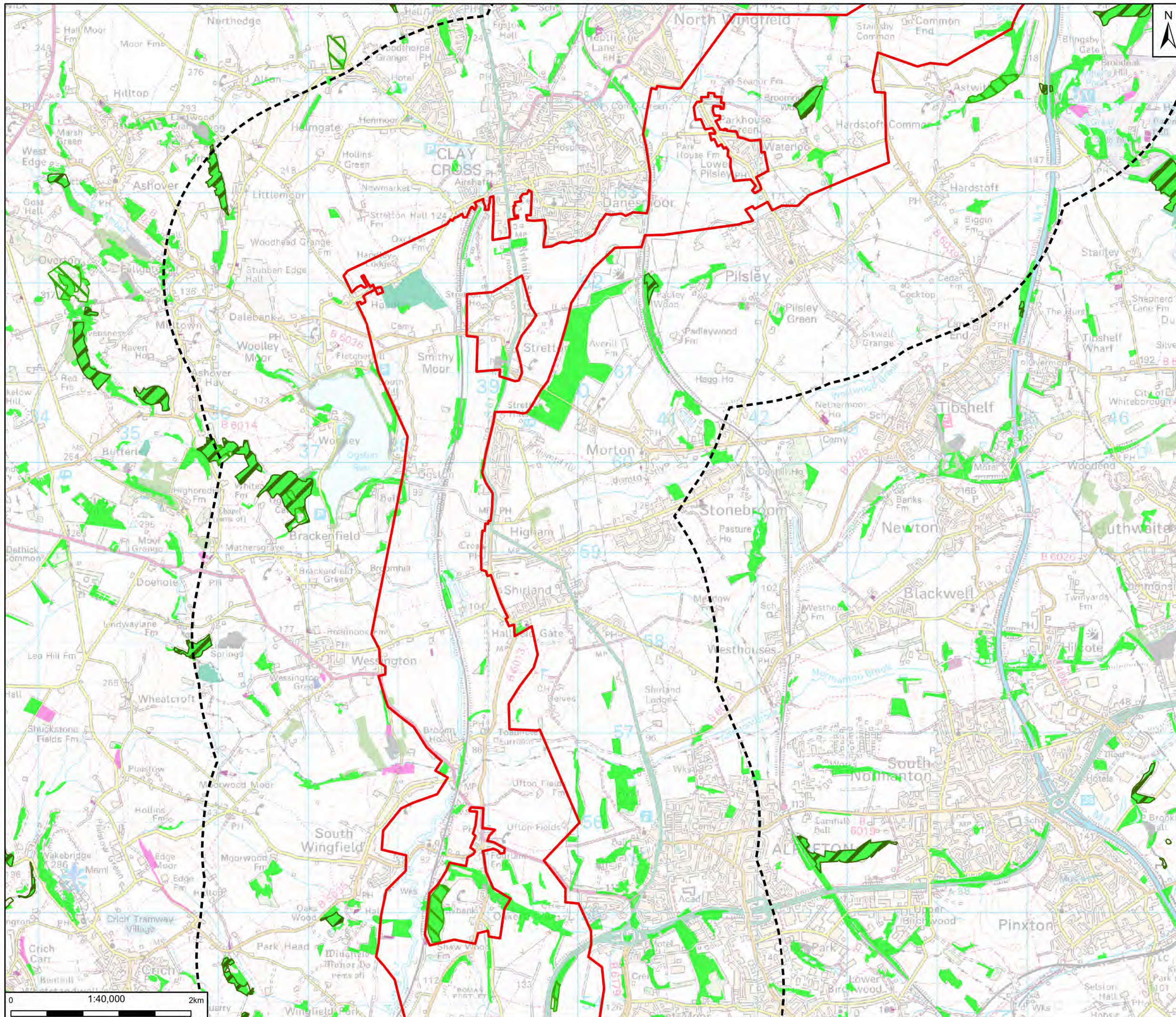
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Title: Ecology and Biodiversity
Figure 7.3
Priority Habitats and Ancient Woodland
Page 1 of 7

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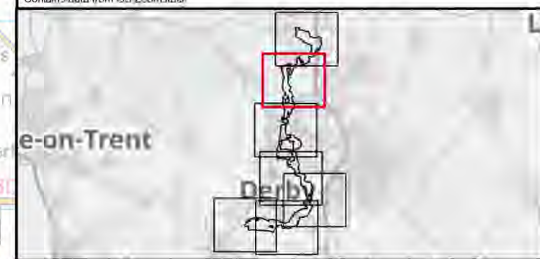
Legend

- Scoping Boundary
- 2km Study Area
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

Priority Habitats

- Deciduous Woodland
- Good Quality Semi Improved Grassland
- Lowland Calcareous Grassland
- Lowland Dry Acid Grassland
- Lowland Fens
- Lowland Heathland
- Lowland Meadows
- No Main Habitat But Additional Habitats Present
- Purple Moor Grass and Rush Pastures
- Traditional Orchard

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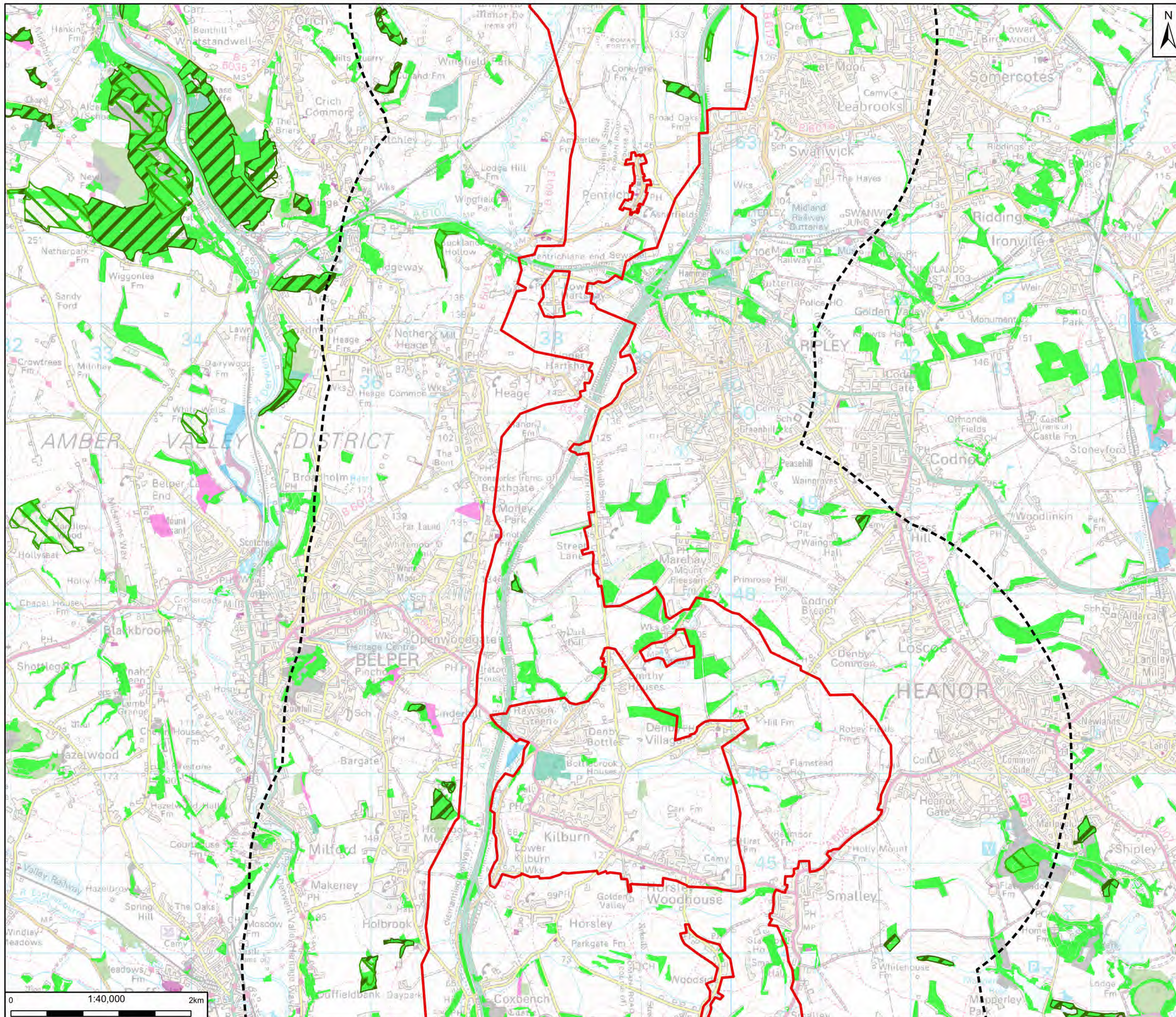
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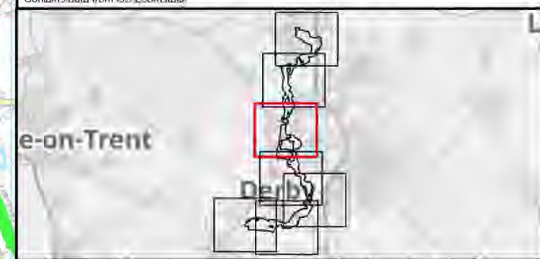
Legend

- Scoping Boundary
- 2km Study Area
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

Priority Habitats

- Coastal and Floodplain Grazing Marsh
- Deciduous Woodland
- Good Quality Semi Improved Grassland
- Lowland Dry Acid Grassland
- Lowland Fens
- Lowland Heathland
- Lowland Meadows
- No Main Habitat But Additional Habitats Present
- Traditional Orchard

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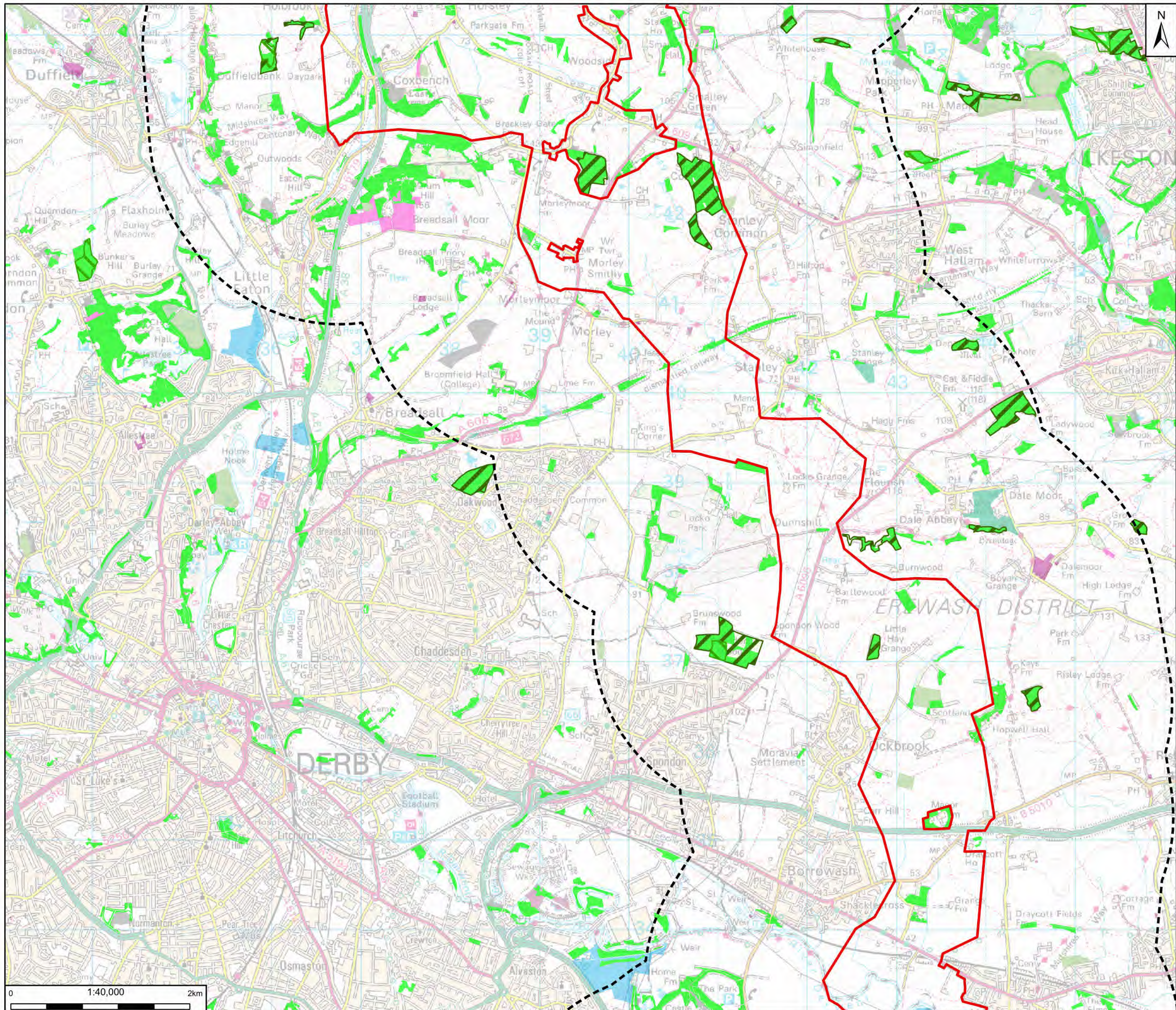
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Title: Ecology and Biodiversity Figure 7.3 Priority Habitats and Ancient Woodland Page 3 of 7

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Drawing Number:	30199581-ARC-EGN-ZZ-DR-ZZ-00046-S2	Revision:	P01



Legend

- Scoping Boundary
- 2km Study Area
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

Priority Habitats

- Coastal and Floodplain Grazing Marsh
- Deciduous Woodland
- Good Quality Semi Improved Grassland
- Lowland Dry Acid Grassland
- Lowland Fens
- Lowland Heathland
- Lowland Meadows
- No Main Habitat But Additional Habitats Present
- Traditional Orchard



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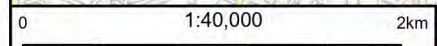
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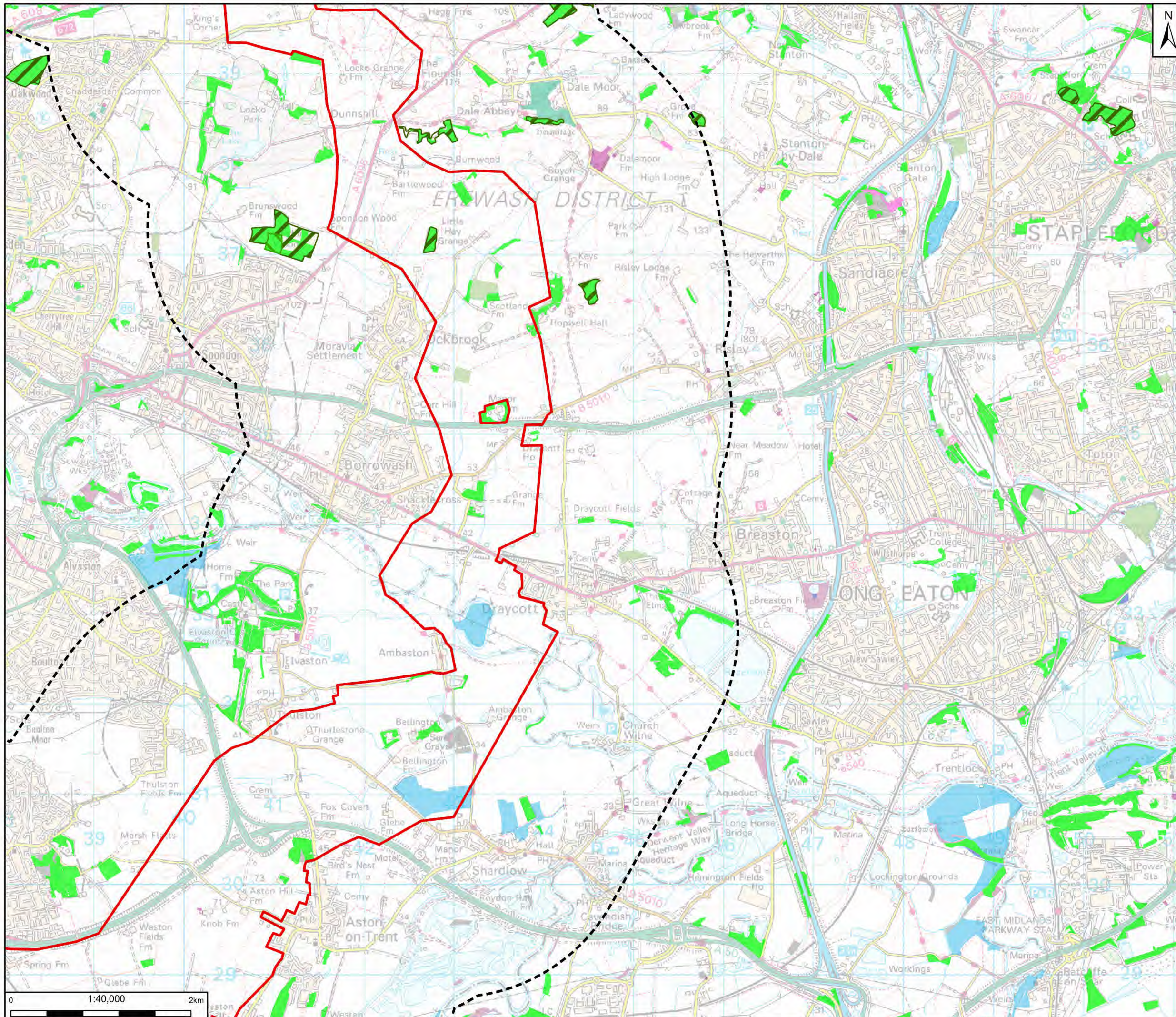
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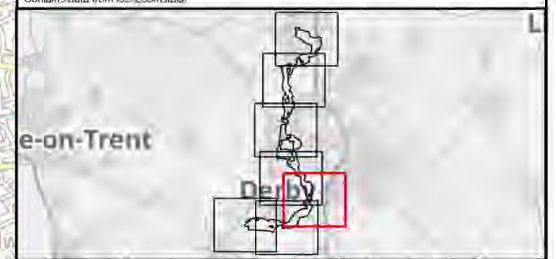
Legend

- Scoping Boundary
- 2km Study Area
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

Priority Habitats

- Coastal and Floodplain Grazing Marsh
- Deciduous Woodland
- Good Quality Semi Improved Grassland
- Lowland Dry Acid Grassland
- Lowland Fens
- Lowland Meadows
- No Main Habitat But Additional Habitats Present
- Reedbeds
- Traditional Orchard

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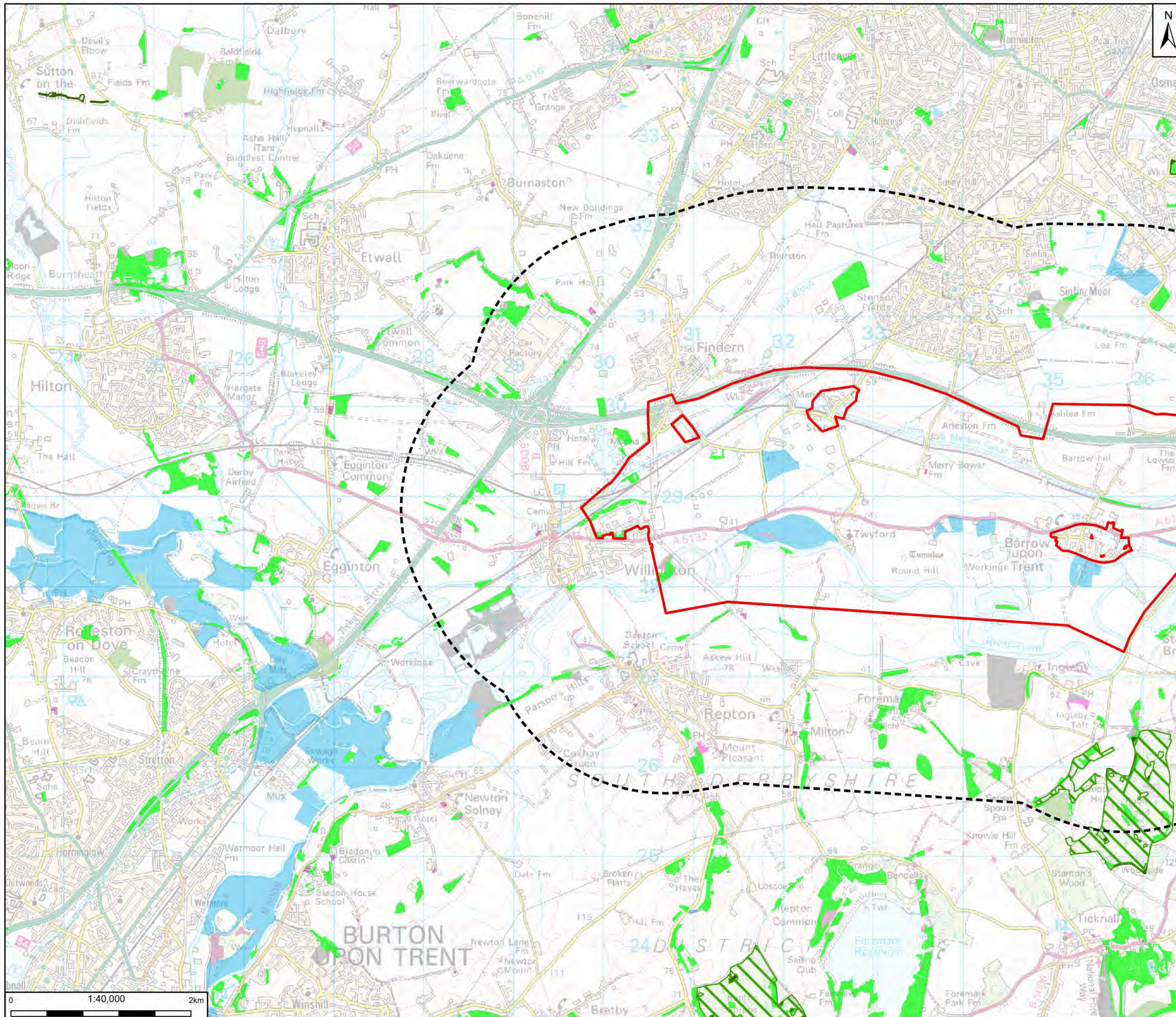
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Legend

- Scoping Boundary
- 2km Study Area
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland

Priority Habitats

- Coastal and Floodplain Grazing Marsh
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- Good Quality Semi Improved Grassland
- Lowland Calcareous Grassland
- Lowland Dry Acid Grassland
- Lowland Fens
- No Main Habitat But Additional Habitats Present
- Reedbeds
- Traditional Orchard

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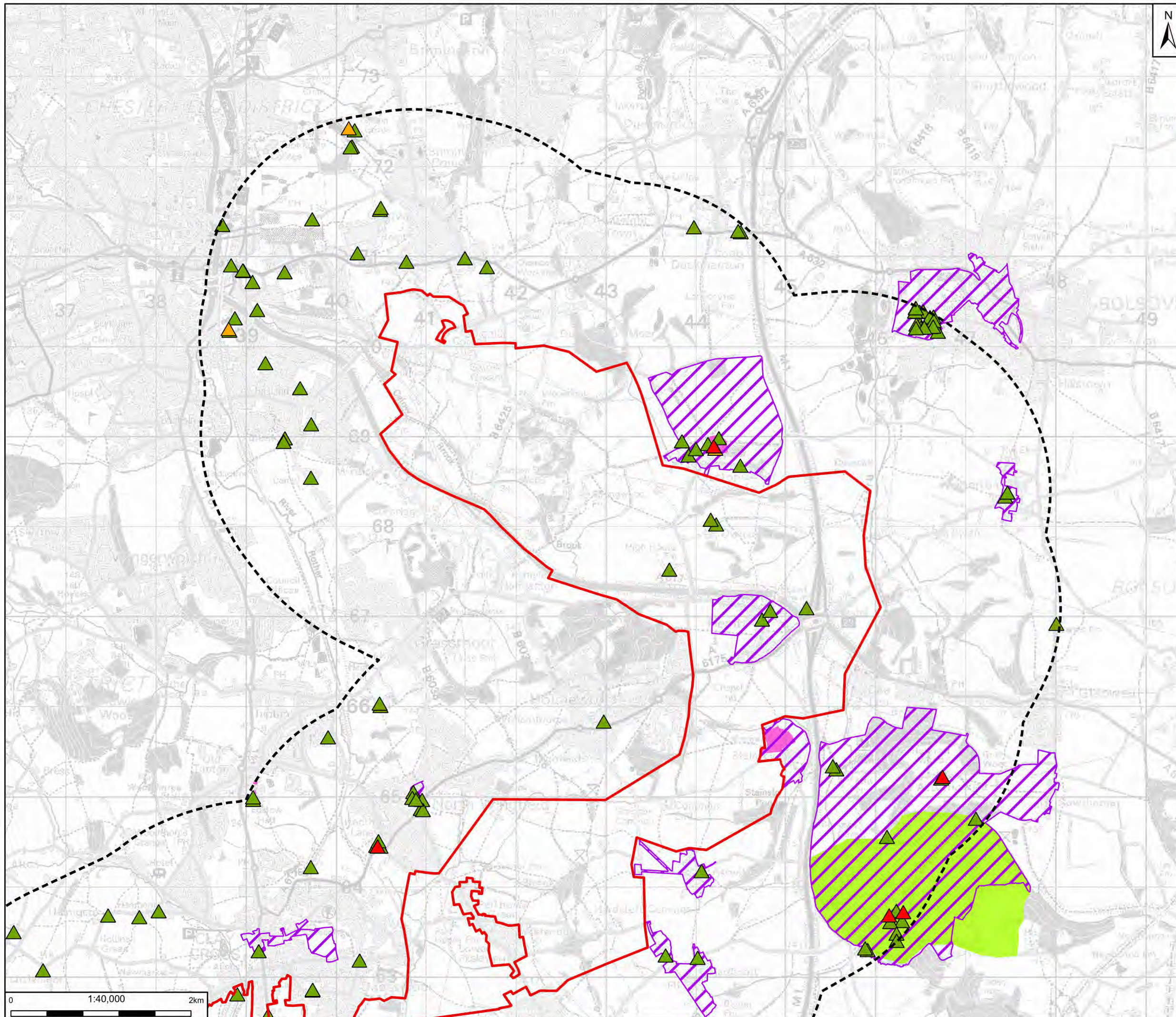
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Drawing Number:	30199581-ARC-EGN-ZZ-DR-ZZ-00046-S2		Revision: P01

8. Historic Environment

Figure 8.1 to Figure 8.2

nationalgrid



Legend

- Scoping Boundary
- 2km Study Area
- Listed Building
 - Grade I
- Conservation Area
- Registered Park and Garden
- Scheduled Monument

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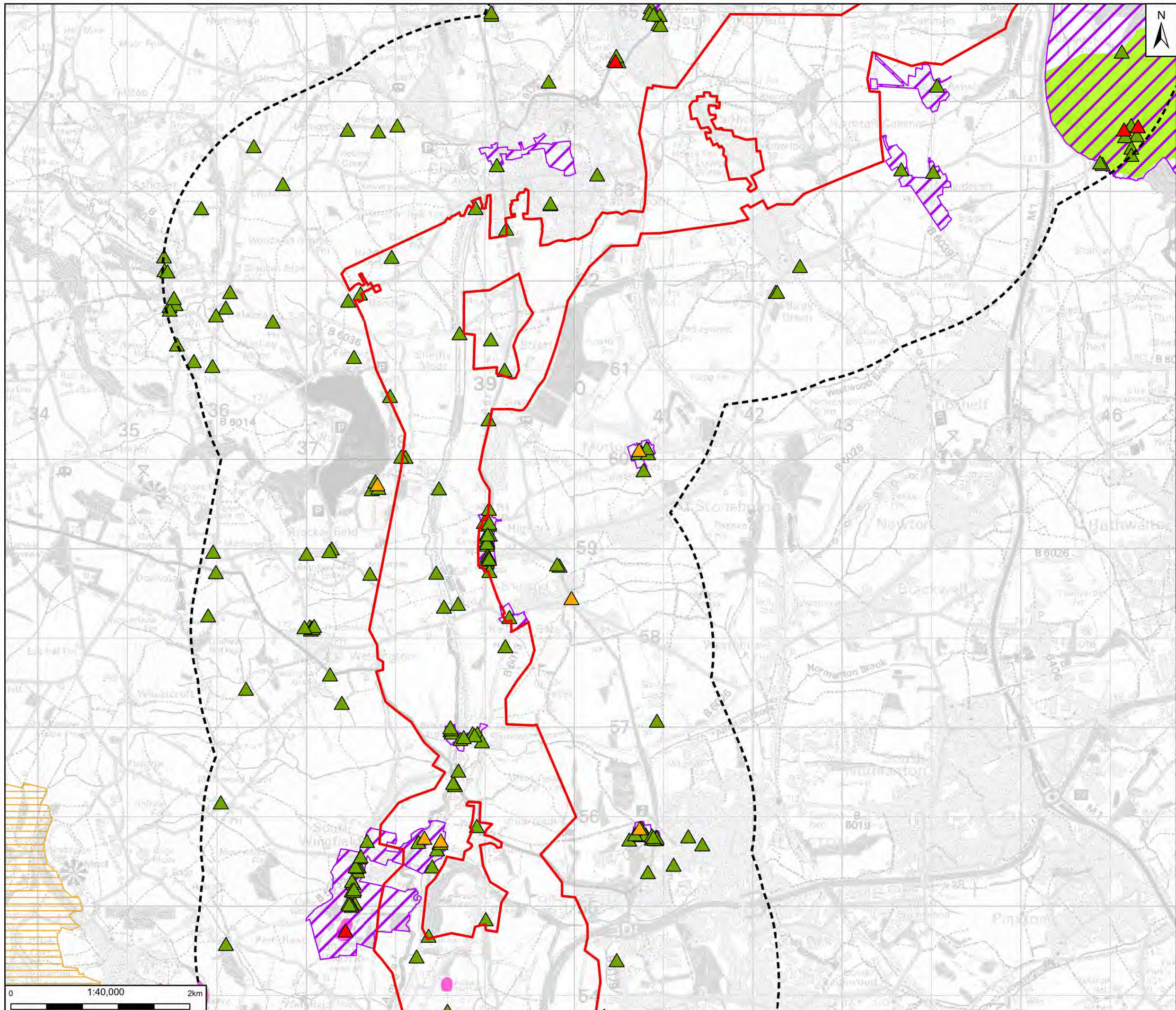
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Title: **Historic Environment Figure 8.1 Designated Heritage Assets Page 1 of 7**

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Legend

- Scoping Boundary
- 2km Study Area
- Listed Building
 - Grade I
 - Conservation Area
 - Registered Park and Garden
 - Scheduled Monument
 - Derwent Valley Mills World Heritage Site
 - Derwent Valley Mills World Heritage Site Buffer

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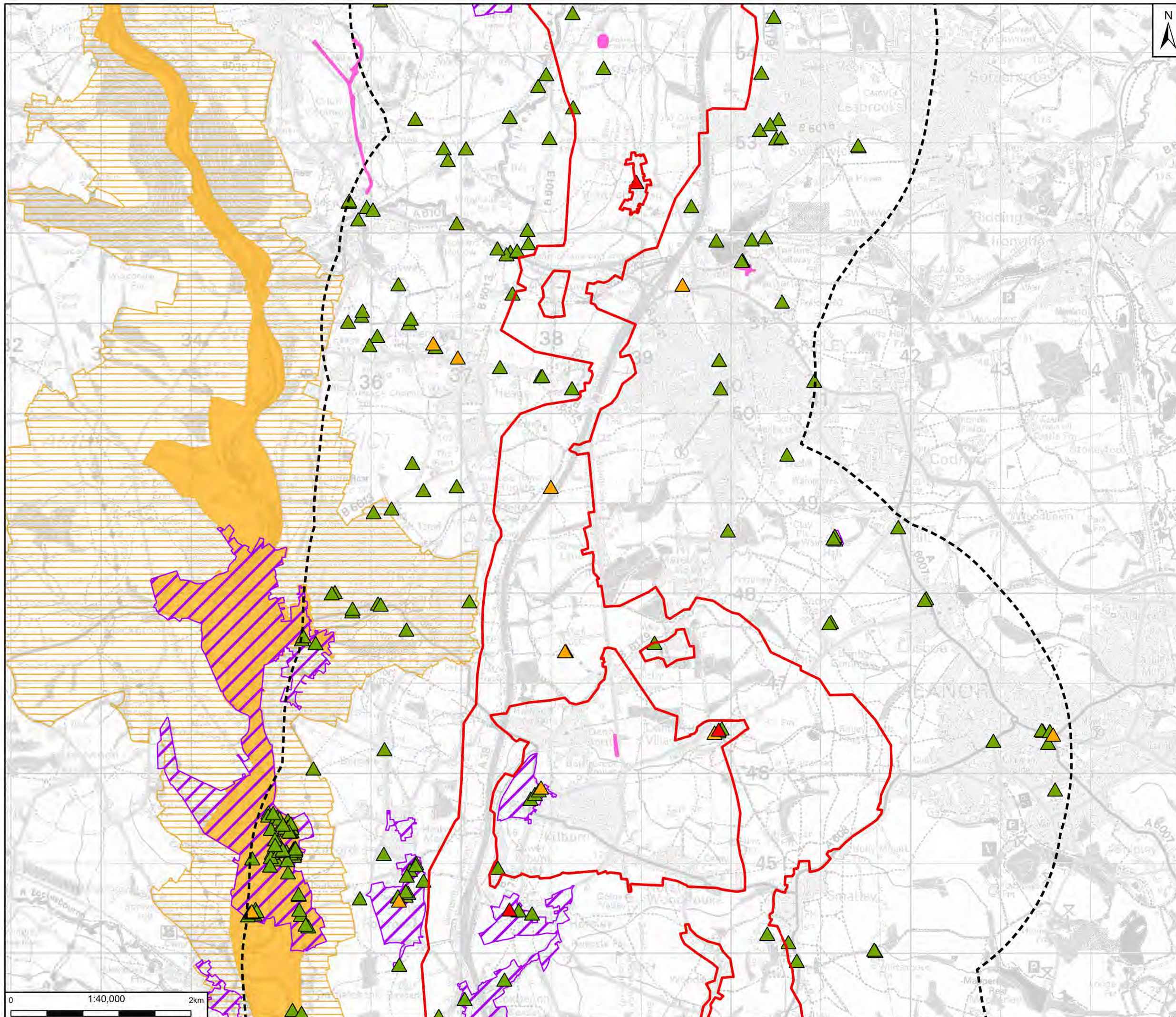
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**Historic Environment
Figure 8.1
Designated Heritage Assets
Page 2 of 7**

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- Legend**
- Scoping Boundary
 - 2km Study Area
 - Listed Building**
 - ▲ Grade I
 - Conservation Area
 - Scheduled Monument
 - Derwent Valley Mills World Heritage Site
 - Derwent Valley Mills World Heritage Site Buffer

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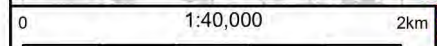
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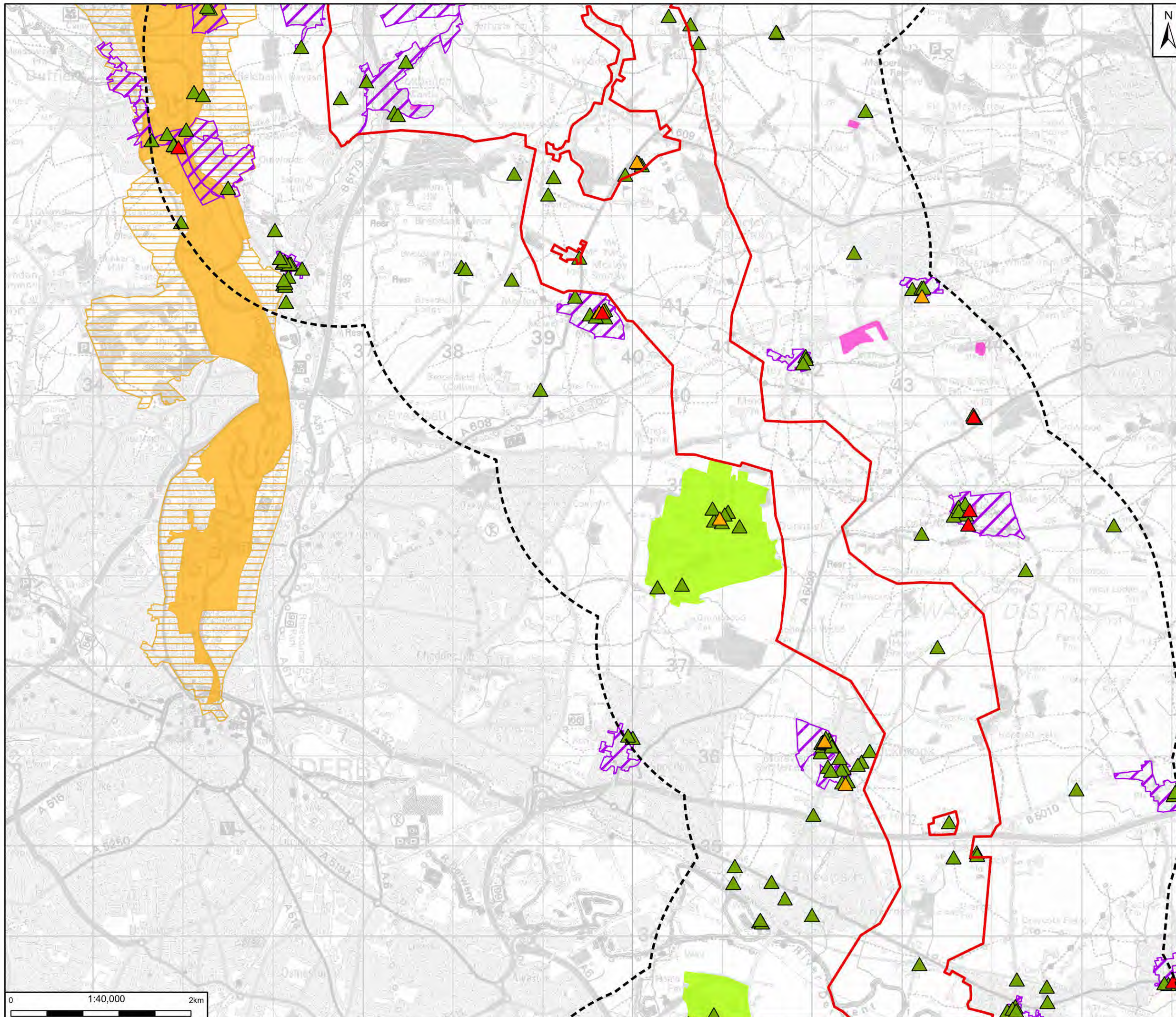
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Title: **Historic Environment
 Figure 8.1
 Designated Heritage Assets
 Page 3 of 7**

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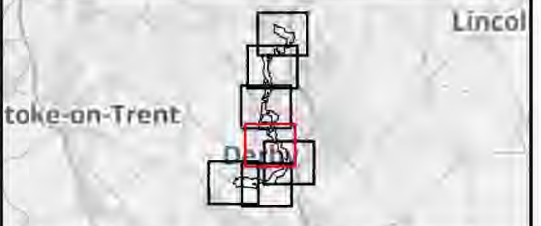




Legend

- Scoping Boundary
- 2km Study Area
- Listed Building
 - Grade I
 - Conservation Area
 - Registered Park and Garden
 - Scheduled Monument
 - Derwent Valley Mills World Heritage Site
 - Derwent Valley Mills World Heritage Site Buffer

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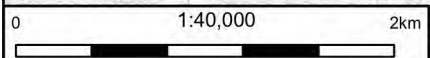
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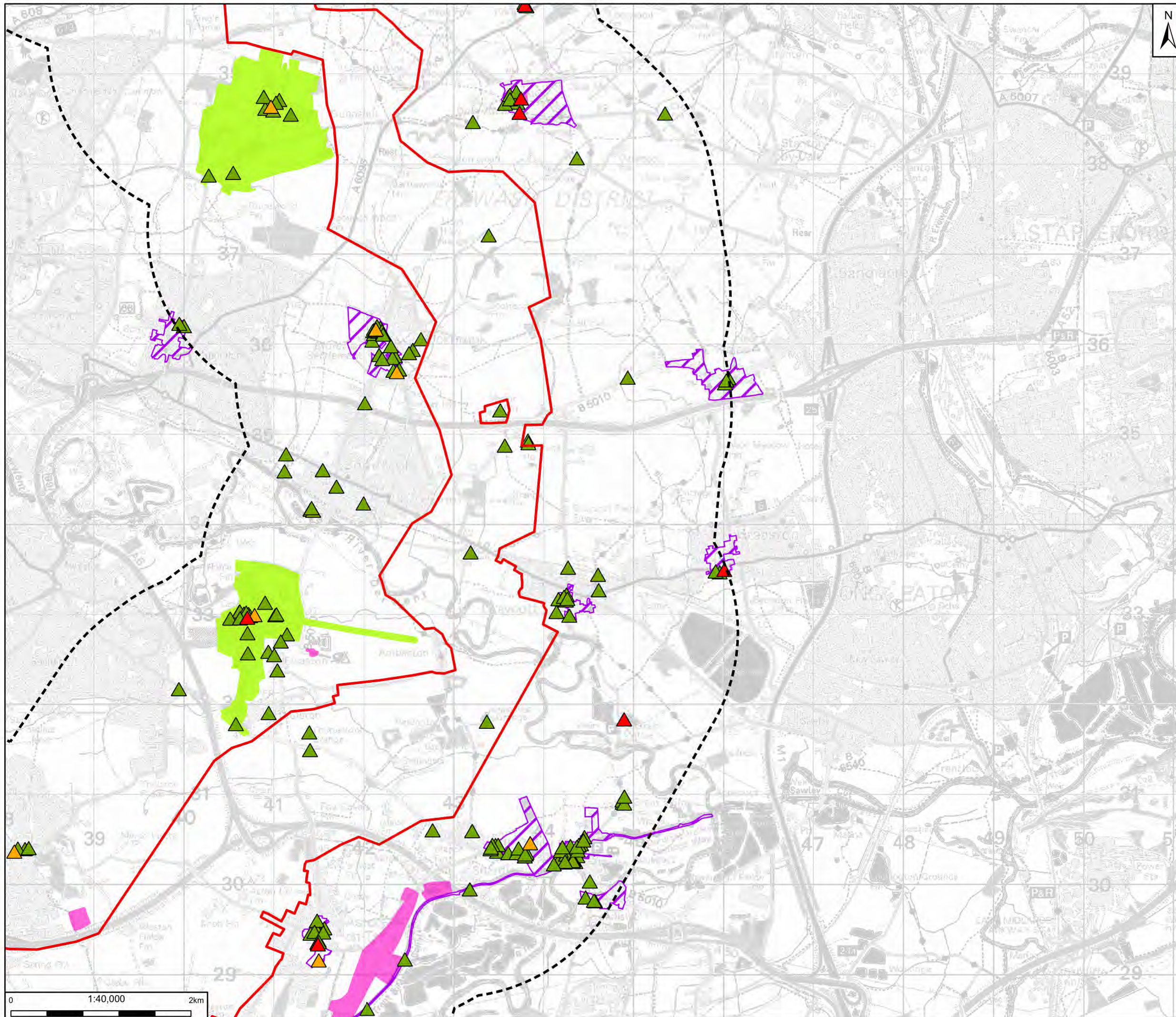
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Suitability Description: **For Information**

Drawing Number: 30199581-ARC-EGN-ZZ-DR-ZZ-00047-S2 Revision: P01





Legend

- Scoping Boundary
- 2km Study Area
- Listed Building
 - Grade I
 - Conservation Area
 - Registered Park and Garden
 - Scheduled Monument

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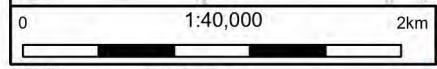
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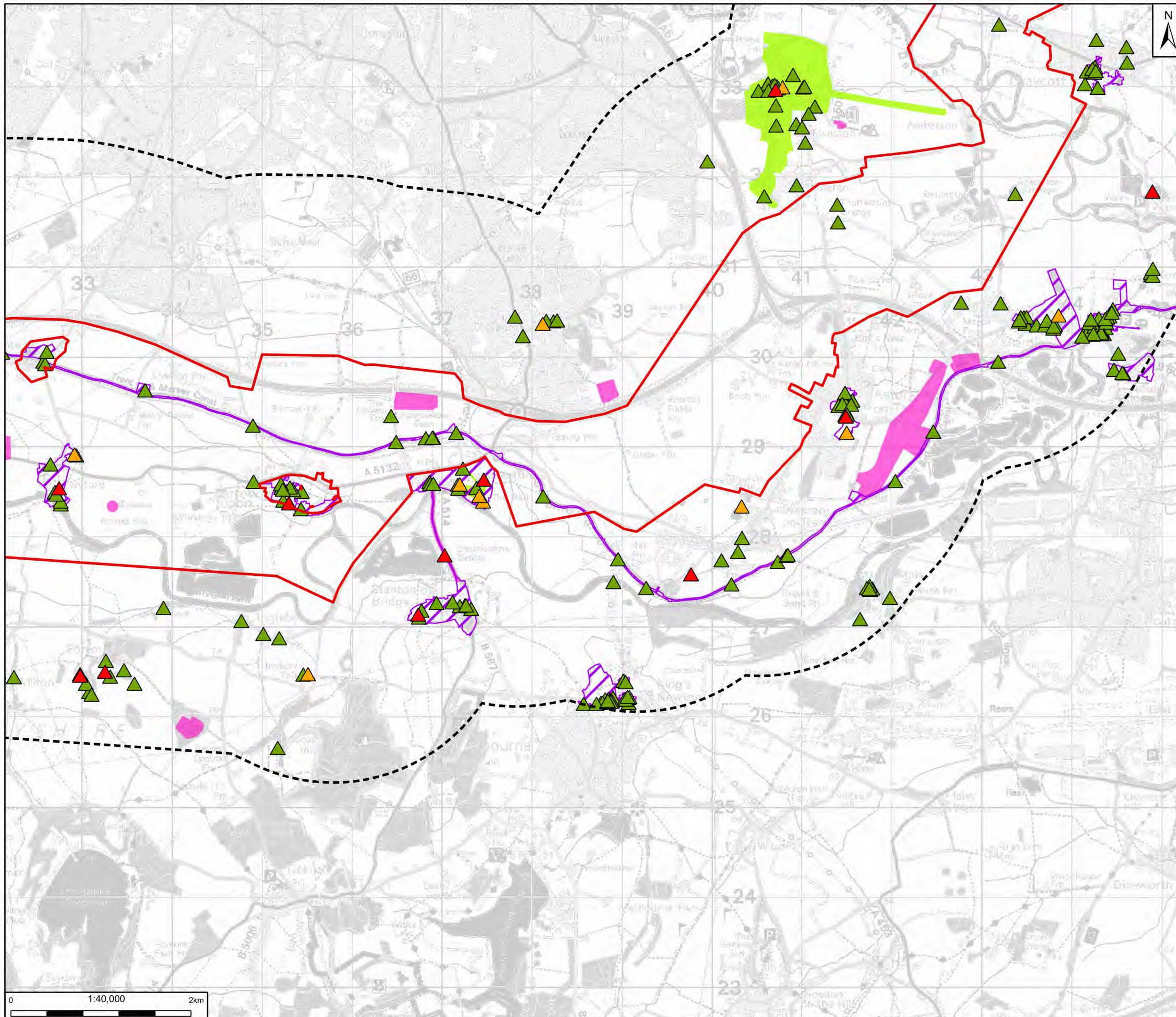
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Title: **Historic Environment
 Figure 8.1
 Designated Heritage Assets
 Page 5 of 7**

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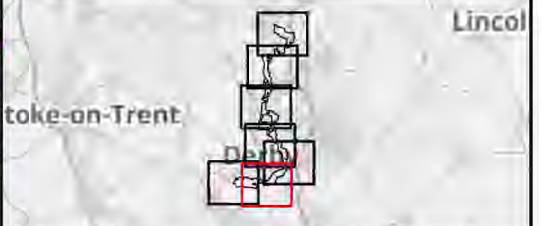
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Legend

- Scoping Boundary
- 2km Study Area
- Listed Building
 - Grade I
- Conservation Area
- Registered Park and Garden
- Scheduled Monument

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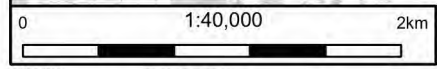
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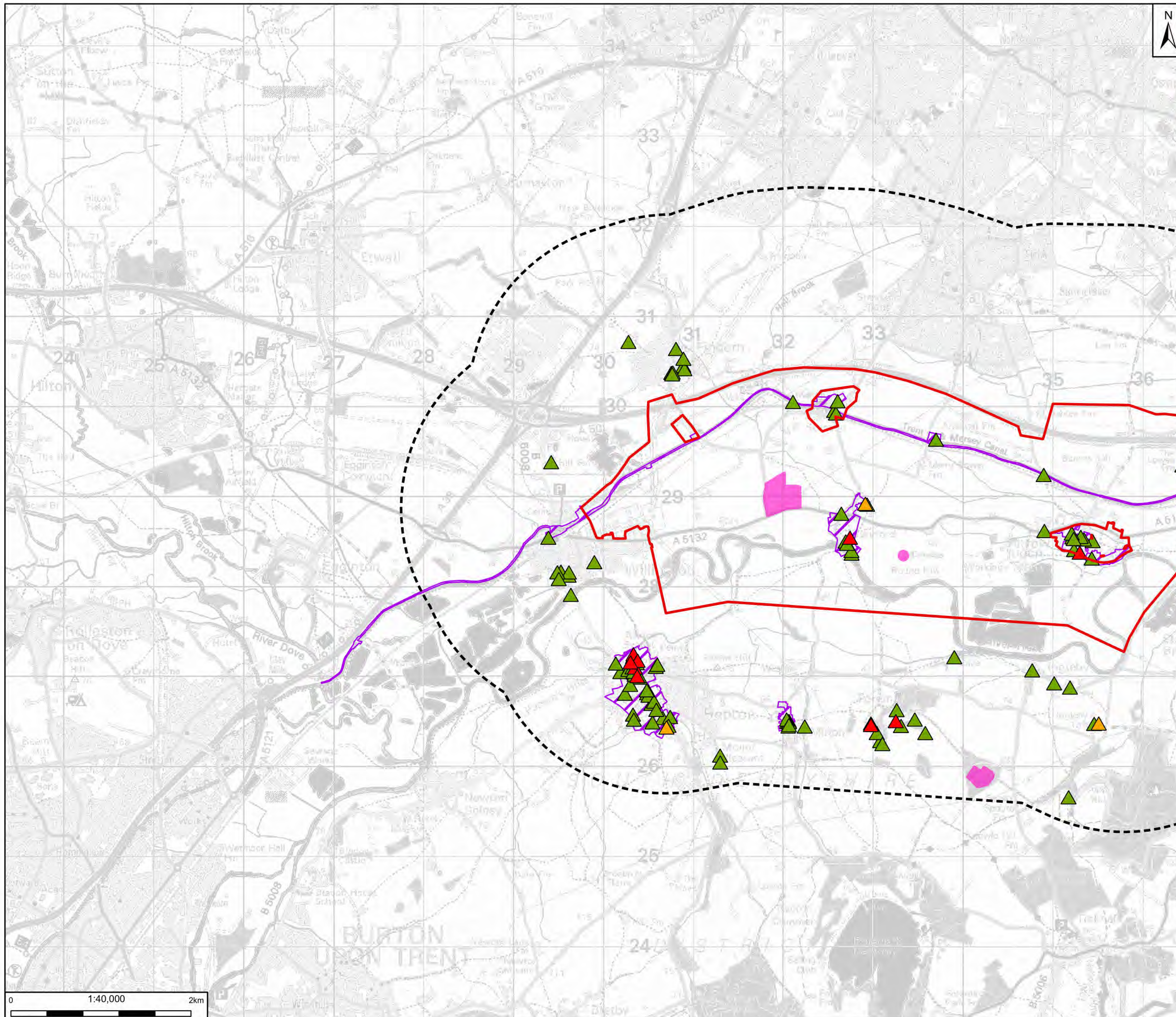
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Historic Environment
 Figure 8.1
 Designated Heritage Assets
 Page 6 of 7

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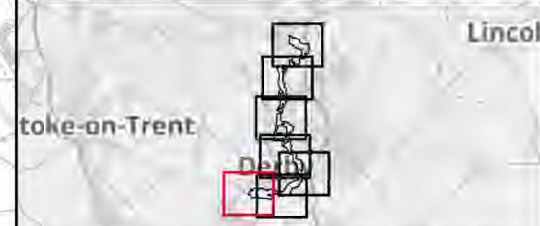




Legend

- Scoping Boundary
- 2km Study Area
- Listed Building
 - Grade I
- Conservation Area
- Scheduled Monument

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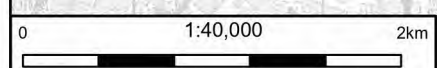
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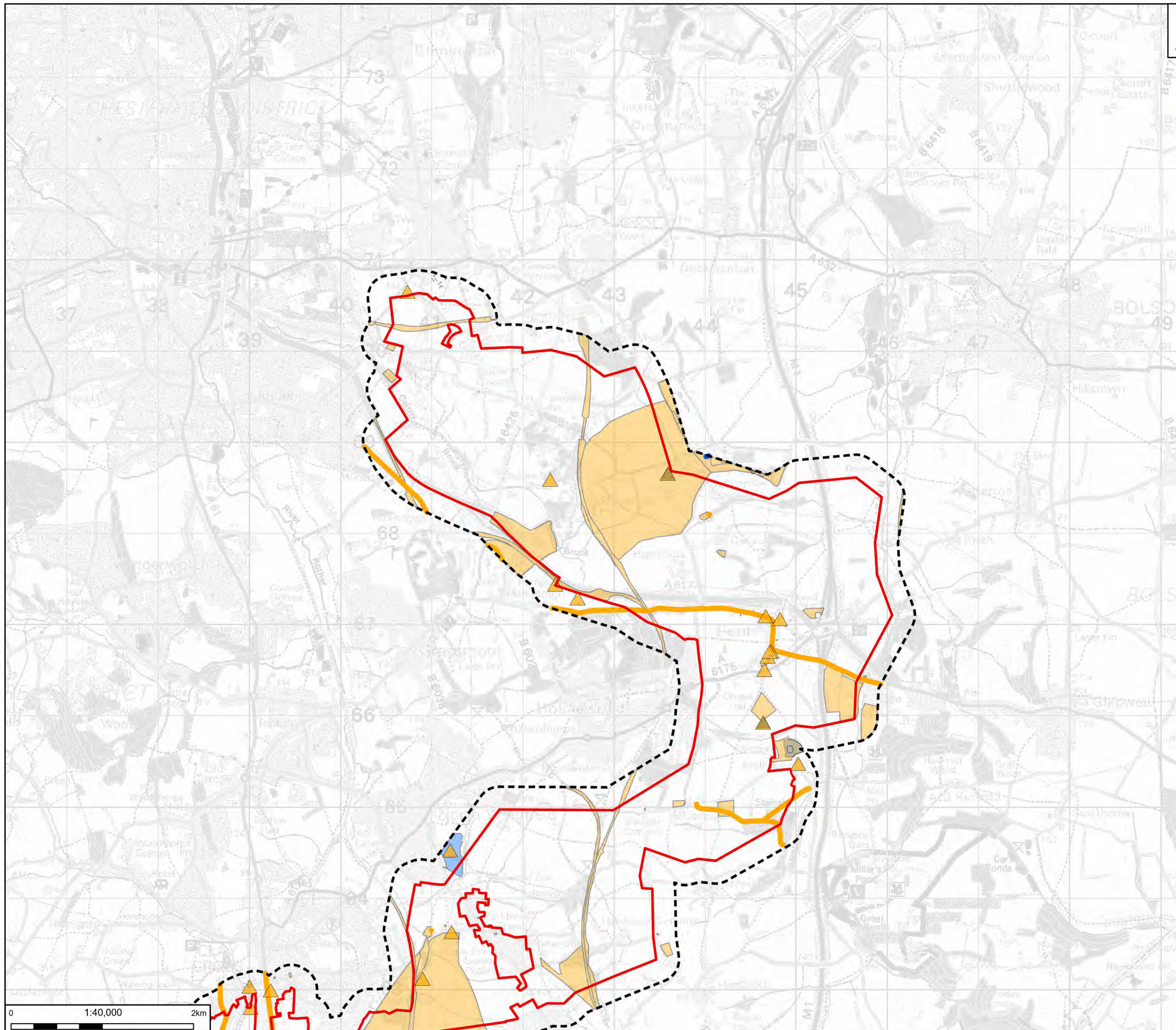
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Figure 8.1
Designated Heritage Assets
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Legend

- Scoping Boundary (Red outline)
- 250m Study Area (Dashed black outline)
- Non-Designated Heritage Asset**
 - Point (Yellow triangle)
 - Line (Yellow line)
 - Polygon (Yellow polygon)
- Previous Archaeological Event**
 - Point (Blue triangle)
 - Line (Blue line)
 - Polygon (Blue polygon)

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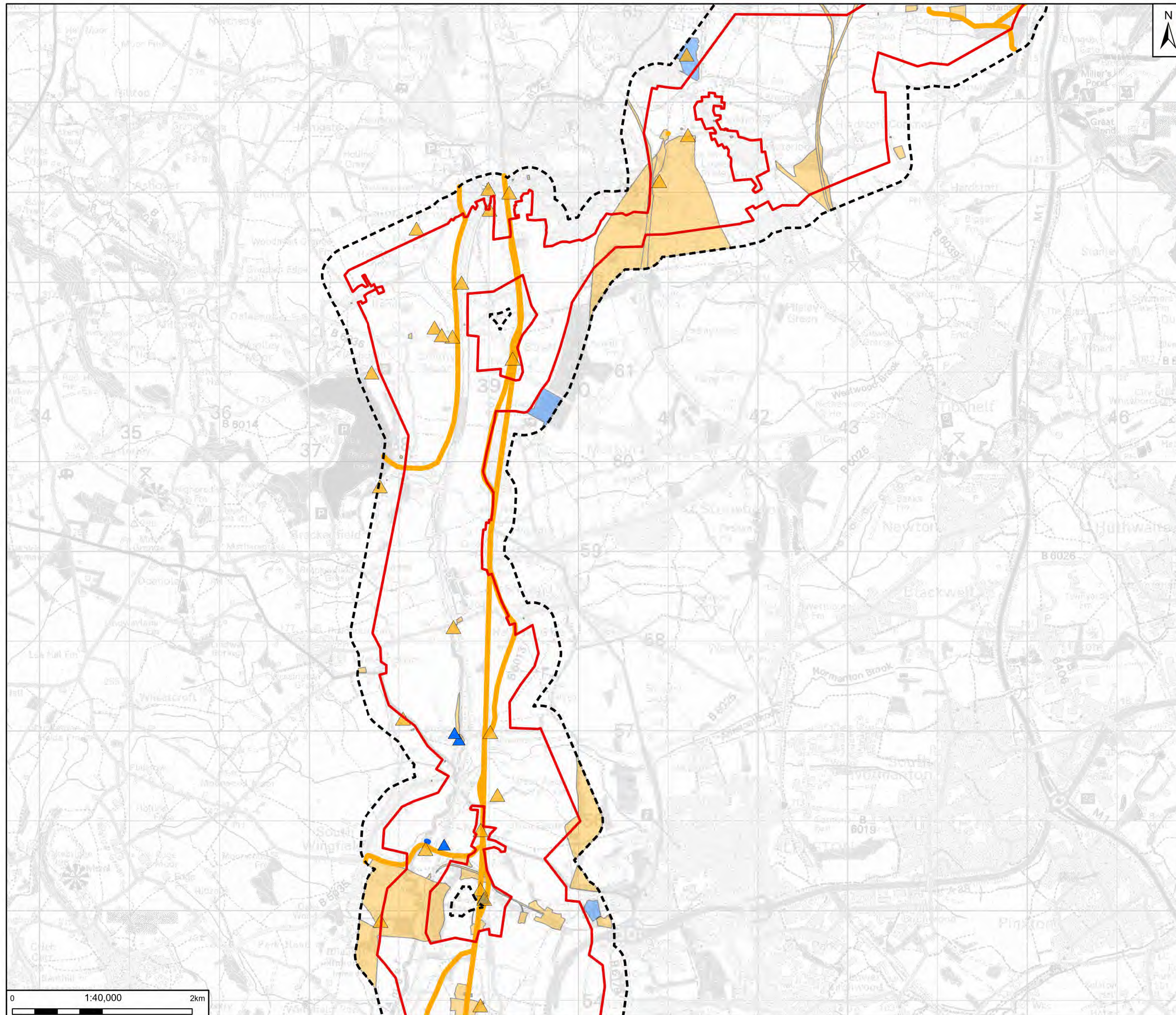
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 Historic Environment-
 Figure 8.2 - Non-Designated
 Heritage Assets
 Page 1 of 7

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Legend

- Scoping Boundary
- 250m Study Area

Non-Designated Heritage Asset

- ▲ Point
- Line
- Polygon

Previous Archaeological Event

- ▲ Point
- Line
- Polygon

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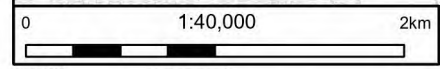
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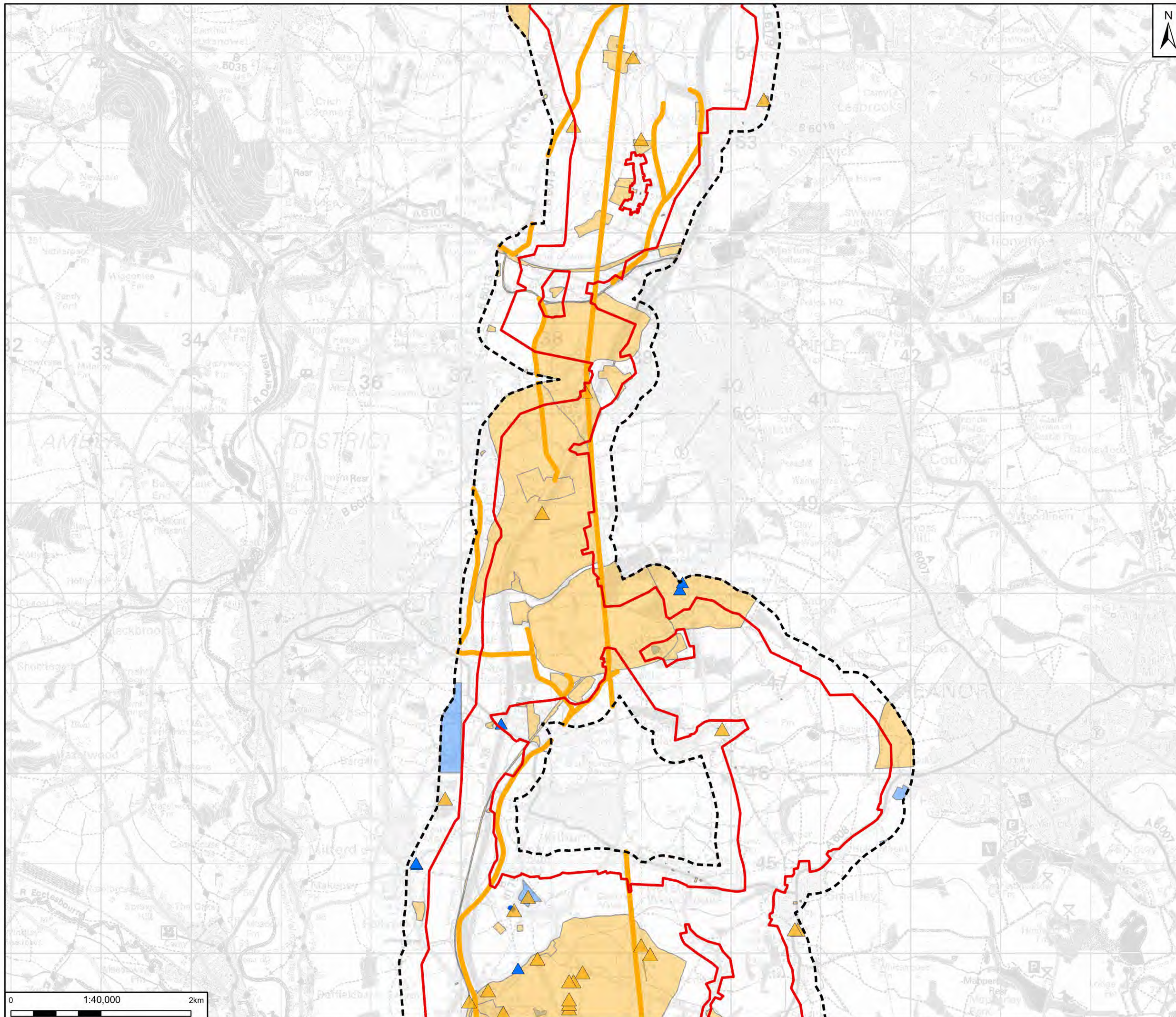
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**Historic Environment-
Figure 8.2 - Non-Designated
Heritage Assets
Page 2 of 7**

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- Legend**
- Scoping Boundary
 - 250m Study Area
 - Non-Designated Heritage Asset**
 - ▲ Point
 - Line
 - Polygon
 - Previous Archaeological Event**
 - ▲ Point
 - Line
 - Polygon

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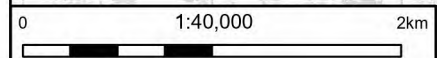
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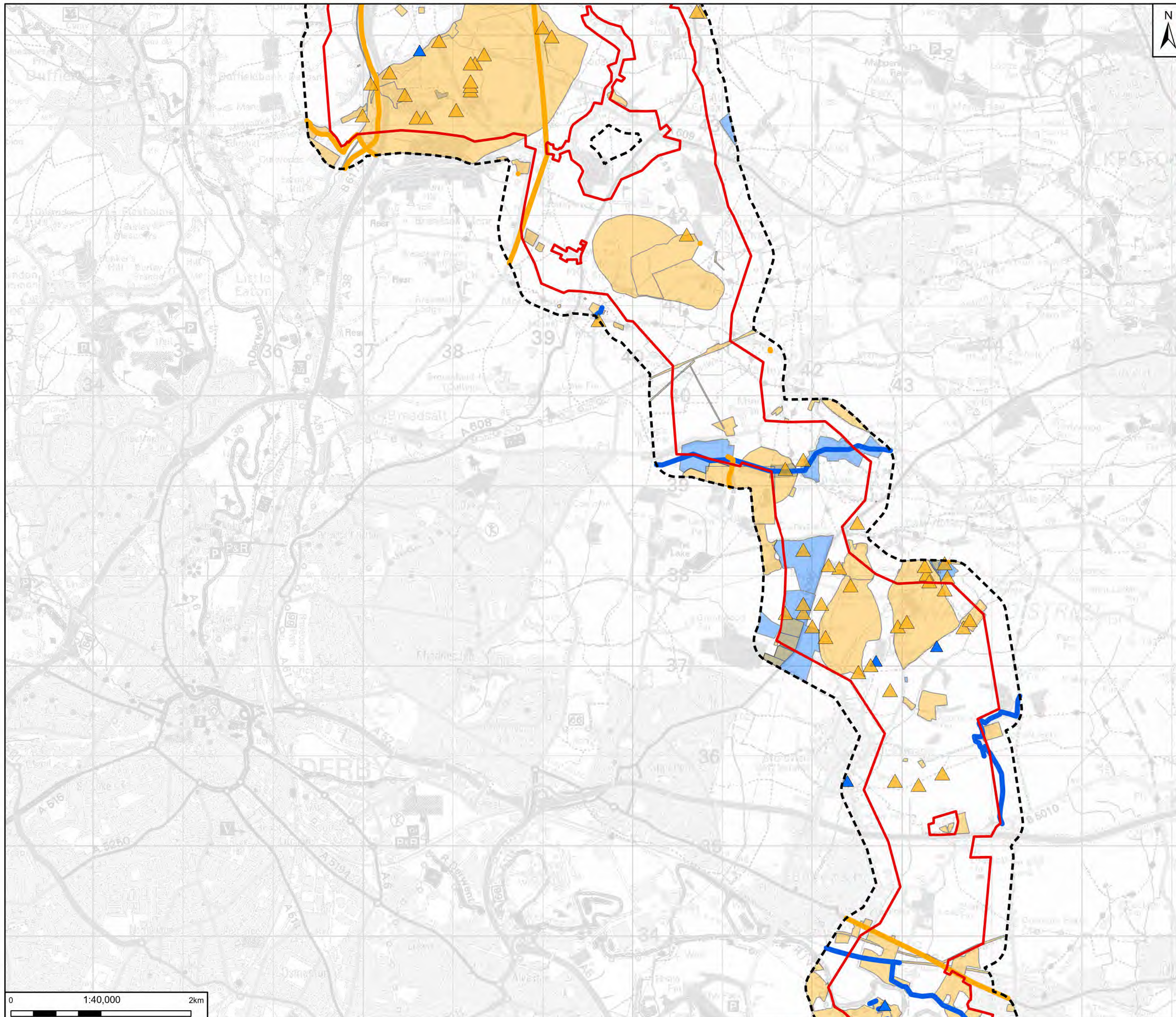
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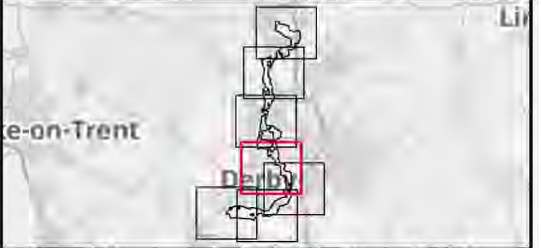




Legend

- Scoping Boundary
- 250m Study Area
- Non-Designated Heritage Asset**
 - Point
 - Line
 - Polygon
- Previous Archaeological Event**
 - Point
 - Line
 - Polygon

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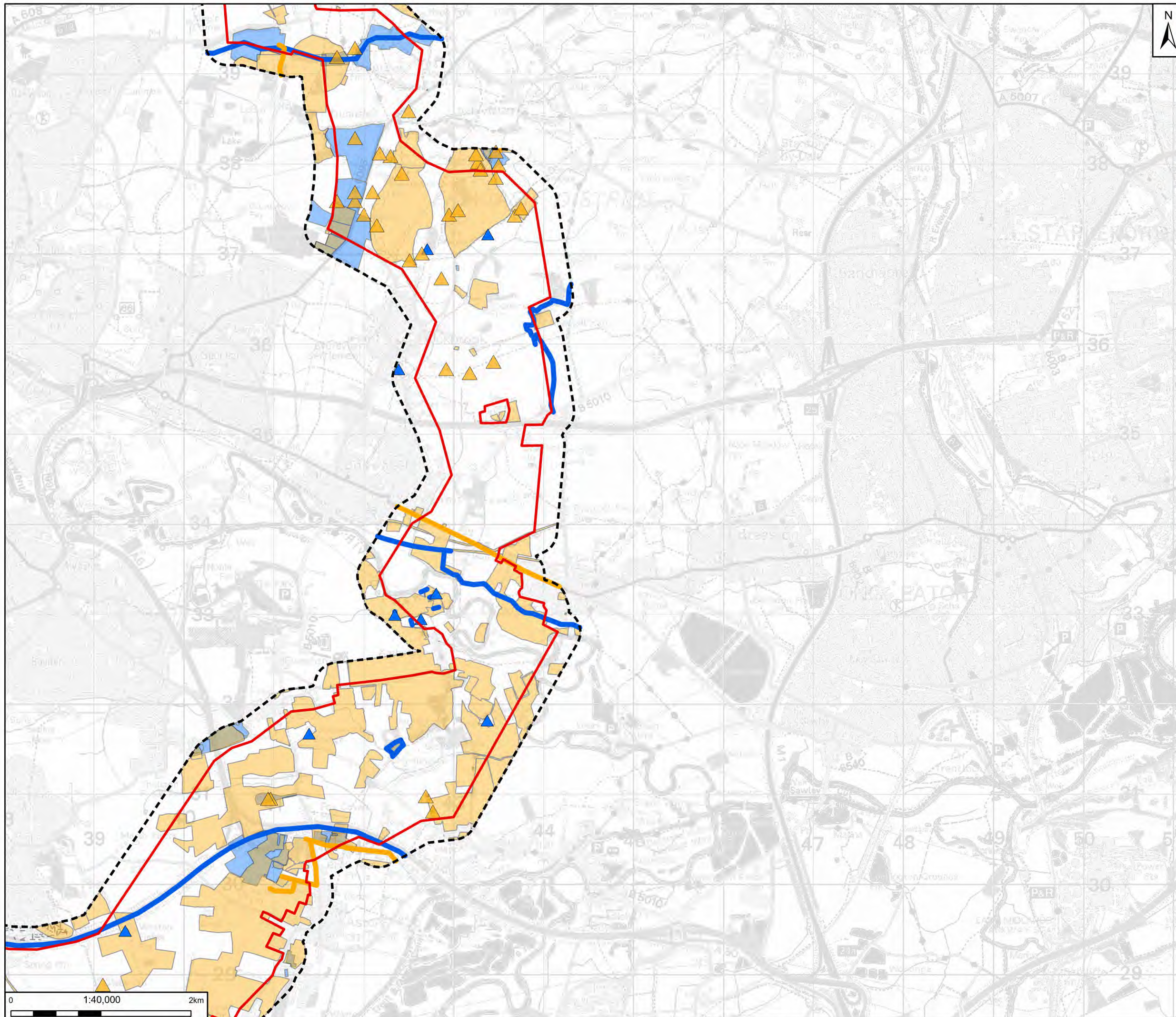
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 Figure 8.2 - Non-Designated
 Heritage Assets
 Page 4 of 7

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- Legend**
- Scoping Boundary
 - 250m Study Area
 - Non-Designated Heritage Asset**
 - ▲ Point
 - Line
 - Polygon
 - Previous Archaeological Event**
 - ▲ Point
 - Line
 - Polygon

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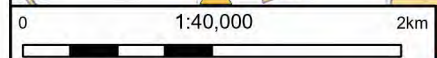
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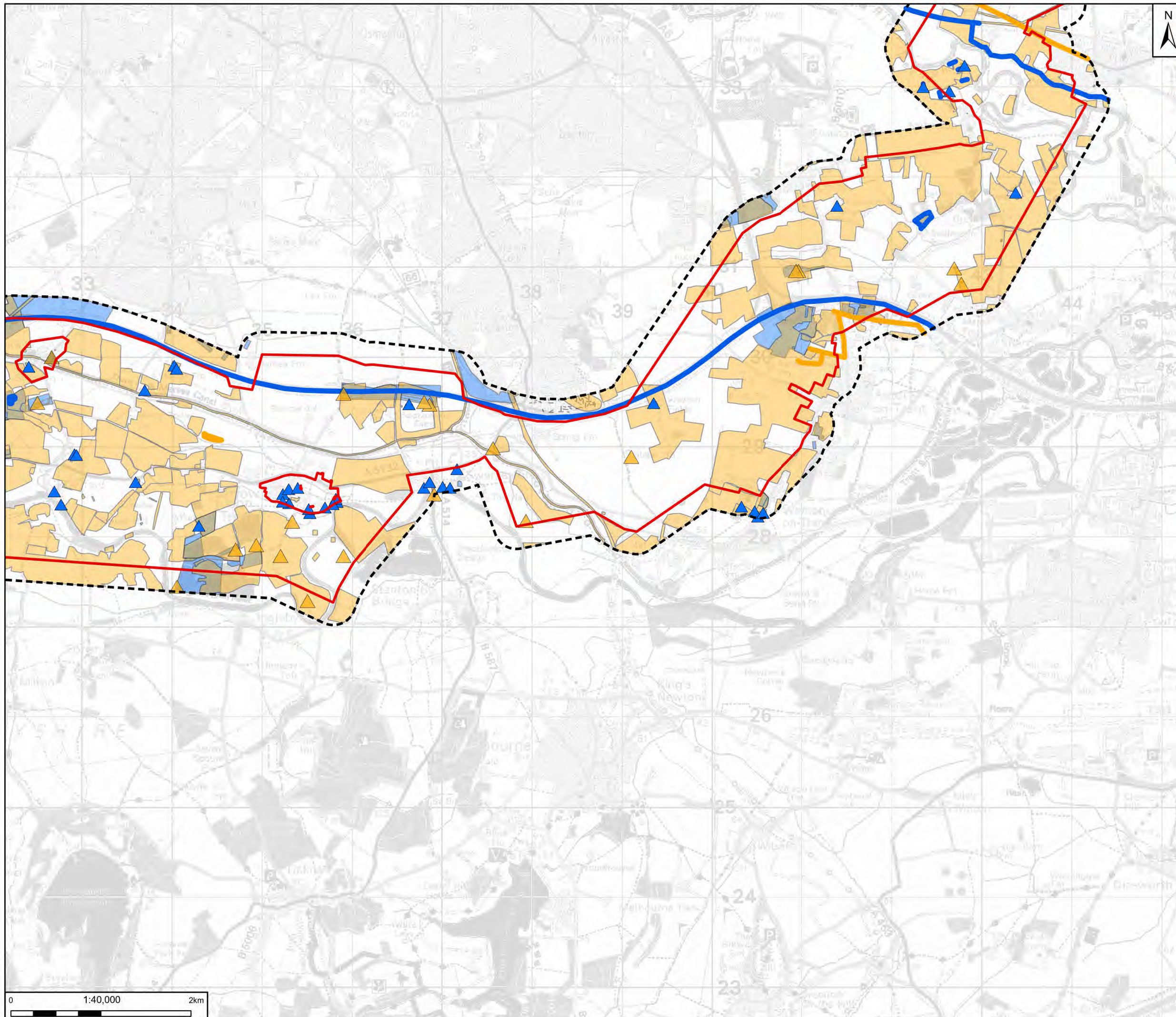
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Figure 8.2 - Non-Designated
Heritage Assets
Page 5 of 7

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Legend

- Scoping Boundary
- 250m Study Area
- Non-Designated Heritage Asset**
 - Point
 - Line
 - Polygon
- Previous Archaeological Event**
 - Point
 - Line
 - Polygon

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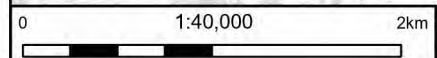
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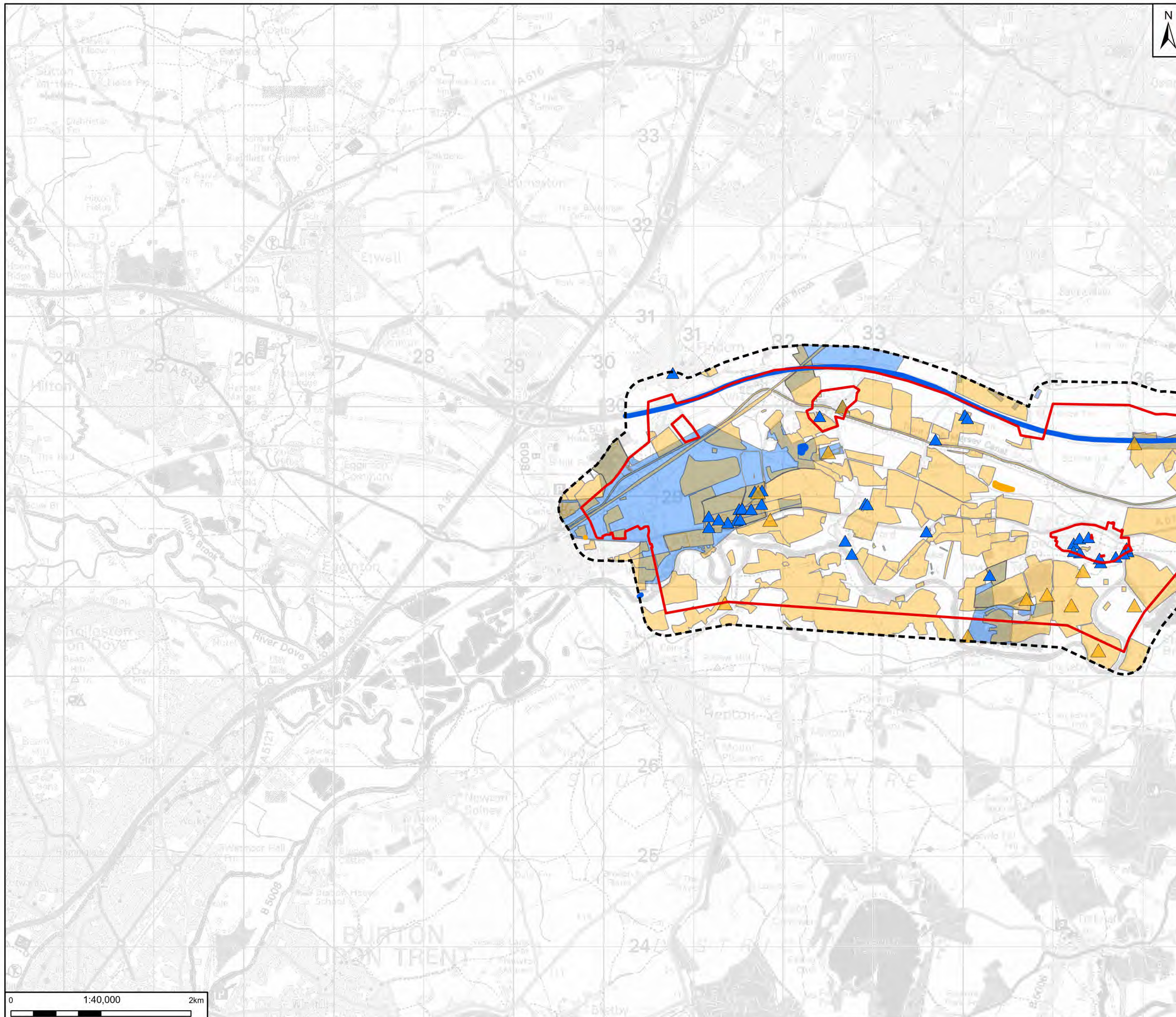
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 Page 6 of 7

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- Legend**
- Scoping Boundary
 - 250m Study Area
 - Non-Designated Heritage Asset**
 - ▲ Point
 - Line
 - Polygon
 - Previous Archaeological Event**
 - ▲ Point
 - Line
 - Polygon

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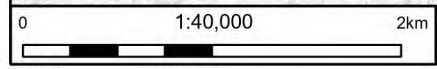
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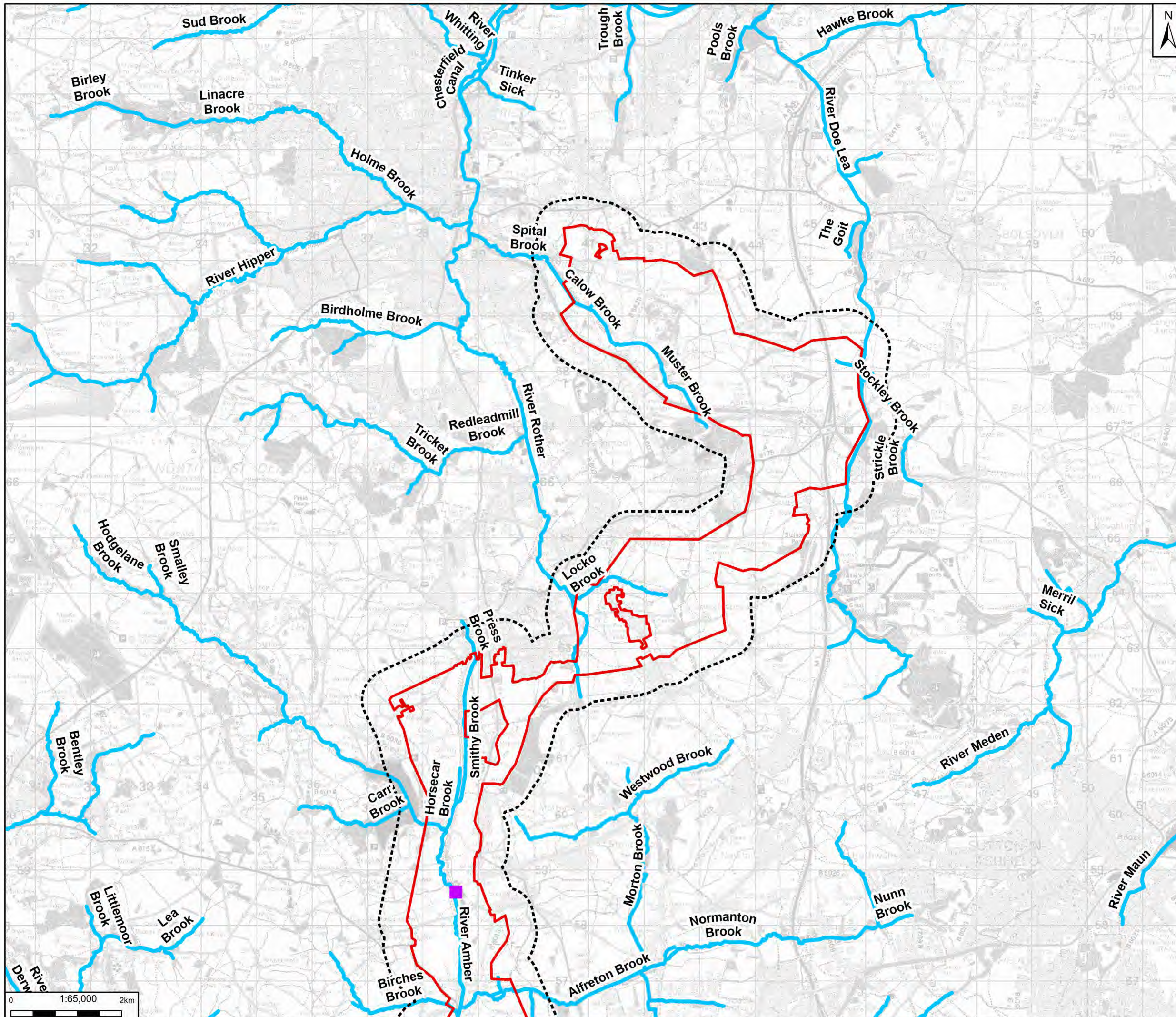


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9. Hydrology and Land Drainage

Figure 9.1 to Figure 9.2

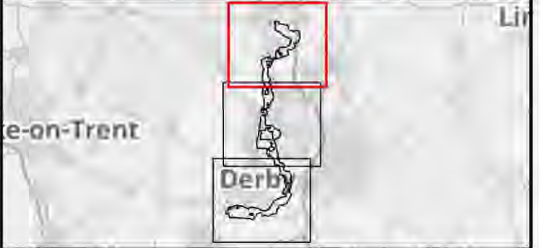
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Legend

- Scoping Boundary
- 500m Study Area
- Abstraction Data
- Main River

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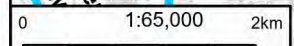
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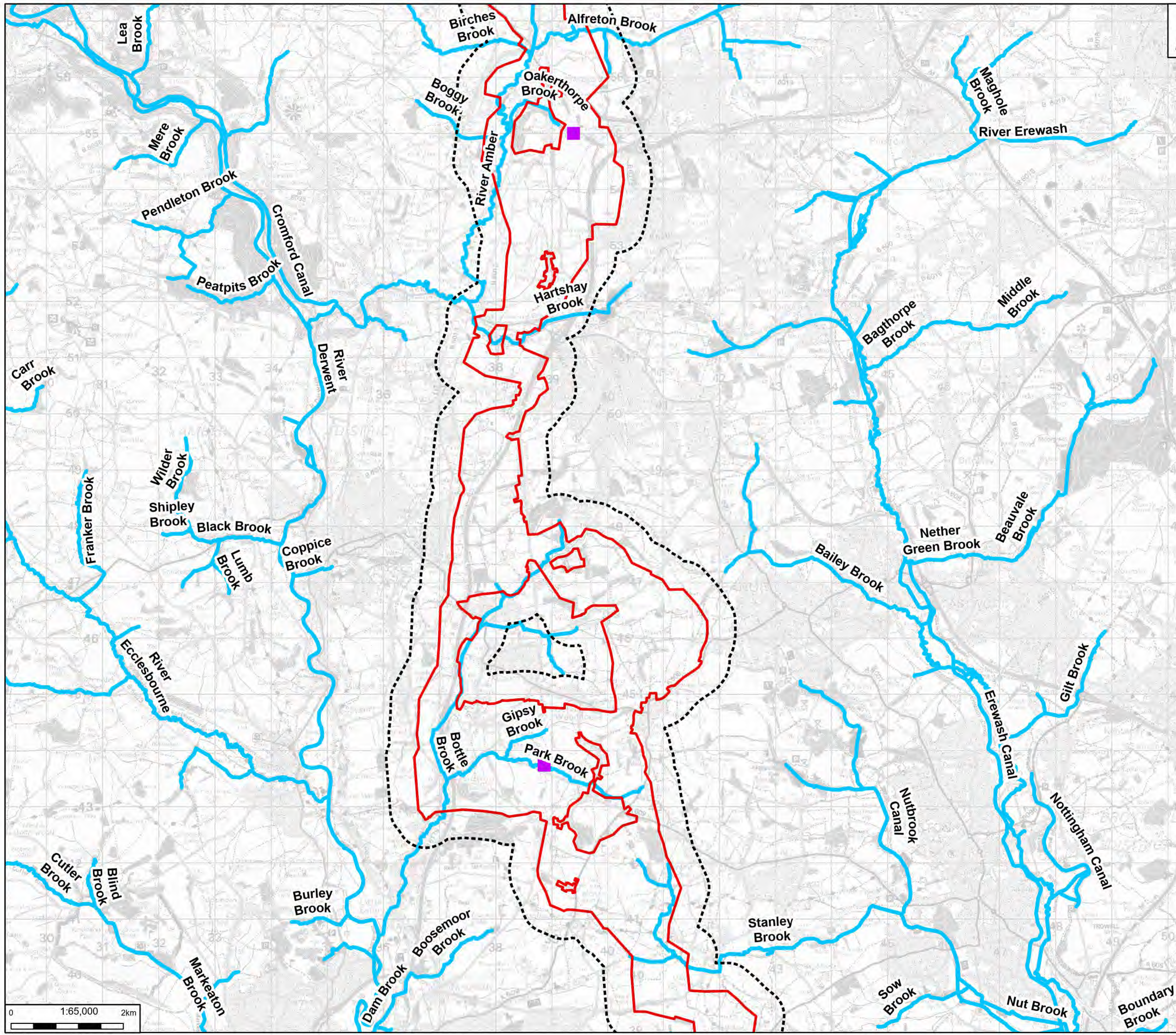
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Title: Hydrology and Land Drainage
 Figure 9.1
 Study Area and
 Water Environment Receptors
 Page 1 of 3

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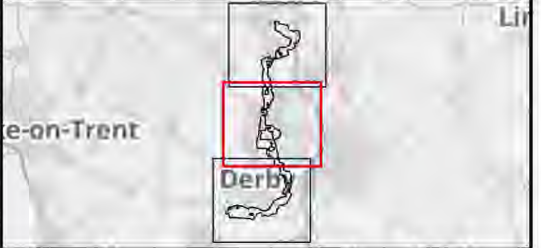




Legend

- Scoping Boundary
- 500m Study Area
- Abstraction Data
- Main River

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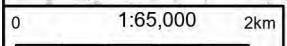
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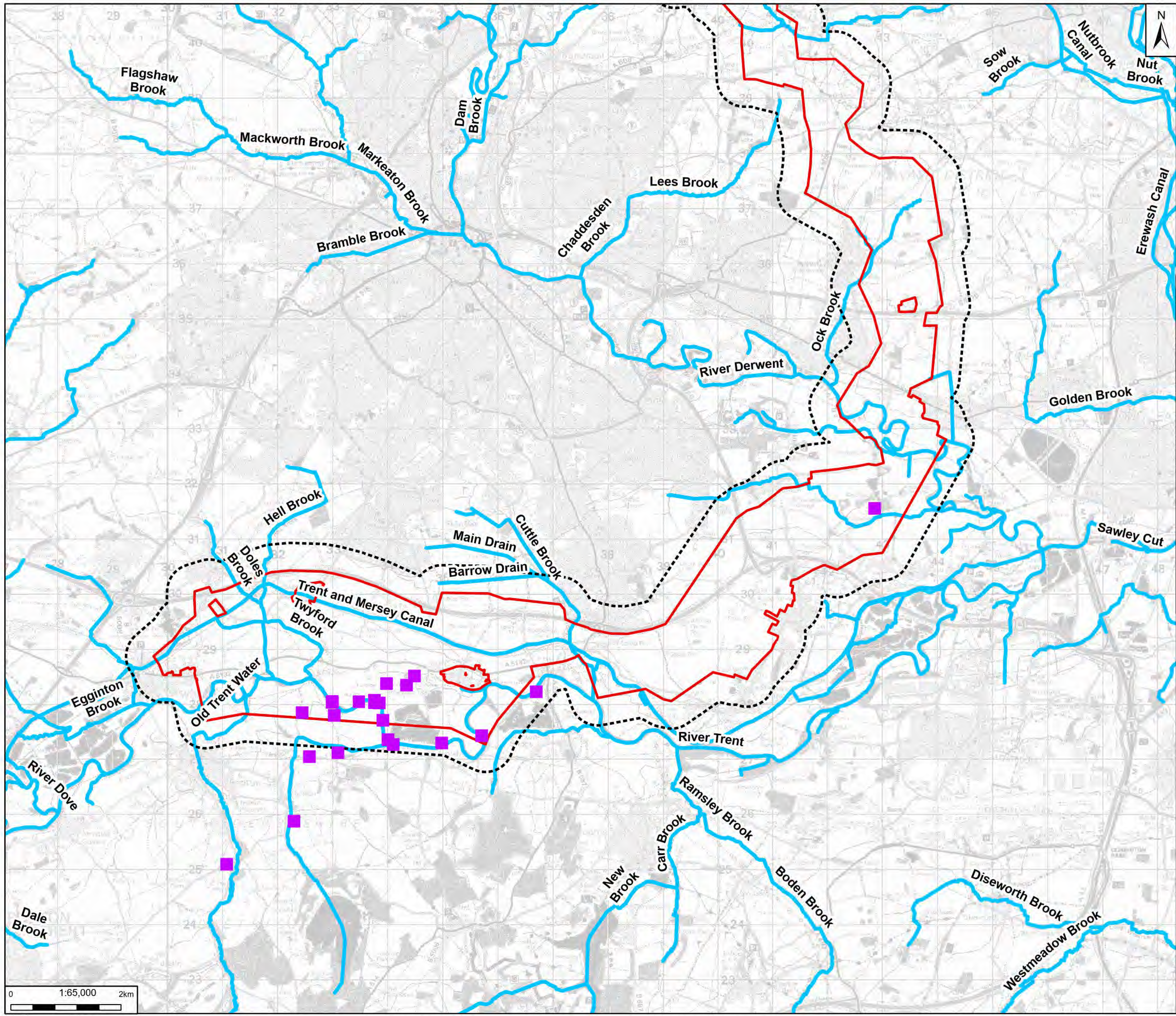
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Title: Hydrology and Land Drainage
Figure 9.1
Study Area and
Water Environment Receptors
Page 2 of 3

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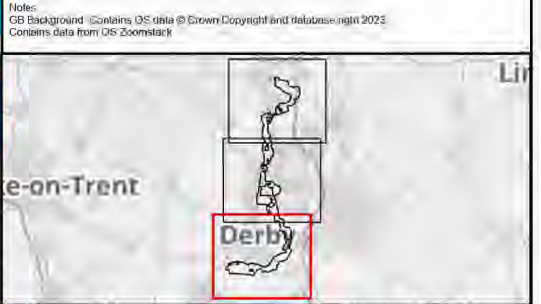


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Legend

- Scoping Boundary
- 500m Study Area
- Abstraction Data
- Main River



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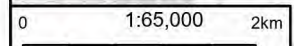
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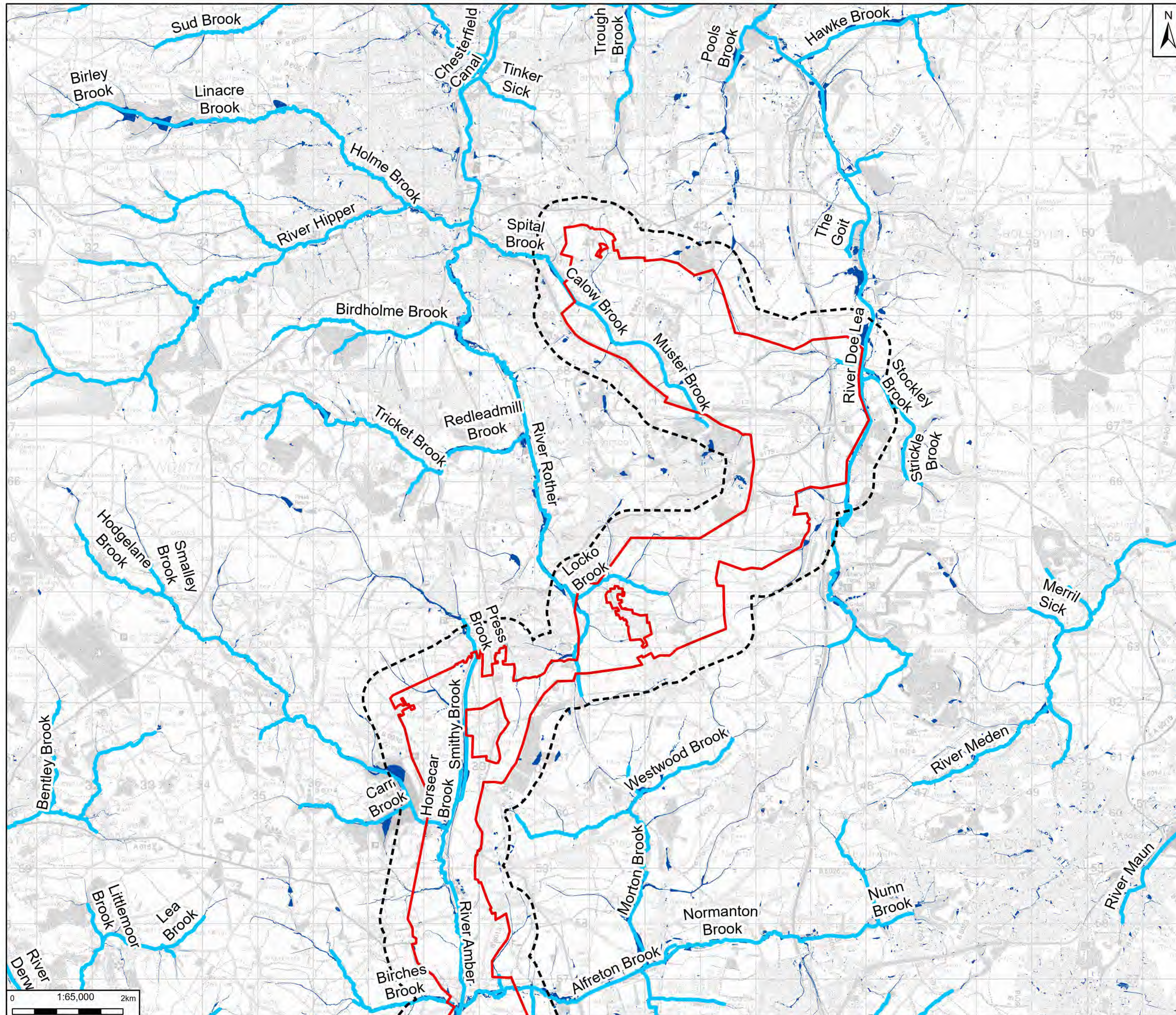
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Figure 9.1
Study Area and
Water Environment Receptors
Page 3 of 3

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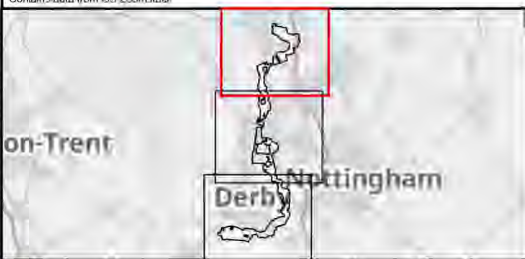




Legend

- Scoping Boundary
- 500m Study Area
- Ordinary Watercourse
- Main River
- High Risk Surface Water Flood Zone
- Flood Zone 3

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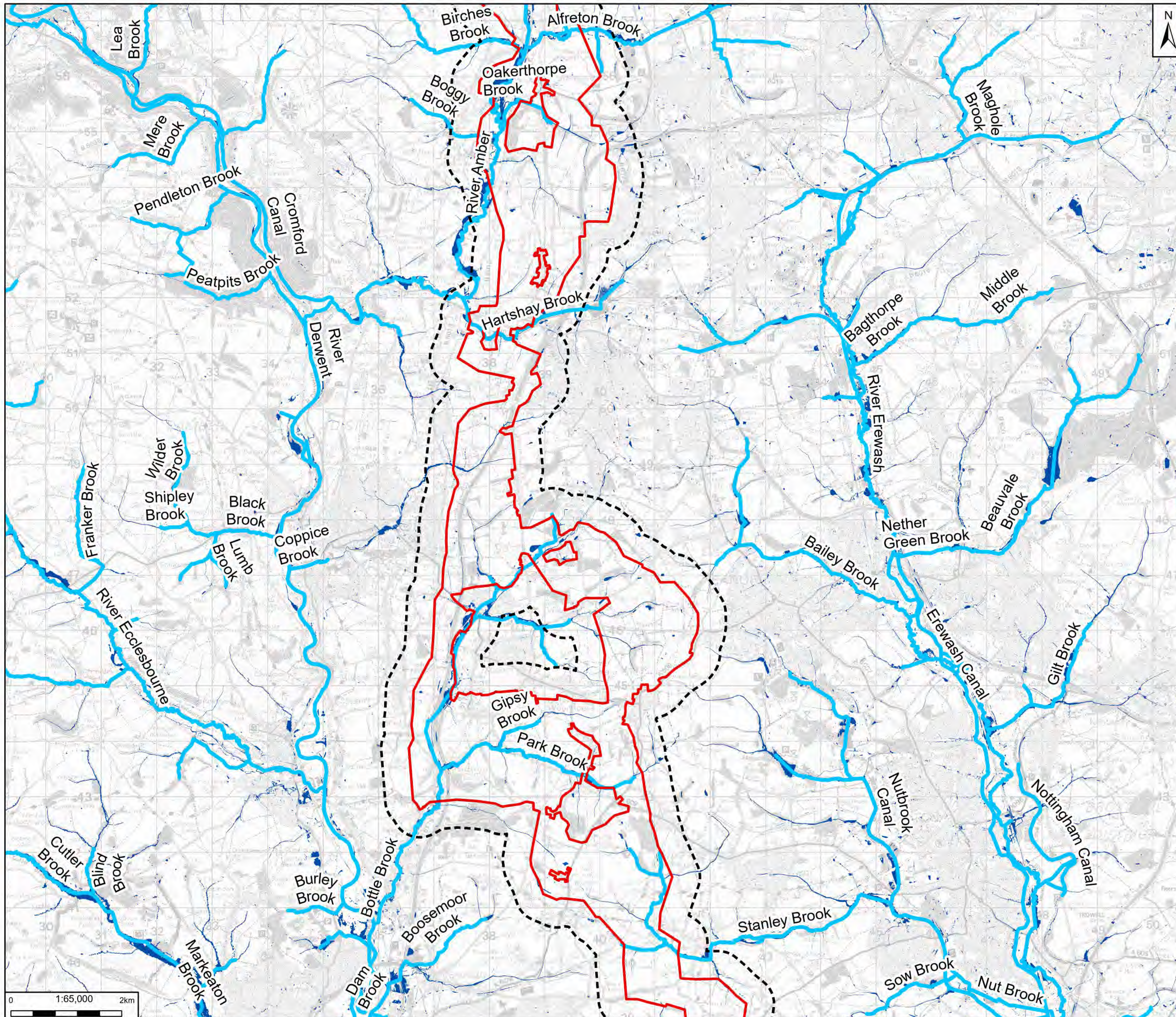
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Title: Hydrology and Land Drainage
 Figure 9.2
 Flood Zones
 Page 1 of 3

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Suitability Code:	S2	Project Number:	30199581
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Legend

- Scoping Boundary
- 500m Study Area
- Ordinary Watercourse
- Main River
- High Risk Surface Water Flood Zone
- Flood Zone 3

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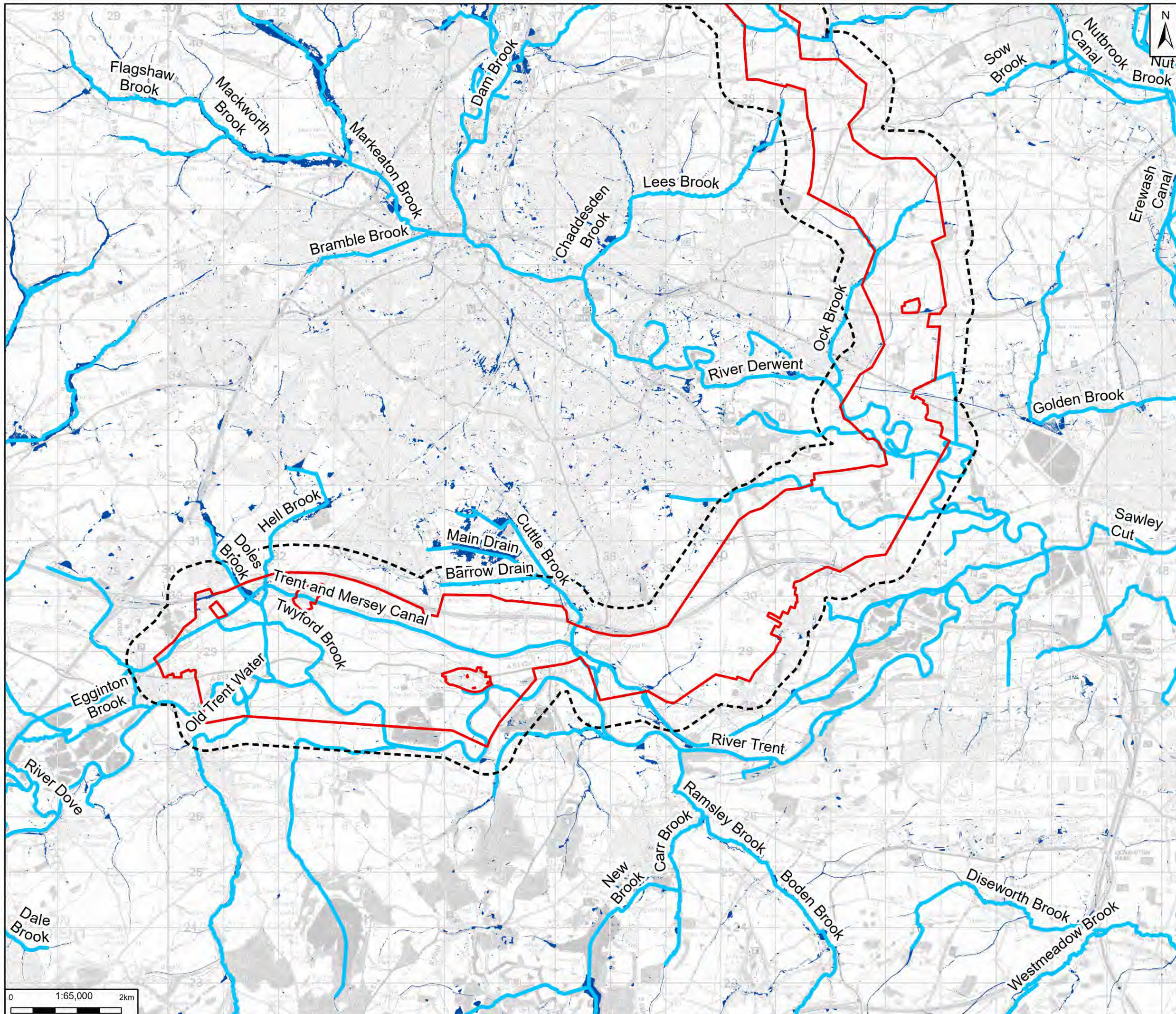
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 Figure 9.2
 Flood Zones
 Page 2 of 3

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Legend

- Scoping Boundary
- 500m Study Area
- Ordinary Watercourse
- Main River
- High Risk Surface Water Flood Zone
- Flood Zone 3

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 Page 3 of 3

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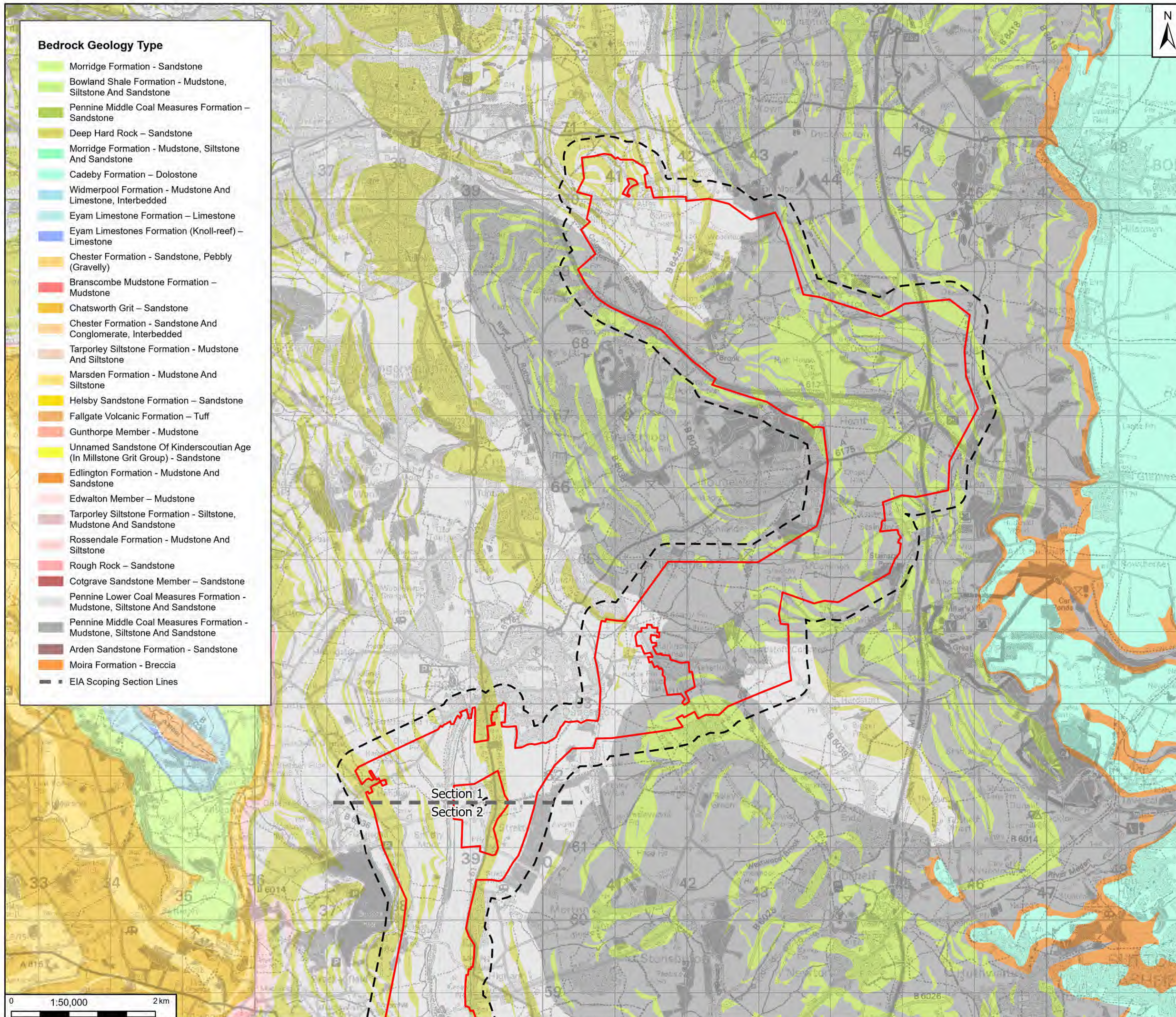
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10. Geology and Hydrogeology

Figure 10.1 to Figure 10.7

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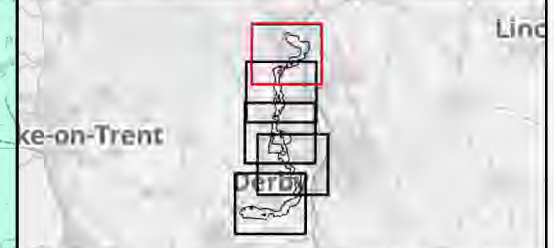


Bedrock Geology Type

- Morridge Formation - Sandstone
- Bowland Shale Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Sandstone
- Deep Hard Rock - Sandstone
- Morridge Formation - Mudstone, Siltstone And Sandstone
- Cadeby Formation - Dolostone
- Widmerpool Formation - Mudstone And Limestone, Interbedded
- Eyam Limestone Formation - Limestone
- Eyam Limestones Formation (Knoll-reef) - Limestone
- Chester Formation - Sandstone, Pebbly (Gravelly)
- Branscombe Mudstone Formation - Mudstone
- Chatsworth Grit - Sandstone
- Chester Formation - Sandstone And Conglomerate, Interbedded
- Tarporley Siltstone Formation - Mudstone And Siltstone
- Marsden Formation - Mudstone And Siltstone
- Helsby Sandstone Formation - Sandstone
- Fallgate Volcanic Formation - Tuff
- Gunthorpe Member - Mudstone
- Unnamed Sandstone Of Kinderscouthian Age (In Millstone Grit Group) - Sandstone
- Edlington Formation - Mudstone And Sandstone
- Edwalton Member - Mudstone
- Tarporley Siltstone Formation - Siltstone, Mudstone And Sandstone
- Rossendale Formation - Mudstone And Siltstone
- Rough Rock - Sandstone
- Cotgrave Sandstone Member - Sandstone
- Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Arden Sandstone Formation - Sandstone
- Moira Formation - Breccia
- EIA Scoping Section Lines

- Legend**
- Scoping Boundary
 - 250 m Buffer
 - EIA Scoping Section Lines

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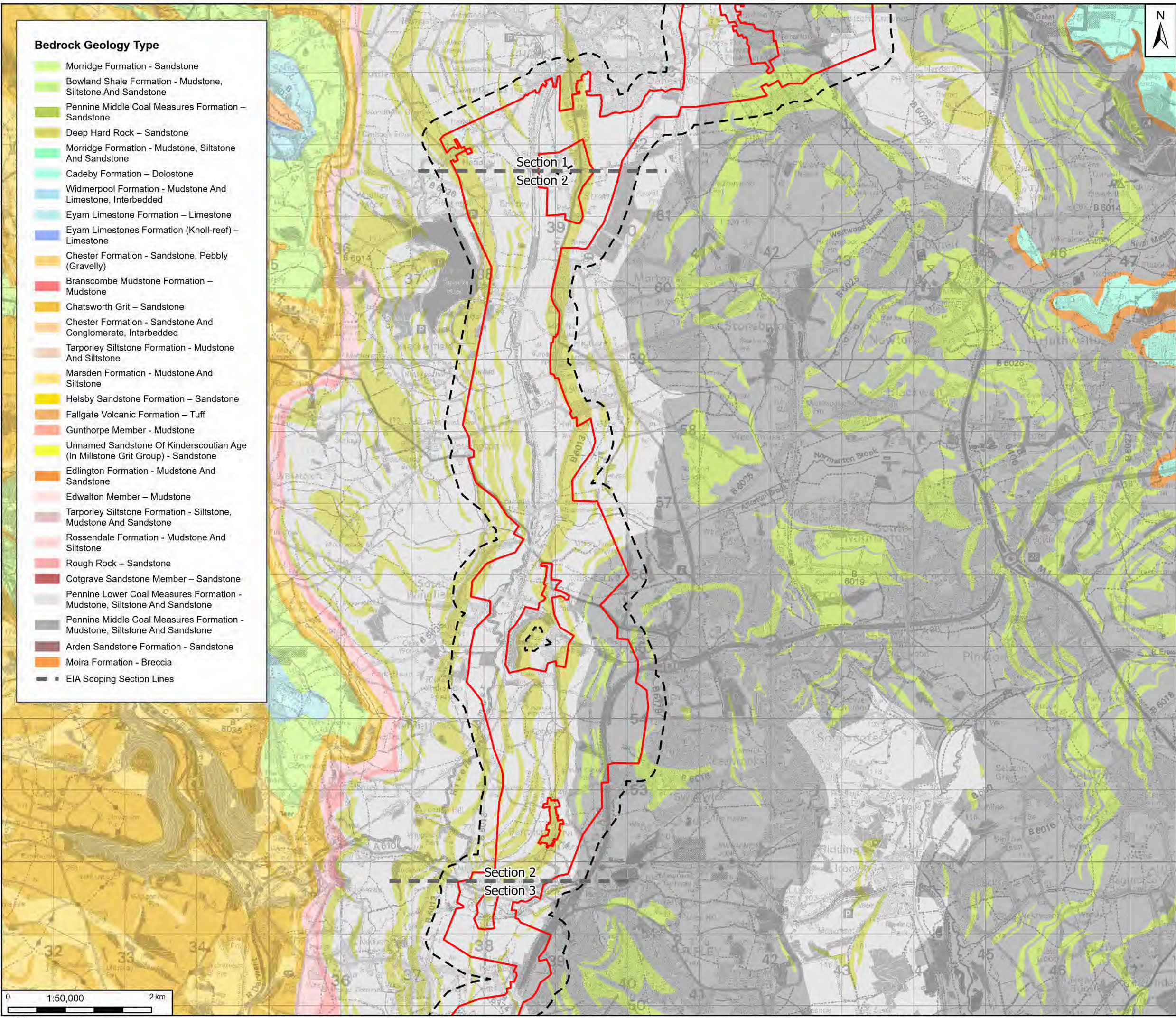
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Title: **Geology and Hydrogeology Figure 10.1 Bedrock Geology Page 1 of 5**

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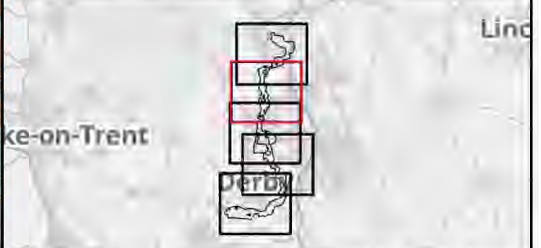
- Bedrock Geology Type**
- Morrige Formation - Sandstone
 - Bowland Shale Formation - Mudstone, Siltstone And Sandstone
 - Pennine Middle Coal Measures Formation - Sandstone
 - Deep Hard Rock - Sandstone
 - Morrige Formation - Mudstone, Siltstone And Sandstone
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 - Widmerpool Formation - Mudstone And Limestone, Interbedded
 - Eyam Limestone Formation - Limestone
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 - Chatsworth Grit - Sandstone
 - Chester Formation - Sandstone And Conglomerate, Interbedded
 - Tarporley Siltstone Formation - Mudstone And Siltstone
 - Marsden Formation - Mudstone And Siltstone
 - Helsby Sandstone Formation - Sandstone
 - Fallgate Volcanic Formation - Tuff
 - Gunthorpe Member - Mudstone
 - Unnamed Sandstone Of Kinderscouthian Age (In Millstone Grit Group) - Sandstone
 - Edlington Formation - Mudstone And Sandstone
 - Edwalton Member - Mudstone
 - Tarporley Siltstone Formation - Siltstone, Mudstone And Sandstone
 - Rossendale Formation - Mudstone And Siltstone
 - Rough Rock - Sandstone
 - Cotgrave Sandstone Member - Sandstone
 - Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone
 - Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone
 - Arden Sandstone Formation - Sandstone
 - Moira Formation - Breccia
 - EIA Scoping Section Lines

Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines

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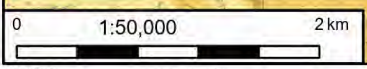
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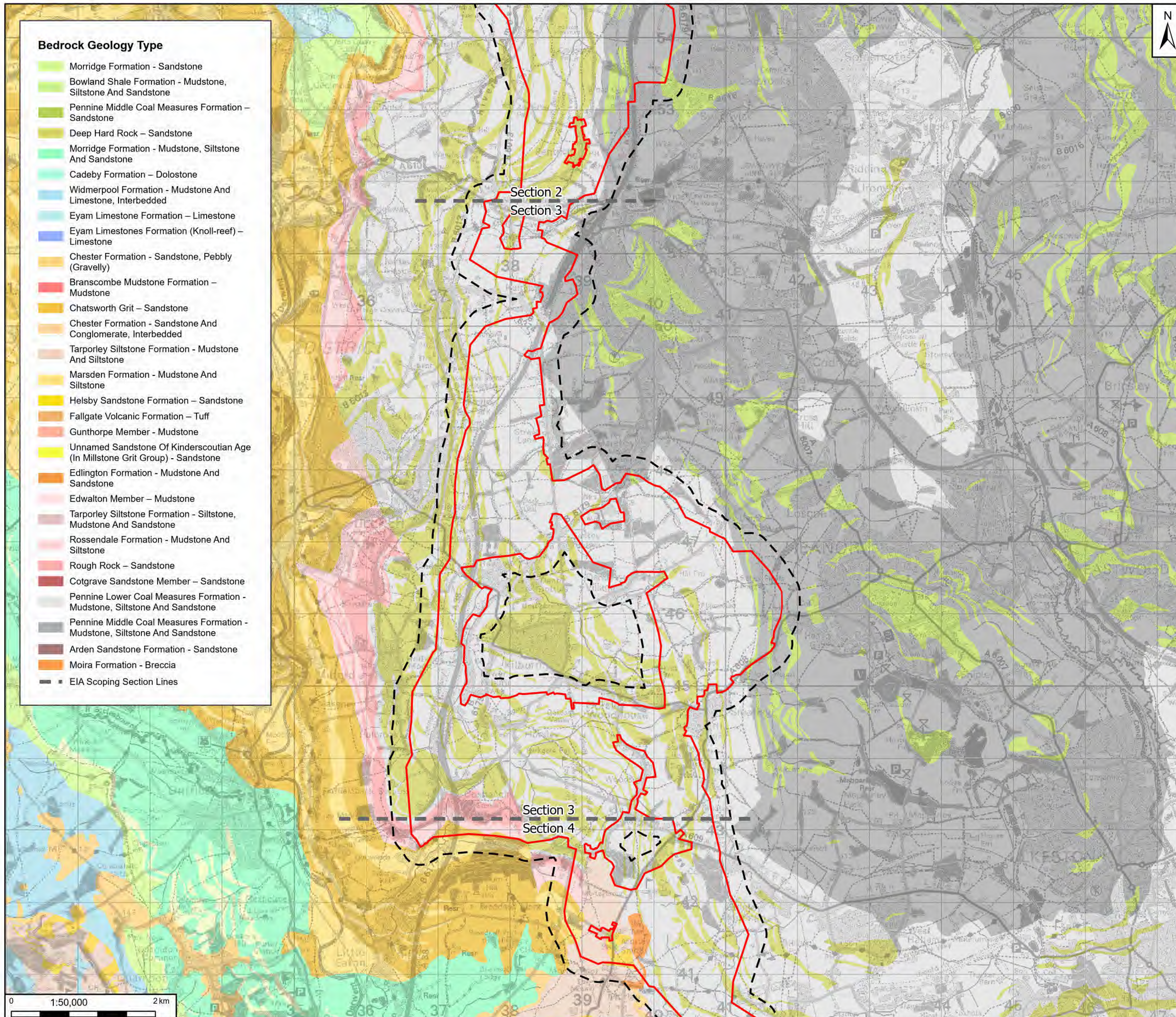
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Title: **Geology and Hydrogeology Figure 10.1 Bedrock Geology Page 2 of 5**

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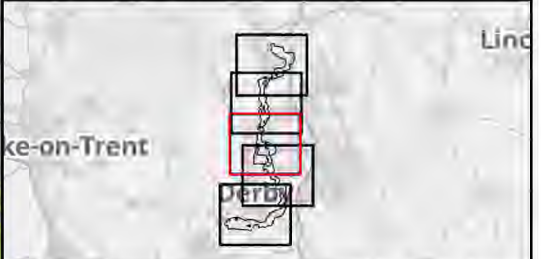
Bedrock Geology Type

- Morridge Formation - Sandstone
- Bowland Shale Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Sandstone
- Deep Hard Rock - Sandstone
- Morridge Formation - Mudstone, Siltstone And Sandstone
- Cadeby Formation - Dolostone
- Widmerpool Formation - Mudstone And Limestone, Interbedded
- Eyam Limestone Formation - Limestone
- Eyam Limestones Formation (Knoll-reef) - Limestone
- Chester Formation - Sandstone, Pebbly (Gravelly)
- Branscombe Mudstone Formation - Mudstone
- Chatsworth Grit - Sandstone
- Chester Formation - Sandstone And Conglomerate, Interbedded
- Tarporley Siltstone Formation - Mudstone And Siltstone
- Marsden Formation - Mudstone And Siltstone
- Helsby Sandstone Formation - Sandstone
- Fallgate Volcanic Formation - Tuff
- Gunthorpe Member - Mudstone
- Unnamed Sandstone Of Kinderscouthian Age (In Millstone Grit Group) - Sandstone
- Edlington Formation - Mudstone And Sandstone
- Edwalton Member - Mudstone
- Tarporley Siltstone Formation - Siltstone, Mudstone And Sandstone
- Rossendale Formation - Mudstone And Siltstone
- Rough Rock - Sandstone
- Cotgrave Sandstone Member - Sandstone
- Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Arden Sandstone Formation - Sandstone
- Moira Formation - Breccia
- EIA Scoping Section Lines

Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines

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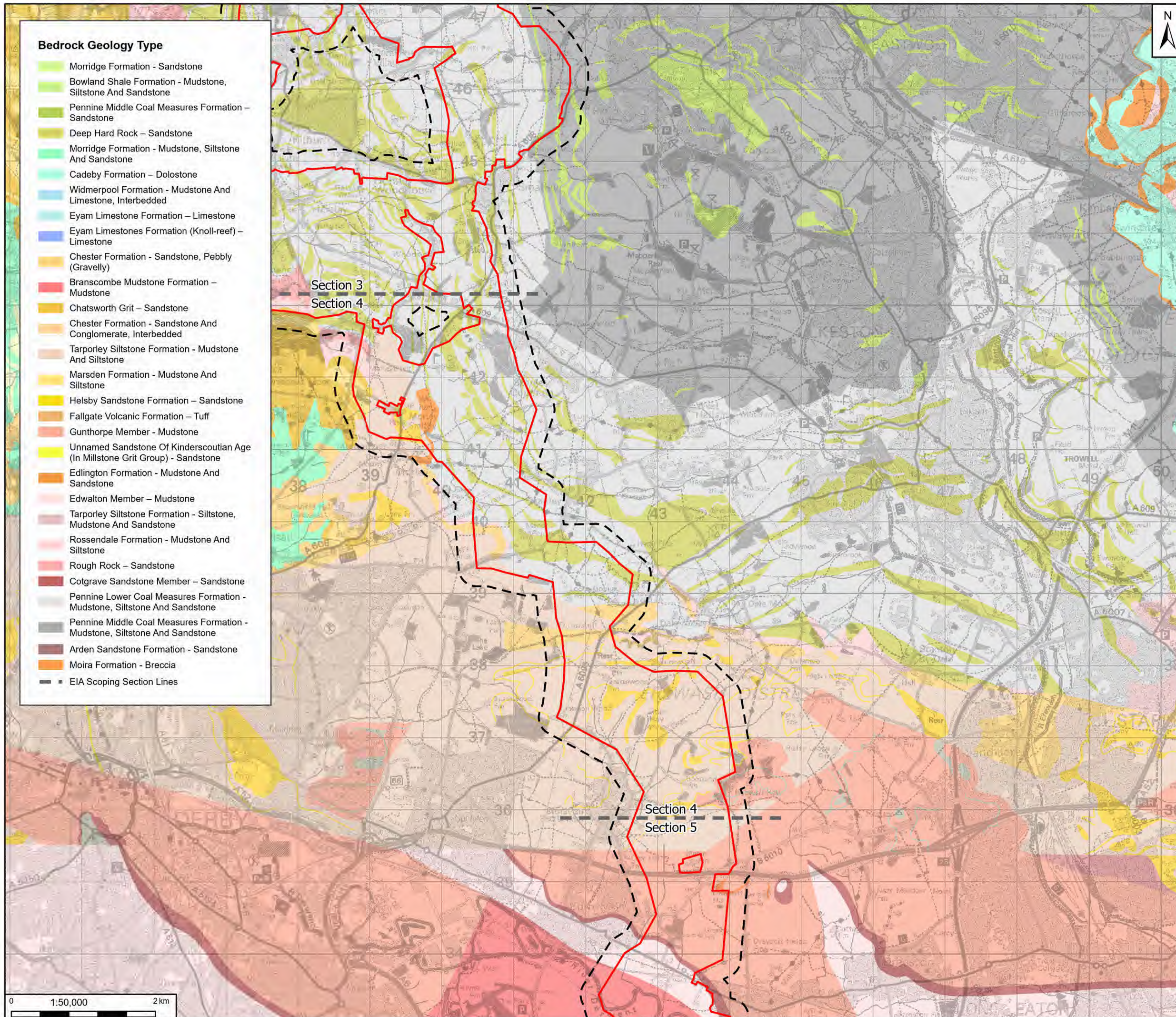
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Title: **Geology and Hydrogeology Figure 10.1 Bedrock Geology Page 3 of 5**

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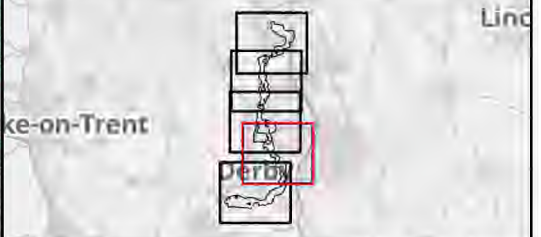


Bedrock Geology Type

- Morridge Formation - Sandstone
- Bowland Shale Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Sandstone
- Deep Hard Rock - Sandstone
- Morridge Formation - Mudstone, Siltstone And Sandstone
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- Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Arden Sandstone Formation - Sandstone
- Moira Formation - Breccia
- EIA Scoping Section Lines

- Legend**
- Scoping Boundary
 - 250 m Buffer
 - EIA Scoping Section Lines

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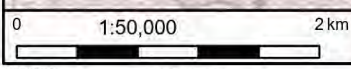
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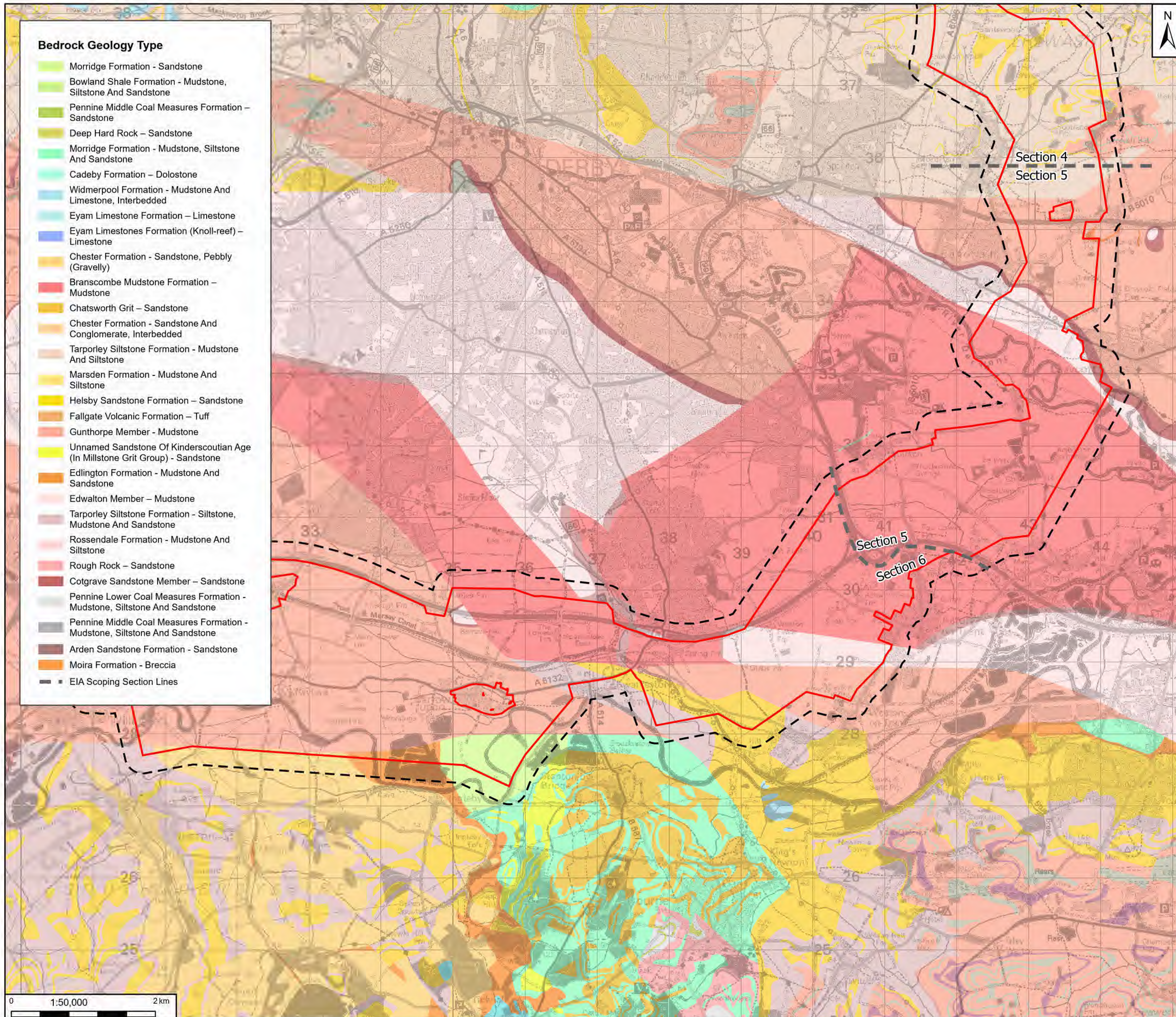
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Title: **Geology and Hydrogeology Figure 10.1 Bedrock Geology Page 4 of 5**

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Bedrock Geology Type

- Morridge Formation - Sandstone
- Bowland Shale Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Sandstone
- Deep Hard Rock - Sandstone
- Morridge Formation - Mudstone, Siltstone And Sandstone
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- Rough Rock - Sandstone
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- Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone
- Arden Sandstone Formation - Sandstone
- Moira Formation - Breccia
- EIA Scoping Section Lines

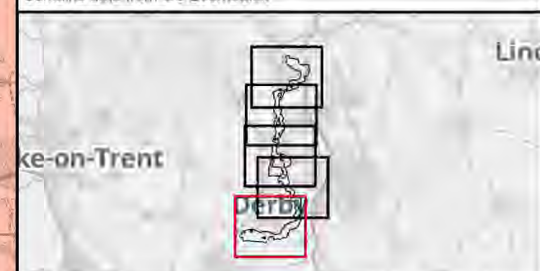
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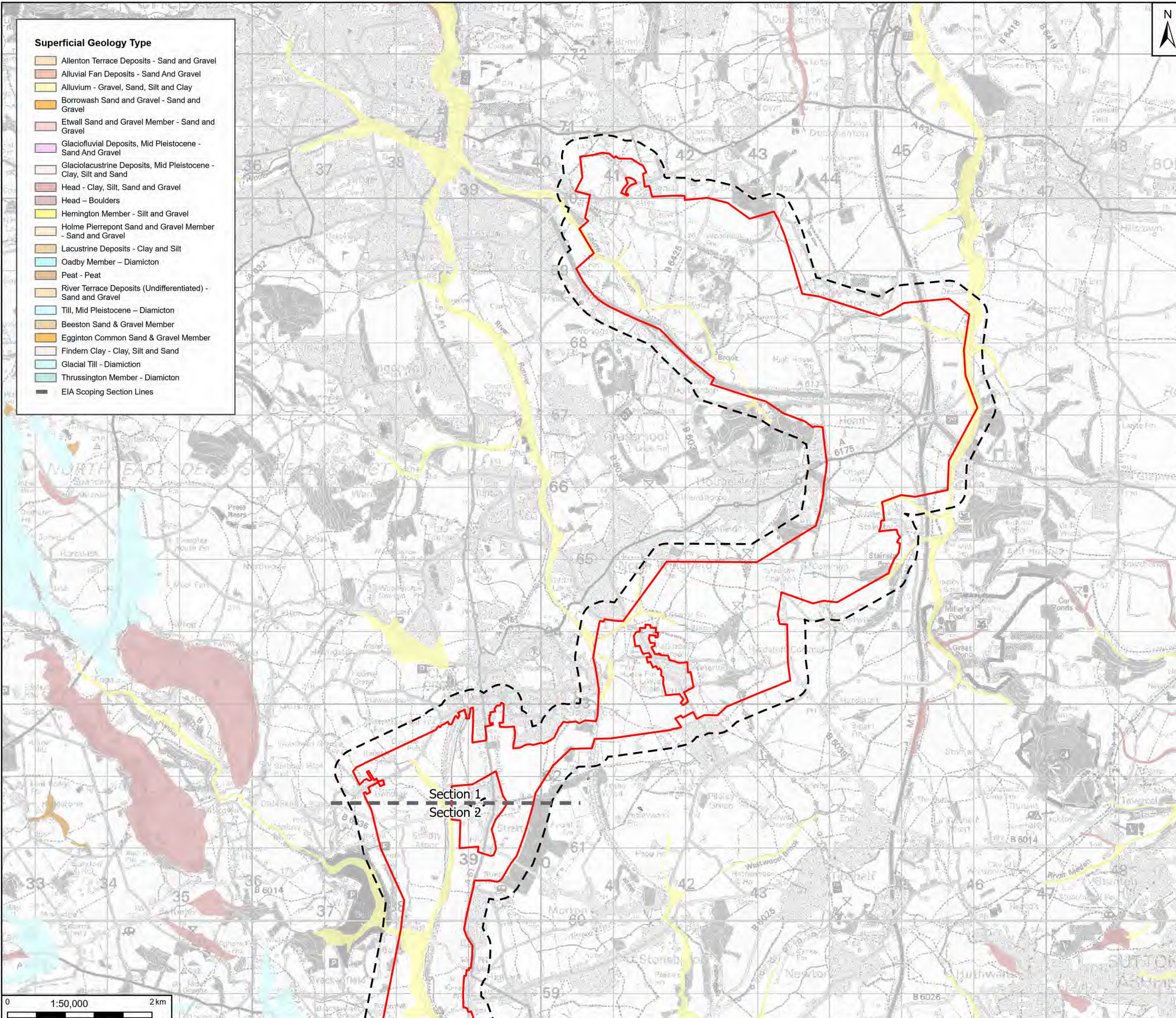
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Title: **Geology and Hydrogeology Figure 10.1 Bedrock Geology Page 5 of 5**

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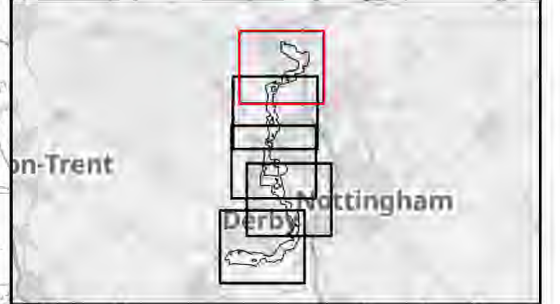
Superficial Geology Type

- Allenton Terrace Deposits - Sand and Gravel
- Alluvial Fan Deposits - Sand and Gravel
- Alluvium - Gravel, Sand, Silt and Clay
- Borrowwash Sand and Gravel - Sand and Gravel
- Etwell Sand and Gravel Member - Sand and Gravel
- Glaciofluvial Deposits, Mid Pleistocene - Sand and Gravel
- Glaciolacustrine Deposits, Mid Pleistocene - Clay, Silt and Sand
- Head - Clay, Silt, Sand and Gravel
- Head - Boulders
- Hemington Member - Silt and Gravel
- Holme Pierrepont Sand and Gravel Member - Sand and Gravel
- Lacustrine Deposits - Clay and Silt
- Oadby Member - Diamicton
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Sand and Gravel
- Till, Mid Pleistocene - Diamicton
- Beeston Sand & Gravel Member
- Egginton Common Sand & Gravel Member
- Findern Clay - Clay, Silt and Sand
- Glacial Till - Diamicton
- Thruslington Member - Diamicton
- EIA Scoping Section Lines

Legend

- Scoping Boundary
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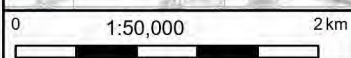
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 EC3M 4BY

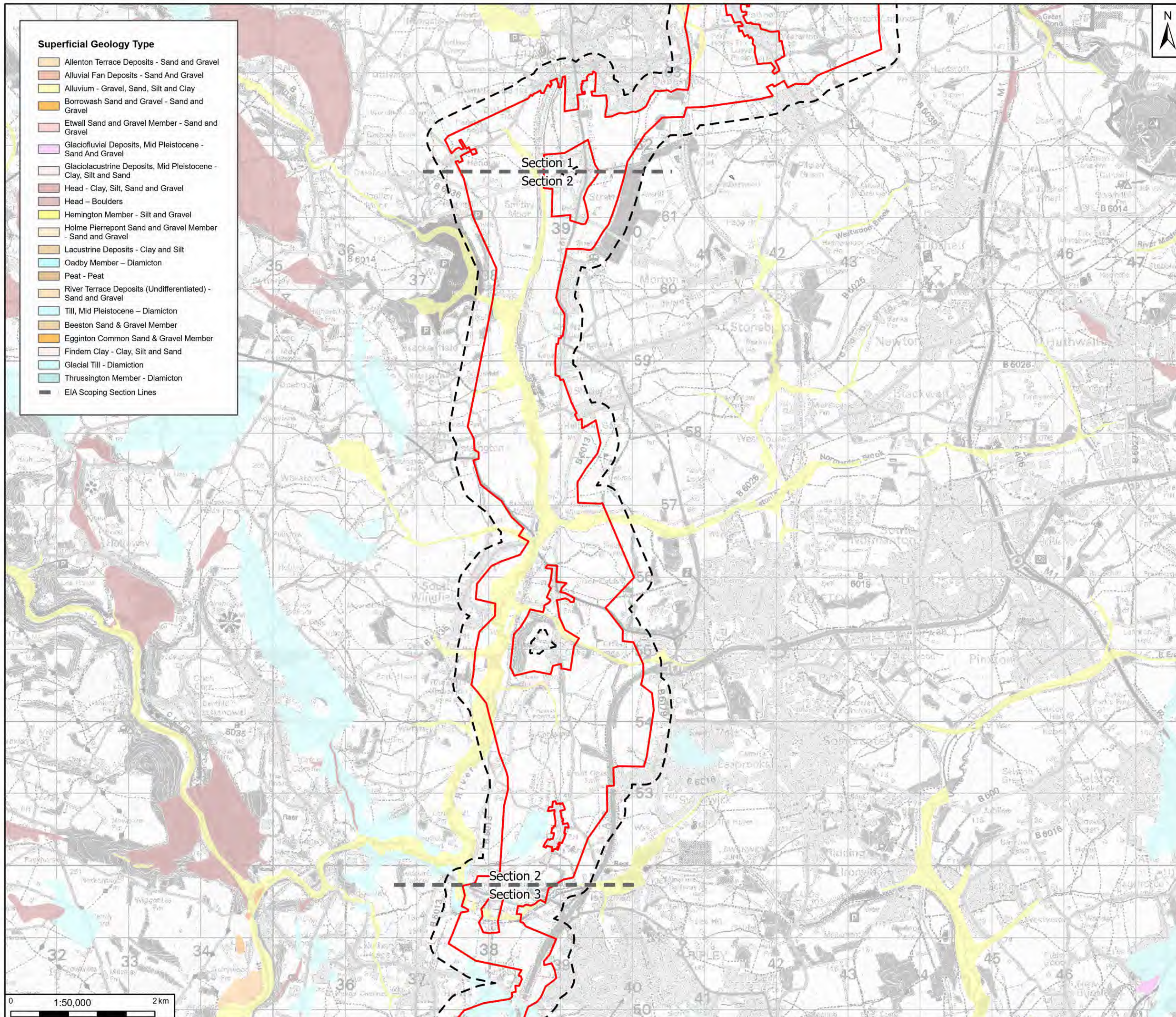
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Figure 10.2
Superficial Geology
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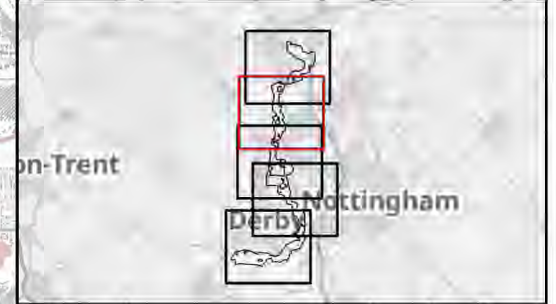


- Superficial Geology Type**
- Allenton Terrace Deposits - Sand and Gravel
 - Alluvial Fan Deposits - Sand and Gravel
 - Alluvium - Gravel, Sand, Silt and Clay
 - Borrowwash Sand and Gravel - Sand and Gravel
 - Etwell Sand and Gravel Member - Sand and Gravel
 - Glaciofluvial Deposits, Mid Pleistocene - Sand and Gravel
 - Glaciolacustrine Deposits, Mid Pleistocene - Clay, Silt and Sand
 - Head - Clay, Silt, Sand and Gravel
 - Head - Boulders
 - Hemington Member - Silt and Gravel
 - Holme Pierrepont Sand and Gravel Member - Sand and Gravel
 - Lacustrine Deposits - Clay and Silt
 - Oadby Member - Diamicton
 - Peat - Peat
 - River Terrace Deposits (Undifferentiated) - Sand and Gravel
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 - Egginton Common Sand & Gravel Member
 - Findern Clay - Clay, Silt and Sand
 - Glacial Till - Diamicton
 - Thruslington Member - Diamicton
 - EIA Scoping Section Lines

Legend

- Scoping Boundary
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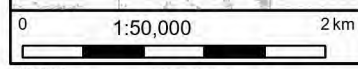
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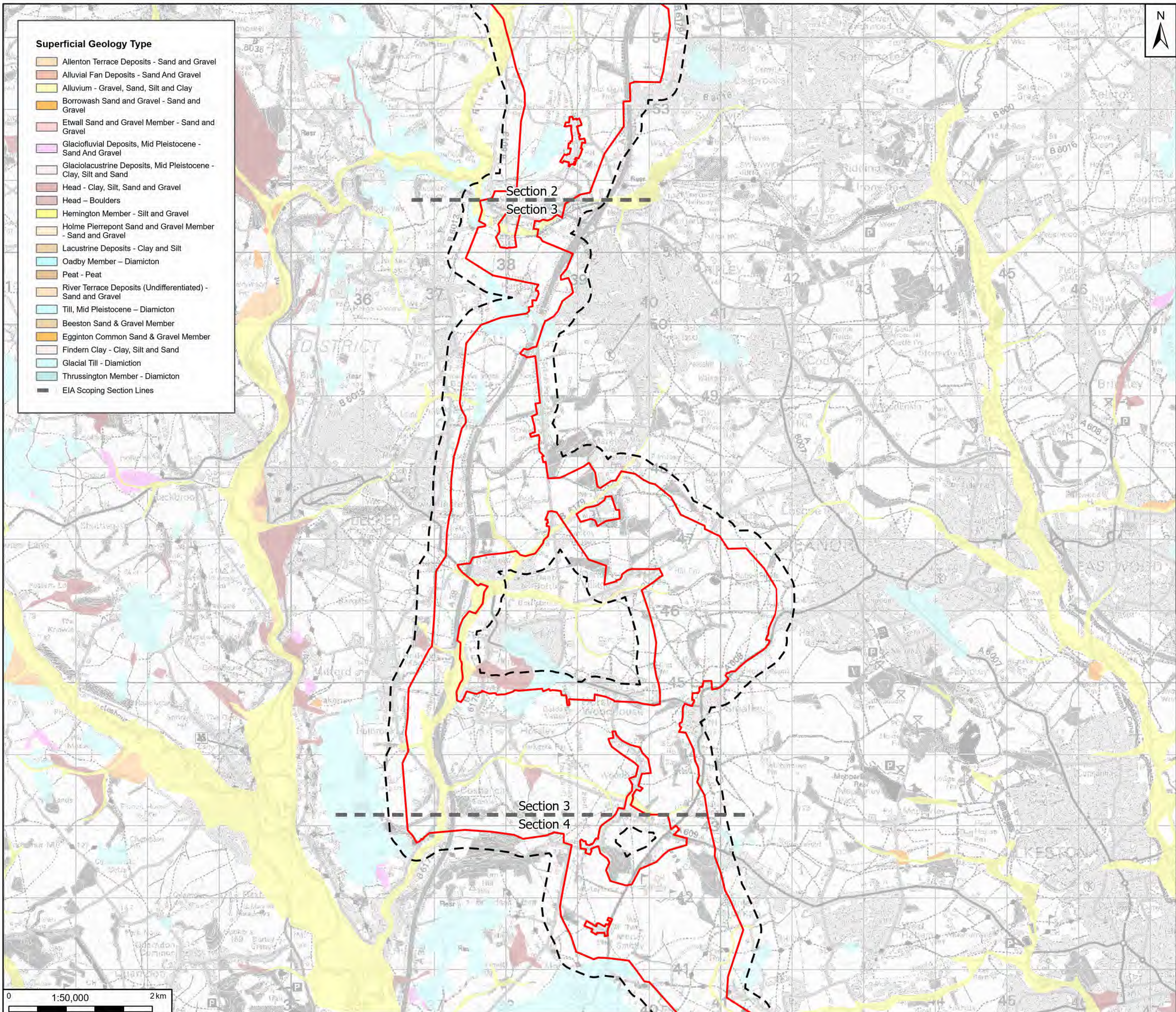
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Title: **Geology and Hydrogeology Figure 10.2 Superficial Geology Page 2 of 5**

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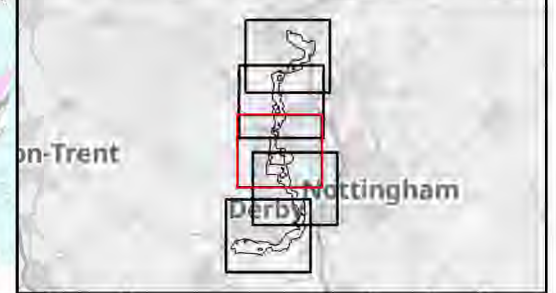
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- Allenton Terrace Deposits - Sand and Gravel
- Alluvial Fan Deposits - Sand And Gravel
- Alluvium - Gravel, Sand, Silt and Clay
- Borrowwash Sand and Gravel - Sand and Gravel
- Etwall Sand and Gravel Member - Sand and Gravel
- Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel
- Glaciolacustrine Deposits, Mid Pleistocene - Clay, Silt and Sand
- Head - Clay, Silt, Sand and Gravel
- Head - Boulders
- Hemington Member - Silt and Gravel
- Holme Pierrepont Sand and Gravel Member - Sand and Gravel
- Lacustrine Deposits - Clay and Silt
- Oadby Member - Diamicton
- Peat - Peat
- River Terrace Deposits (Undifferentiated) - Sand and Gravel
- Till, Mid Pleistocene - Diamicton
- Beeston Sand & Gravel Member
- Egginton Common Sand & Gravel Member
- Findern Clay - Clay, Silt and Sand
- Glacial Till - Diamicton
- Thrussington Member - Diamicton
- EIA Scoping Section Lines

Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines

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Rev	Date	Description	Drawn	Check	Approv

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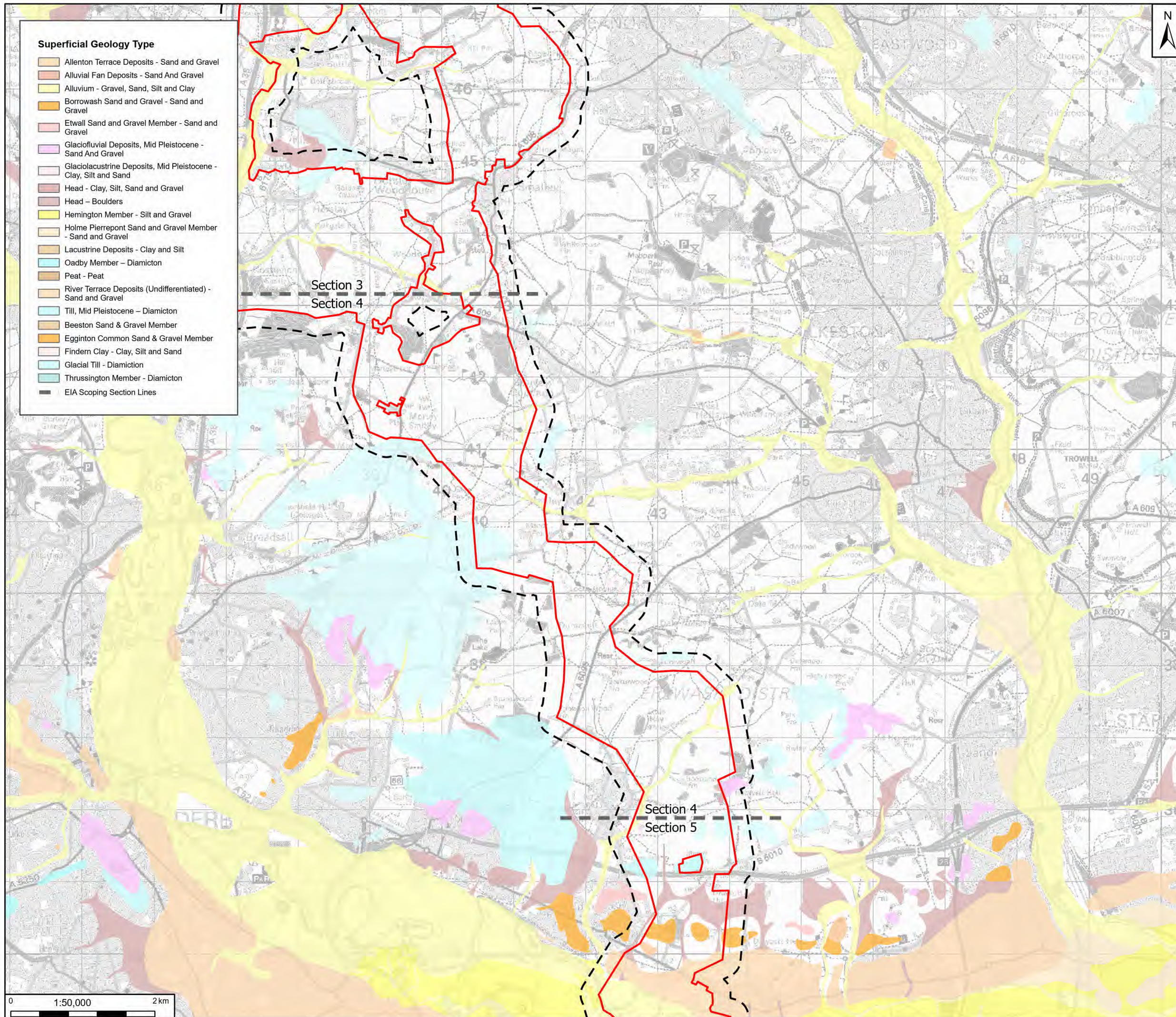
nationalgrid PROJECT: CHESTERFIELD TO WILLINGTON

Site _____ **Client** _____
 C2WE 1/3 Strain
 London WC2N 5EH

Registered office: 80 Fenchurch Street, London EC3M 4BY
 Coordinating Office: 1 Whitehall Riverside, Leeds LS1 4BN
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Title: **Geology and Hydrogeology**
Figure 10.2
Superficial Geology
 Page 3 of 5

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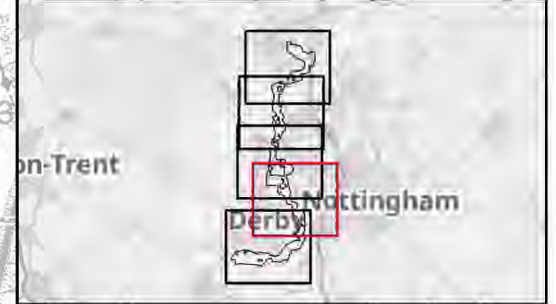


- Superficial Geology Type**
- Allenton Terrace Deposits - Sand and Gravel
 - Alluvial Fan Deposits - Sand And Gravel
 - Alluvium - Gravel, Sand, Silt and Clay
 - Borrowwash Sand and Gravel - Sand and Gravel
 - Etwell Sand and Gravel Member - Sand and Gravel
 - Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel
 - Glaciolacustrine Deposits, Mid Pleistocene - Clay, Silt and Sand
 - Head - Clay, Silt, Sand and Gravel
 - Head - Boulders
 - Hemington Member - Silt and Gravel
 - Holme Pierrepont Sand and Gravel Member - Sand and Gravel
 - Lacustrine Deposits - Clay and Silt
 - Oadby Member - Diamicton
 - Peat - Peat
 - River Terrace Deposits (Undifferentiated) - Sand and Gravel
 - Till, Mid Pleistocene - Diamicton
 - Beeston Sand & Gravel Member
 - Egginton Common Sand & Gravel Member
 - Findern Clay - Clay, Silt and Sand
 - Glacial Till - Diamicton
 - Thruslington Member - Diamicton
 - EIA Scoping Section Lines

Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines

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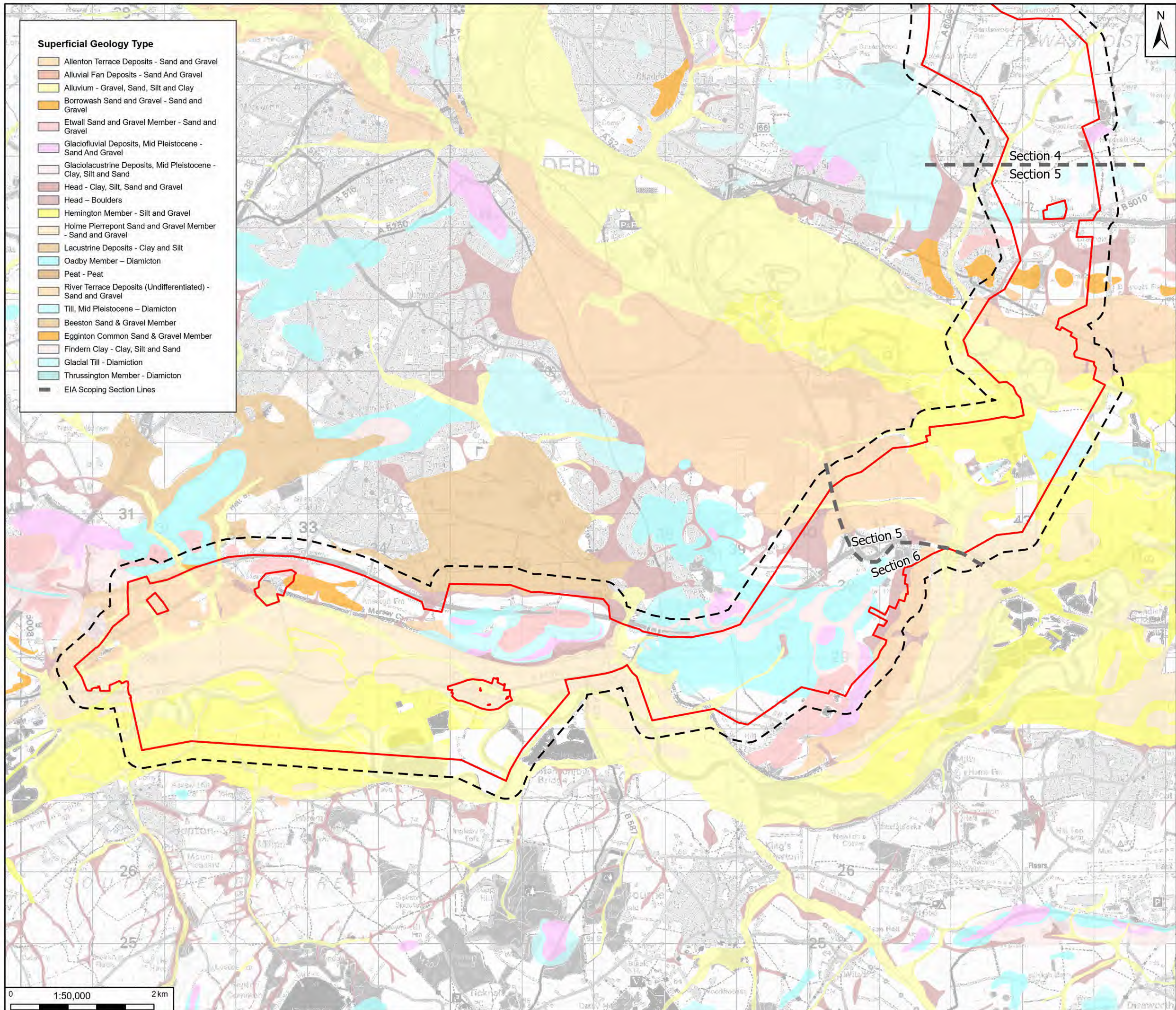
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Title: **Geology and Hydrogeology Figure 10.2 Superficial Geology Page 4 of 5**

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Suitability Description: For Information			
Drawing Number:	30199581-ARC-EGN-ZZ-DR-ZZ-00052-S2	Revision:	P01

0 1:50,000 2 km



- Superficial Geology Type**
- Allenton Terrace Deposits - Sand and Gravel
 - Alluvial Fan Deposits - Sand And Gravel
 - Alluvium - Gravel, Sand, Silt and Clay
 - Borrowwash Sand and Gravel - Sand and Gravel
 - Etwall Sand and Gravel Member - Sand and Gravel
 - Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel
 - Glaciolacustrine Deposits, Mid Pleistocene - Clay, Silt and Sand
 - Head - Clay, Silt, Sand and Gravel
 - Head - Boulders
 - Hemington Member - Silt and Gravel
 - Holme Pierrepoint Sand and Gravel Member - Sand and Gravel
 - Lacustrine Deposits - Clay and Silt
 - Oadby Member - Diamicton
 - Peat - Peat
 - River Terrace Deposits (Undifferentiated) - Sand and Gravel
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 - Egginton Common Sand & Gravel Member
 - Findern Clay - Clay, Silt and Sand
 - Glacial Till - Diamicton
 - Thrussington Member - Diamicton
 - EIA Scoping Section Lines

- Legend**
- Scoping Boundary
 - 250 m Buffer
 - EIA Scoping Section Lines

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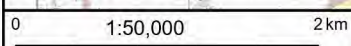
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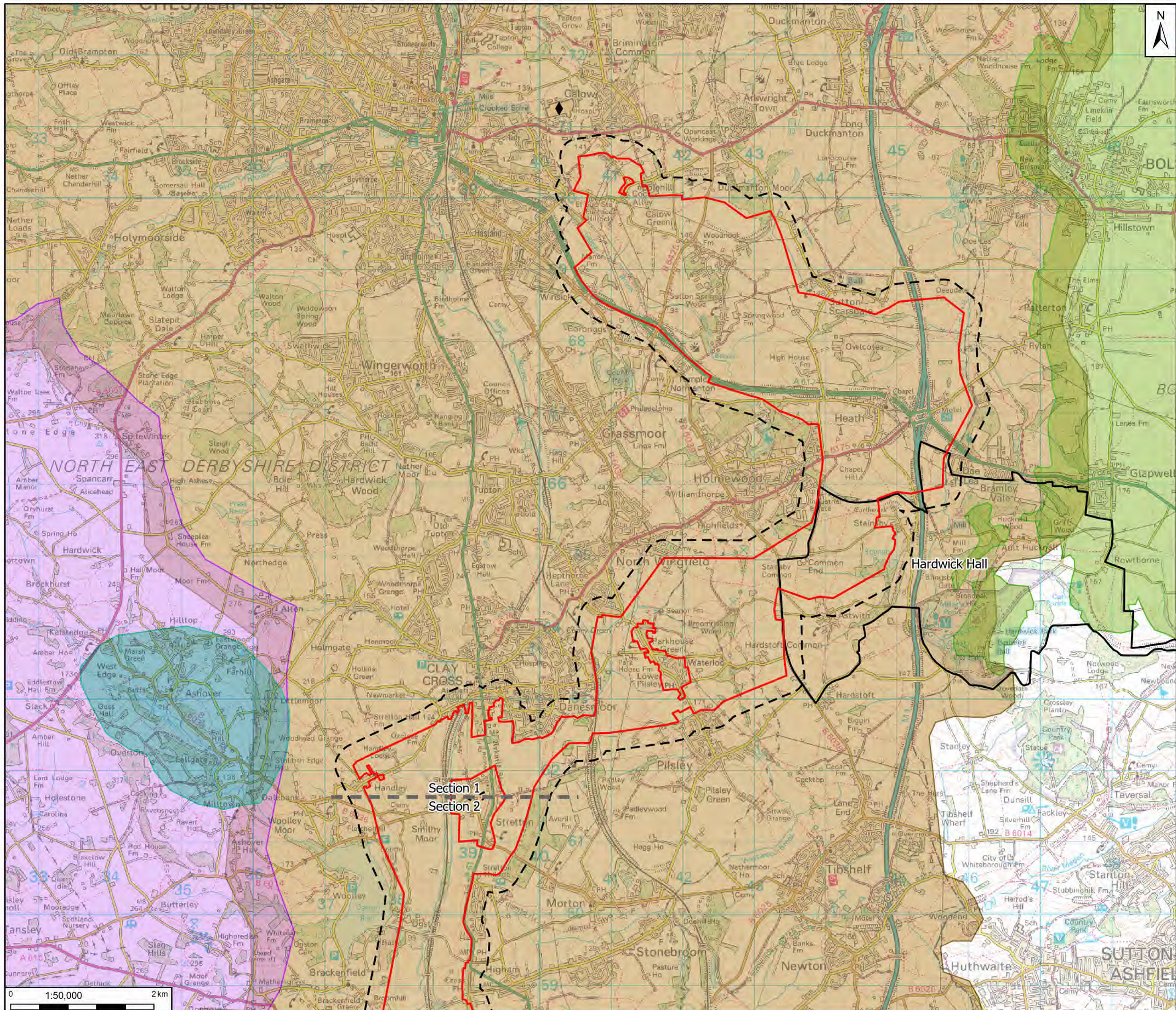
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Title: Geology and Hydrogeology
 Figure 10.2
 Superficial Geology
 Page 5 of 5

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Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines
- Calow Gas
- Proposed Opencast Constraint Area

Mineral Safeguarding Areas

- Carboniferous Limestone
- Permian Limestone
- Sandstone/ Gritstone
- Surface Coal

Notes
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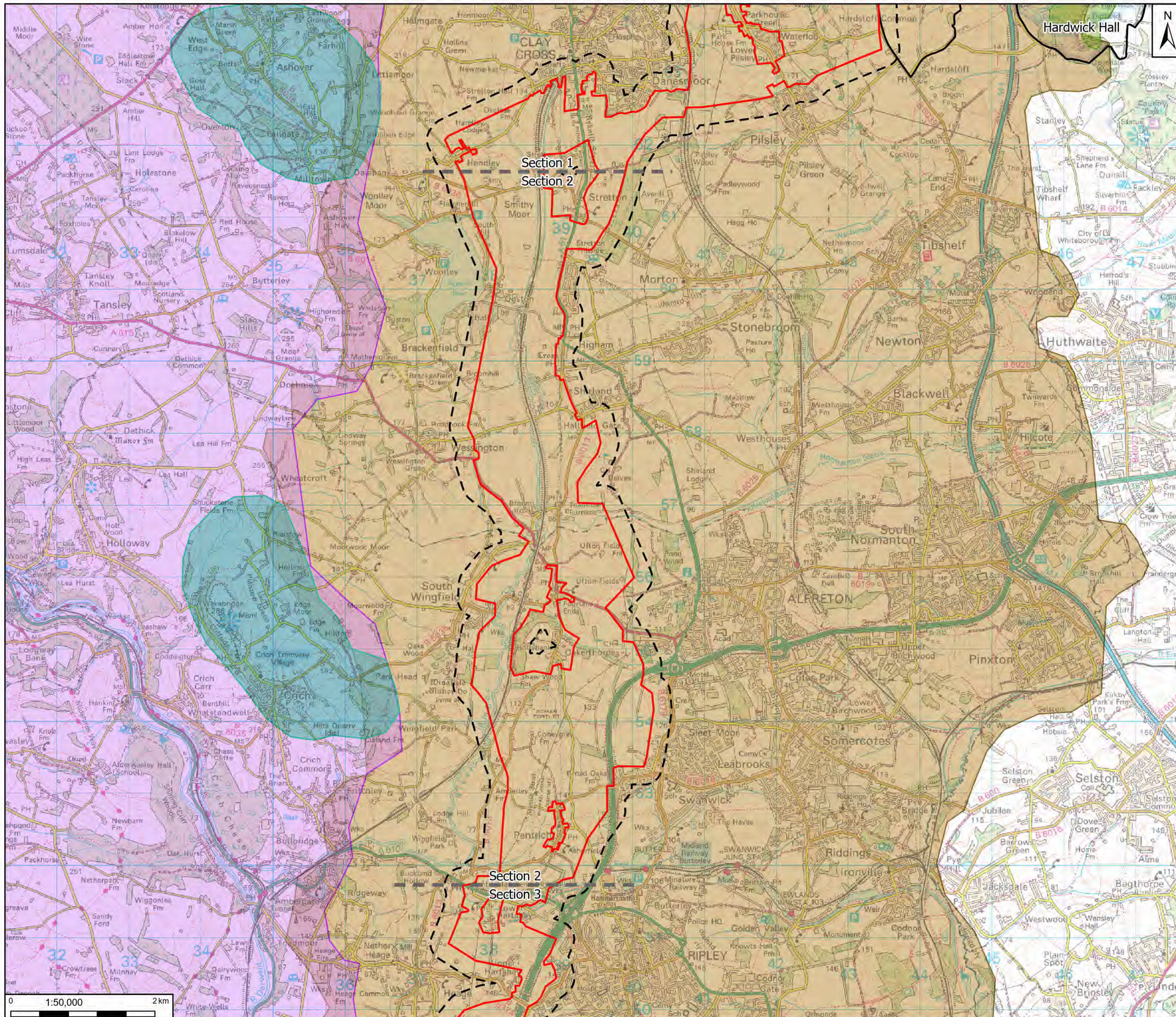
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Title: **Geology and Hydrogeology Figure 10.3 Mineral Resources Page 1 of 5**

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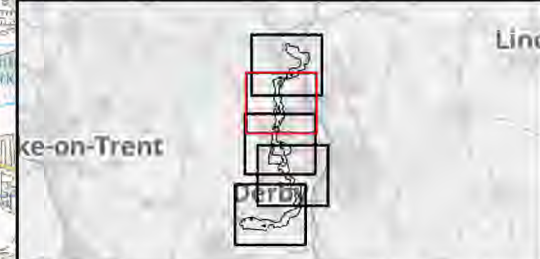
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- Proposed Opencast Constraint Area

Mineral Safeguarding Areas

- Carboniferous Limestone
- Permian Limestone
- Sandstone/ Gritstone
- Surface Coal

Notes

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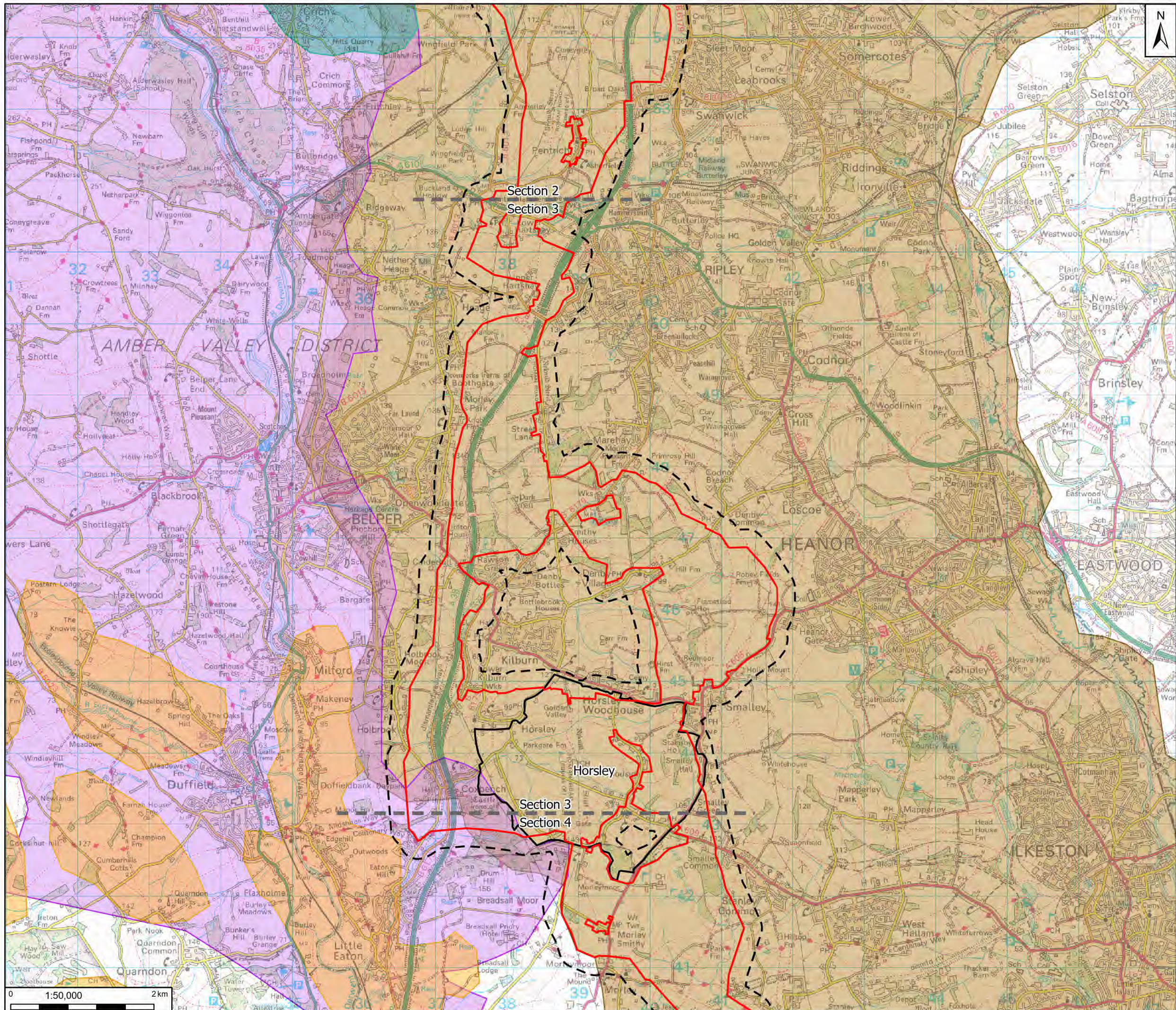
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Title: **Geology and Hydrogeology Figure 10.3 Mineral Resources Page 2 of 5**

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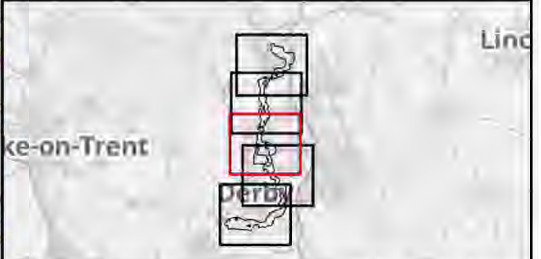
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- 250 m Buffer
- EIA Scoping Section Lines
- Proposed Opencast Constraint Area

Mineral Safeguarding Areas

- Carboniferous Limestone
- Sand and Gravel
- Sandstone/ Gritstone
- Surface Coal

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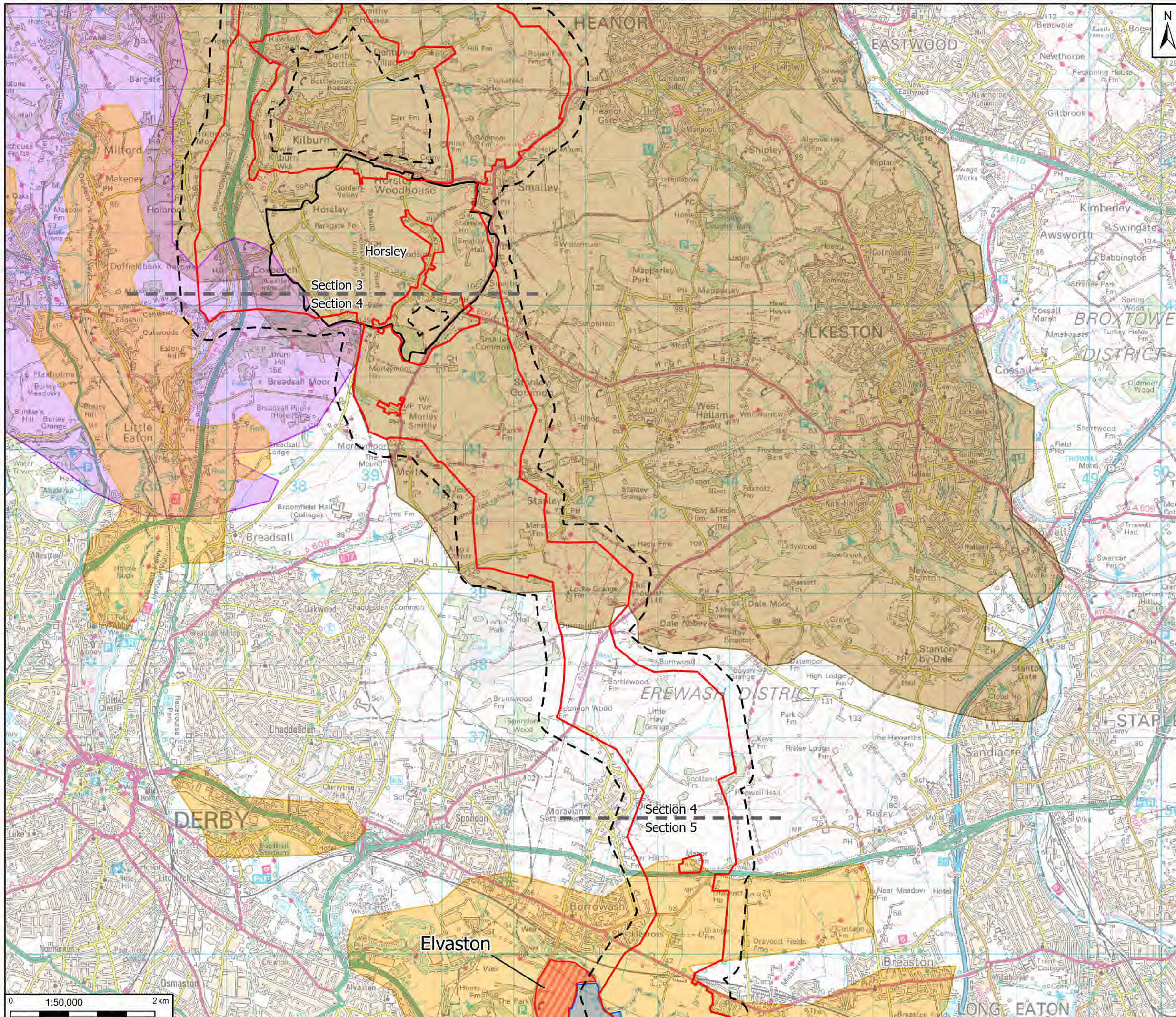
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Title: **Geology and Hydrogeology Figure 10.3 Mineral Resources Page 3 of 5**

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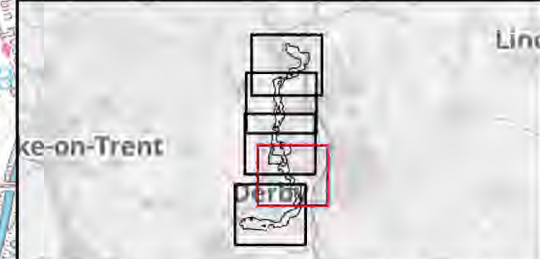
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- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines
- Proposed Opencast Constraint Area
- Allocated Area
- Existing Permitted Area

Mineral Safeguarding Areas

- Sand and Gravel
- Sandstone/ Gritstone
- Surface Coal

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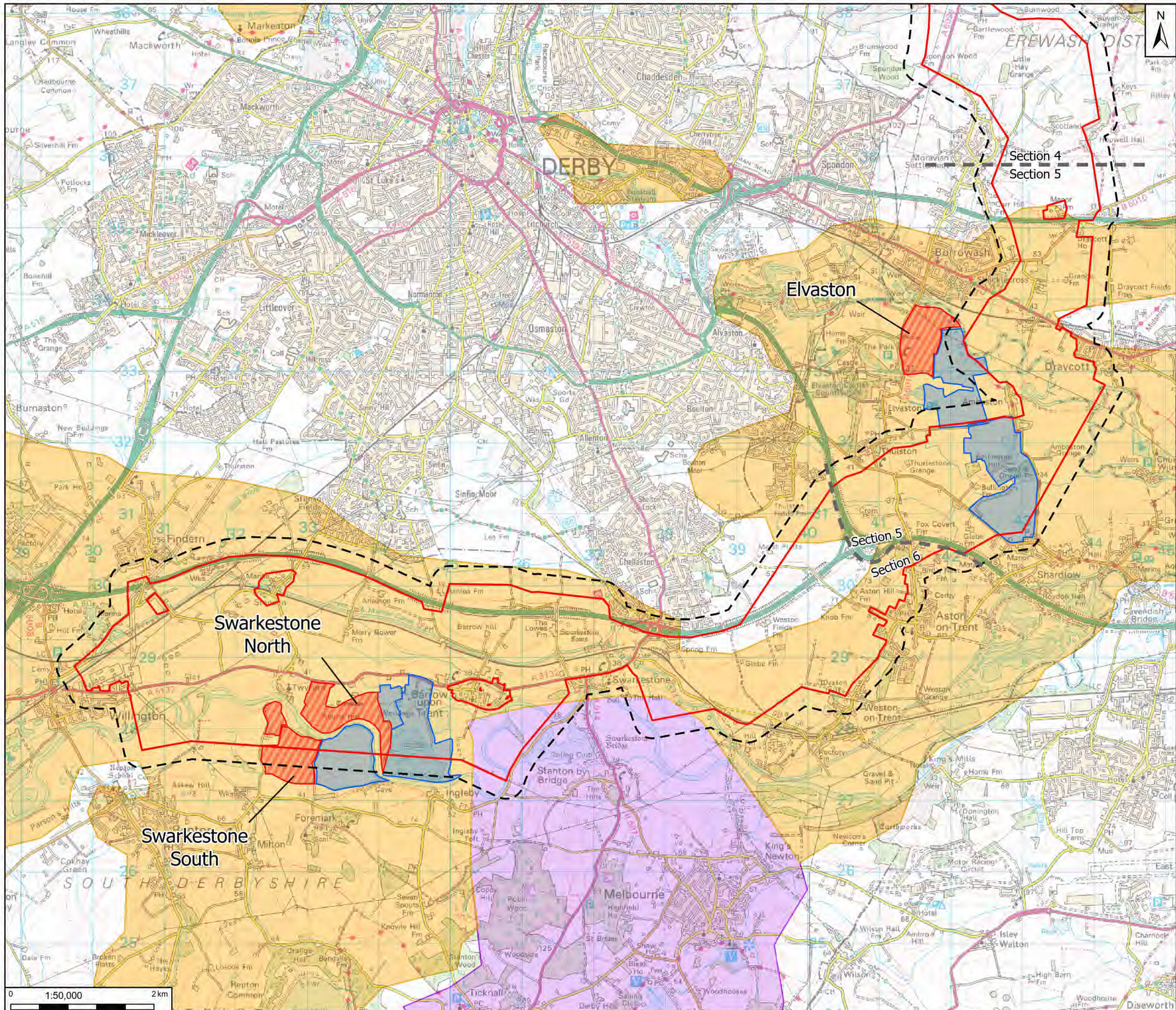
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Title: **Geology and Hydrogeology Figure 10.3 Mineral Resources Page 4 of 5**

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0 1:50,000 2km



Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines
- Allocated Area
- Existing Permitted Area

Mineral Safeguarding Areas

- Sand and Gravel
- Sandstone/ Gritstone
- Surface Coal

Notes

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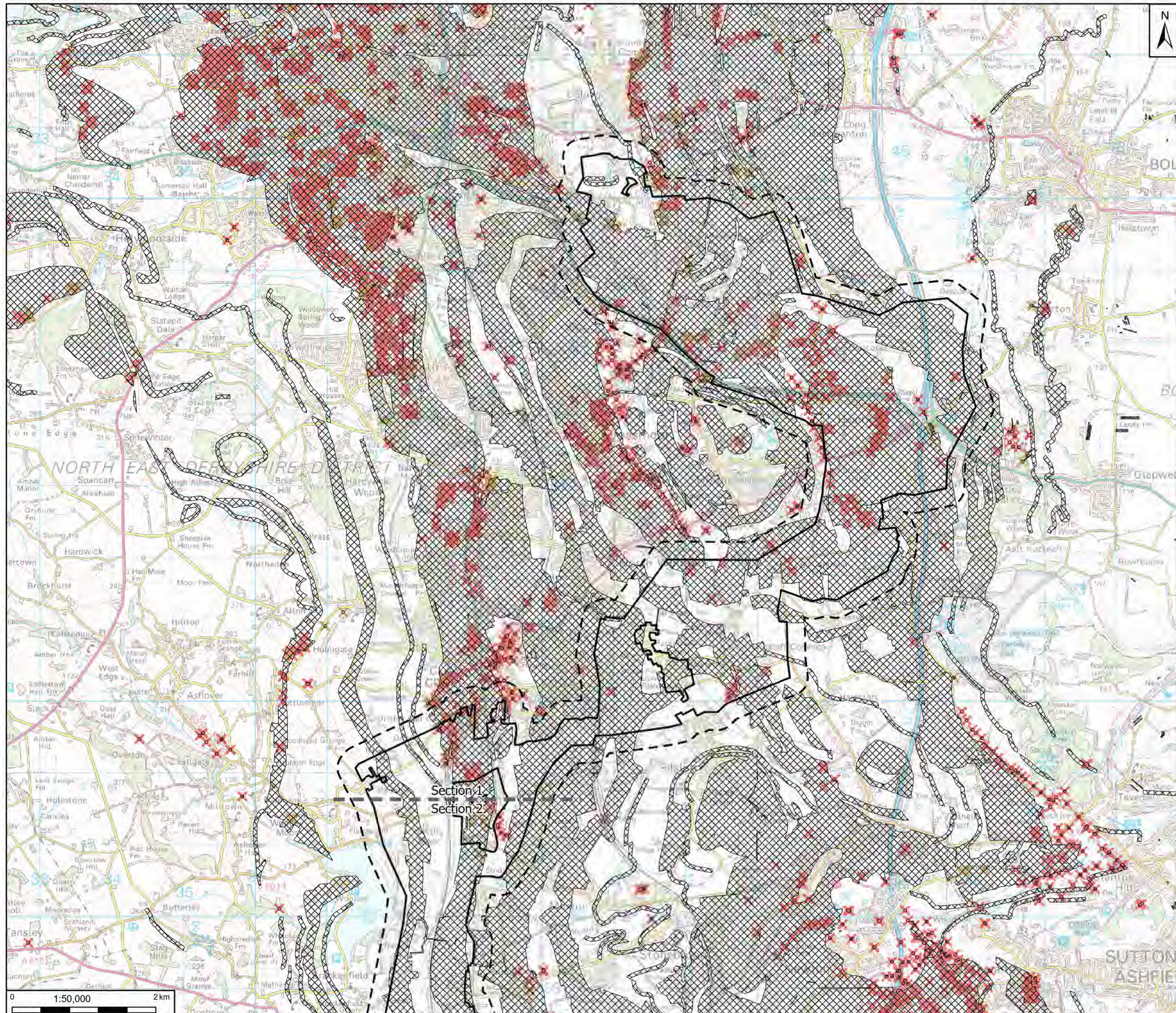
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Title: **Geology and Hydrogeology Figure 10.3 Mineral Resources Page 5 of 5**

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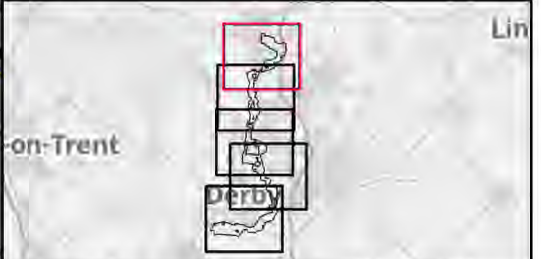
- Scoping Boundary
- 250 m Buffer
- High Development Risk Area

Coal Mine Entry

- Adit
- Shaft

Notes

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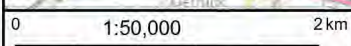
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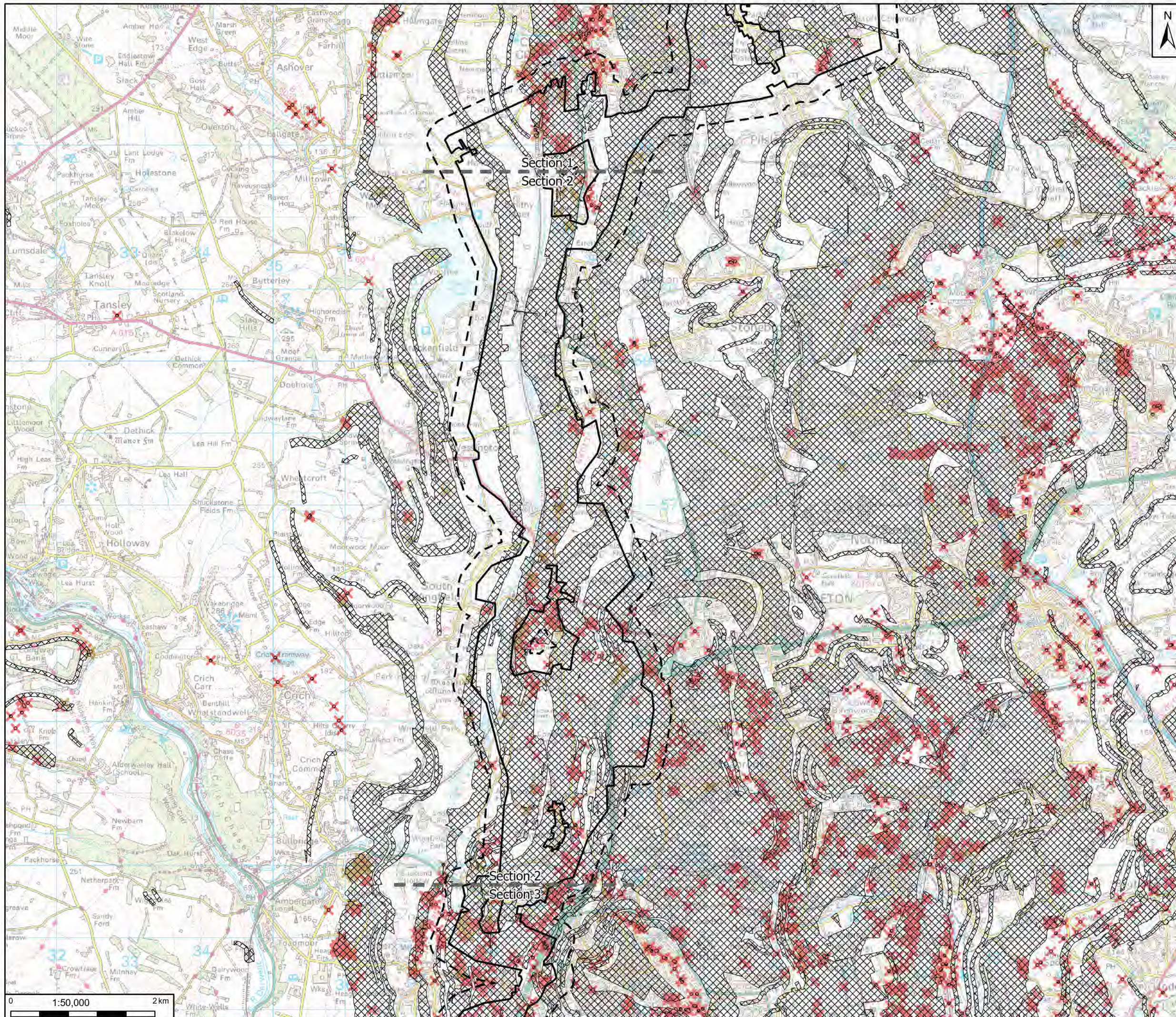
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Figure 10.4
Coal Mining
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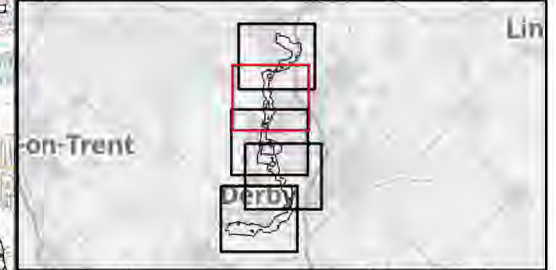
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- High Development Risk Area

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- Shaft

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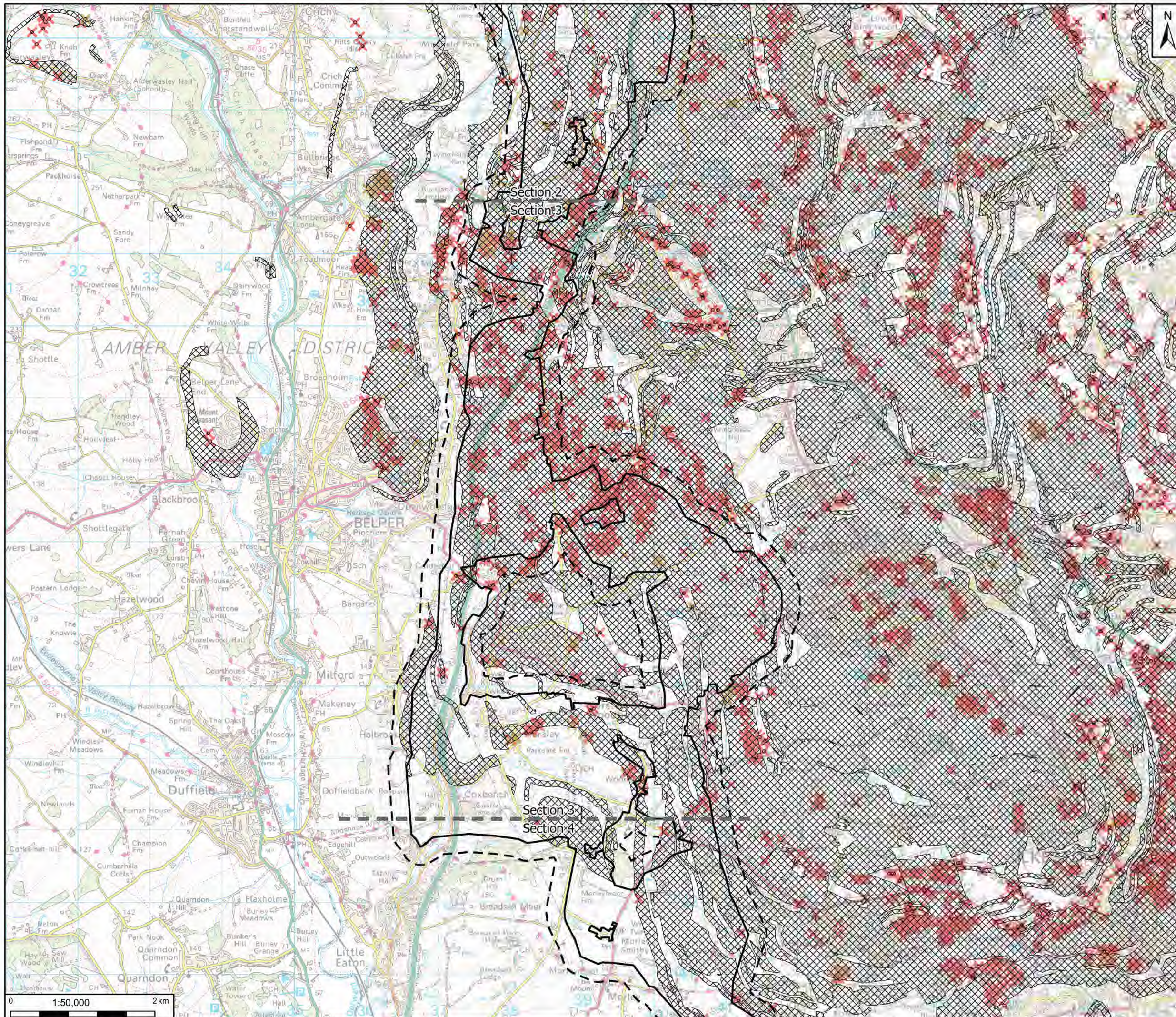
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Title: **Geology and Hydrogeology**
Figure 10.4
Coal Mining
Page 2 of 5

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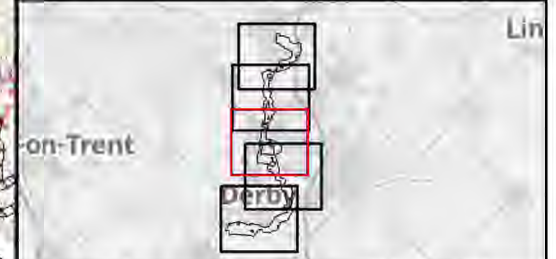
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- 250 m Buffer
- High Development Risk Area

Coal Mine Entry

- Adit
- Shaft

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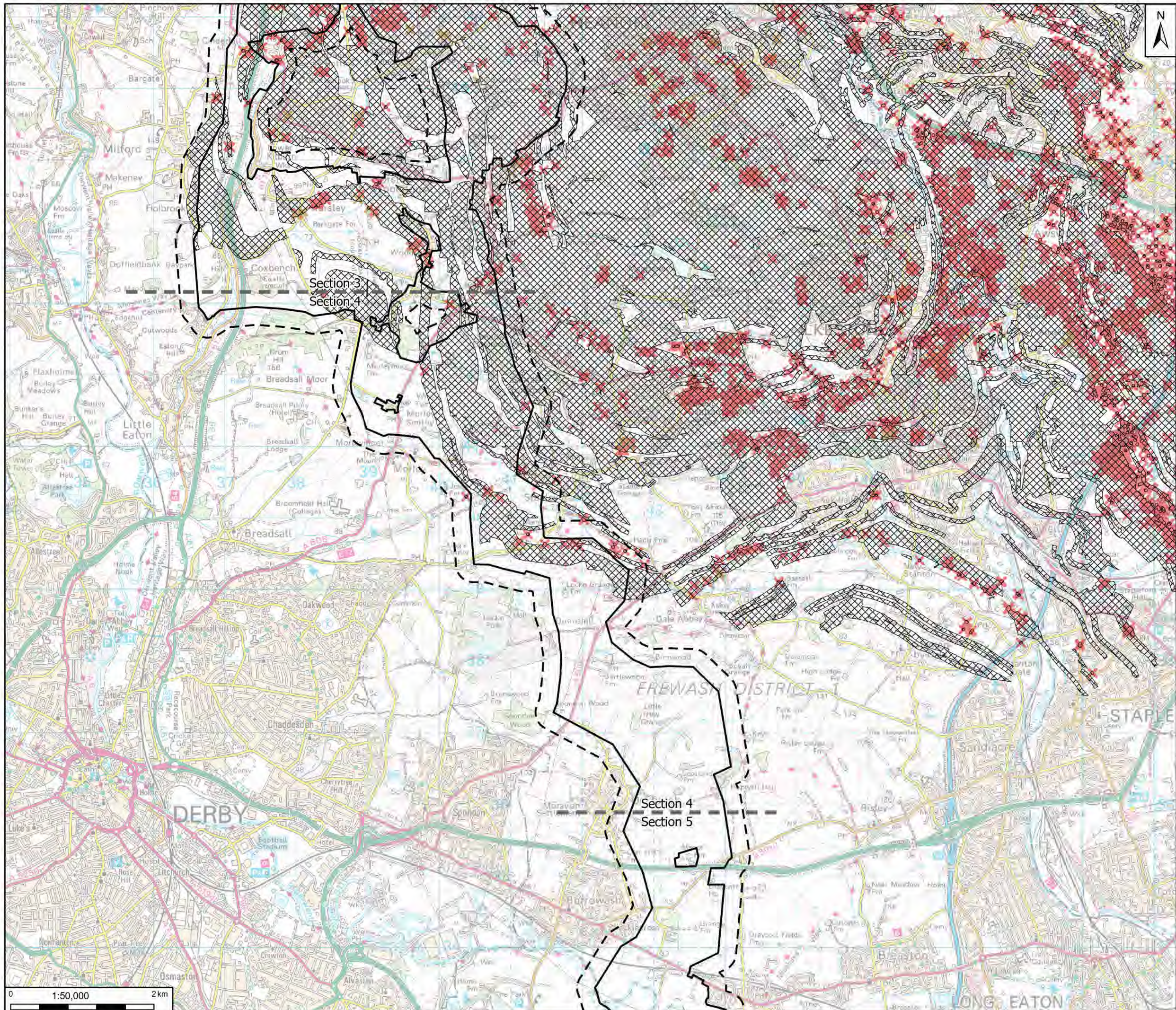
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Title: **Geology and Hydrogeology**
Figure 10.4
Coal Mining
Page 3 of 5

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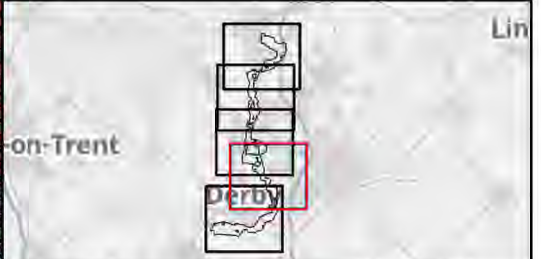
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- High Development Risk Area

Coal Mine Entry

- Adit
- Shaft

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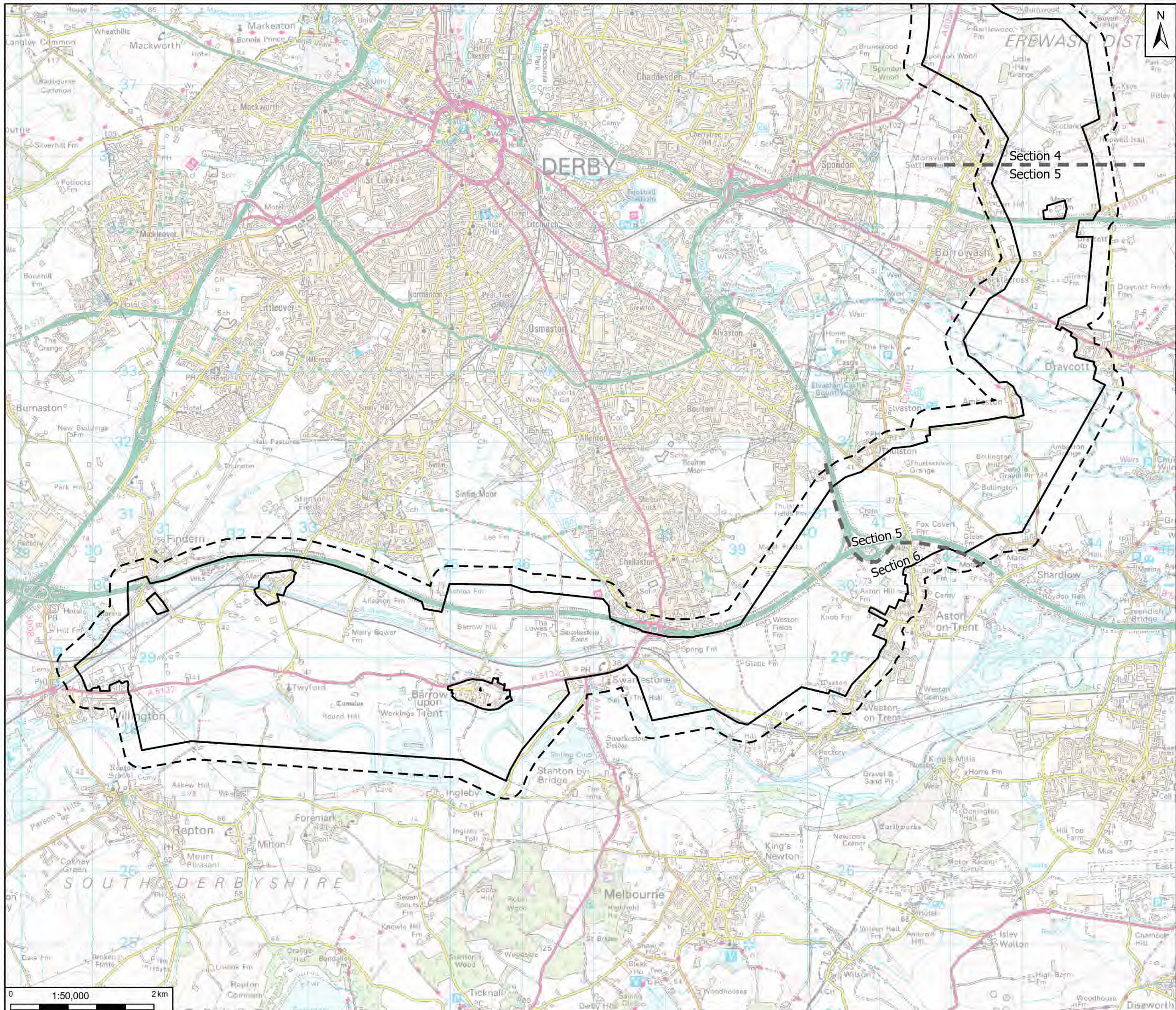
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Title: **Geology and Hydrogeology
 Figure 10.4
 Coal Mining
 Page 4 of 5**

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- Scoping Boundary
- 250 m Buffer
- High Development Risk Area

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WC2N 5EH

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EC3M 4BY

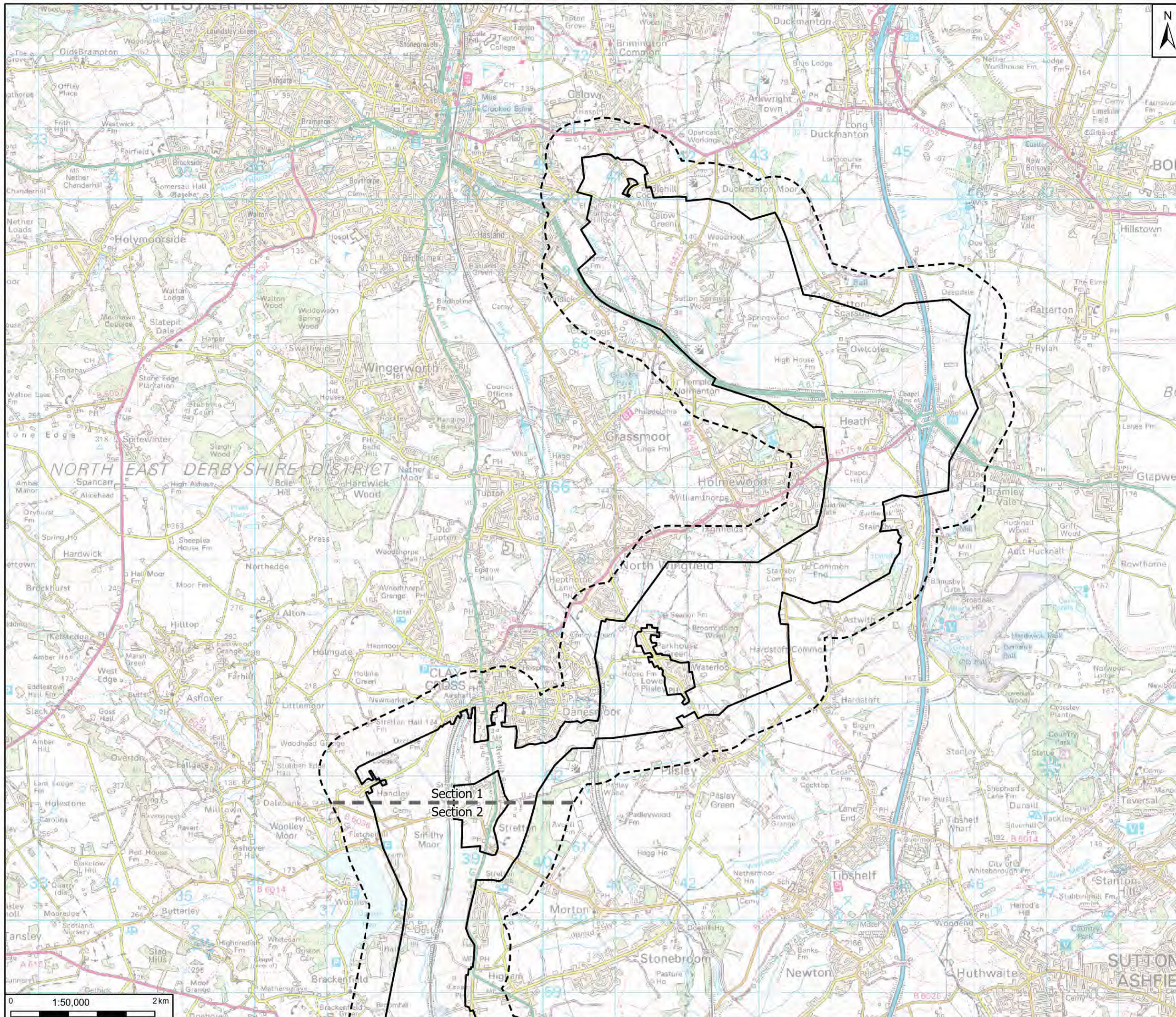
Coordinating Office:
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Title:

Geology and Hydrogeology
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Coal Mining
Page 5 of 5

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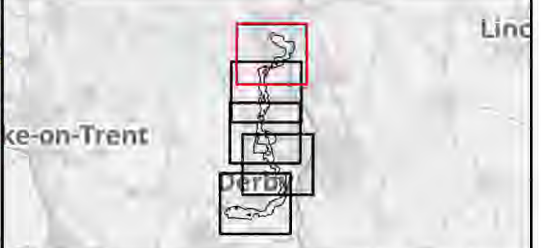


Legend

- Scoping Boundary
- 500 m Buffer
- EIA Scoping Section Lines

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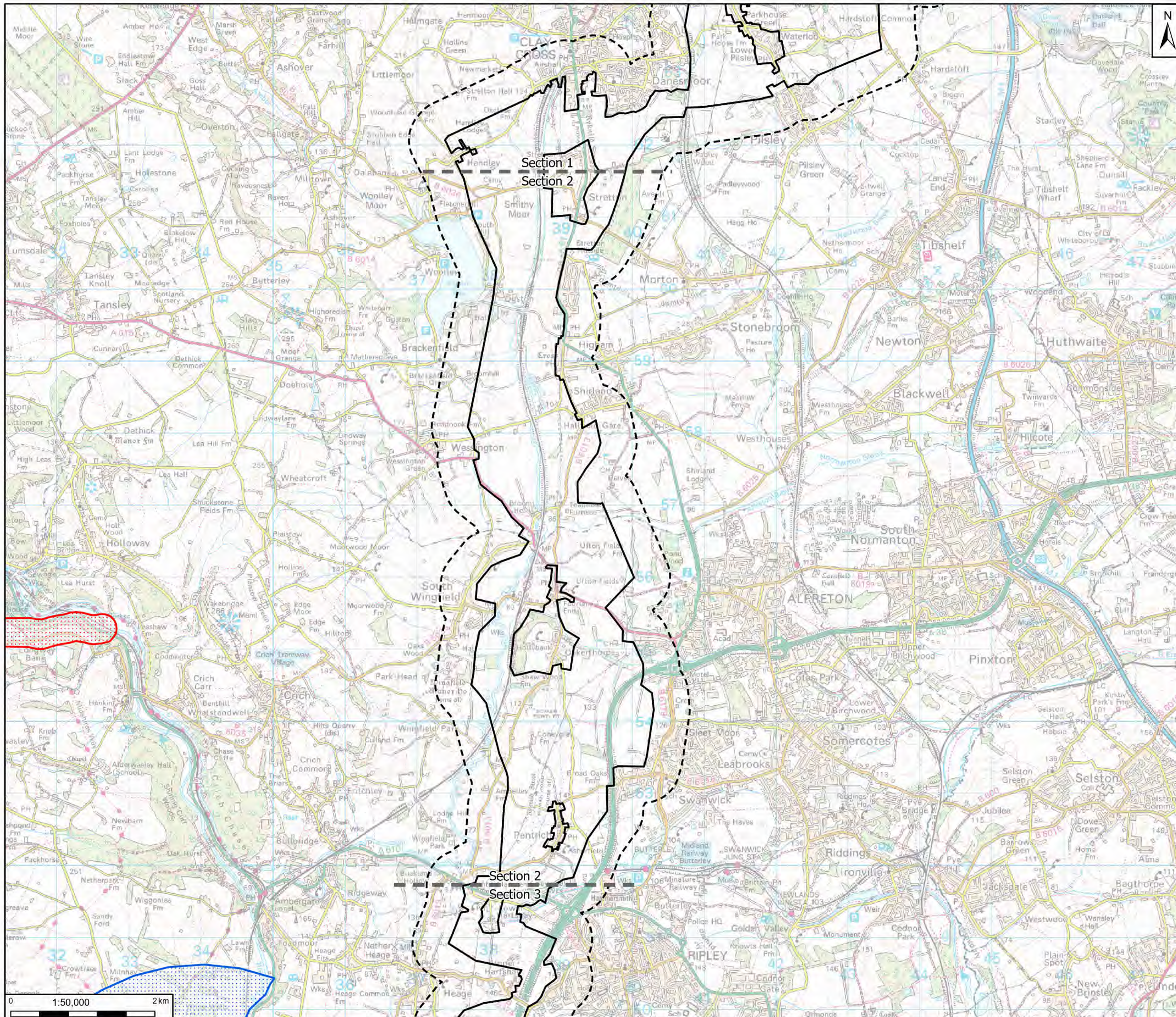
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Title: **Geology and Hydrogeology
 Figure 10.5
 Groundwater Vulnerability
 Page 1 of 5**

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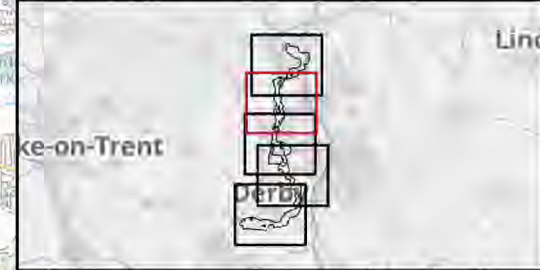
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Source Protection Zones (SPZ)

- Zone I - Inner Protection Zone
- Zone III - Total Catchment

Notes

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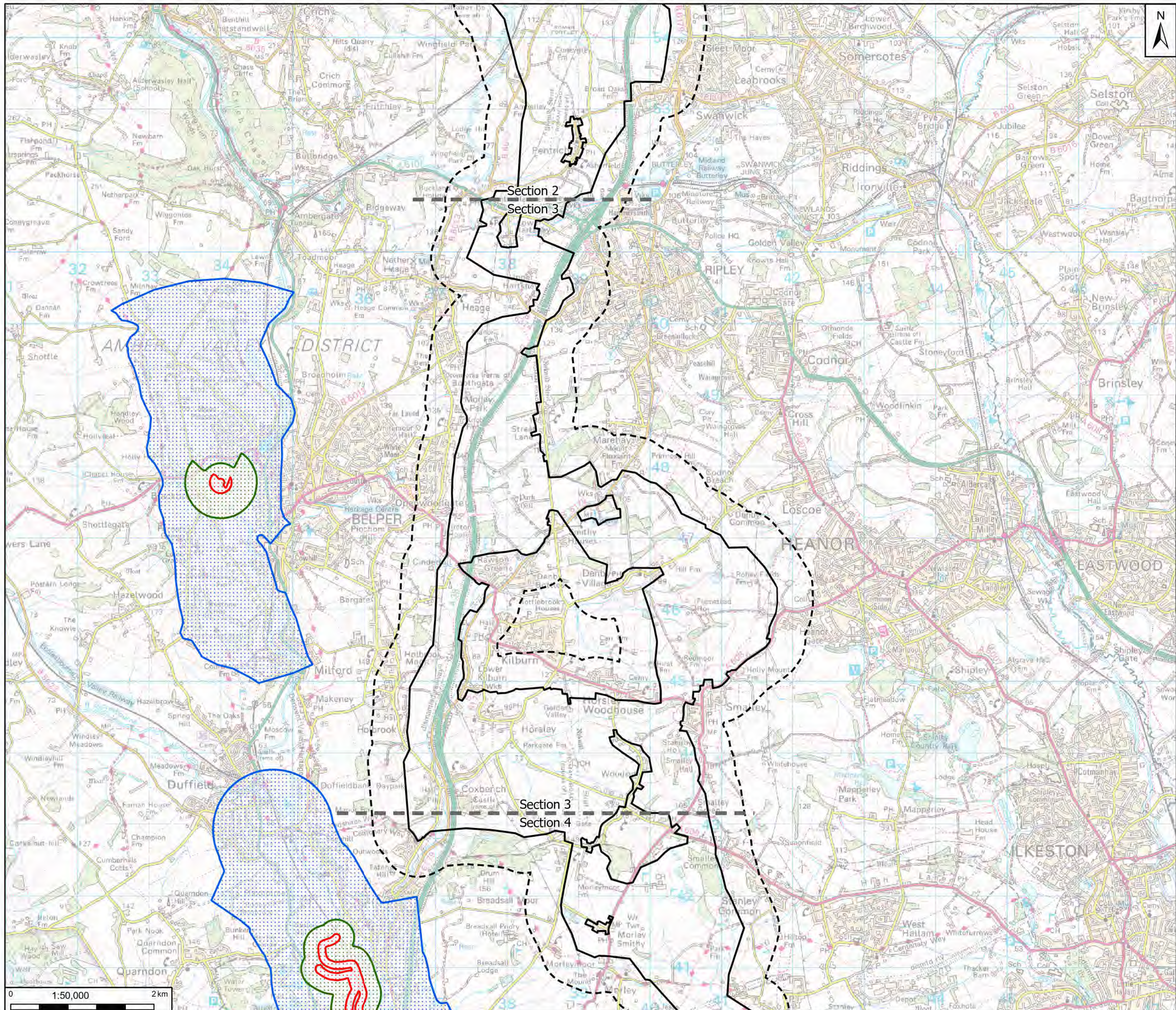
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Title: **Geology and Hydrogeology**
Figure 10.5
Groundwater Vulnerability
 Page 2 of 5

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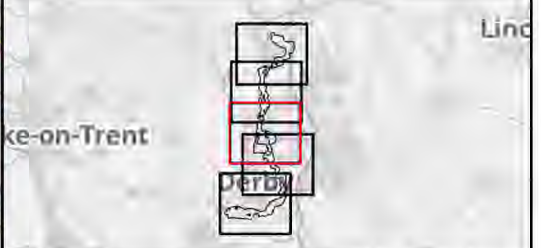
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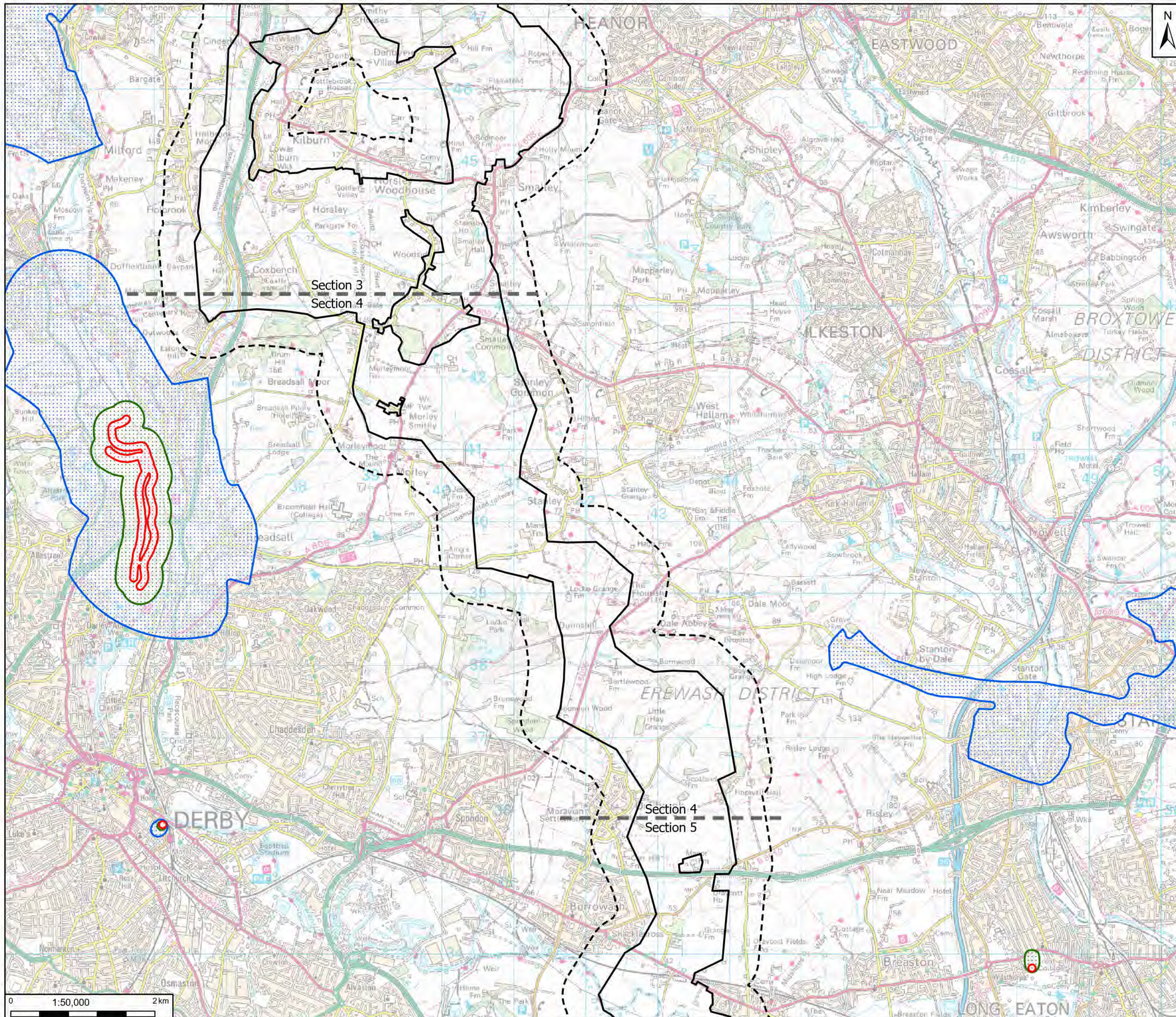
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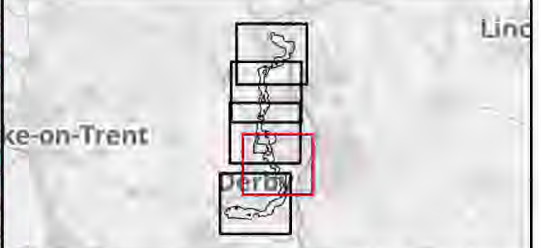
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 Figure 10.5
 Groundwater Vulnerability
 Page 3 of 5

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- Legend**
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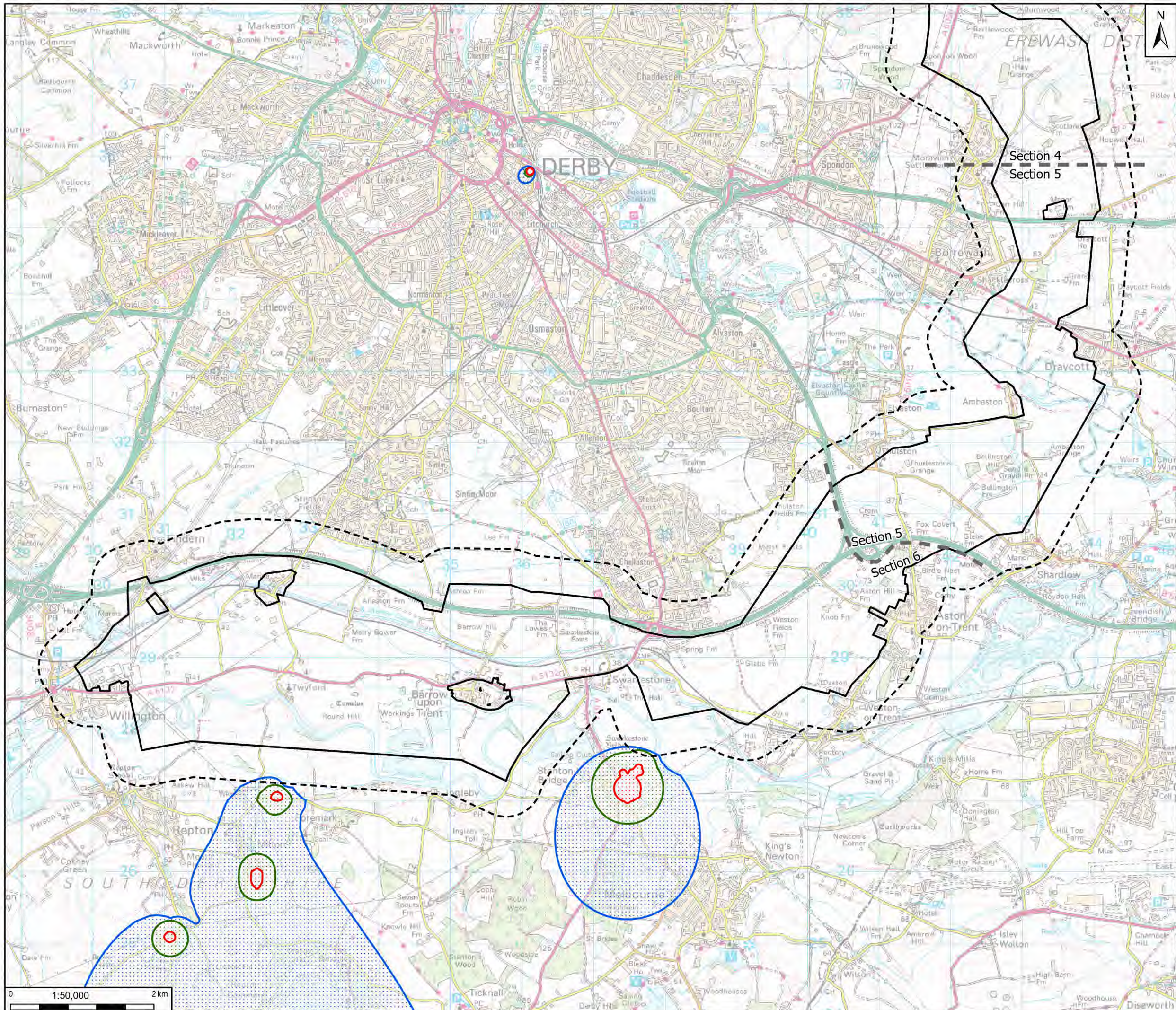
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Legend

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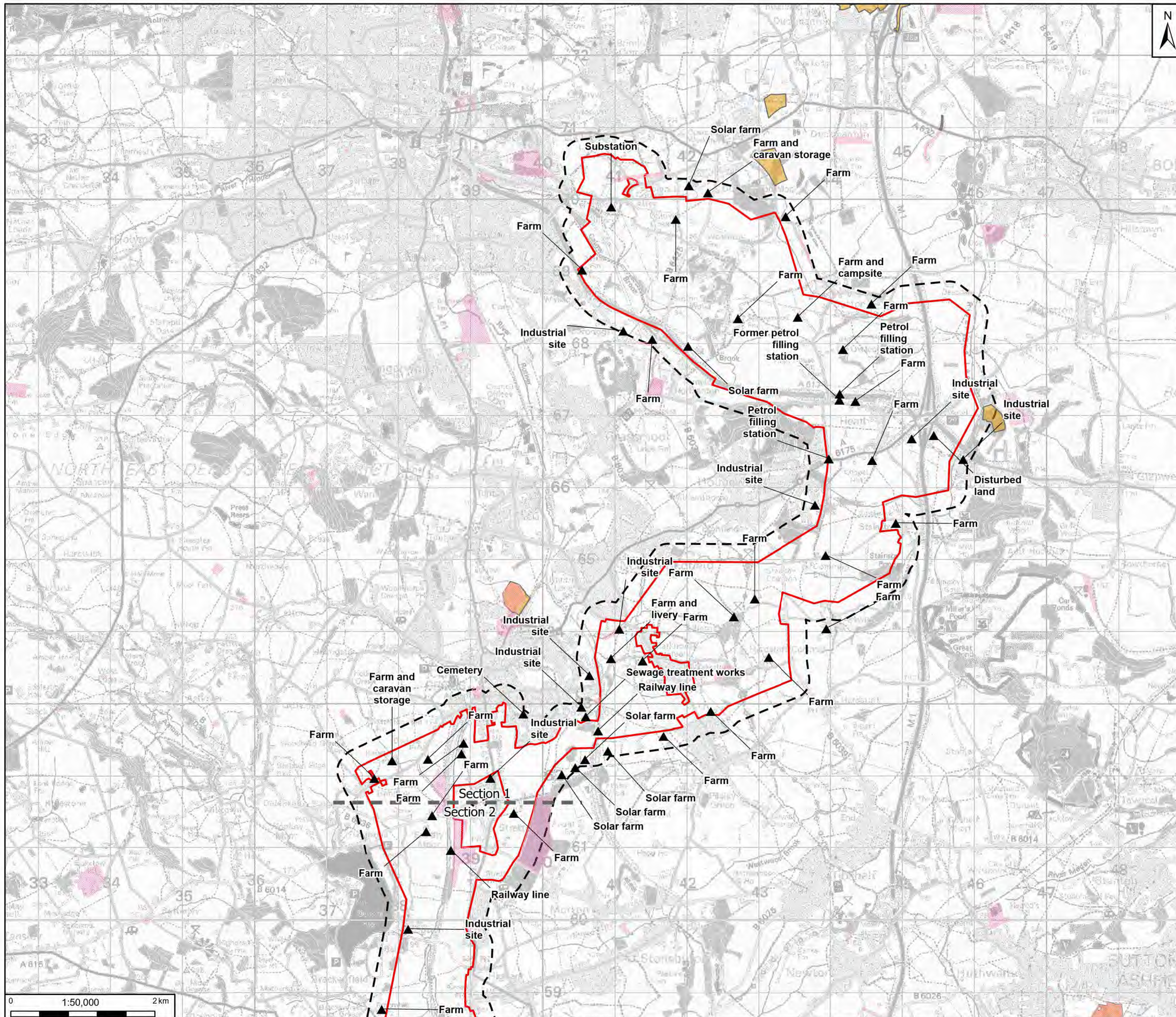
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Figure 10.5
Groundwater Vulnerability
 Page 5 of 5

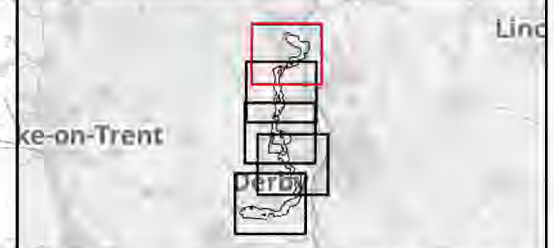
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Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines
- ▲ Potential Contaminative Land Uses
- Authorised Landfill Sites
- Historic Landfill Sites

Notes
 Potential sources of contamination within the study area have been identified from the review of contemporary and historical online mapping. These will be considered further in the development of the Conceptual Site Model for the Project.
 Current and Historical Potential Sources of Contamination have been identified from reviewing current publicly available mapping and aerial imagery.
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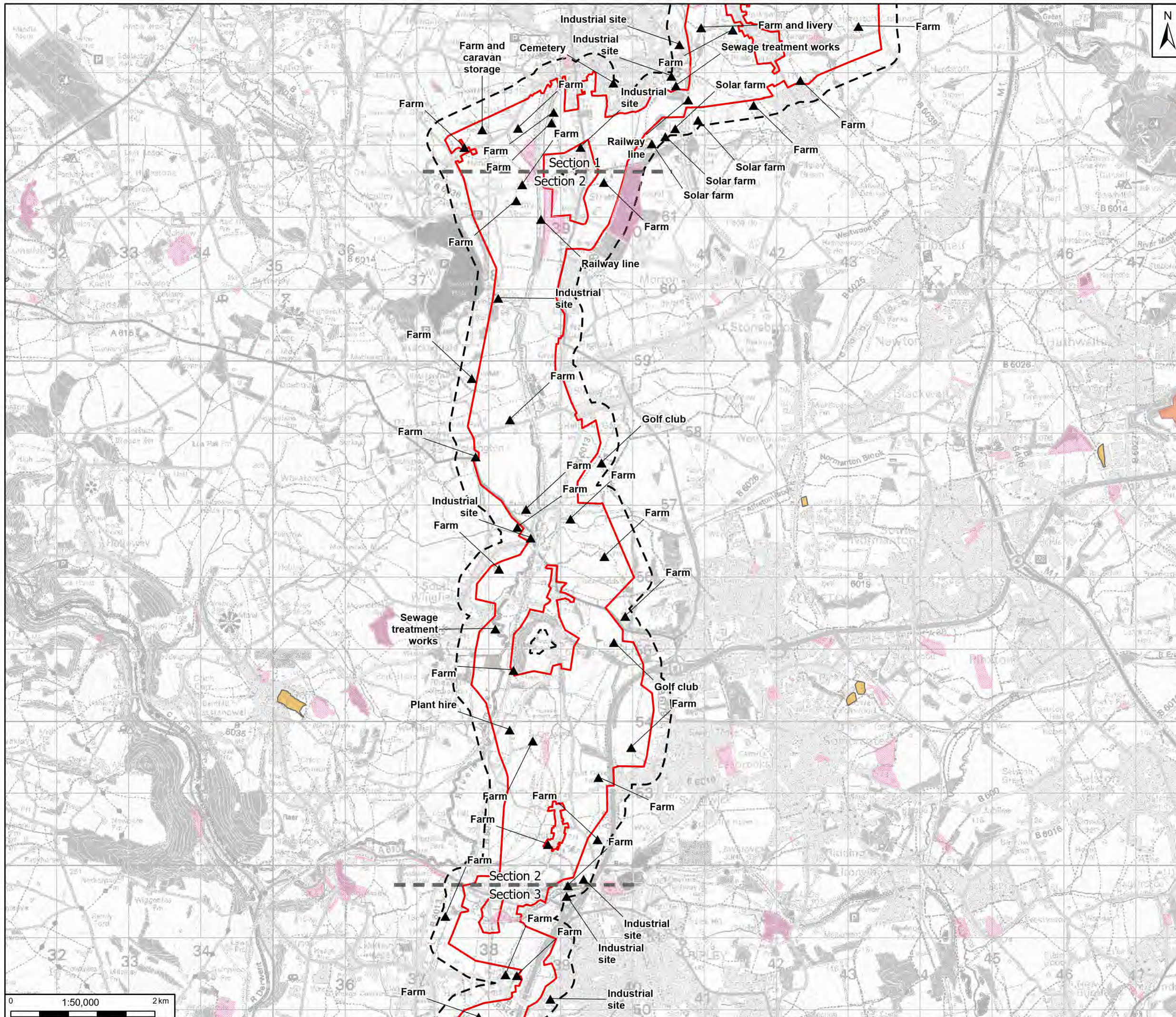
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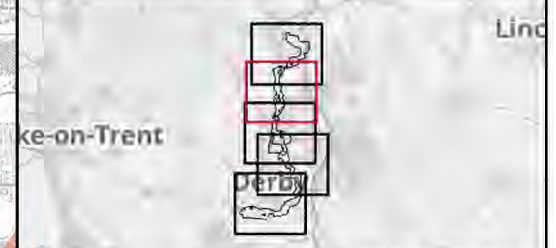
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Legend

- Scoping Boundary
- 250 m Buffer
- EIA Scoping Section Lines
- ▲ Potential Contaminative Land Uses
- Authorised Landfill Sites
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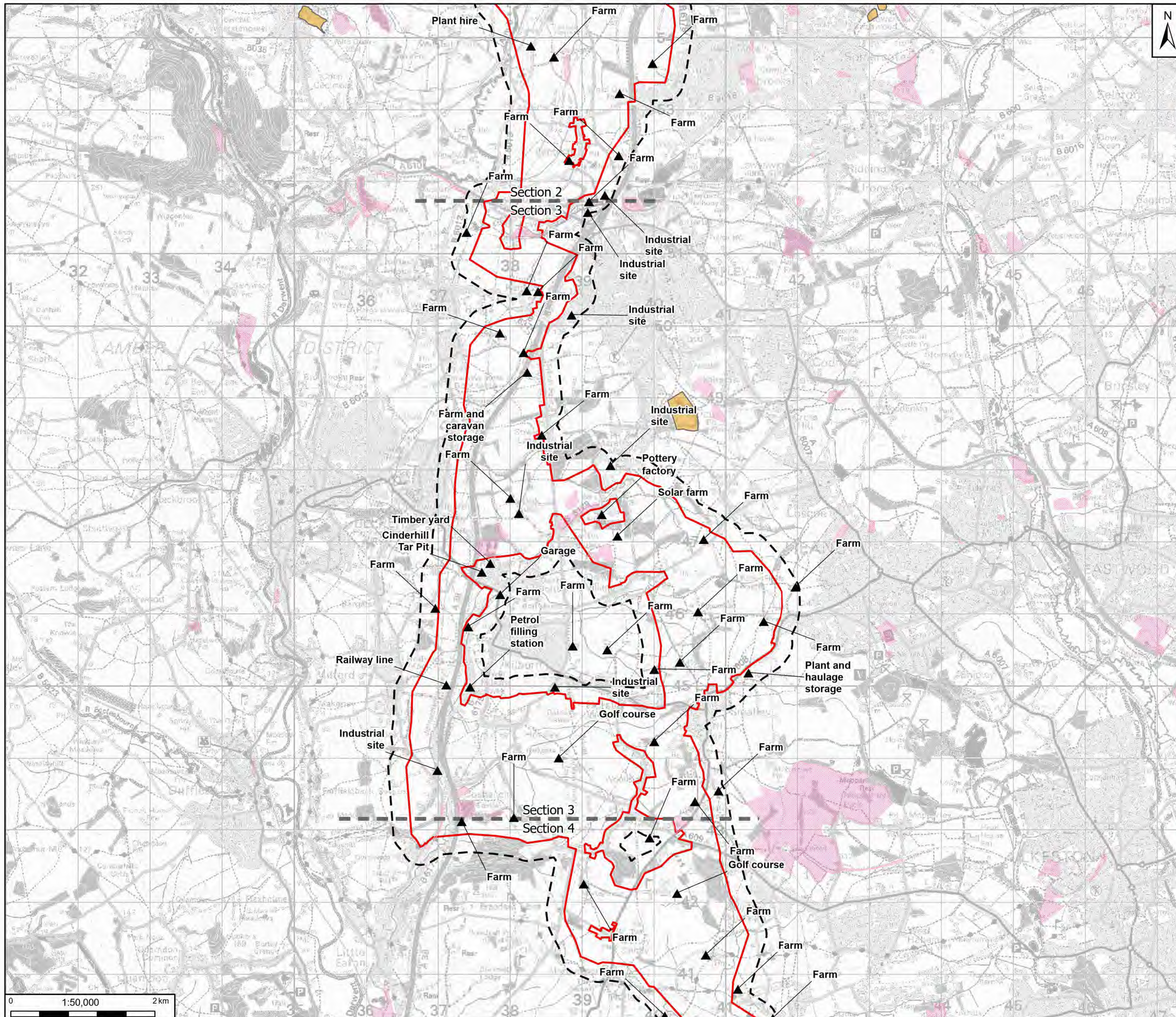
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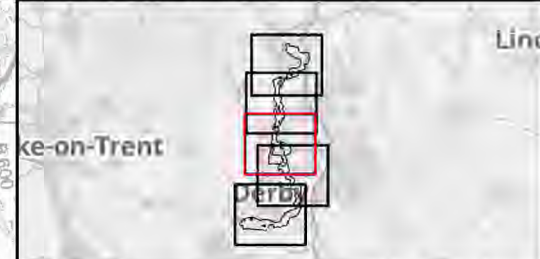
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Legend

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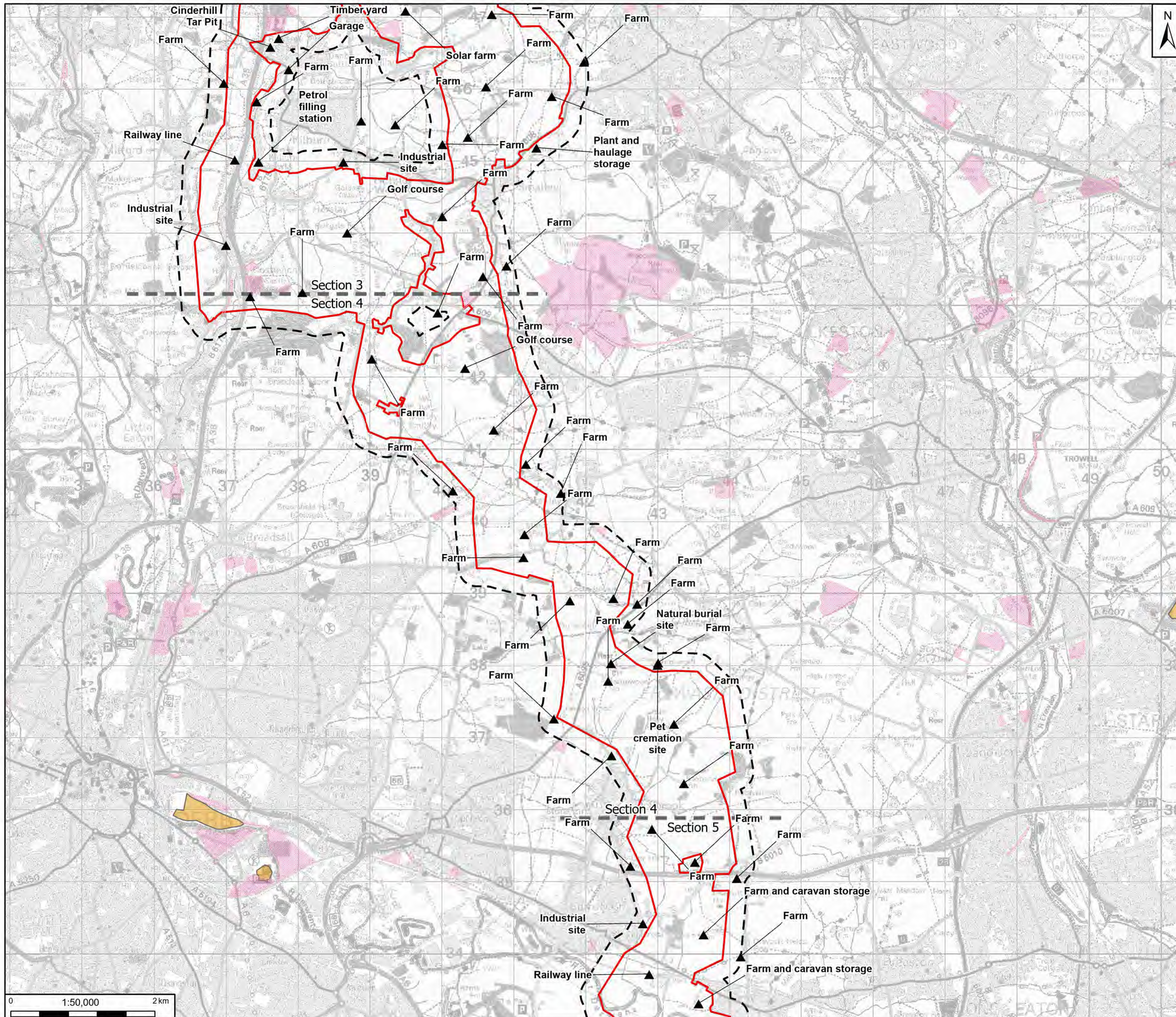
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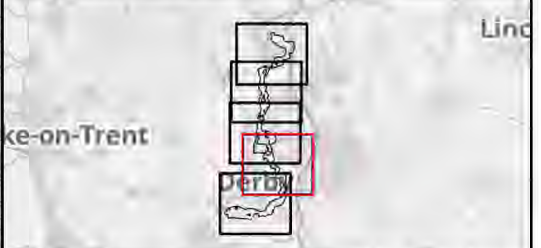
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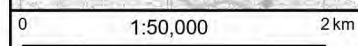
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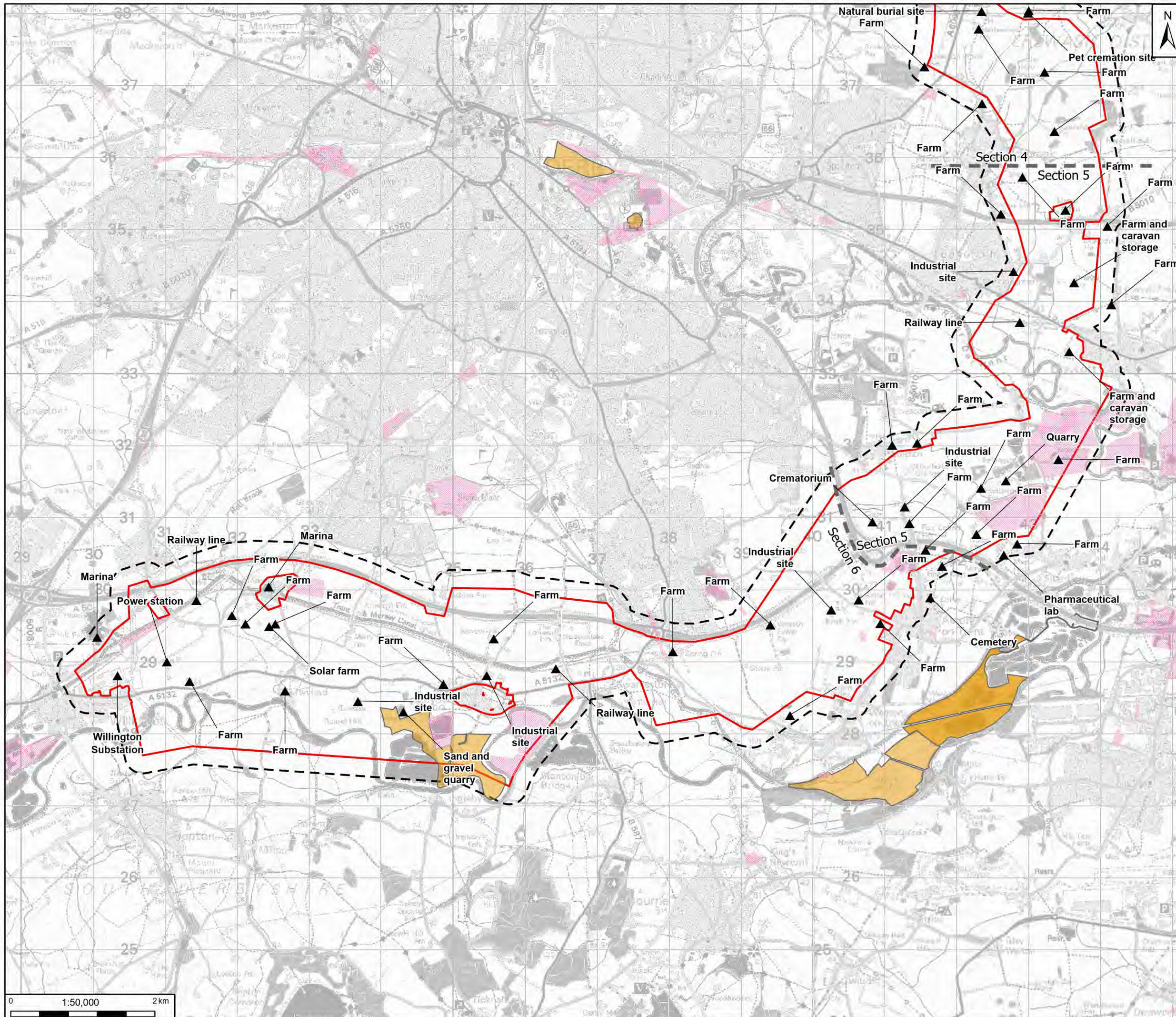
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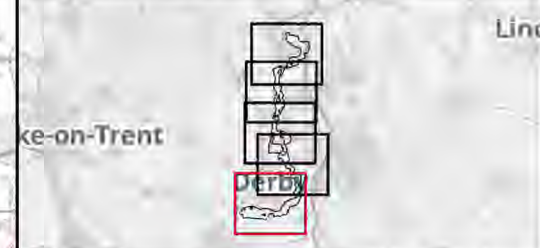




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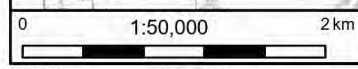
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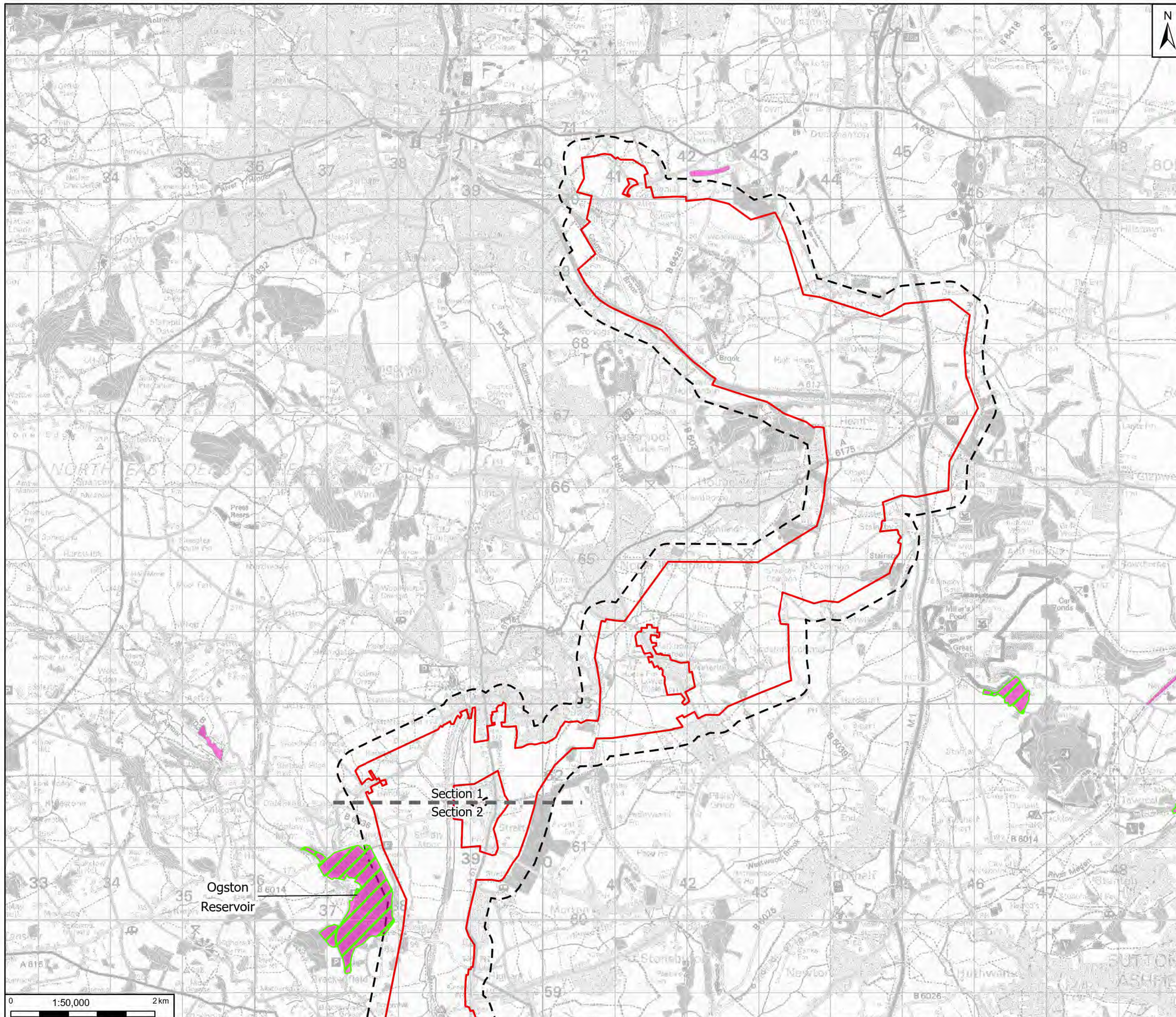
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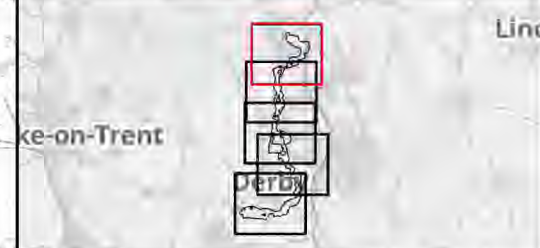


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- EIA Scoping Section Lines
- Groundwater Dependent Terrestrial Ecosystems
- SSSI

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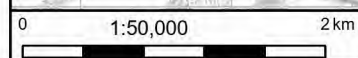
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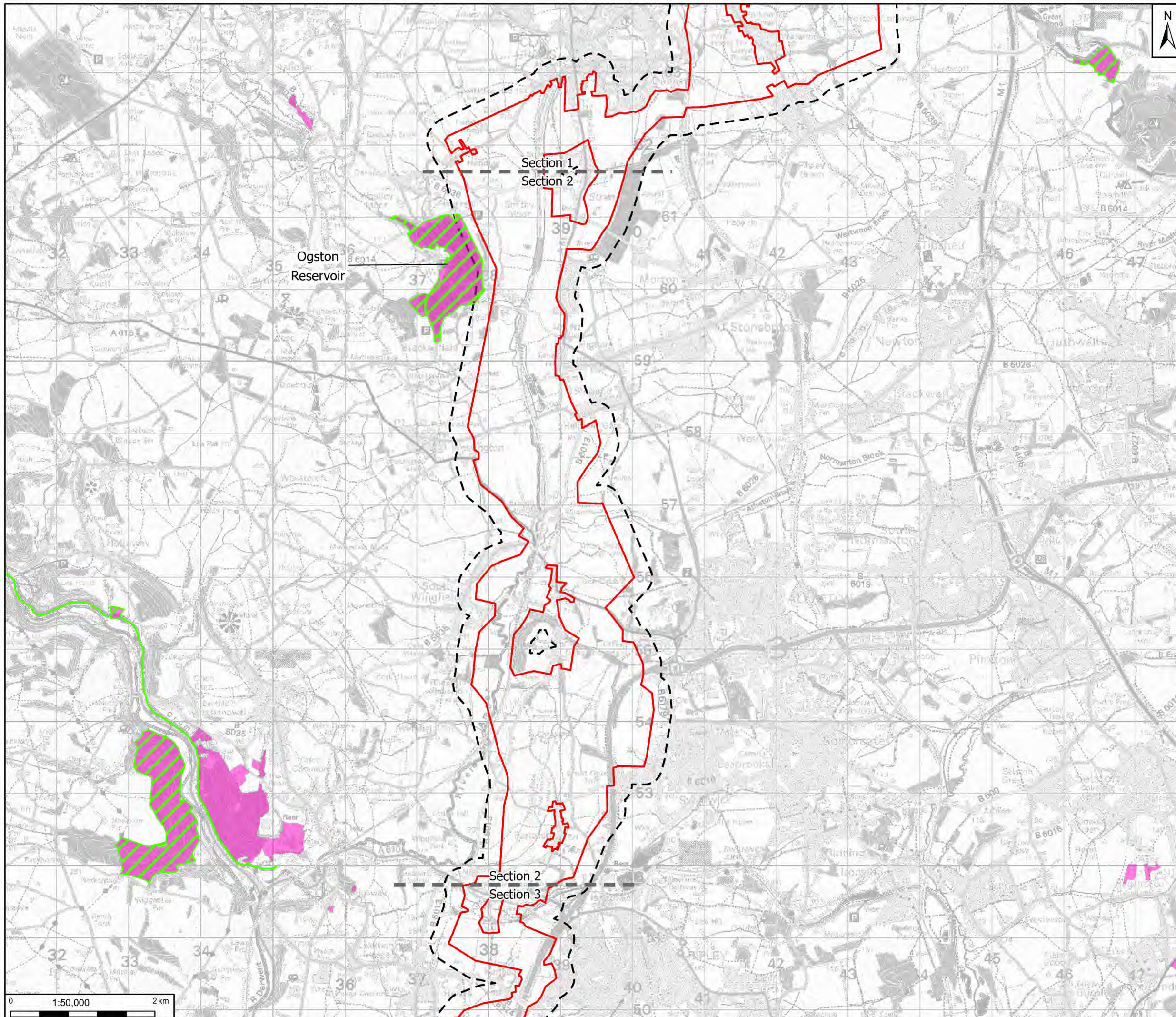
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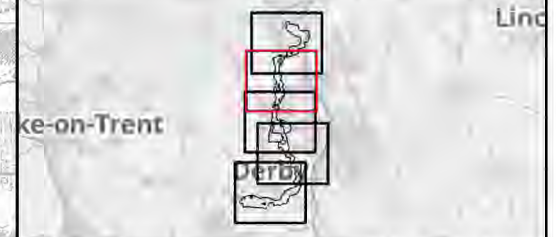




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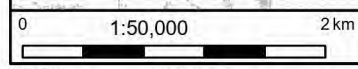
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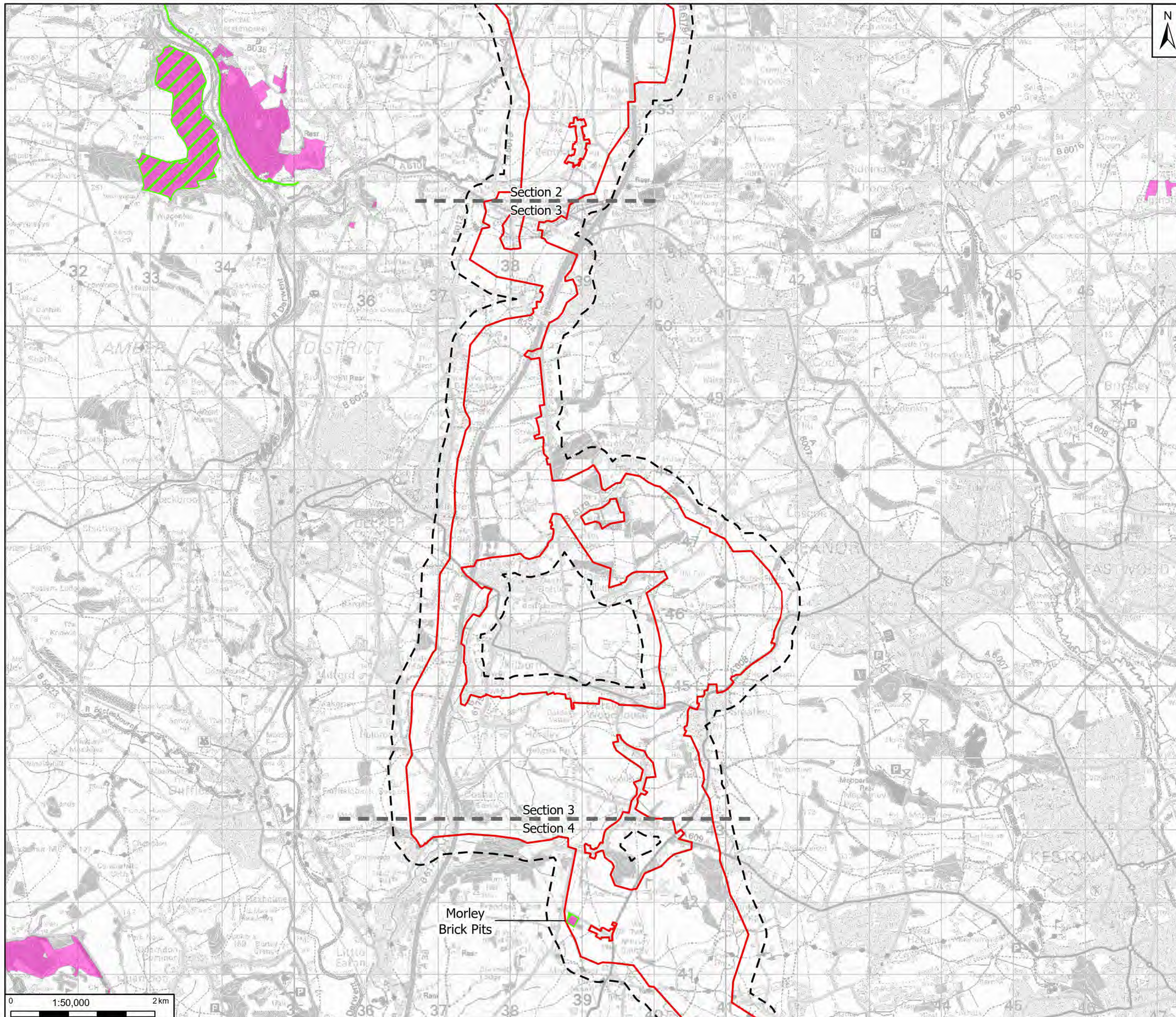
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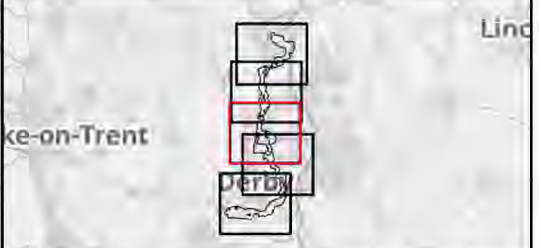




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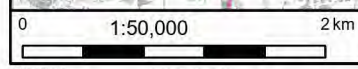
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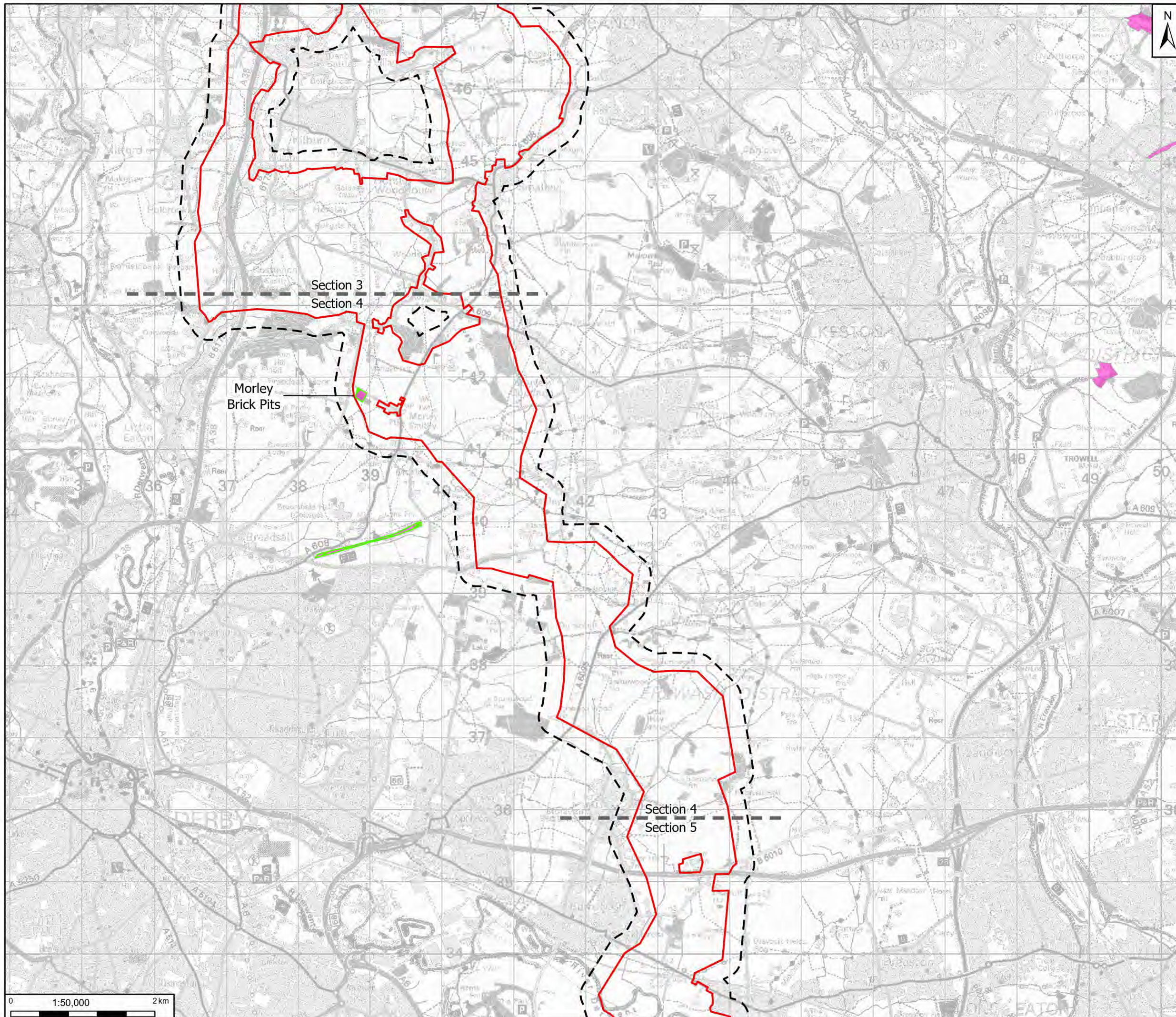
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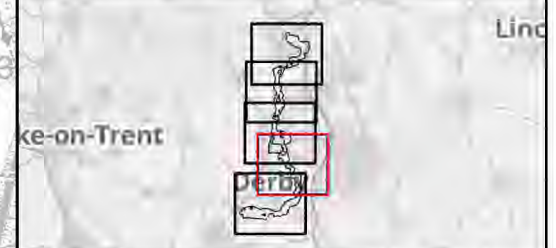




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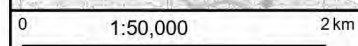
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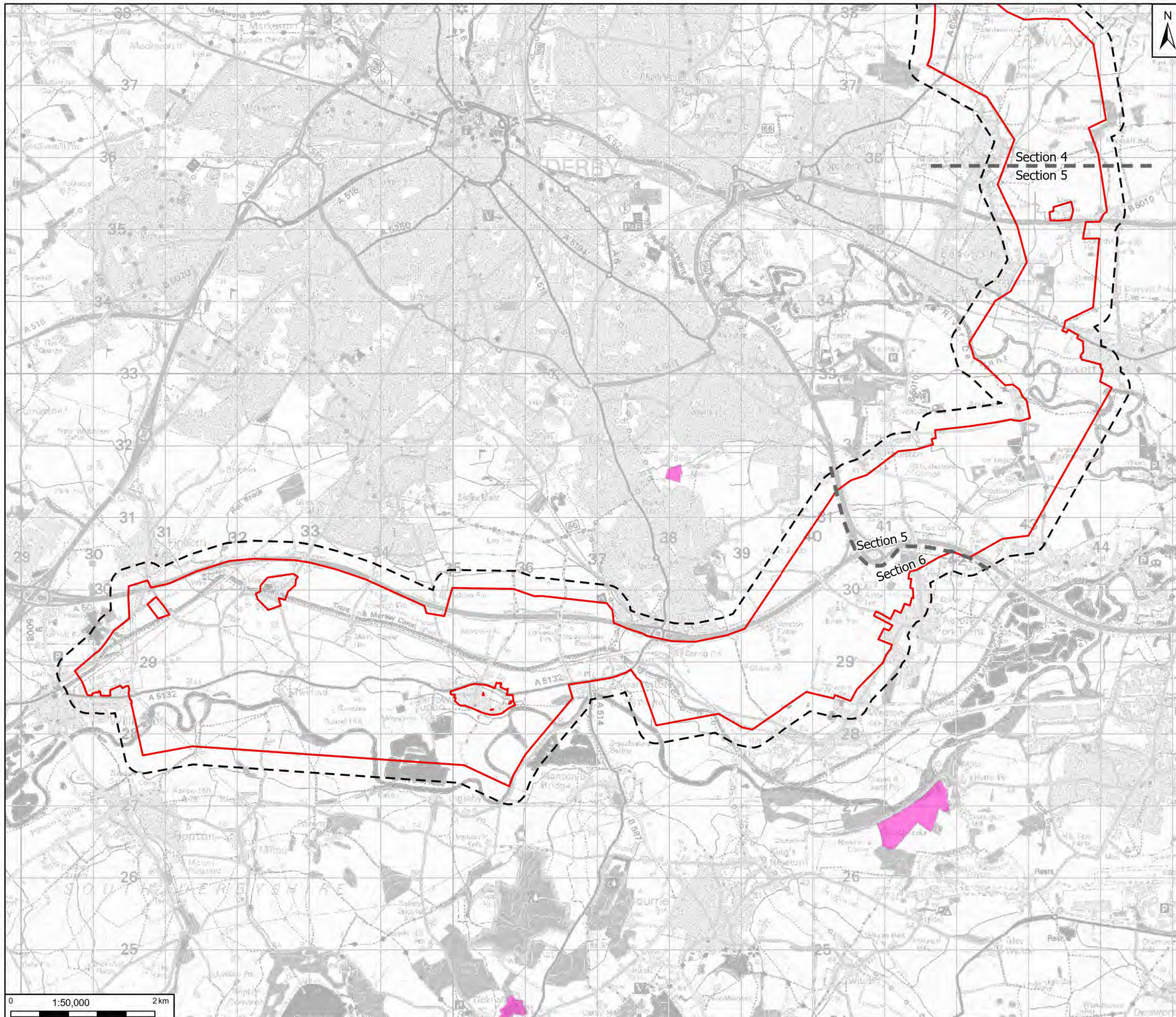
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Rev	Date	Description	Drawn	Check	Approv
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Client:

nationalgrid PROJECT: **CHESTERFIELD TO WILLINGTON**

Site: **C2WE** Client: **113 Strain, London, WC2N 5EH**

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Title: **Geology and Hydrogeology Figure 10.7 Groundwater Dependent Terrestrial Ecosystems / SSSIs Page 5 of 5**

Designed			
Drawn			
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