

# SECTION 7

## SUPPORTING FIGURES





## LIST OF FIGURES

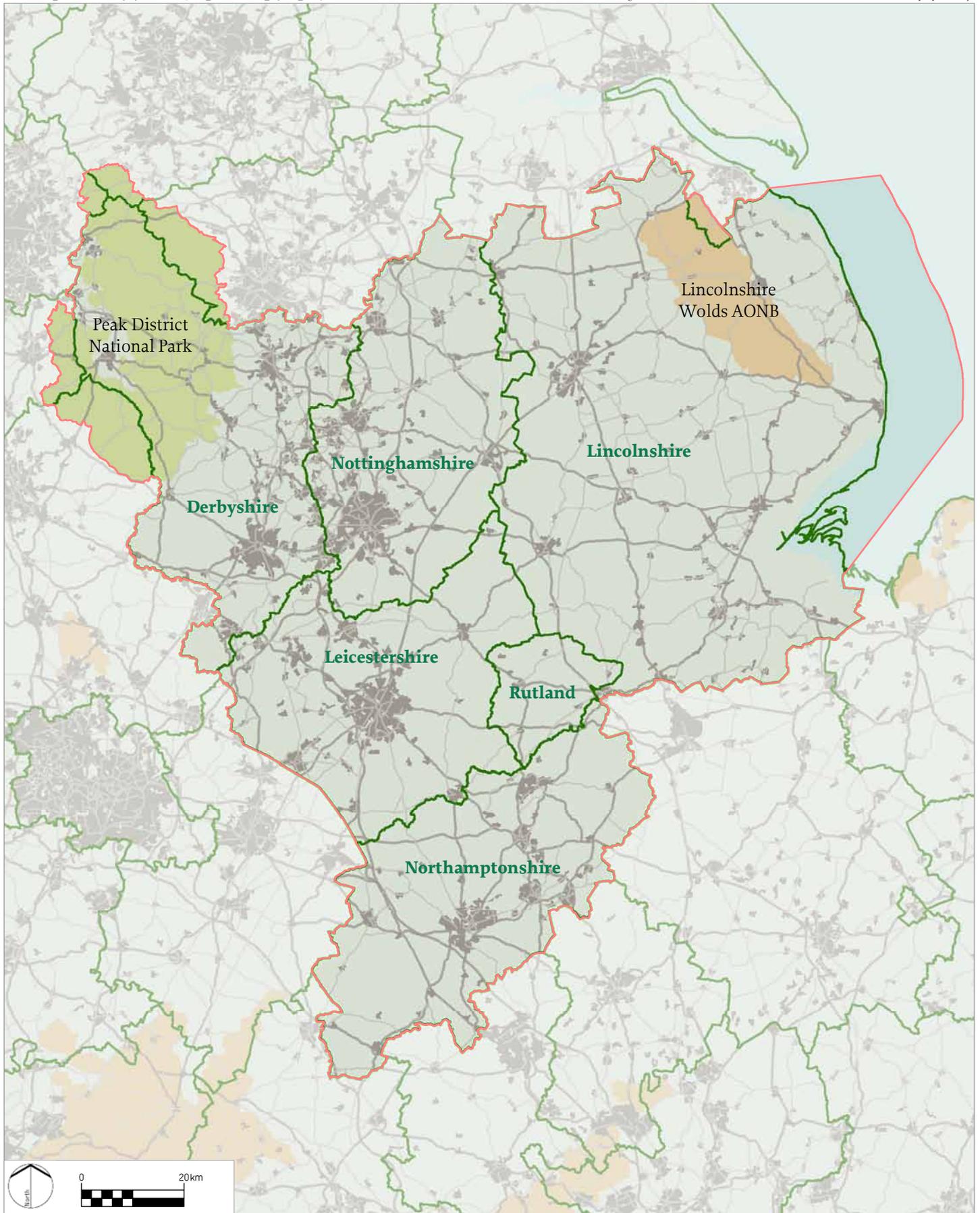
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# FIGURE I: STUDY AREA

Plan illustrates the Study Area Boundary. This is defined by the extent of the East Midlands Region, and the full extent of the Peak District National Park and Lincolnshire Wolds AONB which are also shown. The Study Area extends 15km offshore. Administrative Counties within the region are also illustrated

## Legend

-  Study Area Boundary
-  County Boundary
-  Area of Outstanding Natural Beauty
-  National Park



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Figure 1  
 Study Area

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## FIGURE 2: NATIONAL CHARACTER AREAS AND NATIONAL LANDSCAPE TYPOLOGY

Plan illustrates Natural England's National Character Areas and National Landscape Typology

### Legend



Study Area Boundary



National Character Area Boundary

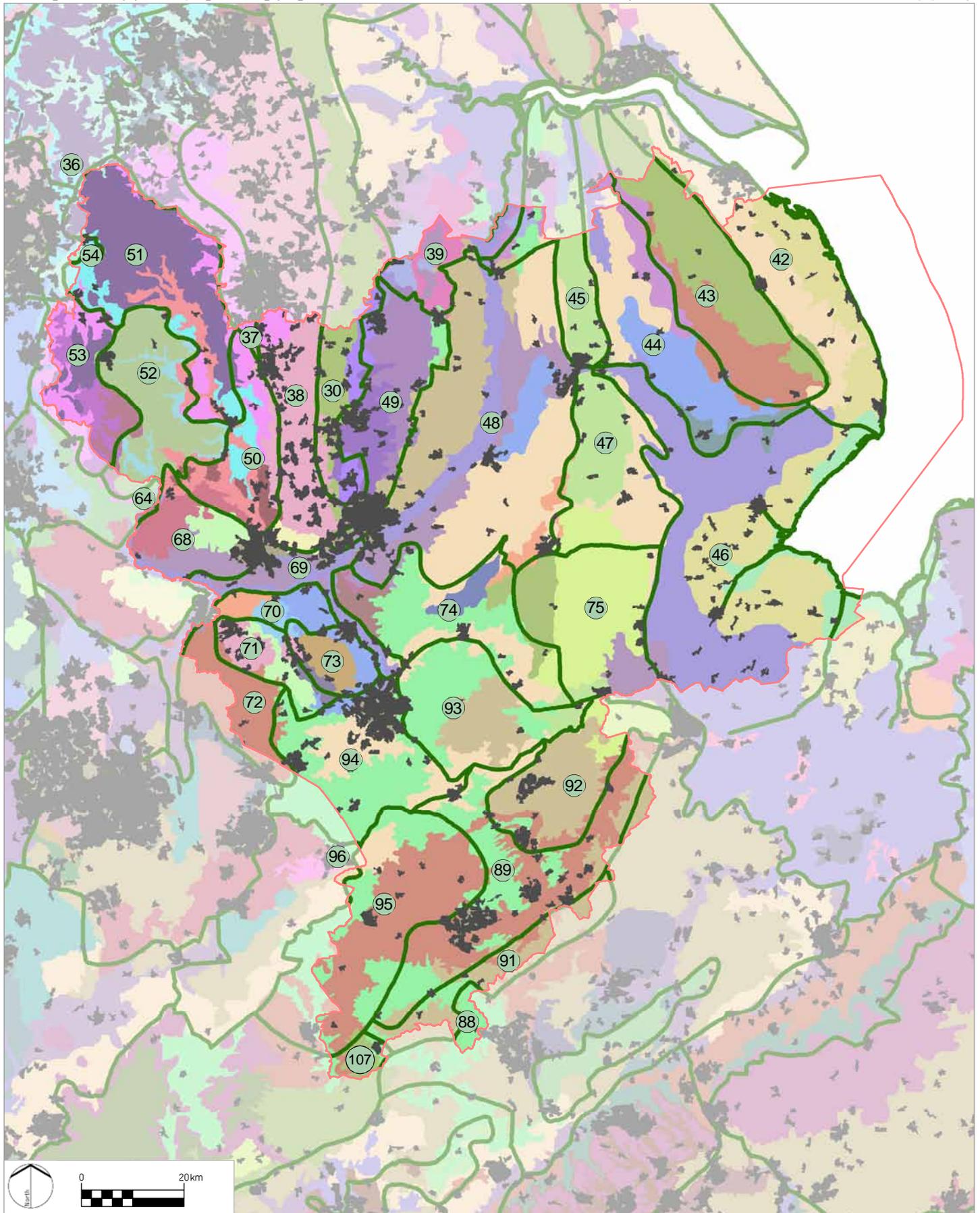
47

National Character Area Number

- 30 - Southern Magnesian Limestone
- 36 - Southern Pennines
- 37 - Yorkshire Southern Penine Fringe
- 38 - Nottinghamshire, Derbyshire and Yorkshire Coalfield
- 39 - Humberhead Levels
- 42 - Lincolnshire Coast and Marshes
- 43 - Lincolnshire Wolds
- 44 - Central Lincolnshire Vale
- 45 - Northern Lincolnshire Edge with Coversands
- 46 - The Fens
- 47 - Southern Lincolnshire Edge
- 48 - Trent and Belvoir Vales
- 49 - Sherwood
- 50 - Derbyshire Peak Fringe and Lower Derwent
- 51 - Dark Peak
- 52 - White Peak
- 53 - South West Peak
- 54 - Manchester Pennine Fringe
- 64 - Potteries and Churnet Valley
- 68 - Needwood and South Derbyshire Claylands
- 69 - Trent Valley Washlands
- 70 - Melbourne Parklands
- 71 - Leicestershire and South Derbyshire Coalfield
- 72 - Mease/Sence Lowlands
- 73 - Charnwood
- 74 - Leicestershire and Nottinghamshire Wolds
- 75 - Kesteven Uplands
- 88 - Bedfordshire and Cambridgeshire Claylands
- 89 - Northamptonshire Vales
- 91 - Yardley - Whittlewood Ridge
- 92 - Rockingham Forest
- 93 - High Leicestershire
- 94 - Leicestershire Vales
- 95 - Northamptonshire Uplands
- 96 - Dunsmore and Feldon
- 107 - Cotswolds



Colours illustrate National Landscape Character Types



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Figure 2  
 National Character Areas  
 and  
 National Landscape Typology

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# FIGURE 3: DISTRIBUTION OF LANDSCAPE CHARACTER ASSESSMENTS AND HISTORIC LANDSCAPE CHARACTER ASSESSMENTS

Plan illustrates the distribution of Landscape Character Assessments and Historic Landscape Character Assessments undertaken at different scales within the study area.

## Legend

 Study Area Boundary

### County Scale Landscape Character Assessments

-  The Landscape Character of Derbyshire, Derbyshire County Council, 2003
-  Leicester Leicestershire and Rutland Landscape & Woodland Strategy, Leicestershire County Council, 2001 [Leicestershire part]
-  Northamptonshire Current Landscape Character Assessment, LDA Design, 2005. RNRP CIC and Northamptonshire County Council
-  Nottinghamshire Landscape Character Assessment 2009, Nottinghamshire County Council
-  Leicester Leicestershire and Rutland Landscape & Woodland Strategy, Leicestershire County Council, 2001 [Rutland part]
-  Rutland Landscape Character Assessment, David Tyldesley and Associates, 2003

### Other Landscape Character Assessments

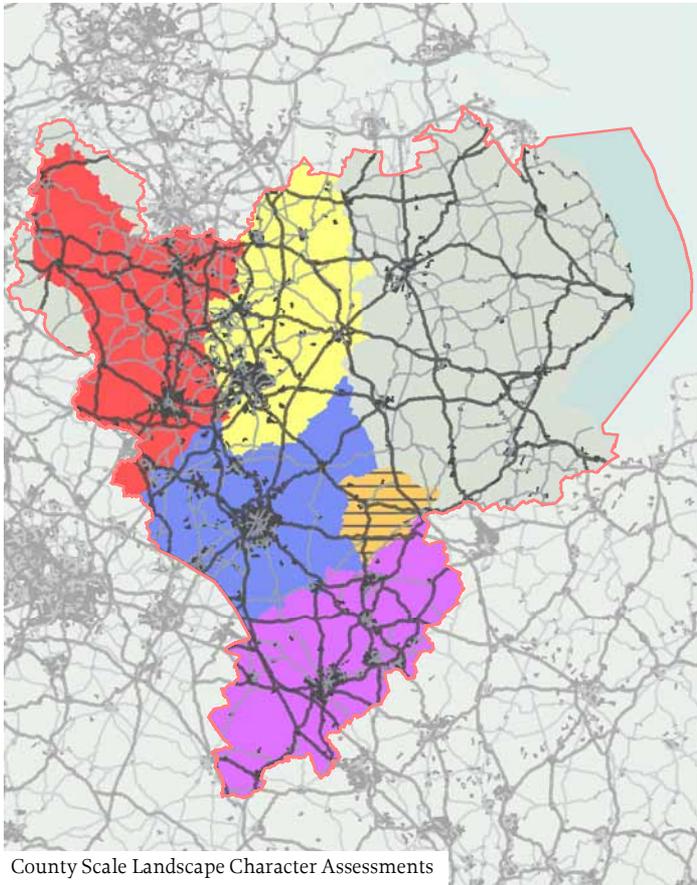
-  Lincolnshire Wolds Landscape, Countryside Commission, 1993
-  National Forest Strategy 2004-2014, National Forest Company, 2004
-  Peak District Landscape Character Assessment, Peak District National Park Authority, 2008
-  Witham Valley Landscape Character Assessment, Lincolnshire County Council, 2006
-  Charnwood Forest Landscape and Settlement Character Assessment, Leicestershire County Council, 2008

### District Scale Landscape Character Assessments

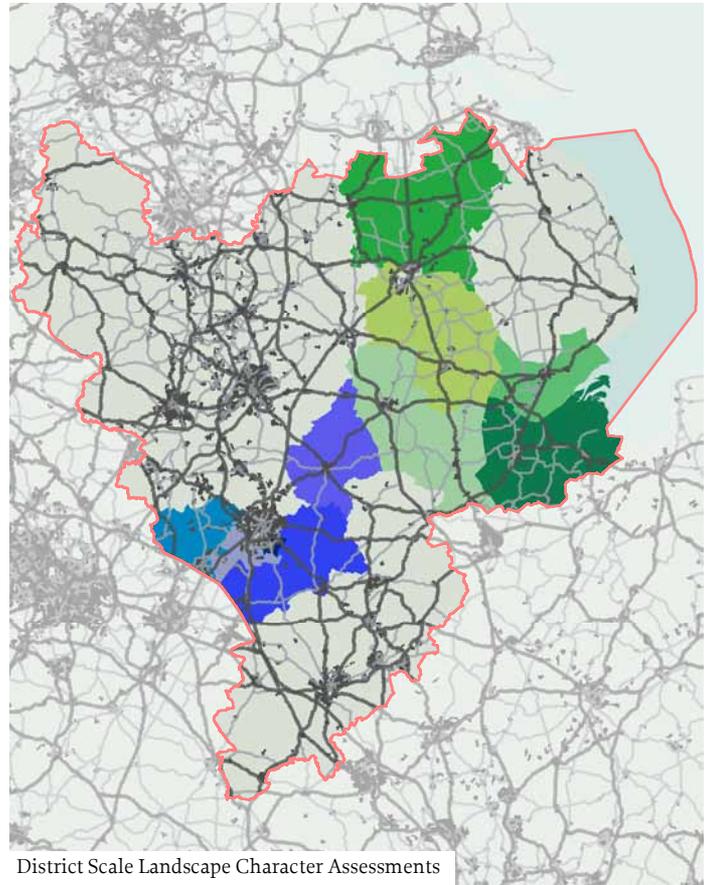
-  Blaby District Character Assessment, TEP, 2008. Blaby District Council
-  Harborough District Landscape Character Assessment, Harborough District Council, 2007
-  Hinckley and Bosworth Landscape Character Assessment, Hinckley and Bosworth Borough Council, 2006
-  Oadby and Wigston Landscape Character Assessment, David Tyldesley & Associates, 2005. Oadby & Wigston Borough Council
-  Melton Borough Landscape and Historic Urban Character Assessment Report, ADAS, 2006. Melton Borough
-  Boston District Landscape Character Assessment – Desk study, Boston Borough Council, 2007
-  North Kesteven Landscape Character Assessment, North Kesteven District Council, 2007
-  South Kesteven Landscape Character Assessment, South Kesteven District Council, 2007
-  West Lindsey Landscape Character Assessment, West Lindsey District Council, 1999
-  South Holland Landscape Character Assessment, South Holland District Council, 2003
-  East Lindsey District Landscape Character Assessment (Draft Report), East Lindsey District Council, 2008

### Historic Landscape Character Assessments

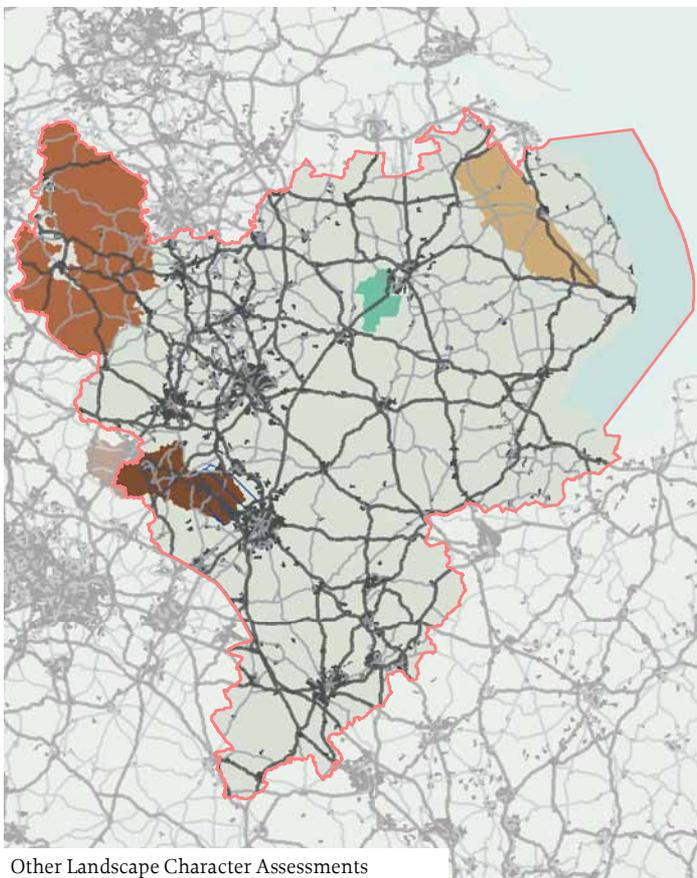
-  Historic Landscape Character of Derbyshire outside the Peak District, Derbyshire County Council, 1996
-  Leicestershire & Rutland Historic Landscape Characterisation, Leicestershire County Council [Ongoing]
-  Northamptonshire Historic Landscape Character Assessment, RNRP CIC and Northamptonshire County Council, 2005
-  Nottinghamshire Historic Landscape Characterisation, Nottinghamshire County Council
-  The Wash Estuary Management Plan, Wash Estuary Strategy Group, 2004
-  Landscape through time: Historic Landscape Characterisation in the Peak Park, Peak District National Park Archaeological Service, 2003



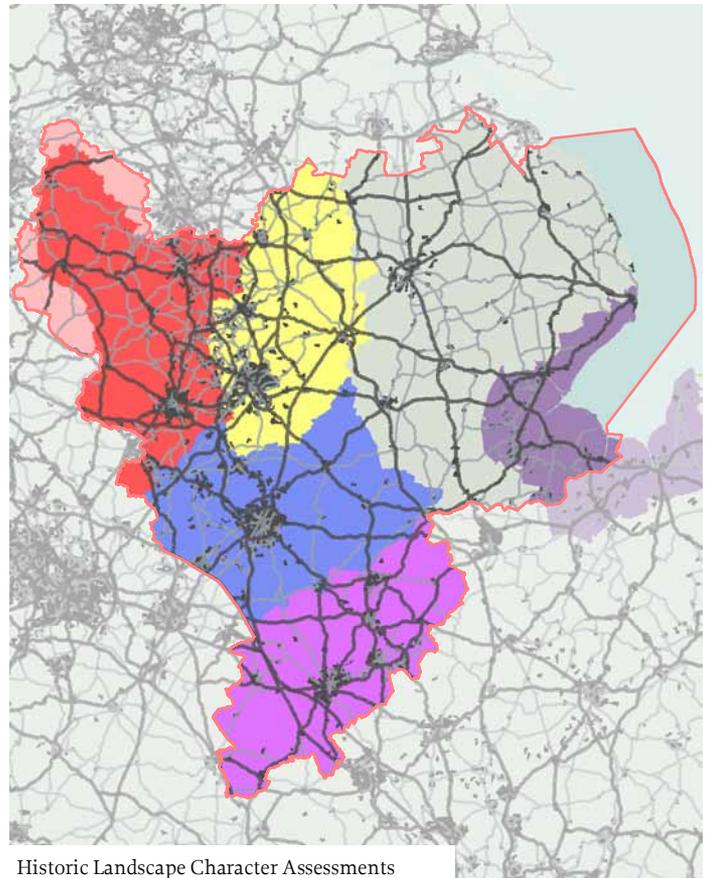
County Scale Landscape Character Assessments



District Scale Landscape Character Assessments



Other Landscape Character Assessments



Historic Landscape Character Assessments

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Figure 3  
Distribution of Landscape  
Character Assessments and  
Historic Landscape Character  
Assessments

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## FIGURE 4: NATIONAL LANDSCAPE, COASTAL DESIGNATIONS AND WORLD HERITAGE SITES

Plan illustrates the distribution of National Parks, Areas of Outstanding Natural Beauty, Heritage Coasts and World Heritage Sites

### Legend

 Study Area Boundary

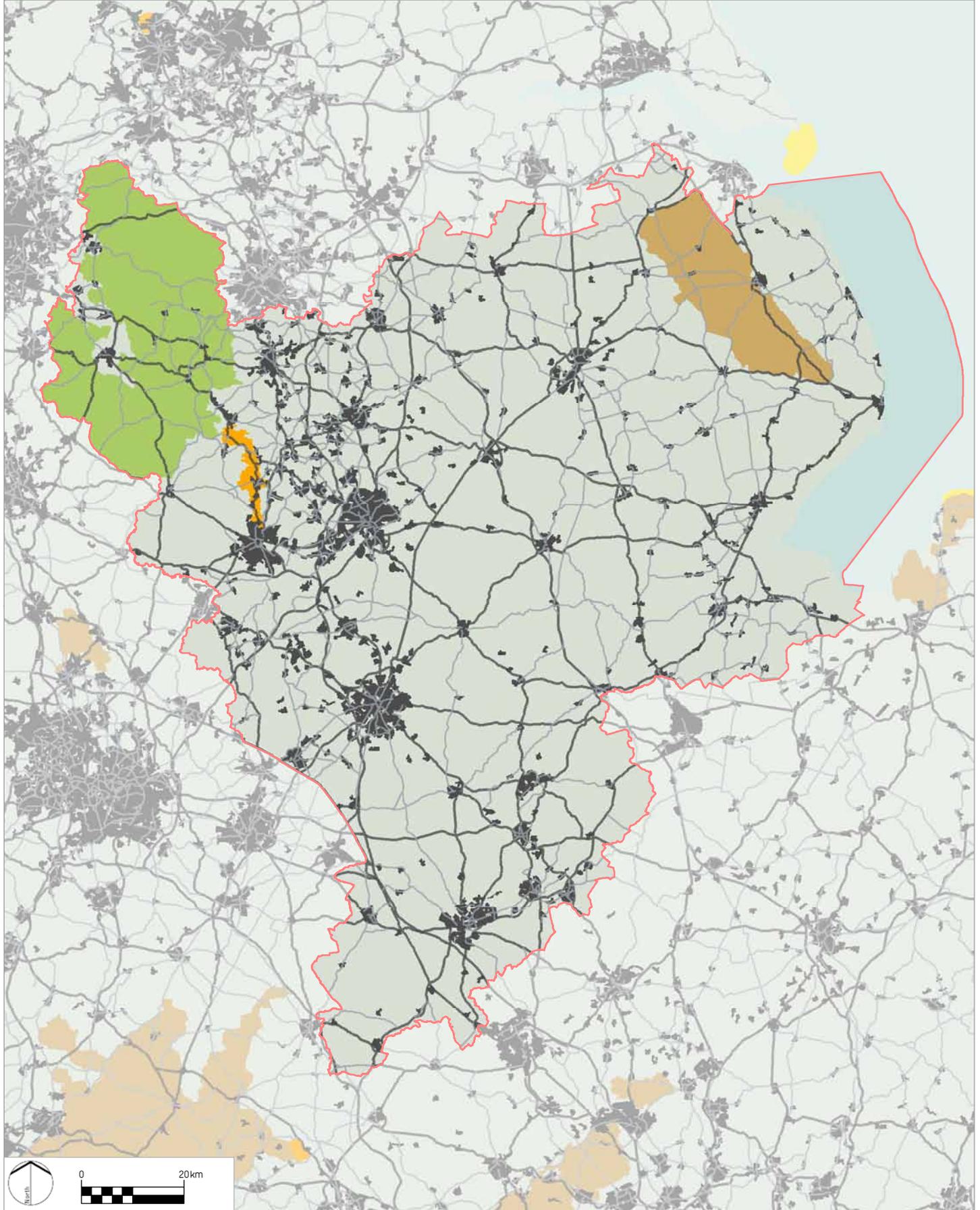
#### National Designation

 Area of Outstanding Natural Beauty

 National Park

 Heritage Coast

 World Heritage Site



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Figure 4  
 National Landscape, Coastal Designations  
 and World Heritage Sites

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# FIGURE 5: SIMPLIFIED BEDROCK GEOLOGY

Plan illustrates major rock groups by geological period.  
(adapted from Fig 1.6 East Midlands Solid Geology in  
David Stocker, England's Landscape - The East Midlands  
English Heritage, 2006)

## Legend

 Study Area Boundary

### Palaeogene

 London Clay Formation

### Cretaceous

 Chalk Group

 Greensand (Upper and Lower) and Gault Formations

### Jurassic

 Amphill and Kimmeridge Clay Formations

 Oxford Clay and Kellaway Formations

 Cornbrash Formation

 Great Oolite Group

 Inferior Oolite Group

 Lias Group (Whitby Mudstone, Marlstone Rock, Charmouth Mudstone and Scunthorpe Mudstone Formations)

### Permian and Triassic

 Triassic Mudstones (Mercia Mudstone Group)

### Permian

 Permian and Triassic Sandstones Undifferentiated (Sherwood Sandstone Group and Lenton Sandstone Formation)

 Permian Mudstones (Edlington Formation)

 Cadeby Formation ('Magnesian Limestone')

### Carboniferous

 Pennine Coal Measures

 Craven and Millstone Grit Groups

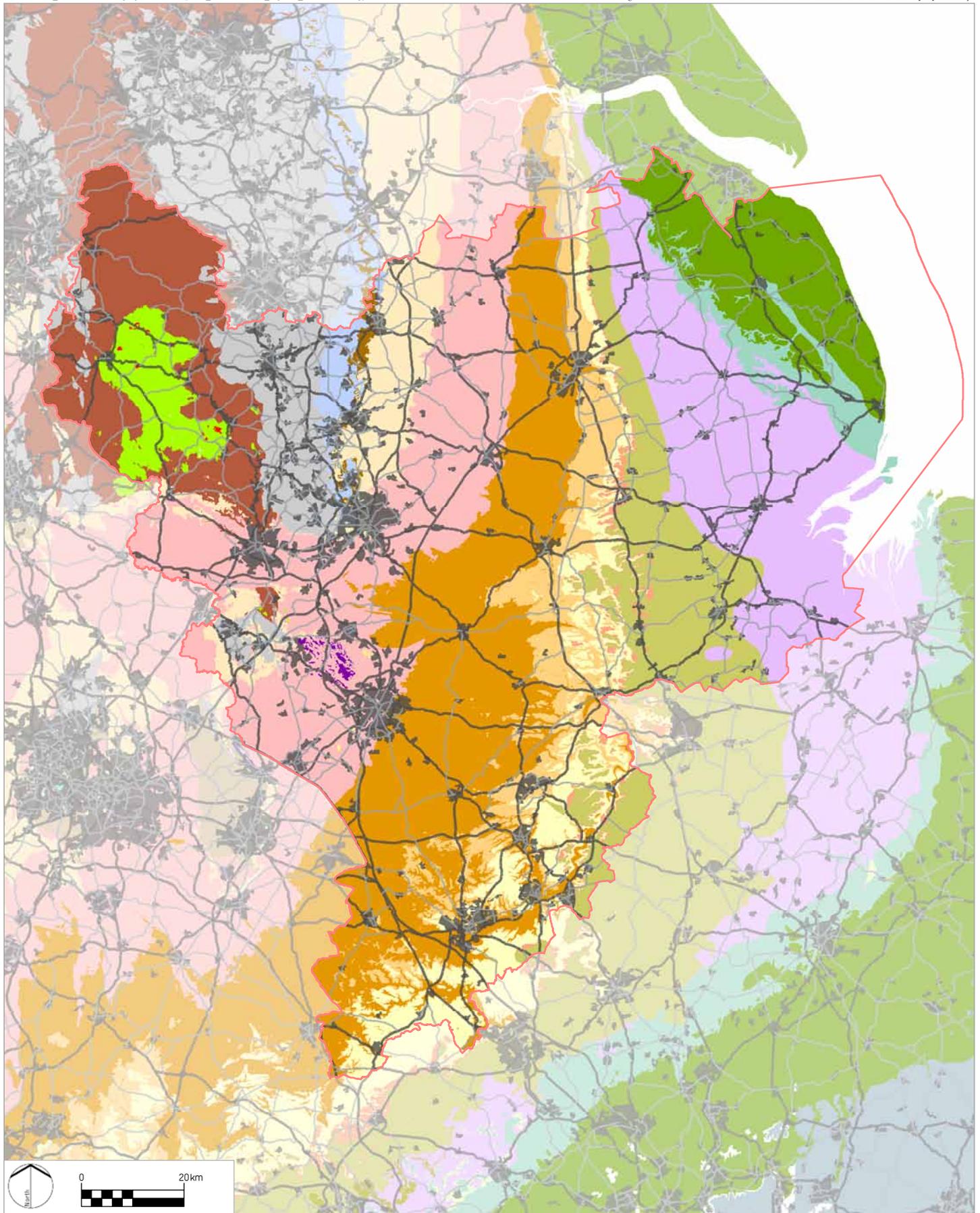
 Carboniferous Limestone Supergroup

### Precambrian

#### Igneous Rocks (Intrusive and Extrusive)

 Microgabbro (Dinantian)

 Charnian Supergroup



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Figure 5  
 Simplified Bedrock Geology

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Source: Ordnance Survey, British Geological Survey  
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 © Crown Copyright. All rights reserved. Licence number Natural England 100046223 [2009]  
 © LDA Design Consulting LLP. Quality Assured to BS EN ISO 9001 : 2000

## FIGURE 6: SIMPLIFIED SUPERFICIAL GEOLOGY

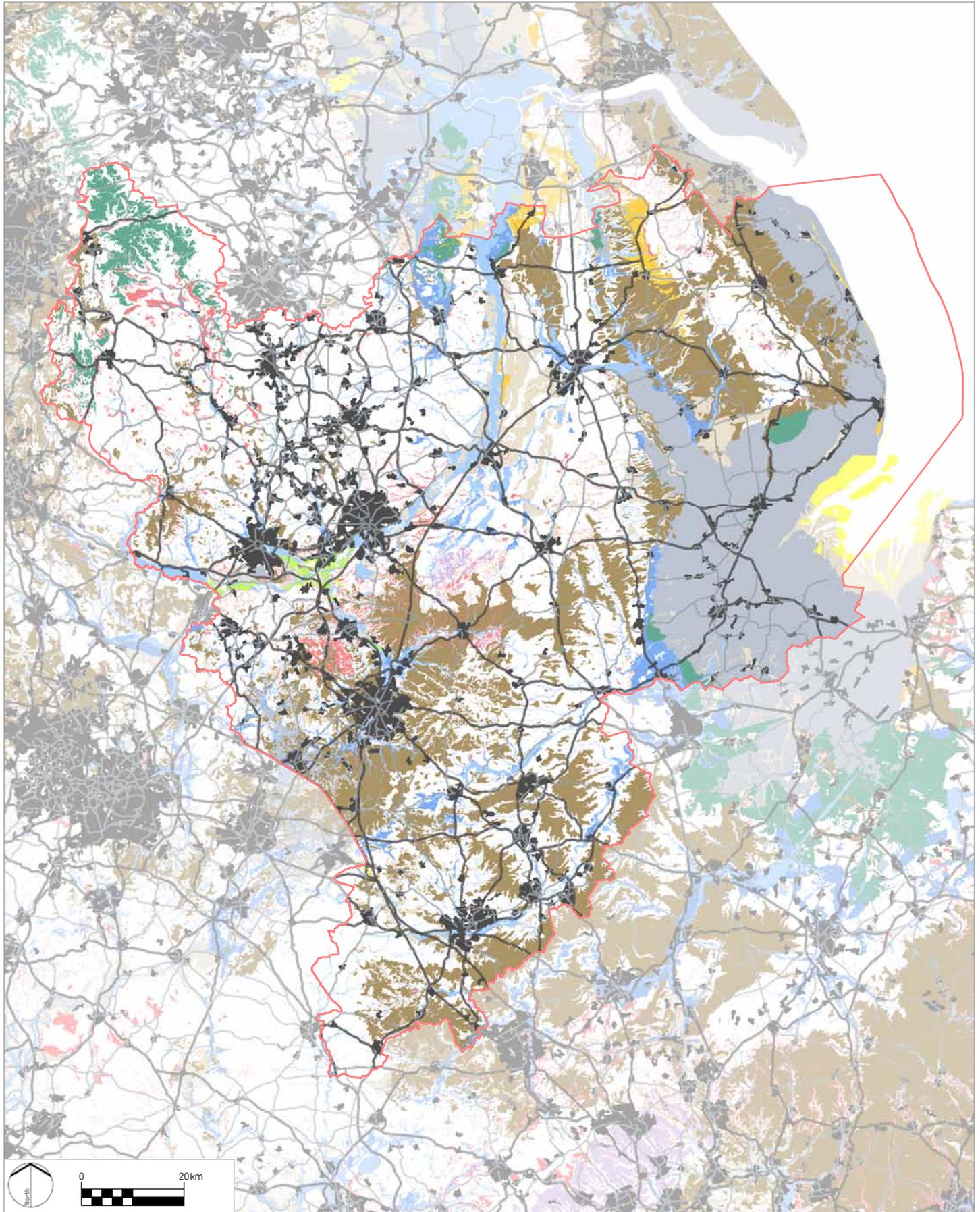
Plan illustrates simplified superficial geology.

Data in the British Geological Survey Data RCS\_D theme has been grouped into major groups of like deposits.

Alluvial, Head, River Terrace and Blown Sand Deposits from the LEX\_D theme are overlain for added detail.

### Legend

	Study Area Boundary
	Alluvium and Alluvium Fan Deposits
	River Terrace Deposits
	Head
	Blown Sand
	Clays
	Clay with Sand, Silt, Sand and Gravel and Gravelly Clay
	Diamicton
	Silty Deposits
	Sand Deposits
	Sand with Gravel, Silt, Clay and Gravel and Boulders
	Peat



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Figure 6  
 Simplified Superficial Geology

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# FIGURE 7: LANDFORM

Plan illustrates topography at intervals of 50m.

## Legend

 Study Area Boundary

## Landform

 600m AOD - 650m AOD

 550m AOD - 600m AOD

 500m AOD - 550m AOD

 450m AOD - 500m AOD

 400m AOD - 450m AOD

 350m AOD - 400m AOD

 300m AOD - 350m AOD

 250m AOD - 300m AOD

 200m AOD - 250m AOD

 150m AOD - 200m AOD

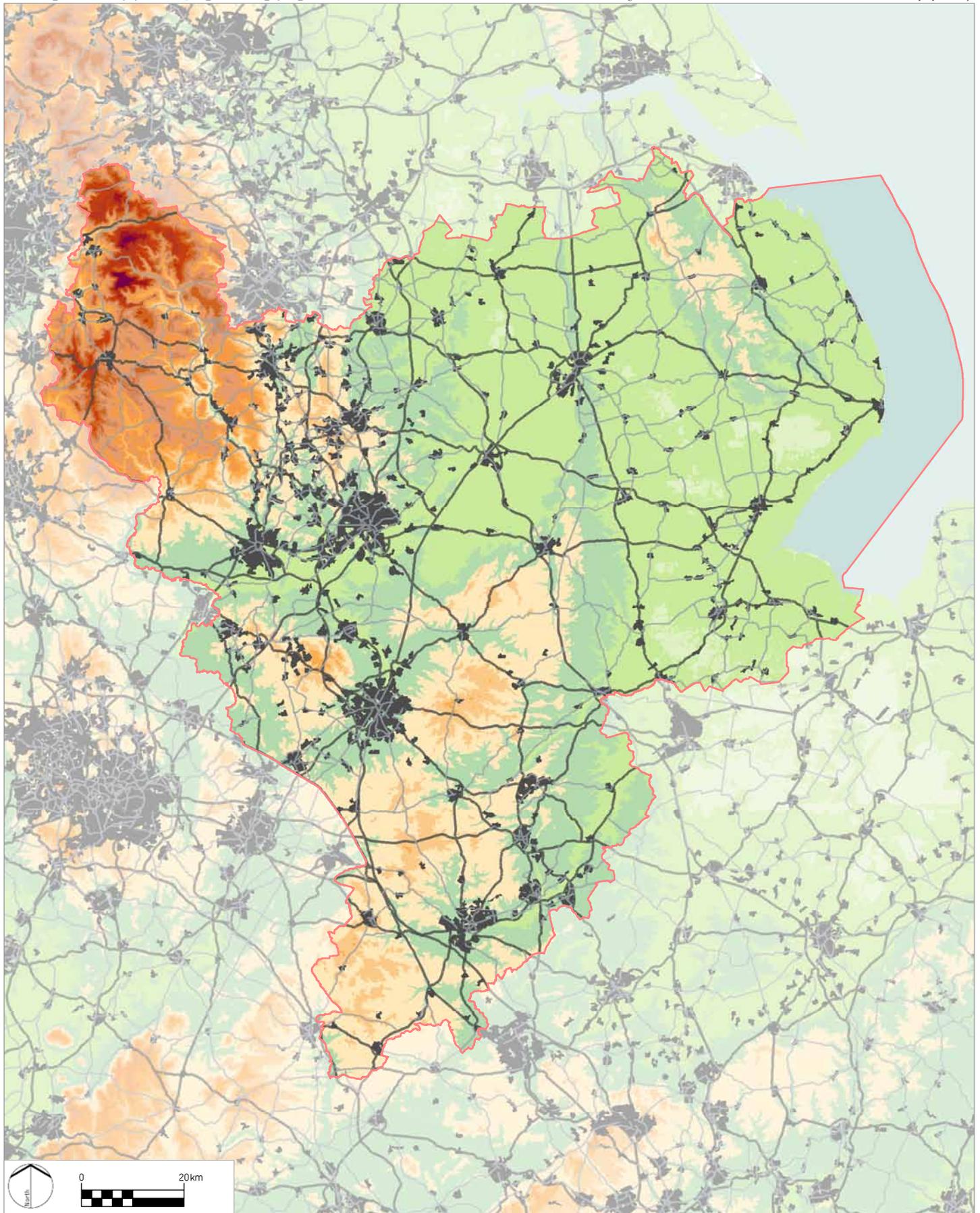
 100m AOD - 150m AOD

 50m AOD - 100m AOD

 0m AOD - 50m AOD

 Below 0m AOD

 Sea



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Figure 7  
 Landform

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# FIGURE 8: SOILS

Plan illustrates the following soil attributes:

Natural Drainage

Surface Texture

Soil Fertility

Soil Condition - by reference to one of 27 different broad types of soil.

## Legend

 Study Area Boundary

### Natural Drainage

-  Freely draining
-  Impeded drainage
-  Naturally wet
-  Slightly impeded drainage
-  Surface wetness
-  Variable

### Surface Texture

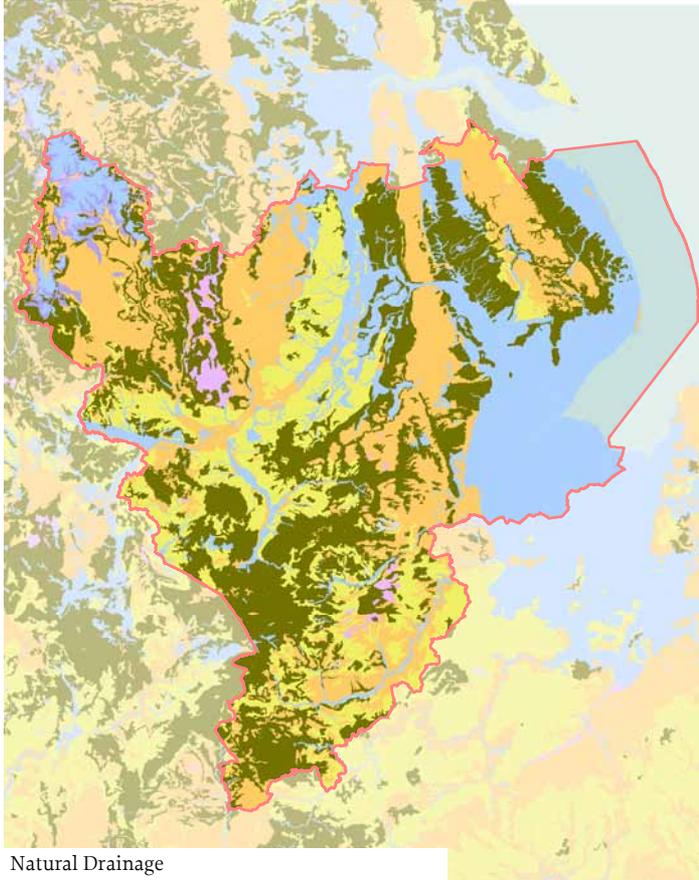
-  Clayey
-  Loamy
-  Peaty
-  Sandy

### Natural Fertility

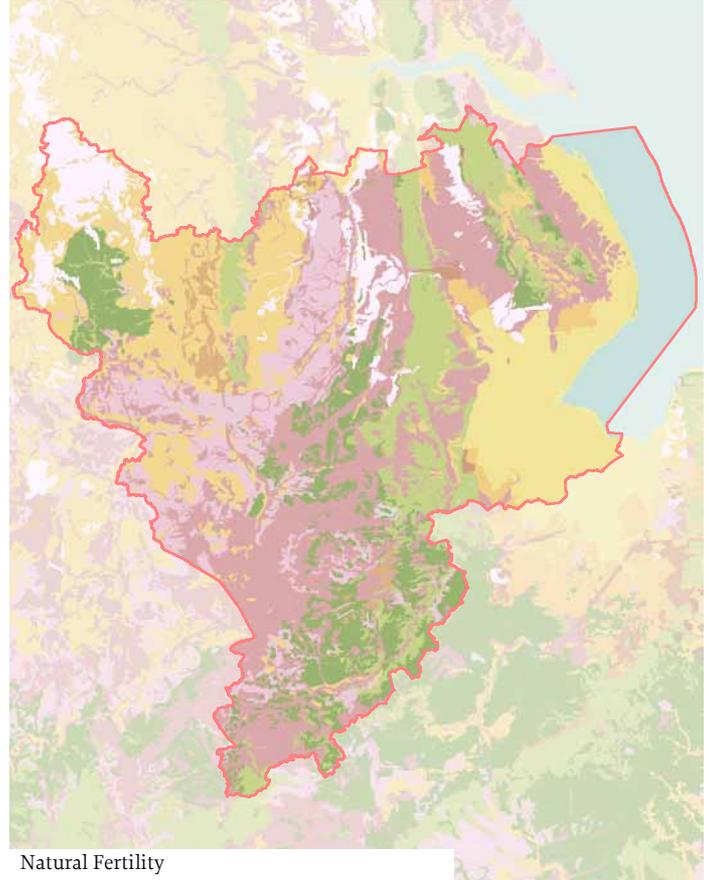
-  High
-  Lime-rich
-  Lime-rich but saline
-  Lime-rich to moderate
-  Low
-  Low to high
-  Low to moderate
-  Mixed, lime-rich to low
-  Mixed, low to lime-rich
-  Moderate
-  Moderate to high
-  Very low

## Soil Condition

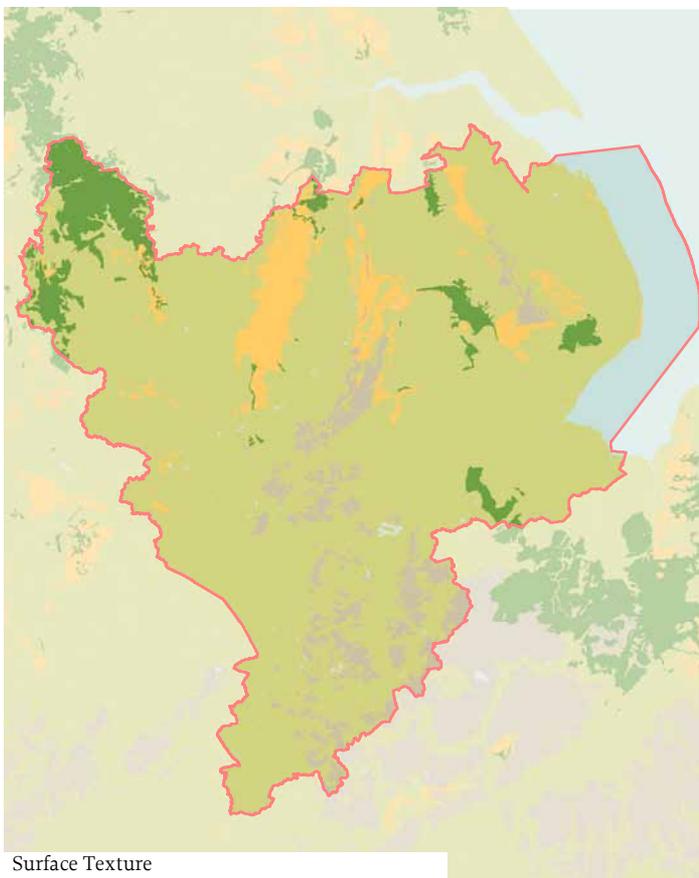
-  Saltmarsh soils
-  Shallow very acid peaty soils over rock
-  Shallow lime-rich soils over chalk or limestone
-  Sand dune soils
-  Freely draining lime-rich loamy soils
-  Freely draining slightly acid loamy soils
-  Freely draining slightly acid but base rich soils
-  Slightly acid loamy and clayey soils with impeded drainage
-  Lime-rich loamy and clayey soils with impeded drainage
-  Freely draining slightly acid sandy soils
-  Freely draining sandy Breckland soils
-  Freely draining floodplain soils
-  Freely draining acid loamy soils over rock
-  Freely draining very acid sandy and loamy soils
-  Naturally wet very acid sandy and loamy soils
-  Very acid loamy upland soils with a wet peaty surface
-  Slowly permeable seasonally wet acid loamy and clayey soils
-  Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils
-  Slowly permeable wet very acid upland soils with a peaty surface
-  Loamy and clayey floodplain soils with naturally high groundwater
-  Loamy and clayey soils of coastal flats with naturally high groundwater
-  Loamy soils with naturally high groundwater
-  Loamy and sandy soils with naturally high groundwater and a peaty surface
-  Restored soils mostly from quarry and opencast spoil
-  Blanket bog peat soils
-  Raised bog peat soils
-  Fen peat soils



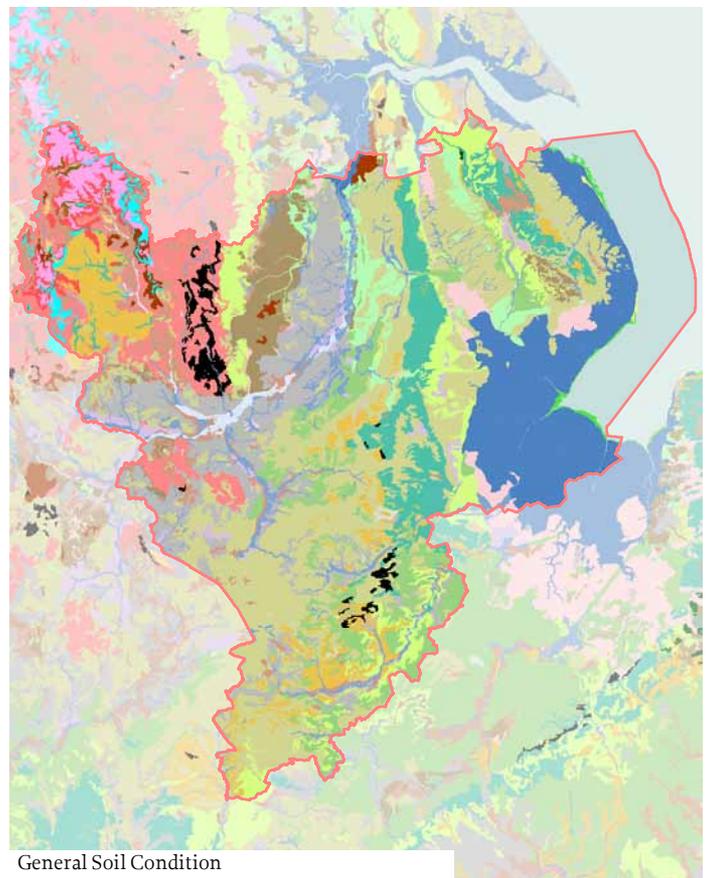
Natural Drainage



Natural Fertility



Surface Texture



General Soil Condition

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Soils

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## FIGURE 9: HYDROLOGY

Plan illustrates hydrological features (major water bodies and major rivers) from Ordnance Survey Mastermap.

Flood Zones show the extent of Flood Zone 3 data from the Environment Agency. Flood Zone 3 indicates the extent of areas with an annual probability of flooding of 1% (1 in 100) or greater from rivers, and 0.5% (1 in 200) or greater from the sea.

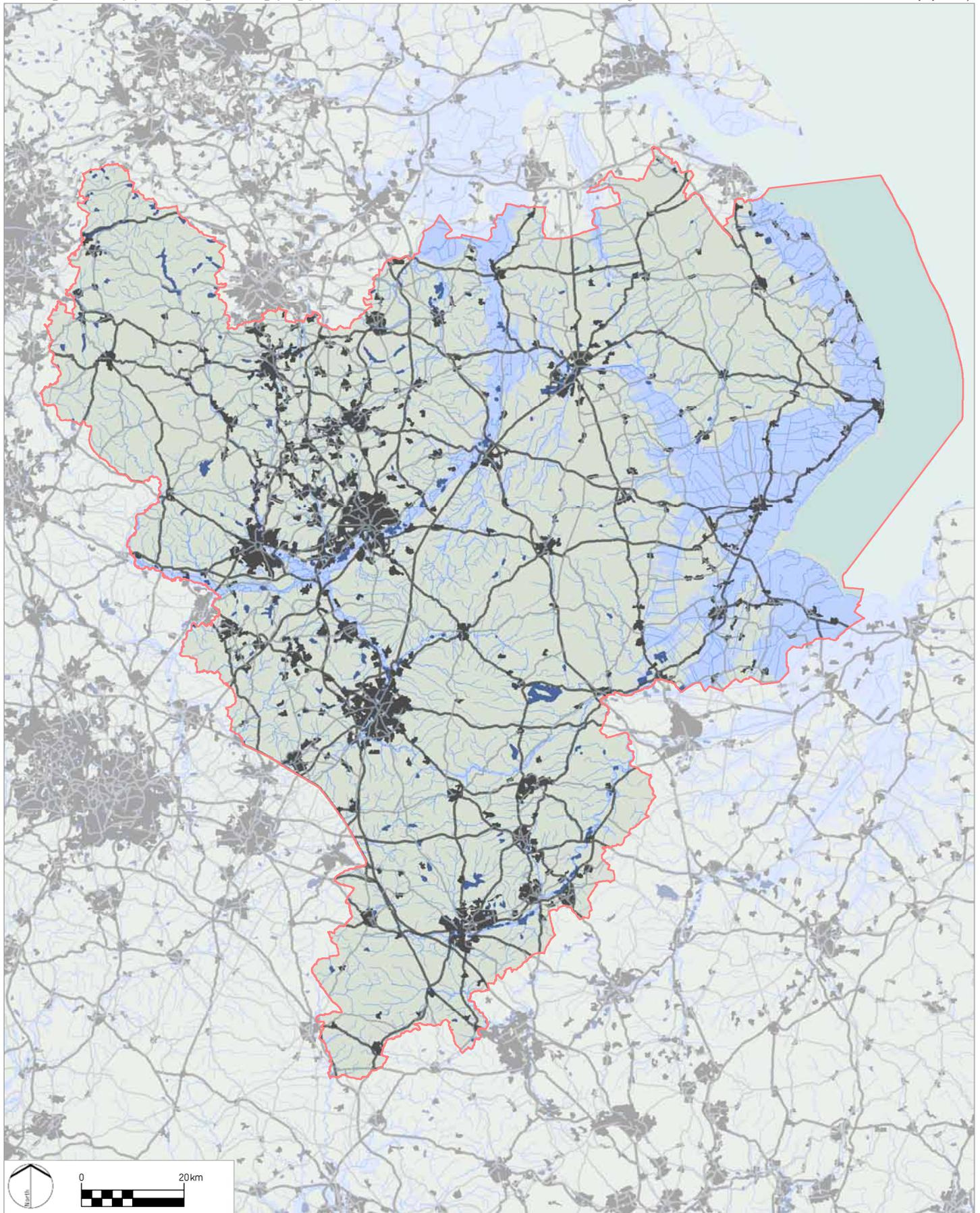
### Legend

 Study Area Boundary

 Major River

 Major Water Bodies

 Flood Zone



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Figure 9  
 Hydrology

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# FIGURE 10: LAND USE, AGRICULTURAL LAND QUALITY, FOREST TYPES AND ANCIENT WOODLAND

Plan illustrates the distribution of major land use types.

Agricultural land use is illustrated using CEH Land Cover Map 2000 data. Simplified land cover types are shown from the BH Sub theme.

Agricultural Land Classification illustrates ALC Grades 1-5, Non Agricultural and Urban. Grade 3 land includes both sub Grades 3a and 3b.

Woodland Types are illustrated using the Forestry Commission National Inventory of Woodland and Trees.

Ancient Woodland illustrates the distribution of Ancient Semi-natural Woodland (ASNW) and Planted Ancient Woodland Sites (PAWS).

## Legend

 Study Area Boundary

### Land Use

-  Broad-leaved woodland
-  Coniferous woodland
-  Arable and horticulture
-  Improved grassland
-  Neutral / unimproved grassland
-  Calcareous grassland
-  Acid grassland
-  Inland rock / quarry
-  Littoral sand
-  Open water

### Forest Types

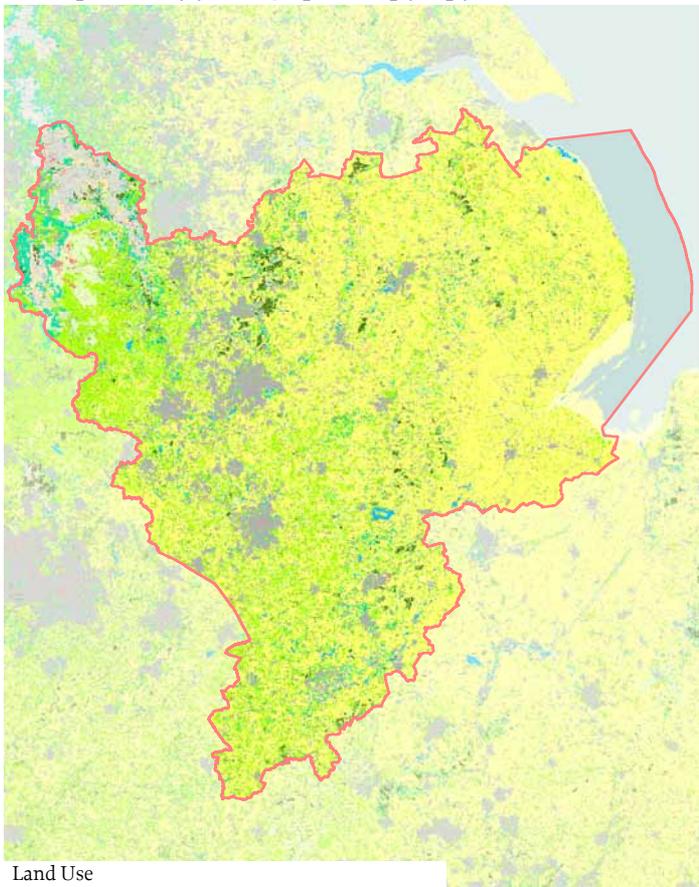
-  Broadleaved
-  Coniferous
-  Coppice
-  Felled
-  Ground prepared for planting
-  Mixed
-  Shrub
-  Young trees

## Agricultural Land Quality

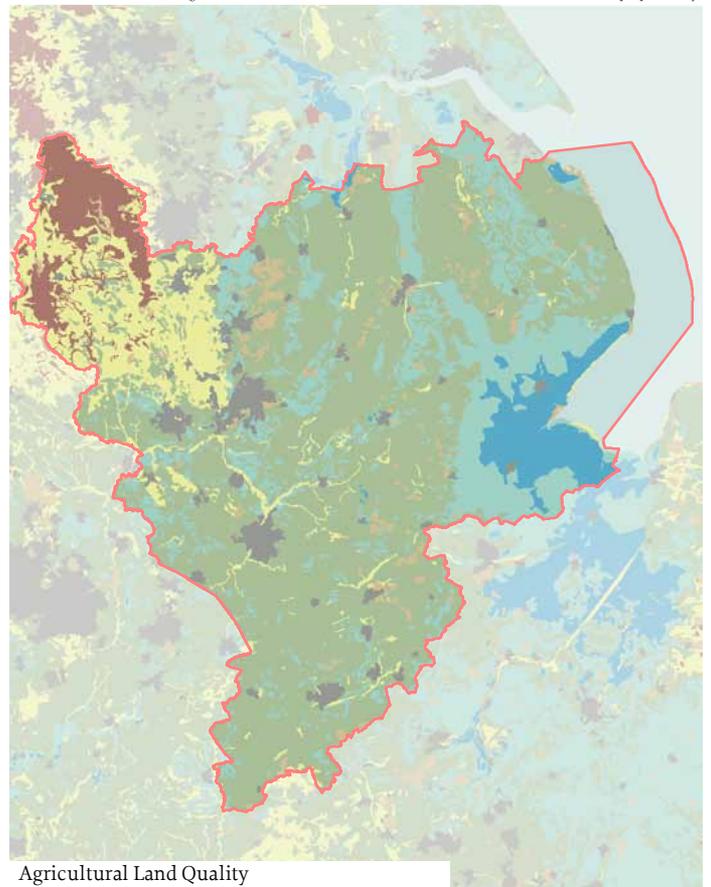
-  Grade 1
-  Grade 2
-  Grade 3
-  Grade 4
-  Grade 5
-  Non - Agricultural

## Ancient Woodland

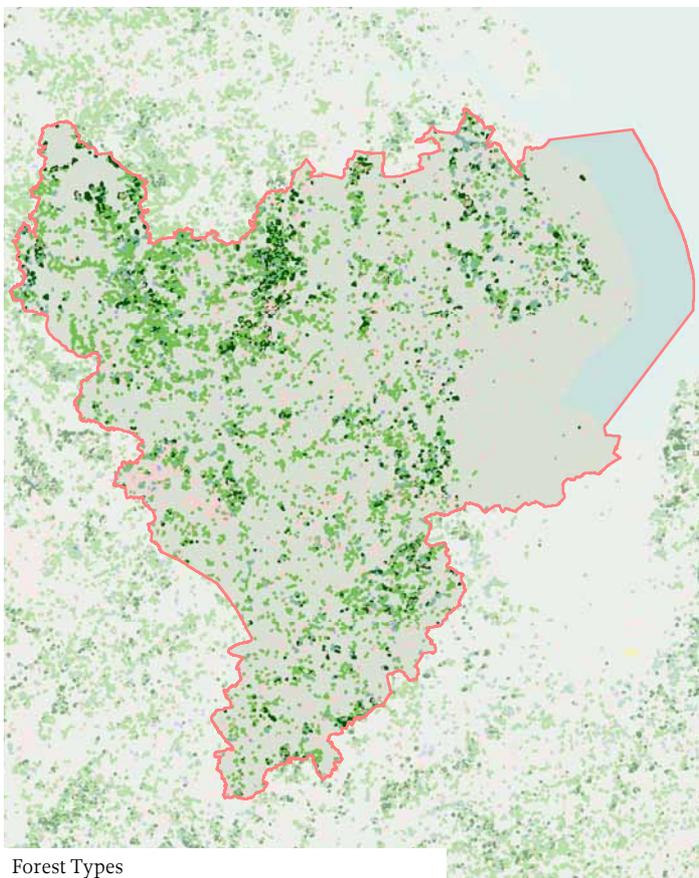
-  Ancient semi-natural woodland
-  Planted ancient woodlands sites



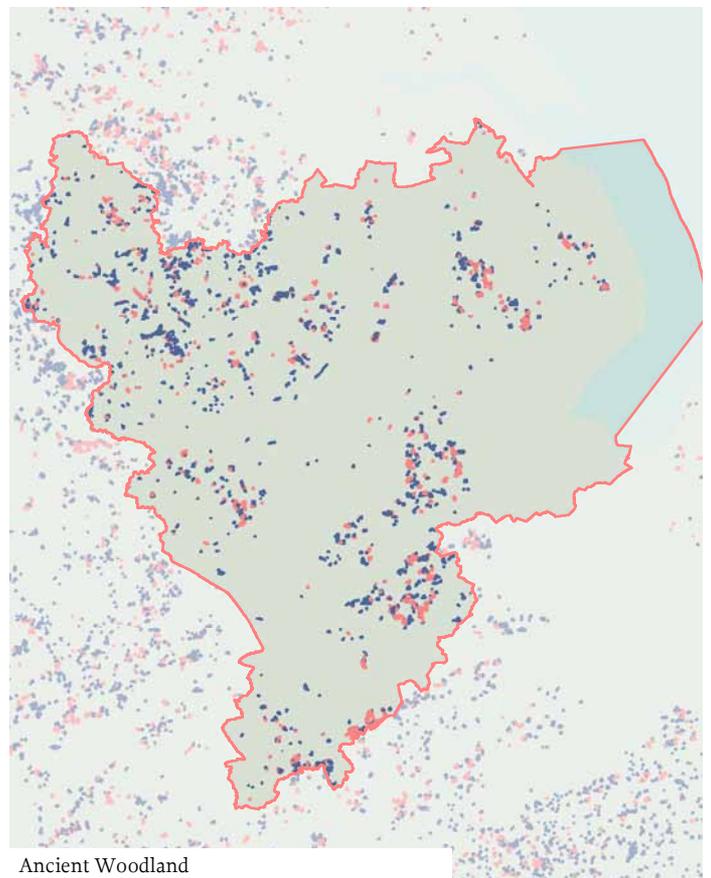
Land Use



Agricultural Land Quality



Forest Types



Ancient Woodland

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Figure 10  
Land Use, Agricultural Land Quality,  
Forest Types and Ancient Woodland

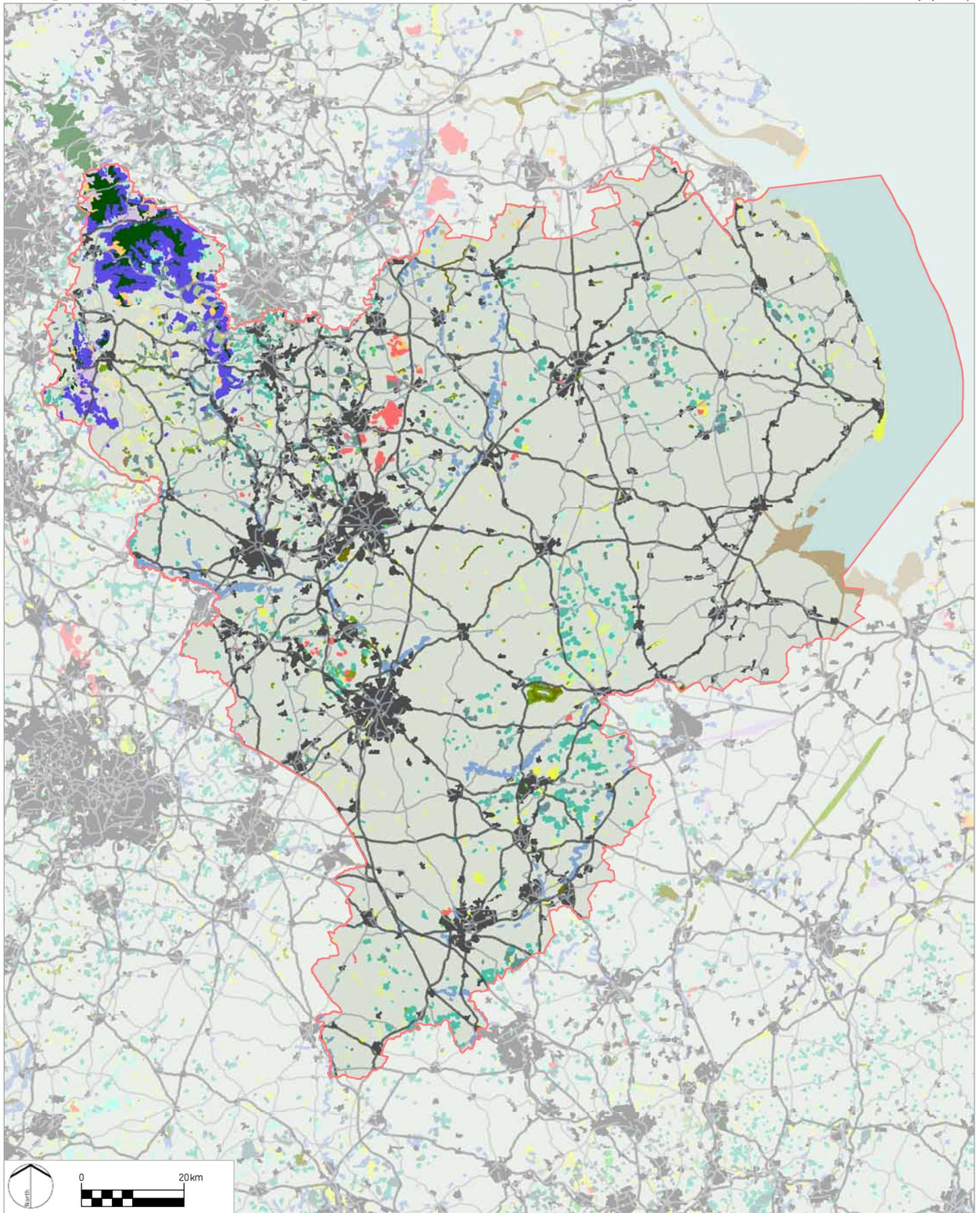


# FIGURE 11: DISTRIBUTION OF BIODIVERSITY ACTION PLAN (BAP) HABITATS

Plan illustrates distribution of BAP Habitats.  
The extents of habitats is exaggerated to enhance their visibility at the display scale.

## Legend

	Study Area Boundary
	Blanket bog
	Coastal & floodplain grazing marsh
	Coastal sand dunes
	Fens
	Lowland beech and yew woodland
	Lowland calcareous grassland
	Lowland dry acid grassland
	Lowland heathland
	Lowland meadows
	Lowland mixed deciduous woodland
	Mudflats
	Purple moor grass and rush pastures
	Reedbeds
	Saline lagoons
	Undetermined grassland
	Undetermined woodland
	Upland calcareous grassland
	Upland heathland
	Upland mixed ashwoods
	Upland oakwoods
	Wet woodland



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Figure 11  
 Distribution of  
 Biodiversity Action Plan (BAP) Habitats

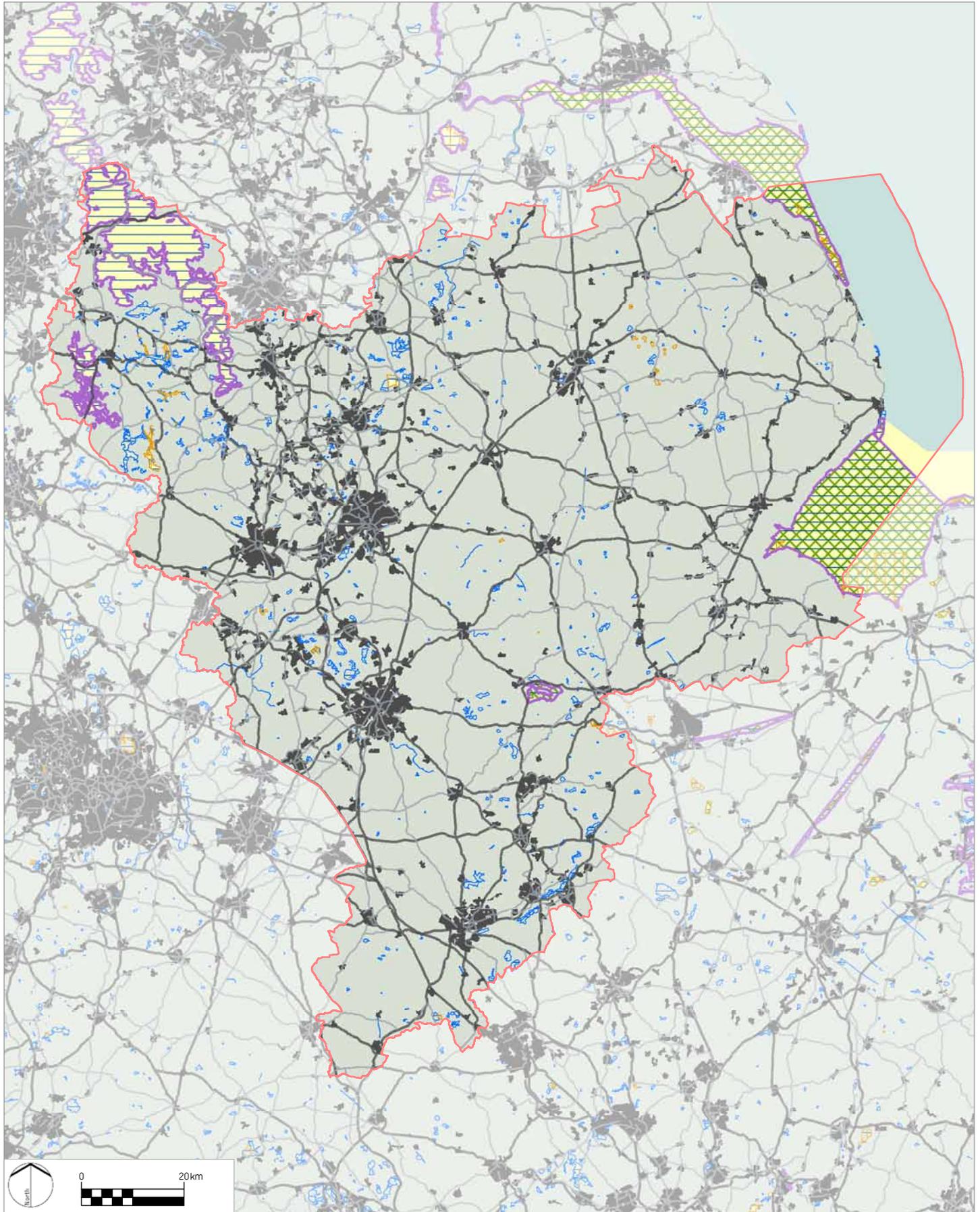
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## FIGURE 12: NATURE CONSERVATION DESIGNATIONS

Plan illustrates distribution of statutory nature conservation designations.

### Legend

	Study Area Boundary
	Special Protection Area (SPA)
	Site of Special Scientific Interest (SSSI)
	Ramsar Site
	National Nature Reserve (NNR)
	Special Area of Conservation (SAC)



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Figure 12  
 Nature Conservation Designations

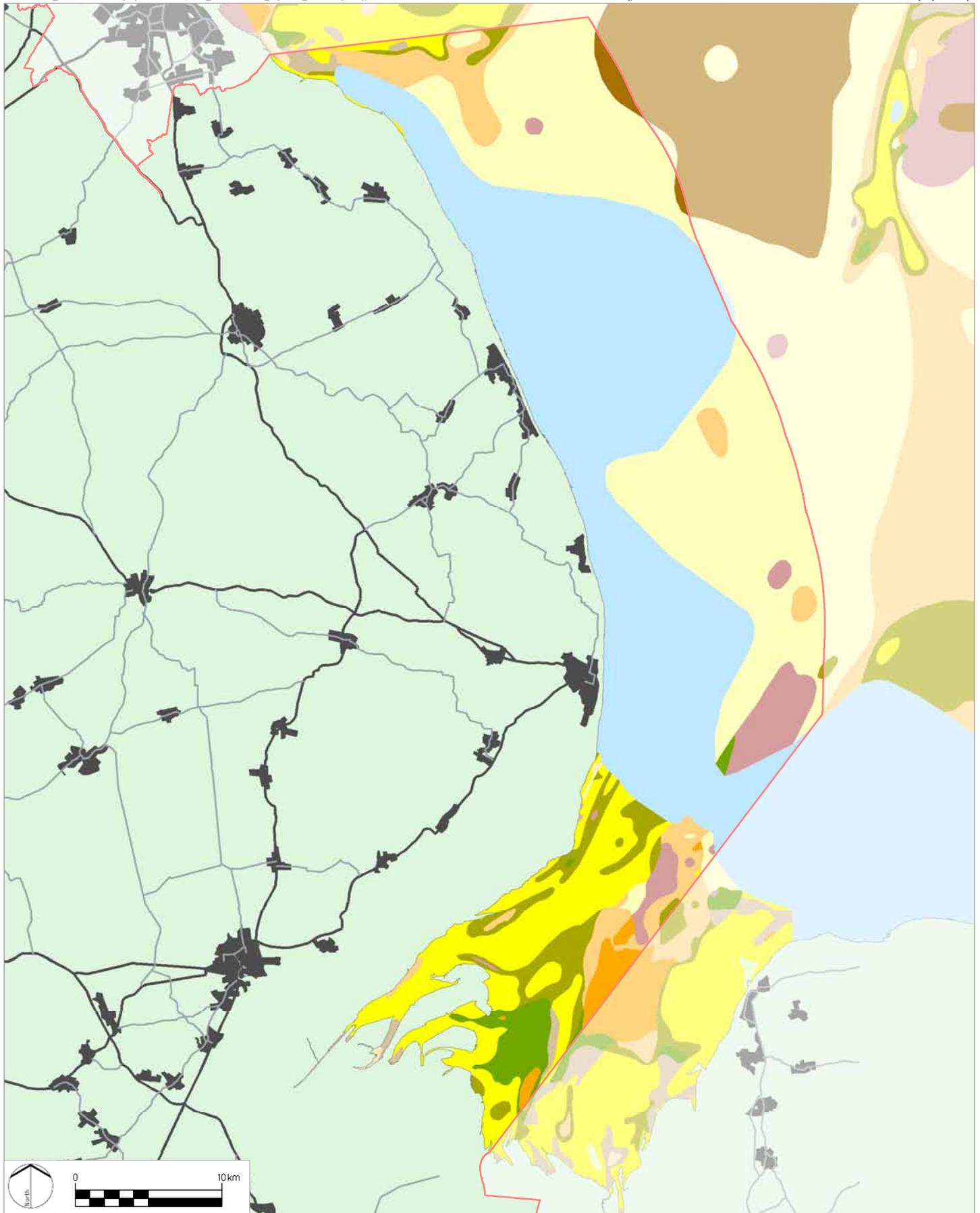
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# FIGURE 13: OFFSHORE GEOLOGY

Plan illustrates offshore geology.

## Legend

	Study Area Boundary
	Gravel
	Gravelly Muddy Sand
	Gravelly Sand
	Muddy Sand
	Muddy Sandy Gravel
	Sand
	Sandy Gravel
	Sandy Mud
	Shells
	Slightly Gravelly Muddy Sand
	Slightly Gravelly Sand
	No Data



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 LANDSCAPE CHARACTER ASSESSMENT  
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Figure 13  
 Offshore Geology

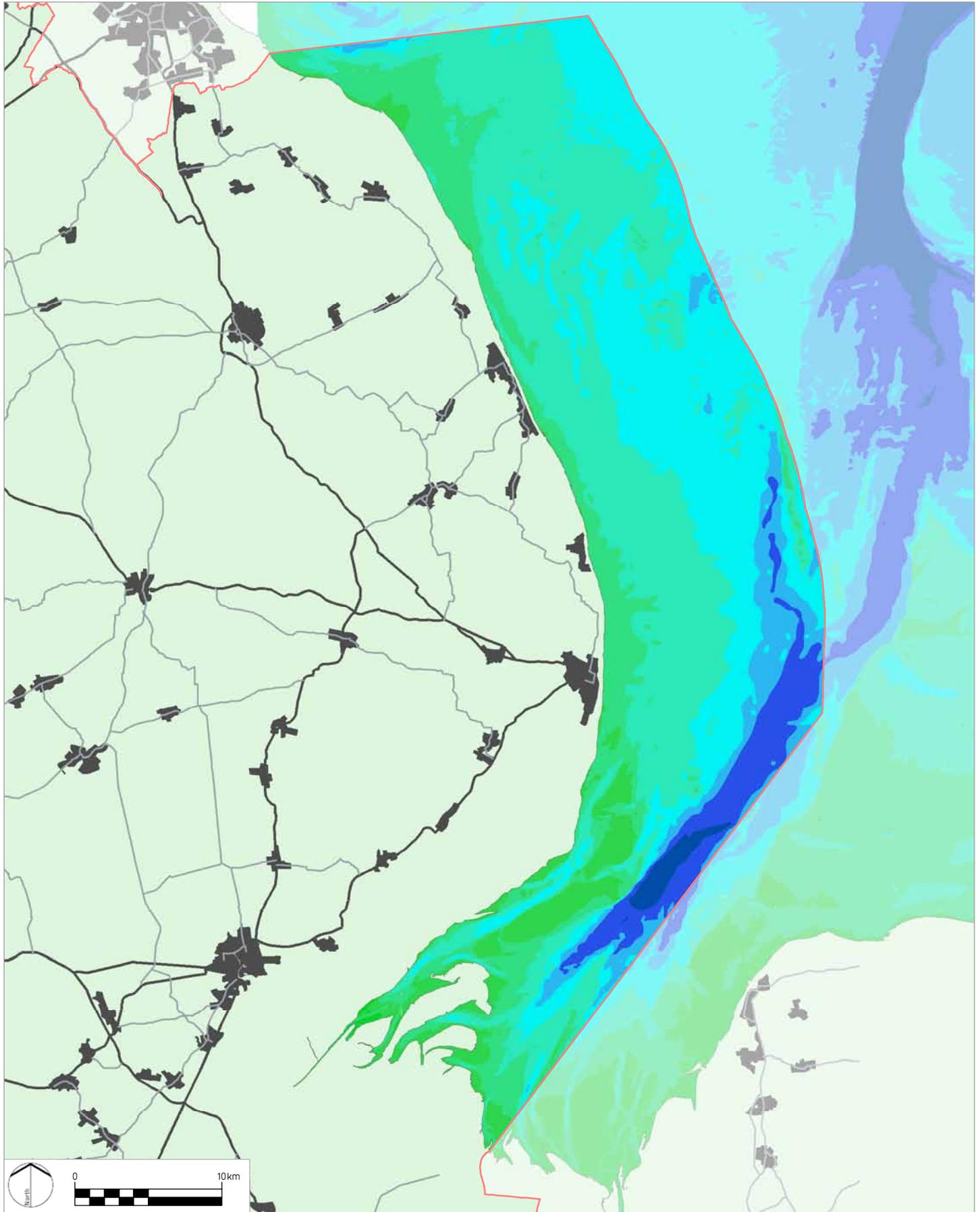
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## FIGURE 14: BATHYMETRY

Plan illustrates offshore bathymetry (sea depth).

### Legend

	Study Area Boundary
	+2m to Sea Level
	Sea Level to -5m
	-5m to -10m
	-10m to -15m
	-15m to -20m
	-20m to -25m
	-25m to -30m
	Depths greater than -30m



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Figure 14  
 Bathymetry

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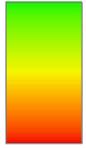
## FIGURE 15: TRANQUILLITY

Plan illustrates CPRE Tranquillity data. For further information refer to CPRE website ([www.cpre.org.uk](http://www.cpre.org.uk))

### Legend

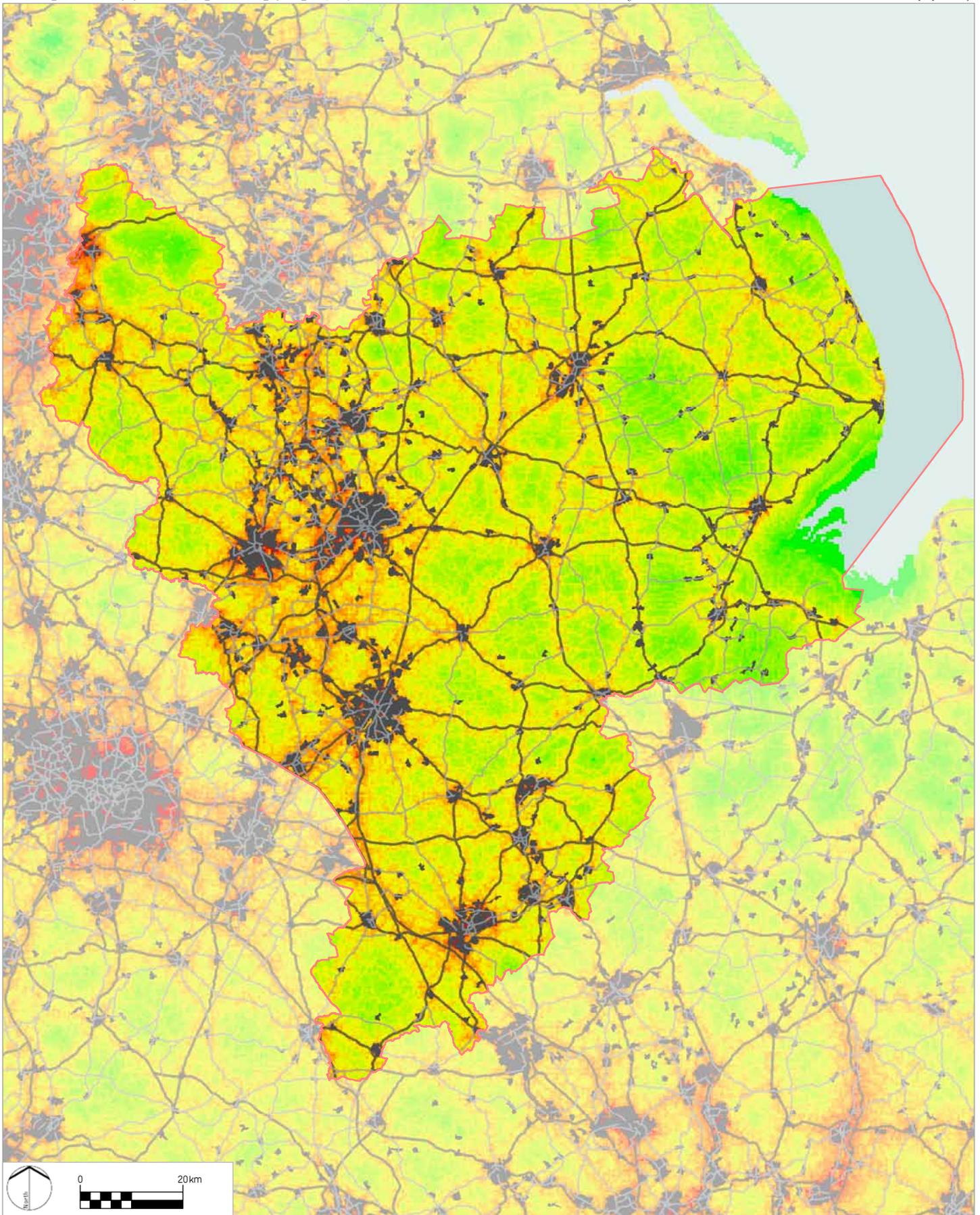


Study Area Boundary



Most Tranquil

Least Tranquil



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Figure 15  
 Tranquillity

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# FIGURE 16: INDEX OF MULTIPLE DEPRIVATION

Plan illustrates 2007 IMD Data, This is a measure of the deprivation for every Super Output Area and Local Authority Area in England. The IMD 2007 was constructed by combining seven transformed domain scores into a single deprivation score and rank.

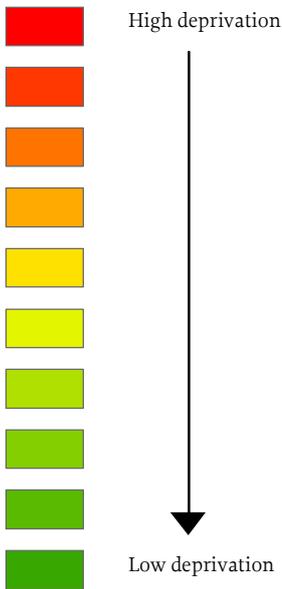
The domains and associated weightings are:

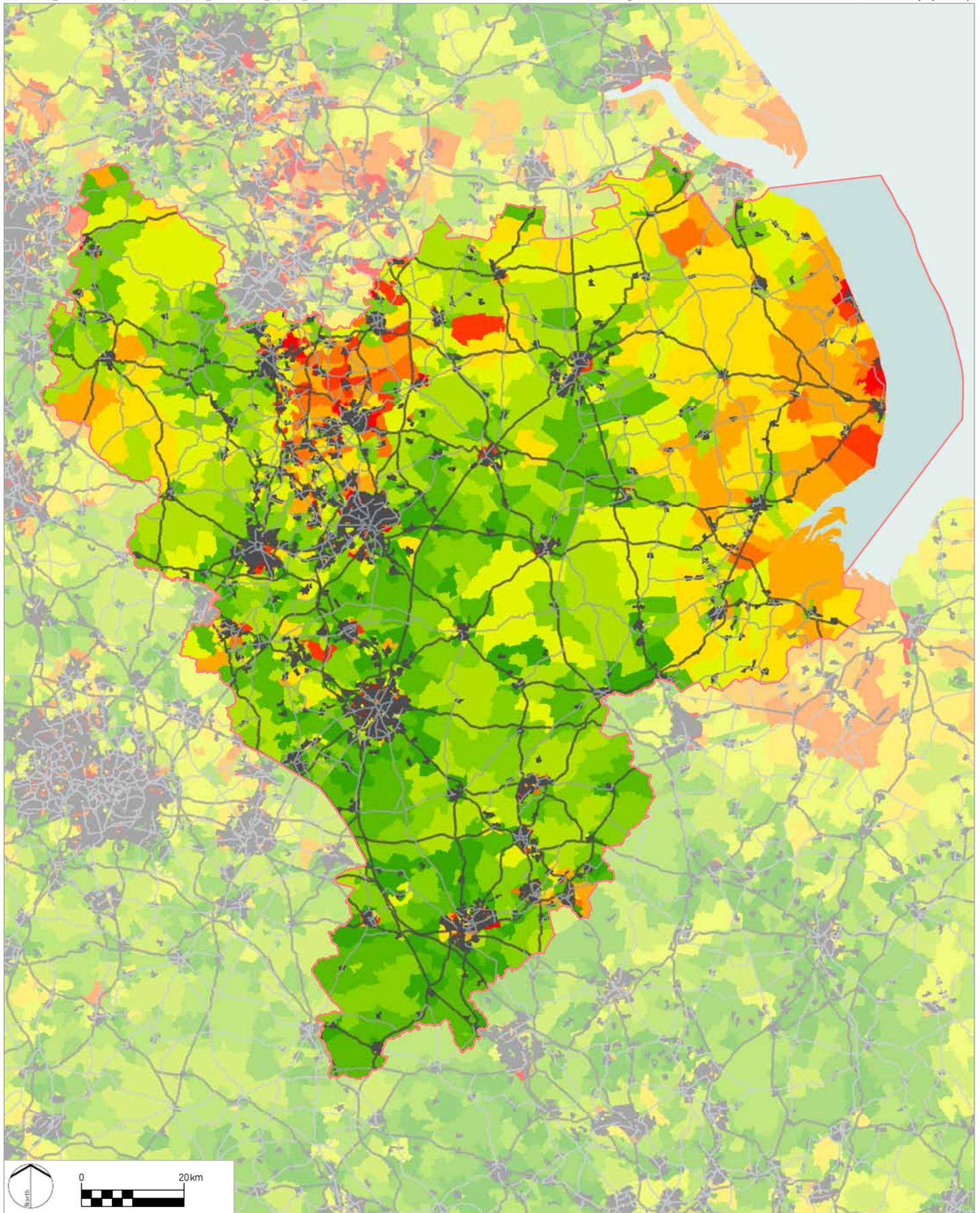
- Income (22.5%)
- Employment (22.5%)
- Health Deprivation and Disability (13.5%)
- Education, Skills and Training (13.5%)
- Barriers to Housing and Services (9.3%)
- Crime (9.3%)
- Living Environment (9.3%)

## Legend

-  Study Area Boundary
-  Built Up Area

## Index of Multiple Deprivation





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Figure 16  
 Index of Multiple Deprivation

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# FIGURE 17: REGIONAL LANDSCAPE CHARACTER TYPES

Plan illustrates distribution of Regional Landscape Character Types.

## Legend

 Study Area Boundary

 Built Up Area

### Group 1: Coast and Sea

 1a: Coastal Saltmarshes and Mudflats

 1b: Coastal Dunes, Beach and Intertidal Sand Flats

 1c: Shallow Coastal Waters

 1d: Shallow Inlet Bay

 1e: Offshore Industries, Fisheries and Navigations

### Group 2: Fenland and Fenland Margins

 2a: Settled Fens and Marshes

 2b: Planned and Drained Fens and Carrlands

 2c: Fen and Marsh Margin Farmlands

### Group 3: River Valley Floodplains

 3a: Floodplain Valleys

 3b: Sandland Farmlands

### Group 4: Lowland Vales

 4a: Unwooded Vales

 4b: Wooded Vales

### Group 5: Village Farmlands

 5a: Village Farmlands

 5b: Wooded Village Farmlands

 5c: Undulating Mixed Farmlands

### Group 6: Limestone Farmlands

 6a: Limestone Scarps and Dipslopes

 6b: Upland Limestone Pastures

 6c: Limestone Dales

 6d: Limestone Farmlands

### Group 7: Chalk Wolds

 7a: Chalk Wolds

 7b: Wolds Scarps, Ridges and Valleys

### Group 8: Clay Wolds

 8a: Clay Wolds

### Group 9: Coalfields

 9a: Settled Coalfield Farmlands

### Group 10: Woods and Forests

 10a: Forest Hills and Ridges

 10b: Sandstone Forests and Heaths

 10c: Wooded Slopes and Valleys

 10d: Forested Ancient Hills

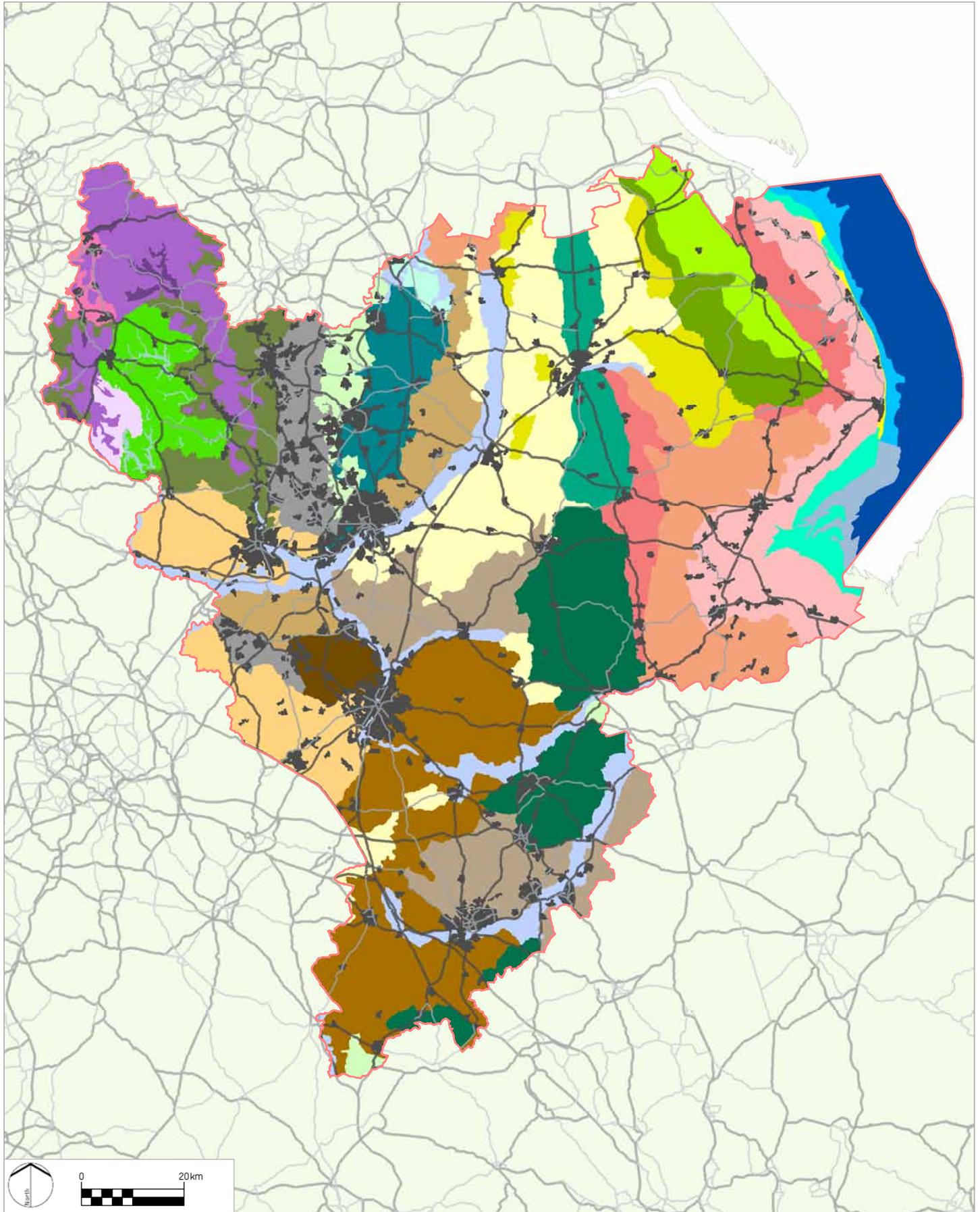
### Group 11: Gritstone Moors and Fringes

 11a: Open Moors and Inbye Land

 11b: Moorland Valleys

 11c: Settled Valleys and Enclosed Gritstone Uplands

 11d: Upland Pastoral Hills and Valleys



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Figure 17  
 Regional Landscape Character Types

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# FIGURE 18: NATIONAL CHARACTER AREAS AND REGIONAL LANDSCAPE CHARACTER TYPES

Plan illustrates Natural England's National Character Areas and Regional Landscape Character Types

## Legend

-  Study Area Boundary
-  Built Up Area
-  National Character Area Boundary
-  National Character Area Number

- |  |  |
|--|--|
| 30 - Southern Magnesian Limestone                        | 68 - Needwood and South Derbyshire Claylands       |
| 36 - Southern Pennines                                   | 69 - Trent Valley Washlands                        |
| 37 - Yorkshire Southern Penine Fringe                    | 70 - Melbourne Parklands                           |
| 38 - Nottinghamshire, Derbyshire and Yorkshire Coalfield | 71 - Leicestershire and South Derbyshire Coalfield |
| 39 - Humberhead Levels                                   | 72 - Mease/Sence Lowlands                          |
| 42 - Lincolnshire Coast and Marshes                      | 73 - Charnwood                                     |
| 43 - Lincolnshire Wolds                                  | 74 - Leicestershire and Nottinghamshire Wolds      |
| 44 - Central Lincolnshire Vale                           | 75 - Kesteven Uplands                              |
| 45 - Northern Lincolnshire Edge with Coversands          | 88 - Bedfordshire and Cambridgeshire Claylands     |
| 46 - The Fens  | 89 - Northamptonshire Vales                        |
| 47 - Southern Lincolnshire Edge                          | 91 - Yardley - Whittlewood Ridge                   |
| 48 - Trent and Belvoir Vales                             | 92 - Rockingham Forest                             |
| 49 - Sherwood  | 93 - High Leicestershire                           |
| 50 - Derbyshire Peak Fringe and Lower Derwent            | 94 - Leicestershire Vales                          |
| 51 - Dark Peak   | 95 - Northamptonshire Uplands                      |
| 52 - White Peak  | 96 - Dunsmore and Feldon                           |
| 53 - South West Peak                                     | 107 - Cotswolds                                    |
| 54 - Manchester Pennine Fringe                           |  |
| 64 - Potteries and Churnet Valley                        |  |

### Group 1: Coast and Sea

-  1a: Coastal Saltmarshes and Mudflats
-  1b: Coastal Dunes, Beach and Intertidal Sand Flats
-  1c: Shallow Coastal Waters
-  1d: Shallow Inlet Bay
-  1e: Offshore Industries, Fisheries and Navigations

### Group 2: Fenland and Fenland Margins

-  2a: Settled Fens and Marshes
-  2b: Planned and Drained Fens and Carrlands
-  2c: Fen and Marsh Margin Farmlands

### Group 3: River Valley Floodplains

-  3a: Floodplain Valleys
-  3b: Sandland Farmlands

### Group 4: Lowland Vales

-  4a: Unwooded Vales
-  4b: Wooded Vales

### Group 5: Village Farmlands

-  5a: Village Farmlands
-  5b: Wooded Village Farmlands
-  5c: Undulating Mixed Farmlands

### Group 6: Limestone Farmlands

-  6a: Limestone Scarps and Dipslopes
-  6b: Upland Limestone Pastures
-  6c: Limestone Dales
-  6d: Limestone Farmlands

### Group 7: Chalk Wolds

-  7a: Chalk Wolds
-  7b: Wolds Scarps, Ridges and Valleys

### Group 8: Clay Wolds

-  8a: Clay Wolds

### Group 9: Coalfields

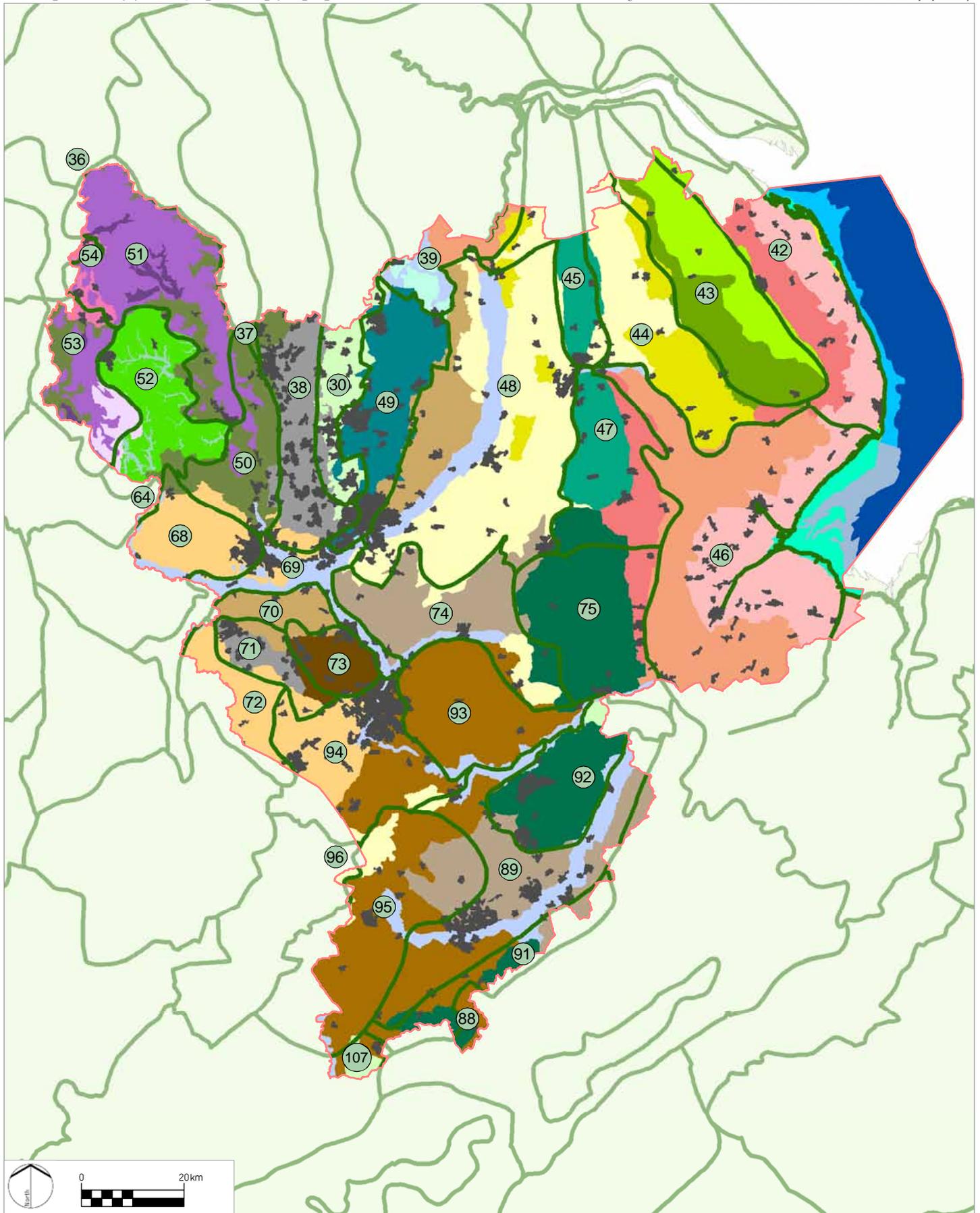
-  9a: Settled Coalfield Farmlands

### Group 10: Woods and Forests

-  10a: Forest Hills and Ridges
-  10b: Sandstone Forests and Heaths
-  10c: Wooded Slopes and Valleys
-  10d: Forested Ancient Hills

### Group 11: Gritstone Moors and Fringes

-  11a: Open Moors and Inbye Land
-  11b: Moorland Valleys
-  11c: Settled Valleys and Enclosed Gritstone Uplands
-  11d: Upland Pastoral Hills and Valleys



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Figure 18  
 National Character Areas  
 and  
 Regional Landscape Character Types

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