

AENC-ARC-ENV-REP-0129

Norwich to Tilbury

Volume 6: Environmental Statement

Document: 6.19 Scoping Report - Appendix A - Part 4 of 8

Final Issue A

August 2025

Planning Inspectorate Reference: EN020027

Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 Regulation 5(2)(a)

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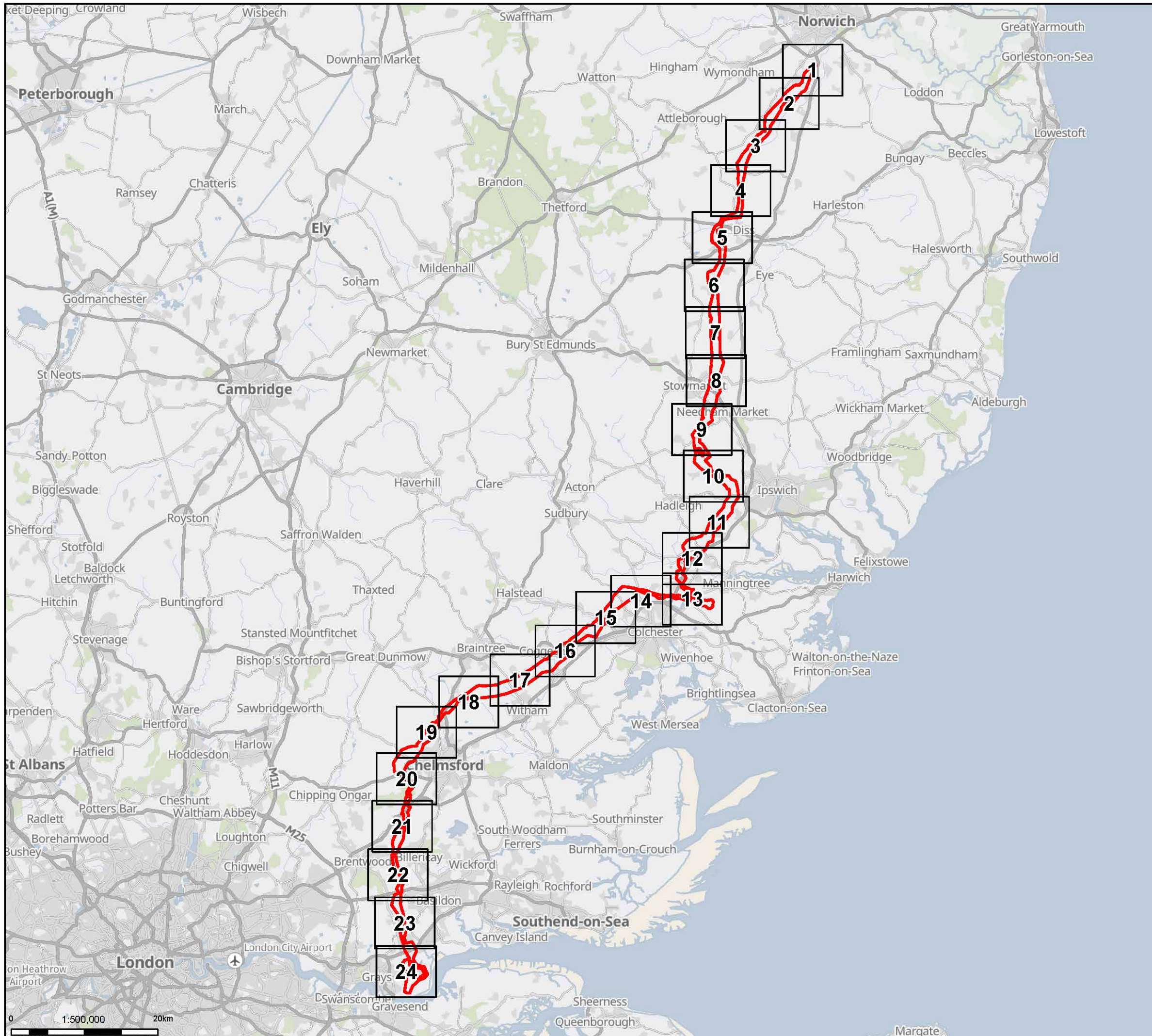
East Anglia Green Energy Enablement (GREEN)

EIA Scoping Report

Appendix A – Part 4 of 8
Figures 9.1 – 9.2 (Chapter 9)

November 2022

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Legend
 Scoping Report Corridor
Boxes represent the extent of the following pages

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Figure 9.1
Superficial Geology
Overview

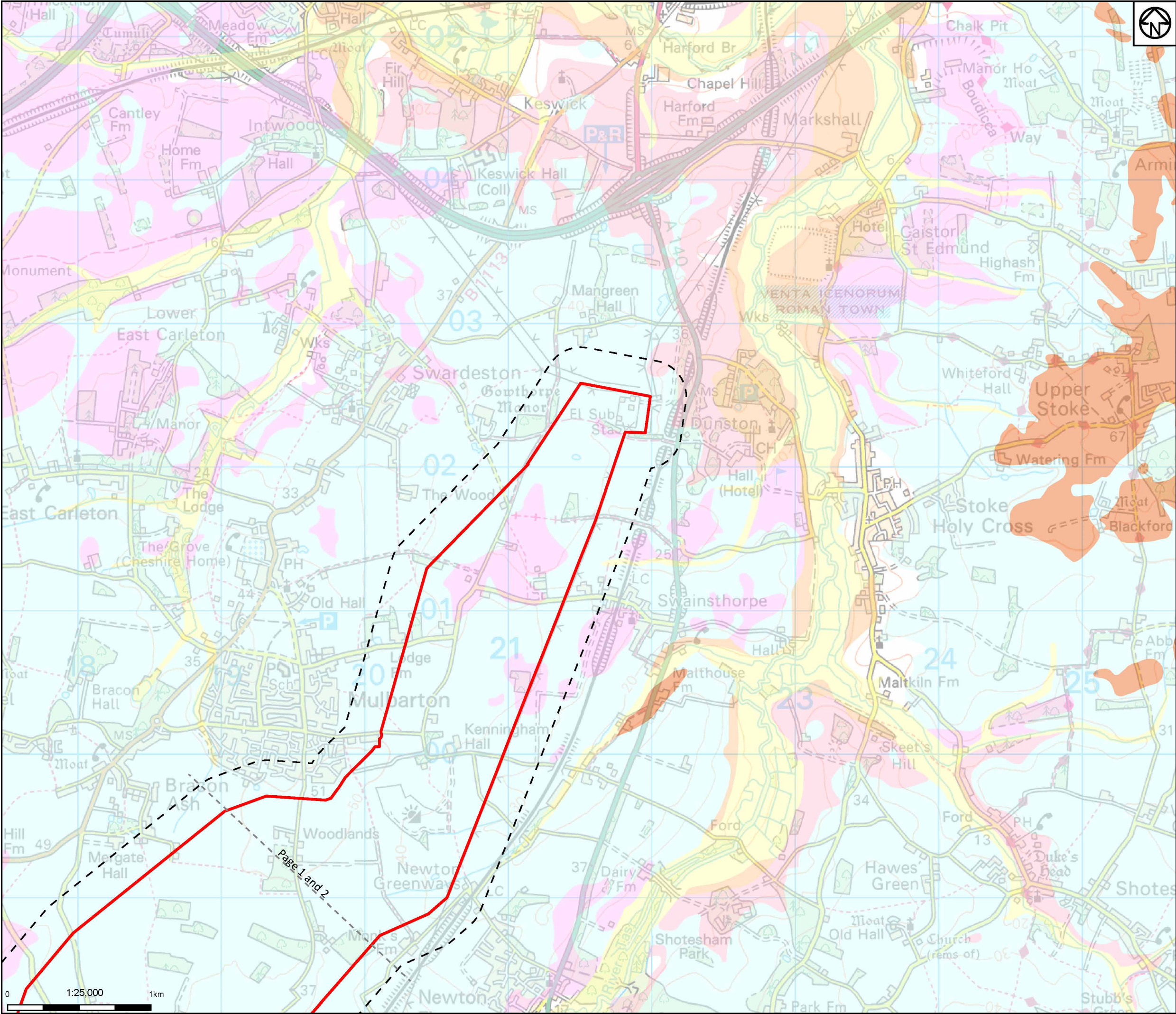
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Suitability Description:

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Revision:
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- River Terrace Deposits
- Sheringham Cliffs Formation
- Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated)
- Lowestoft Formation
- Lowestoft Formation
- Leet Hill

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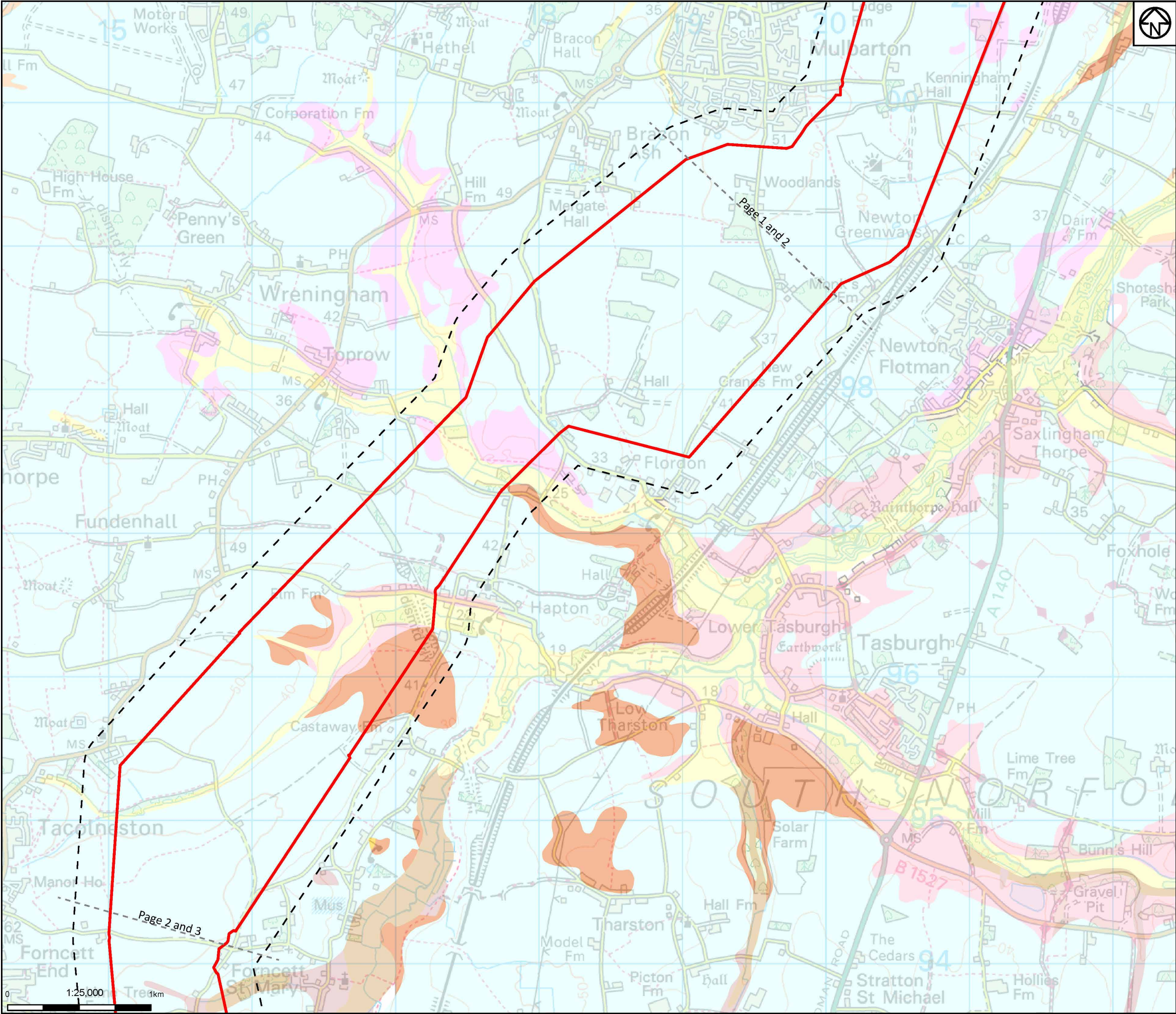
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PROJECT

Title:

Figure 9.1
Superficial Geology
Page 1 of 24

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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated)
- Lowestoft Formation
- Lowestoft Formation
- Leet Hill Sand and Gravel Member
- Lowestoft Formation
- Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated) - Clay and Silt

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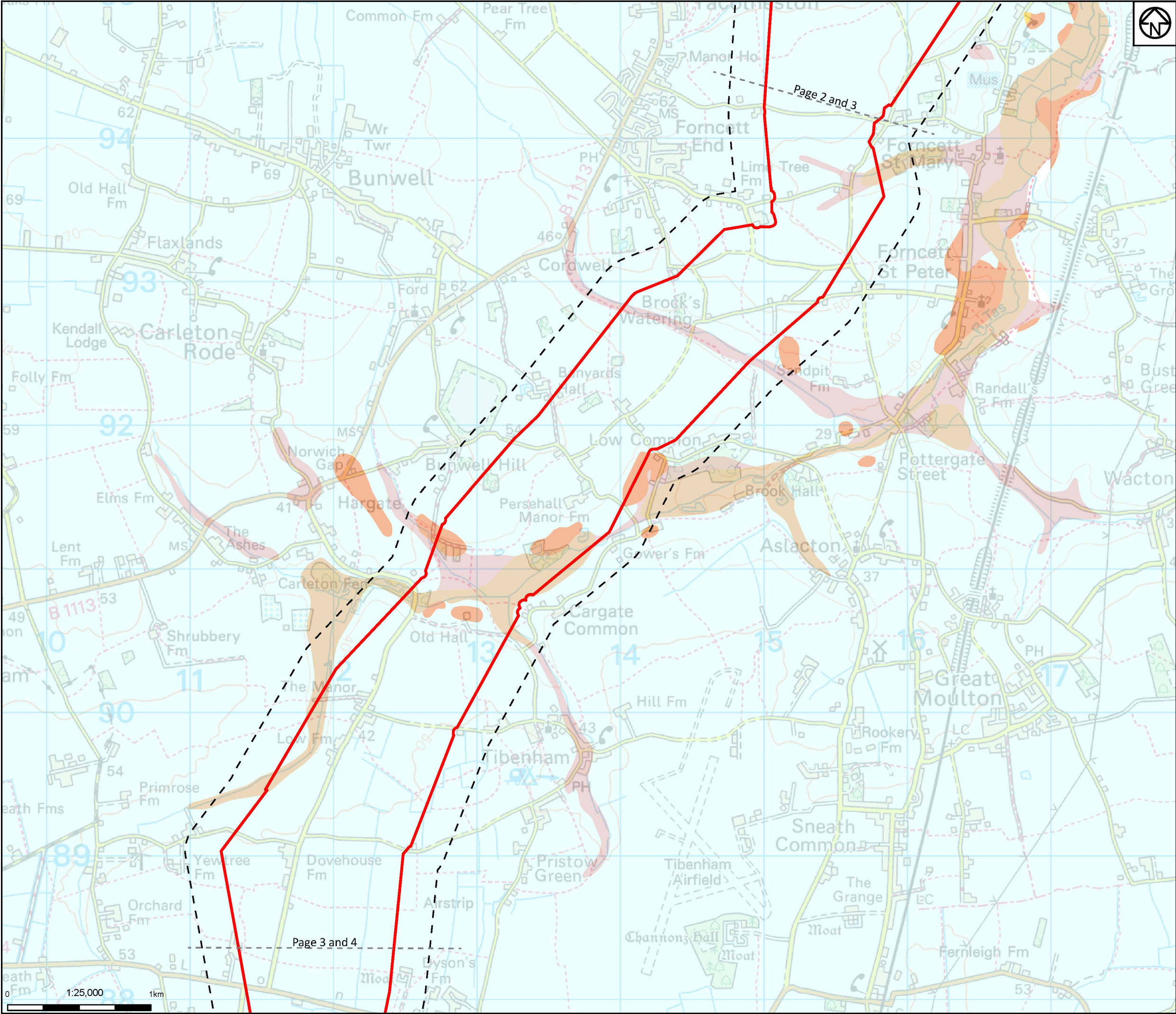
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Figure 9.1
Superficial Geology
Page 2 of 24

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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Head
- Peat
- Lowestoft Formation
- Lowestoft Formation
- Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated) - Clay and Silt

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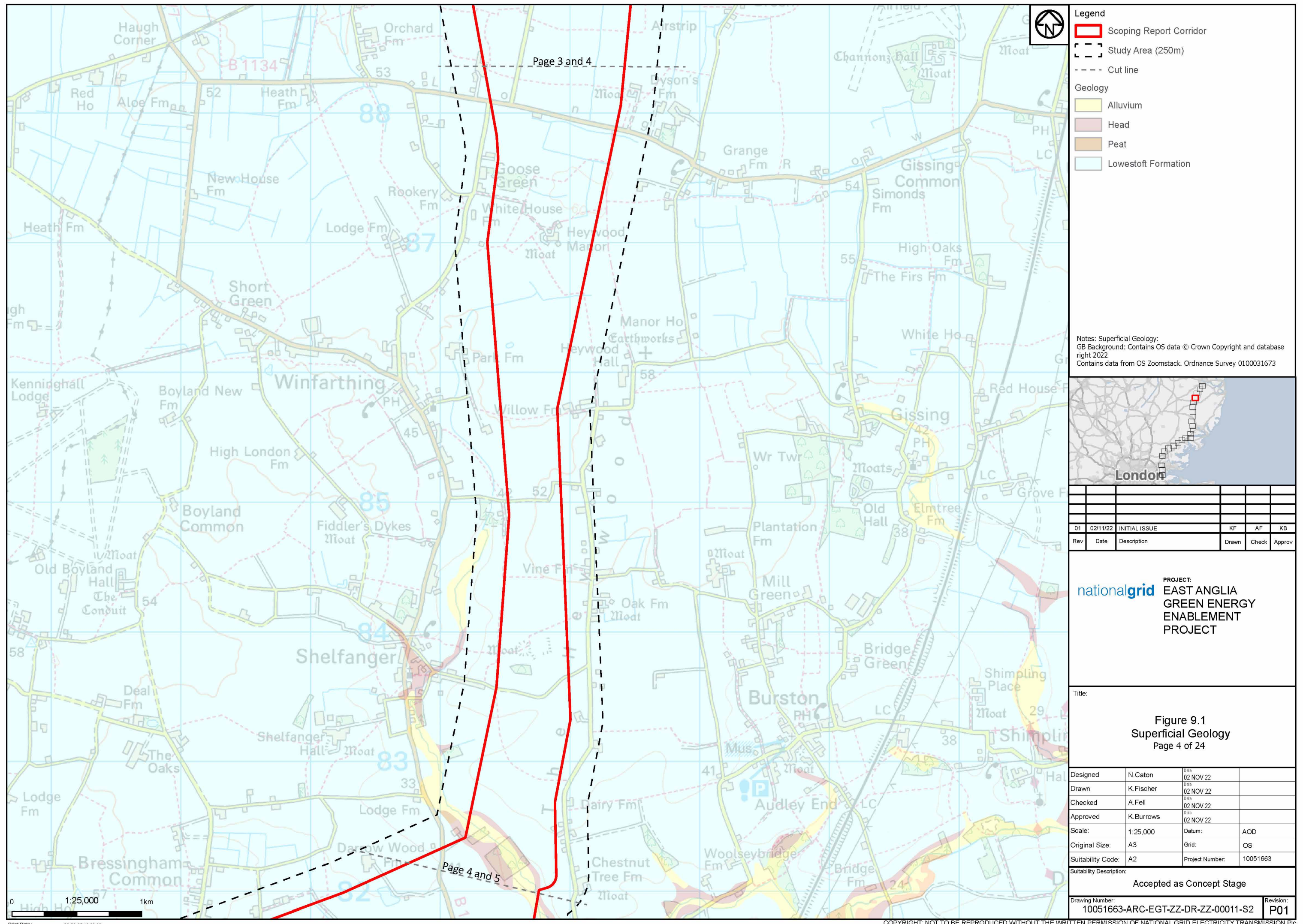
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Superficial Geology
Page 3 of 24

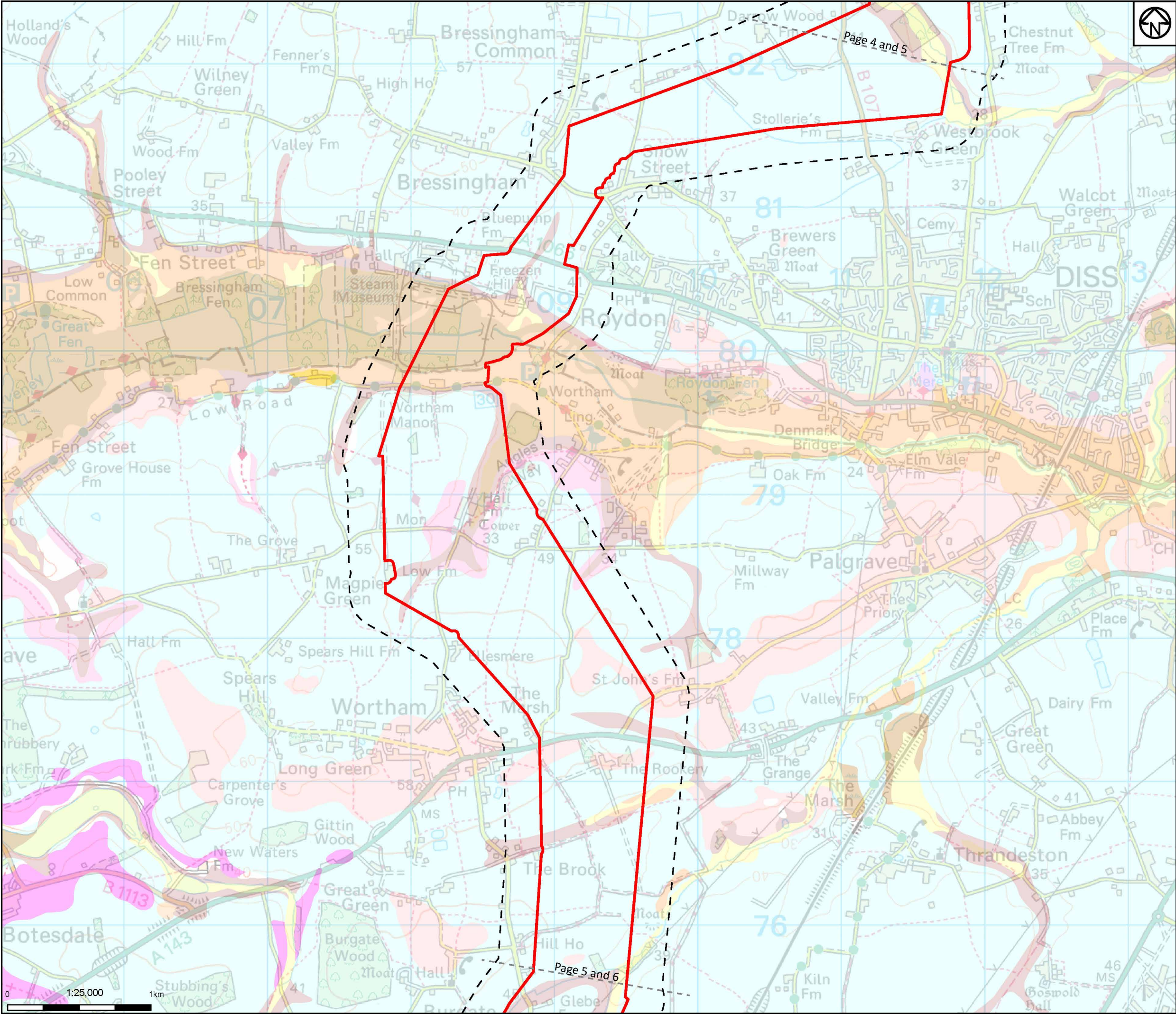
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Head
 - Peat
 - River Terrace Deposits
 - Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated)
 - Lowestoft Formation
 - Happisburgh Glacigenic Formation and Lowestoft Formation (Undifferentiated) - Clay and Silt
 - Ingham Sand and Gravel Formation
 - Croxton Sand and Gravel Member
 - Kesgrave Catchment Subgroup
 - Lodge Farm Silt and Clay Member

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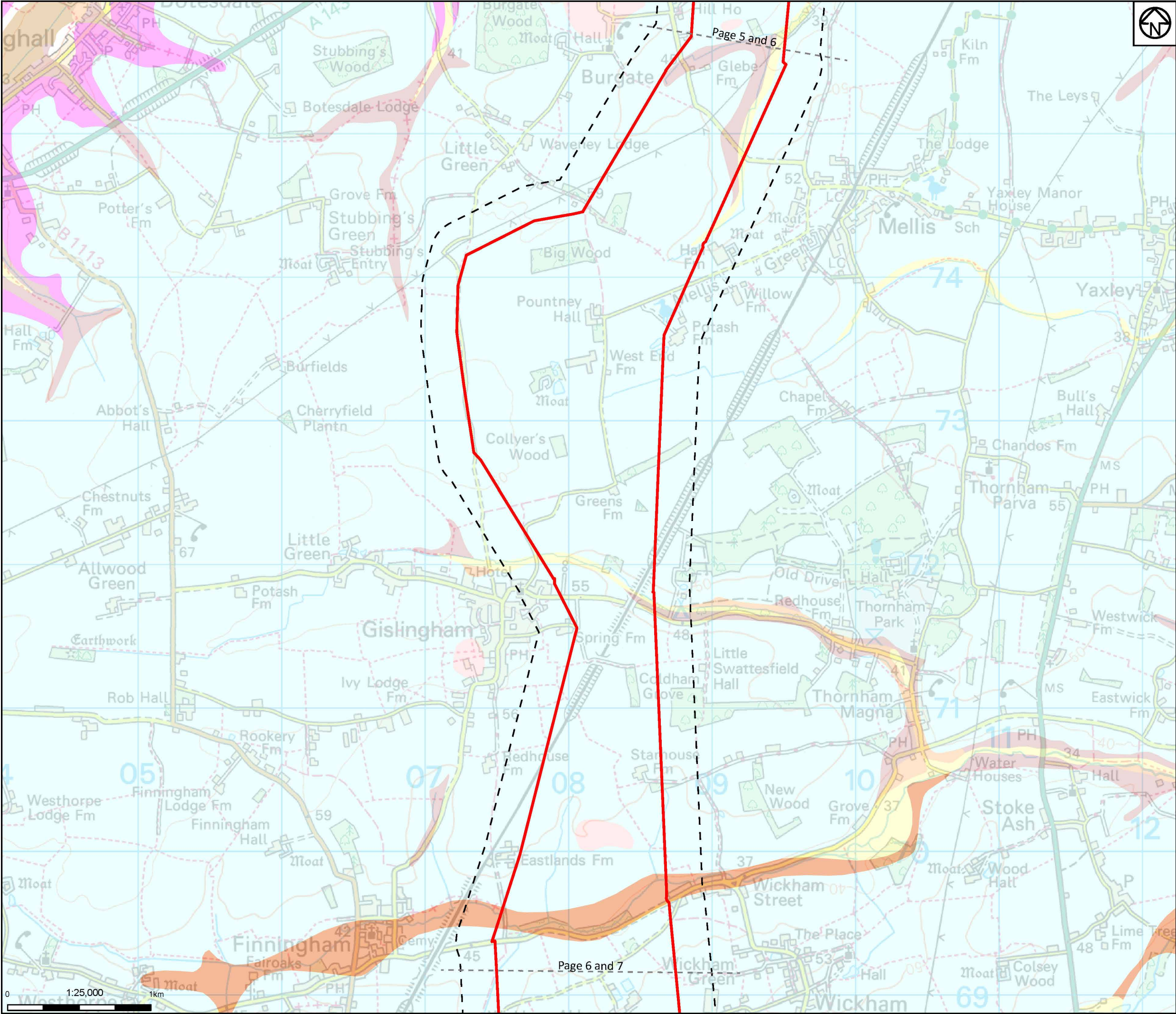
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Superficial Geology
Page 5 of 24

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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Croxton Sand and Gravel Member
- Kesgrave Catchment Subgroup

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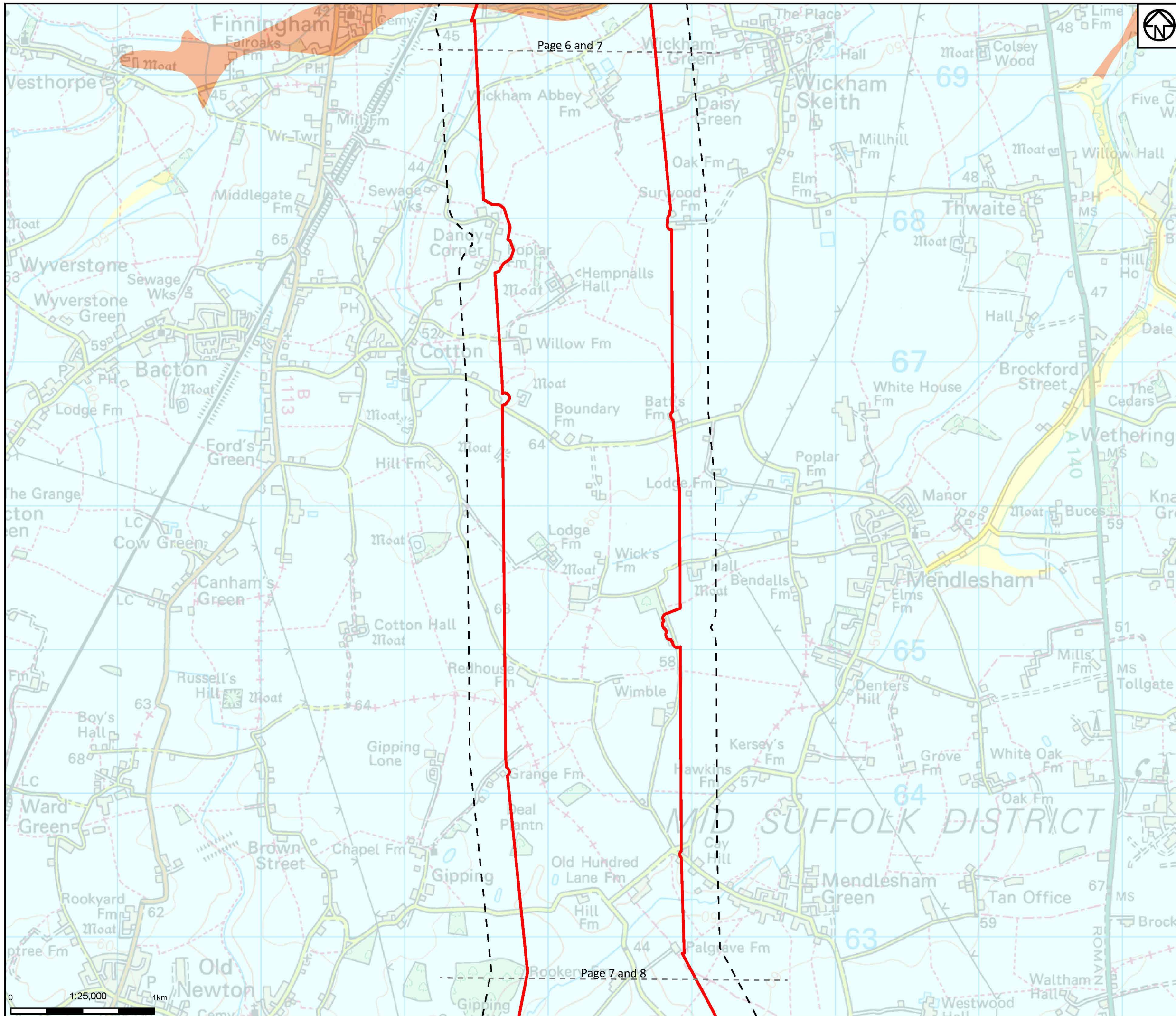
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Page 6 of 24

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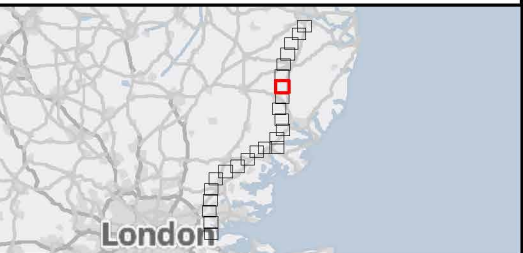
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- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Lowestoft Formation
- Lowestoft Formation

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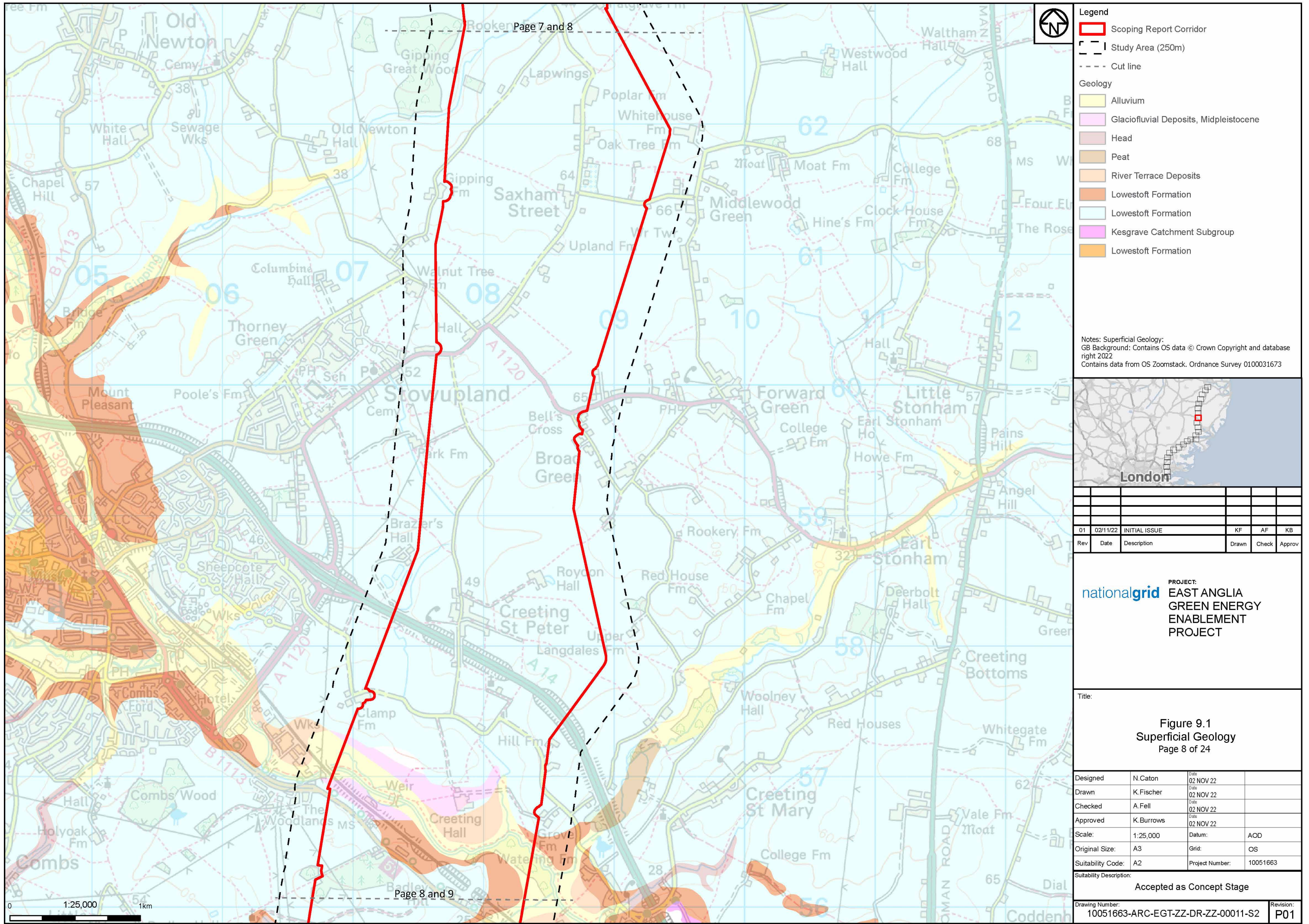
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Superficial Geology
Page 7 of 24

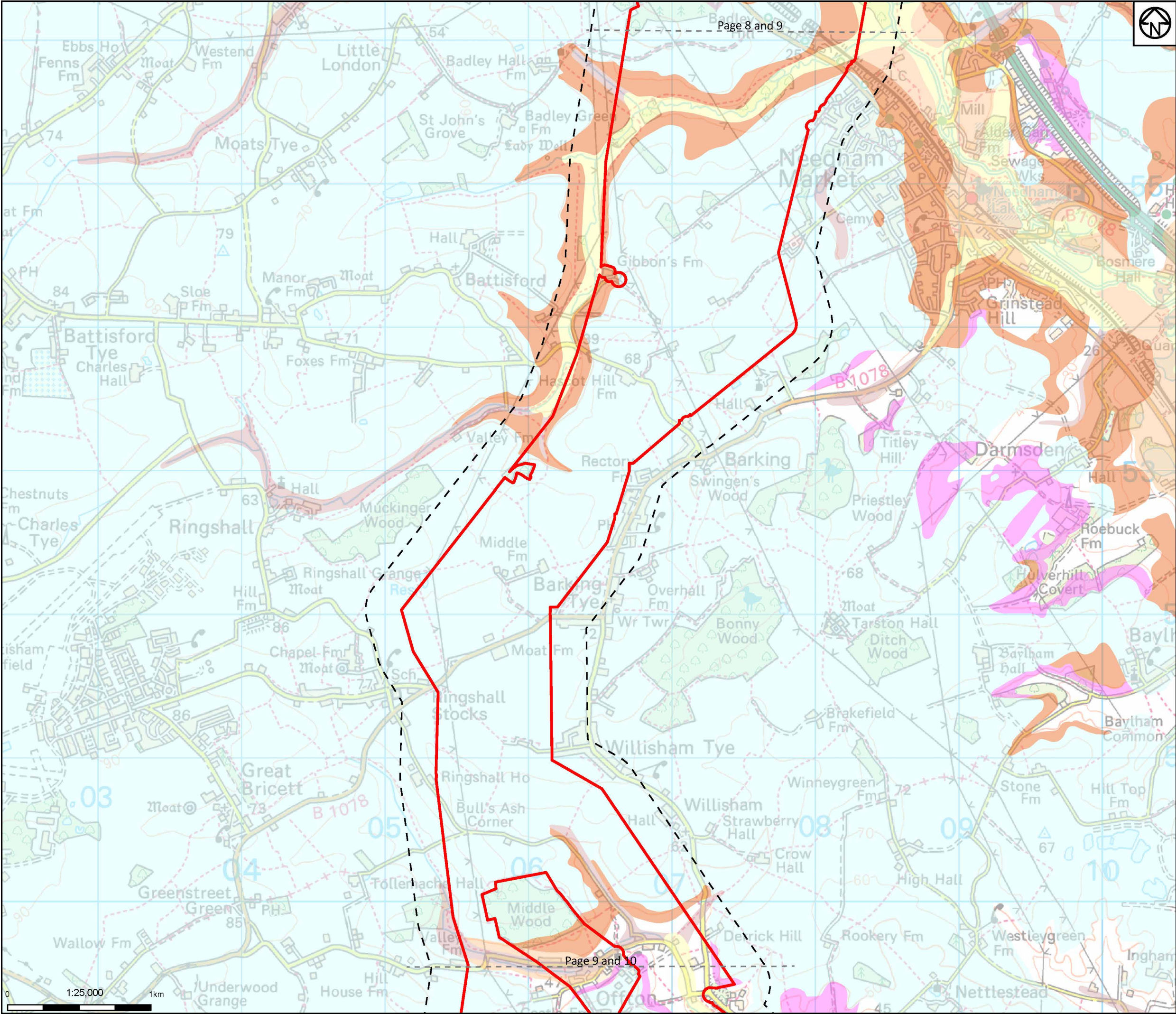
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Legend

Scoping Report Corridor

Study Area (250m)

Cut line

Geology

Alluvium

Glaciolacustrine Deposits, Midpleistocene

Head

River Terrace Deposits

Lowestoft Formation

Lowestoft Formation

Kesgrave Catchment Subgroup

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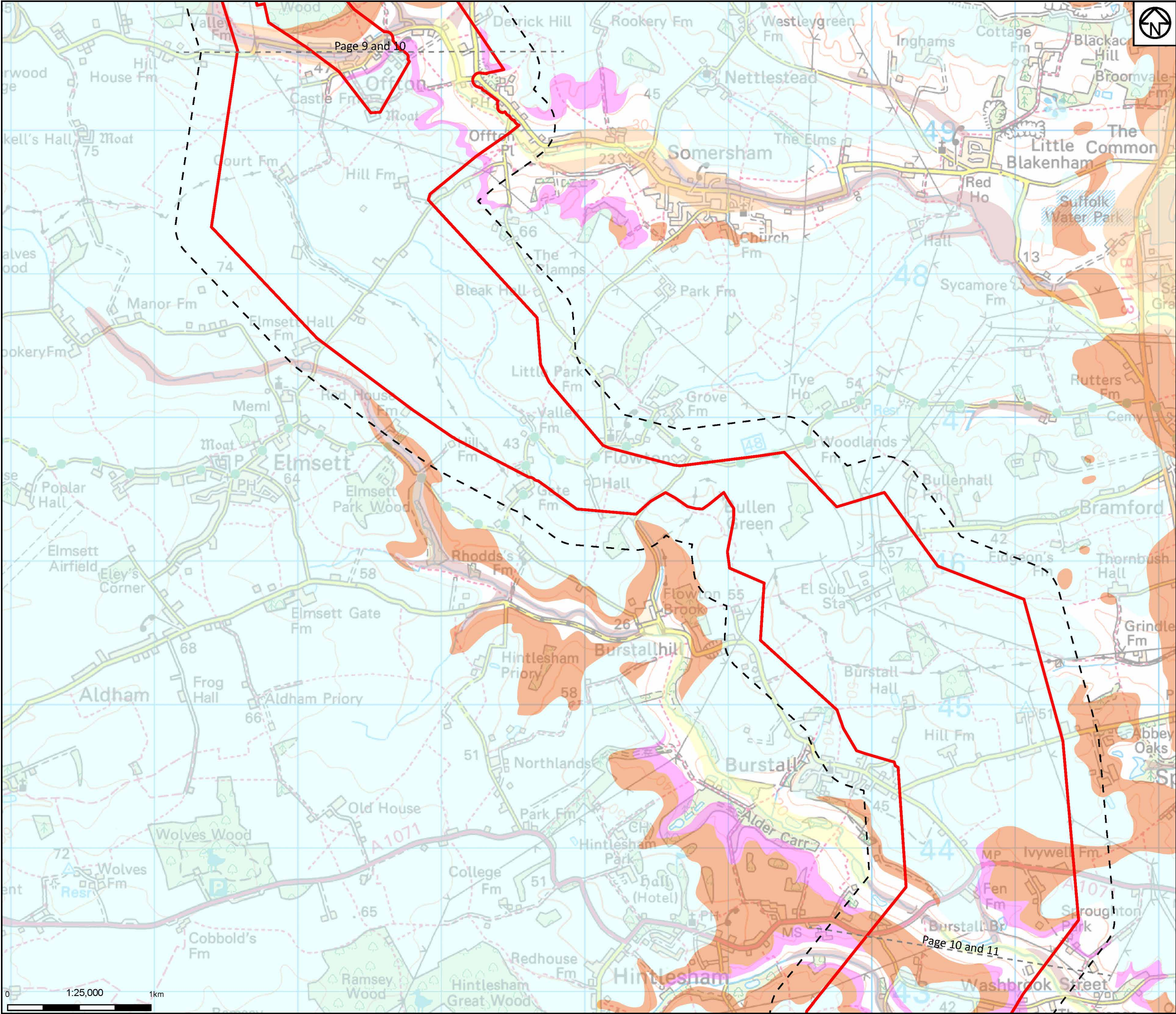
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Page 9 of 24

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- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup

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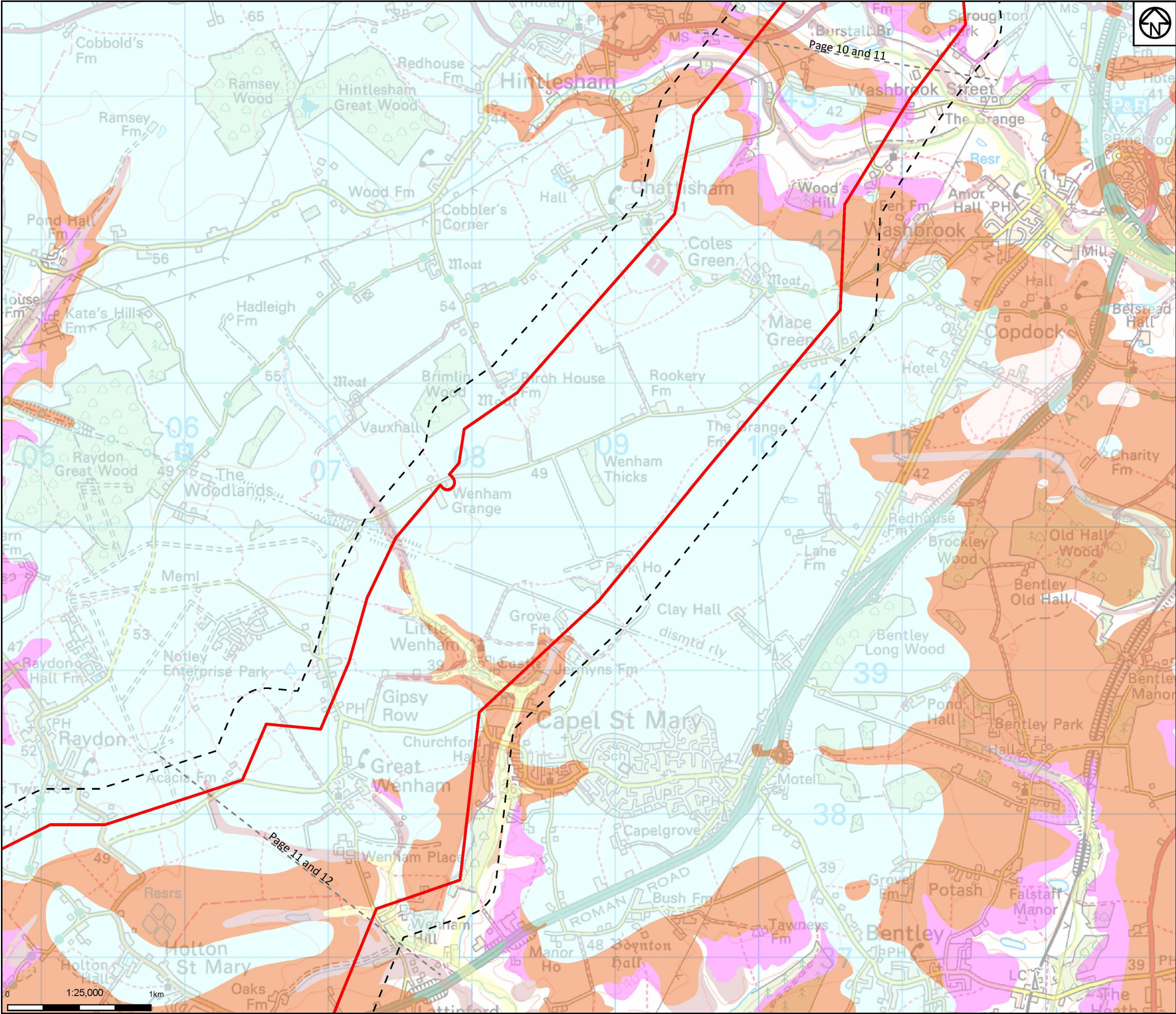
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 Page 10 of 24**

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10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2				P01



Legend

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- Study Area (250m)
- Cut line

Geology

- Alluvium
- Glaciolacustrine Deposits, Middlepleistocene
- Head
- Peat
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup

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Figure 9.1
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 Page 11 of 24

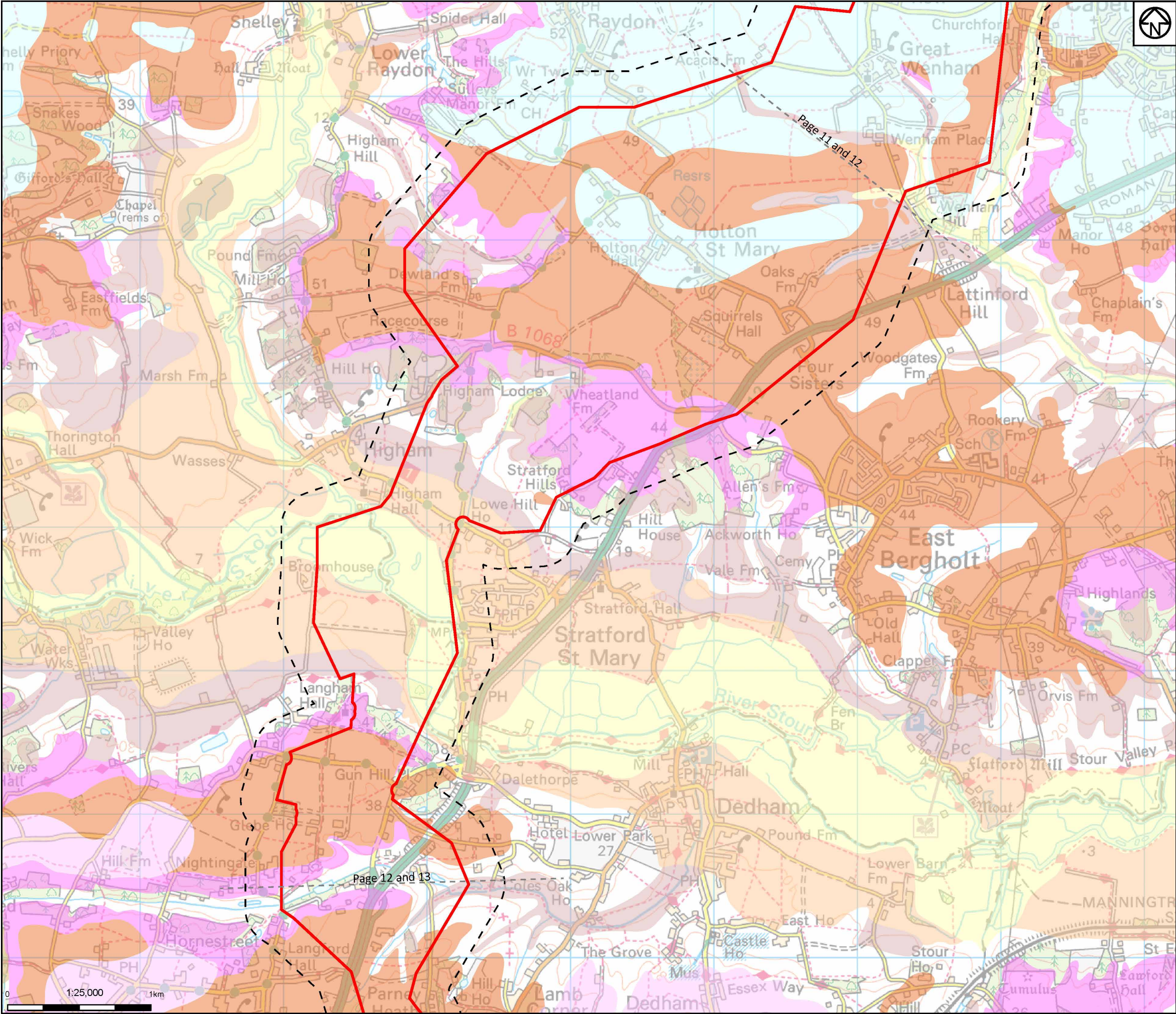
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Intertidal Deposits (Undifferentiated)
- Cover sand

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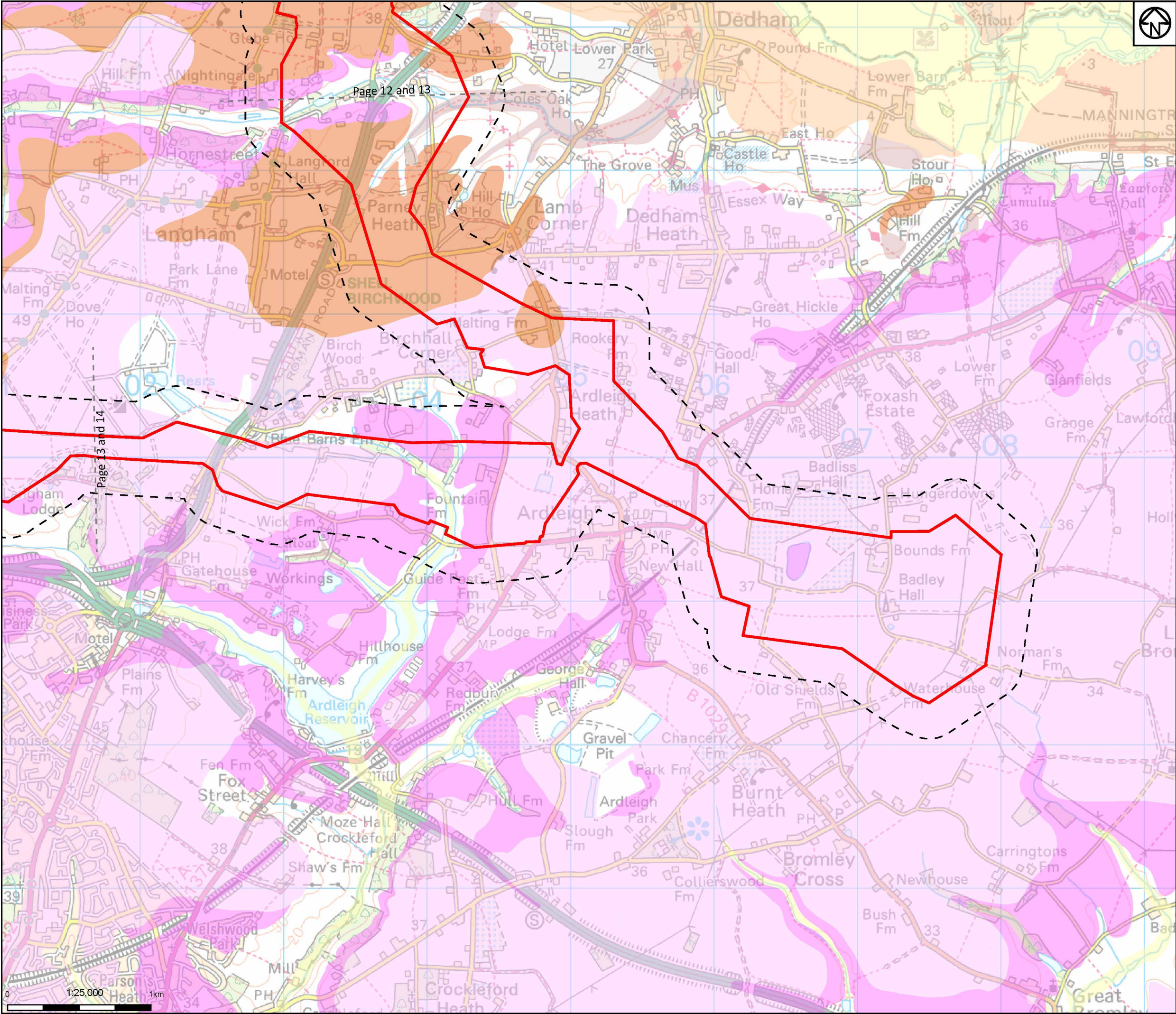
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Superficial Geology
Page 12 of 24

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- River Terrace Deposits
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Intertidal Deposits (Undifferentiated)
- Cover sand

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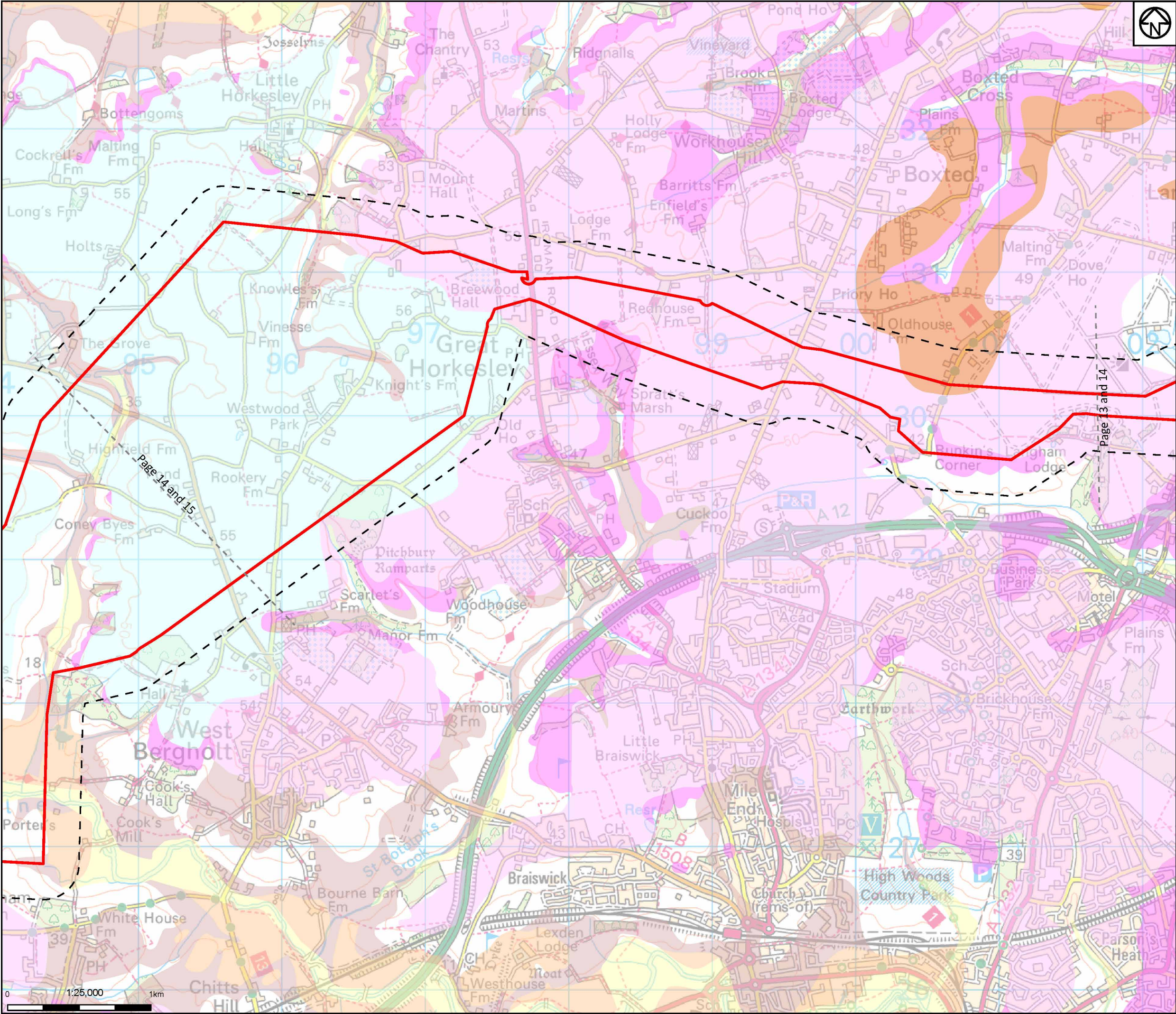
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PROJECT

Title:

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Page 13 of 24

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Legend

Scoping Report Corridor

Study Area (250m)

Cut line

Geology

Alluvium

Head

Peat

River Terrace Deposits

Lowestoft Formation

Lowestoft Formation

Kesgrave Catchment Subgroup

Cover sand

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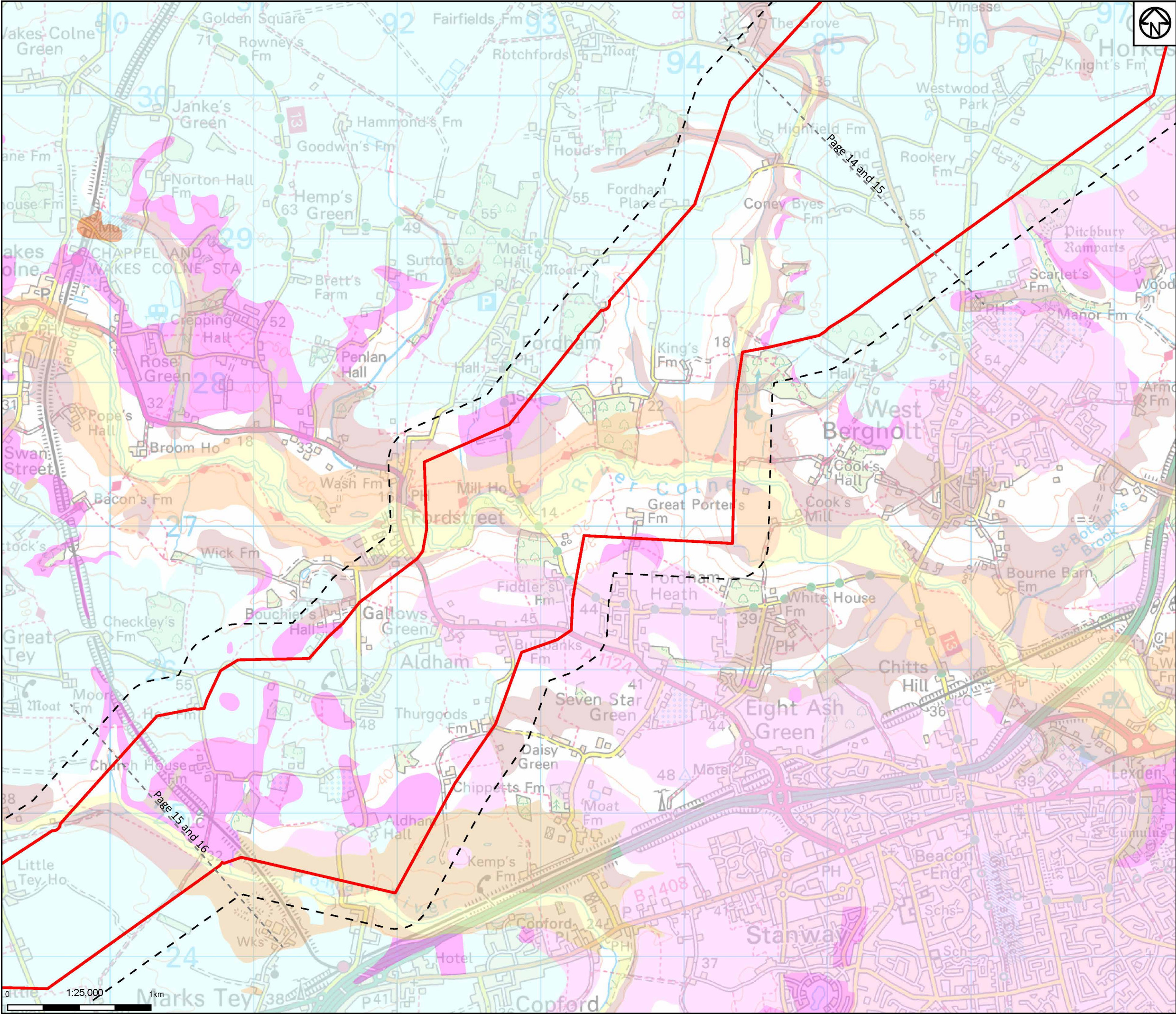
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Geology

- Alluvium
- Head
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Cover sand
- Interglacial Lacustrine Deposits

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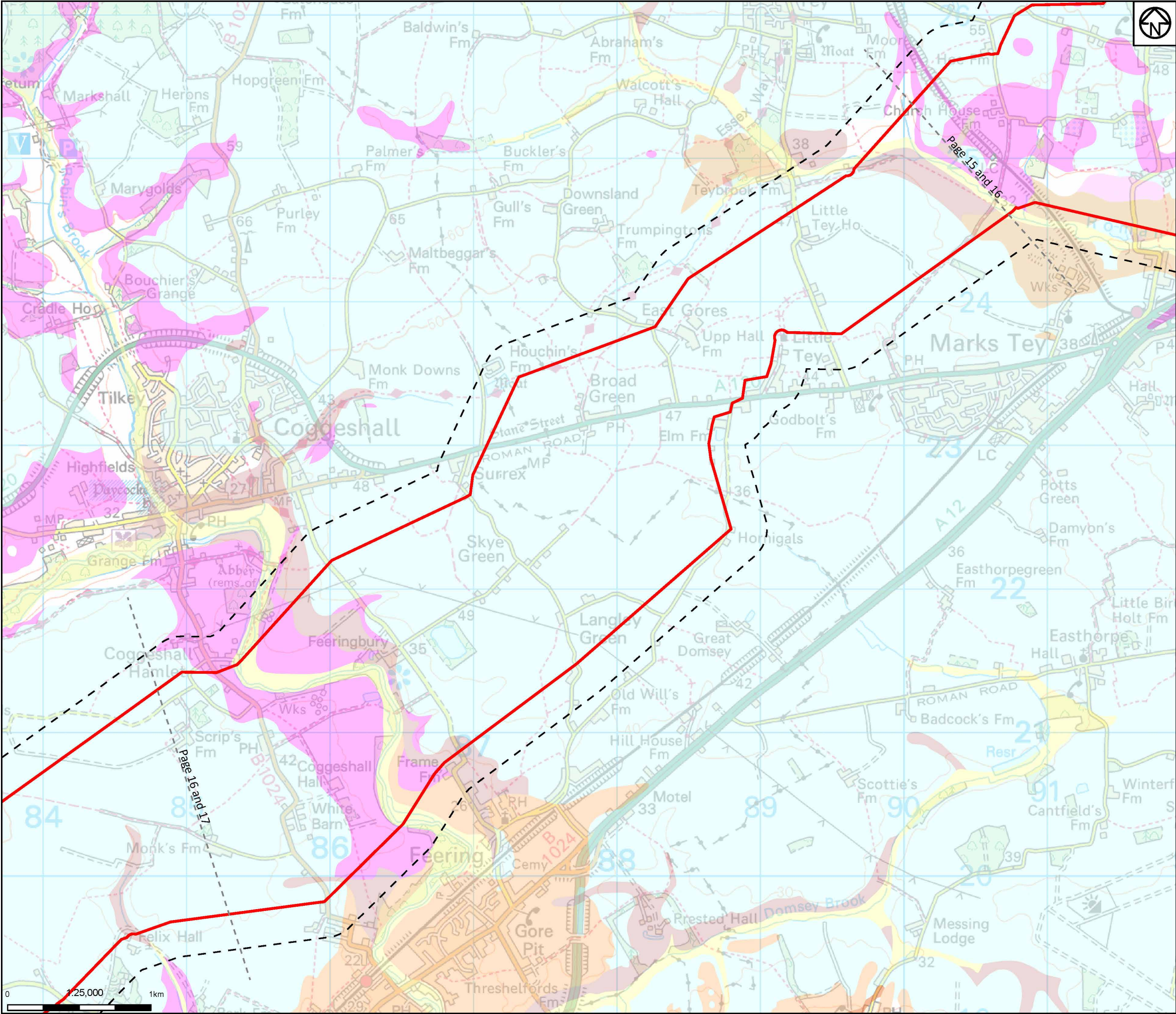
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Page 15 of 24

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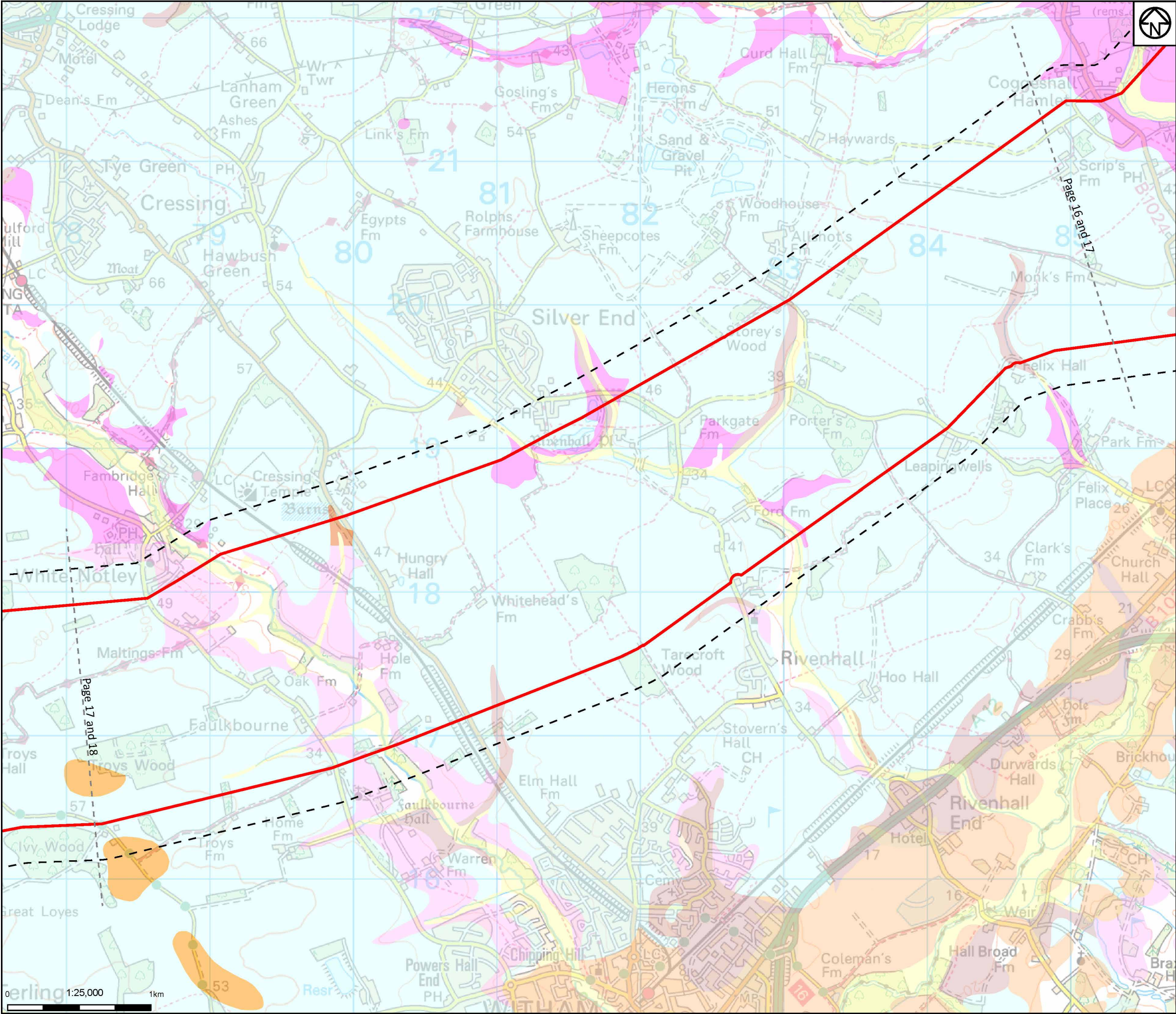
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Page 16 of 24

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Scoping Report Corridor

Study Area (250m)

Cut line

Geology

- Alluvium
- Glaciofluvial Deposits, Midpleistocene
- Glaciolacustrine Deposits, Midpleistocene
- Peat
- River Terrace Deposits
- Lowestoft Formation
- Lowestoft Formation
- Kesgrave Catchment Subgroup
- Tufa
- Interglacial Lacustrine Deposits
- Brickearth

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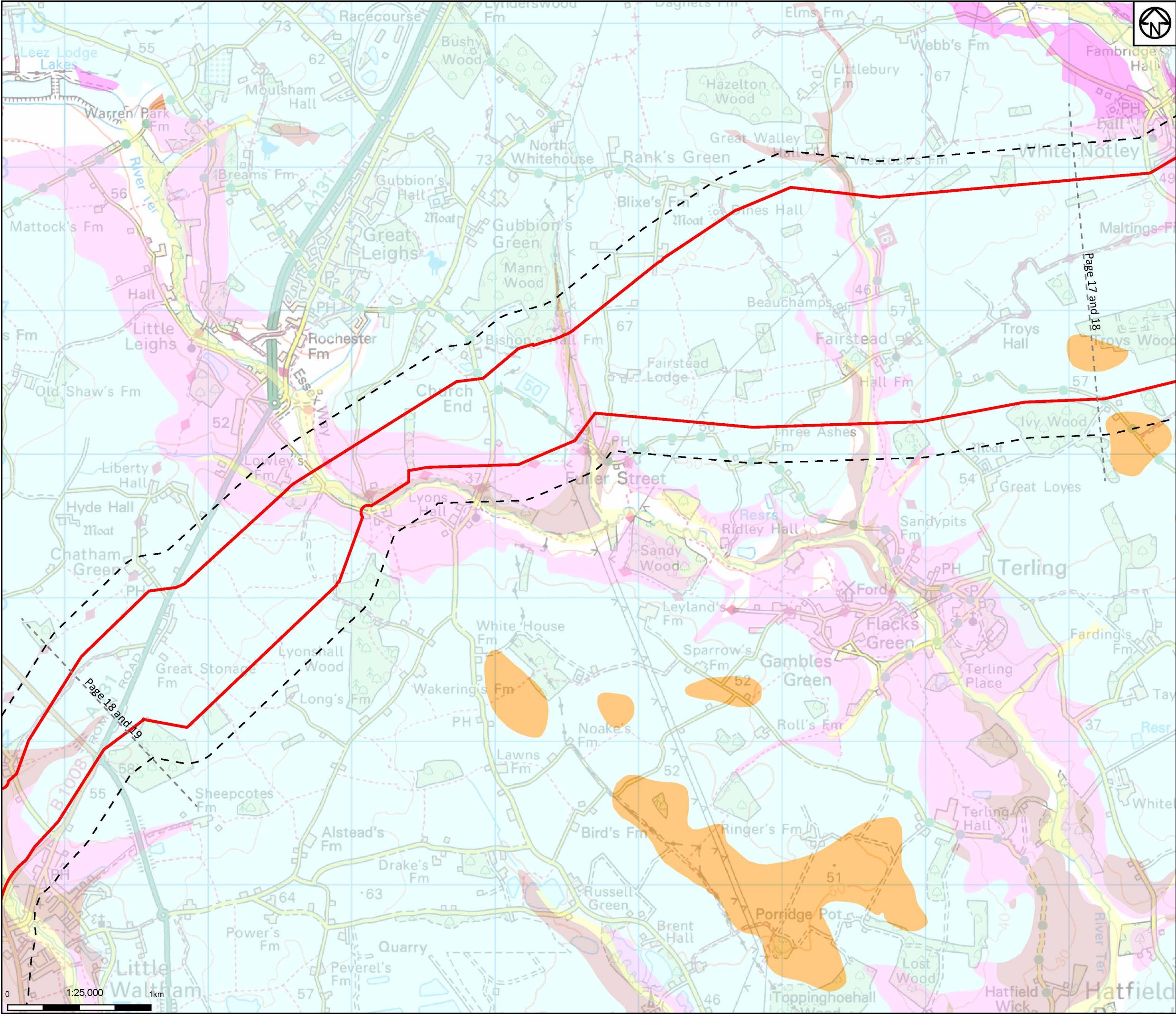
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Page 17 of 24**

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Geology

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- Kesgrave Catchment Subgroup
- Tufa
- Brickearth

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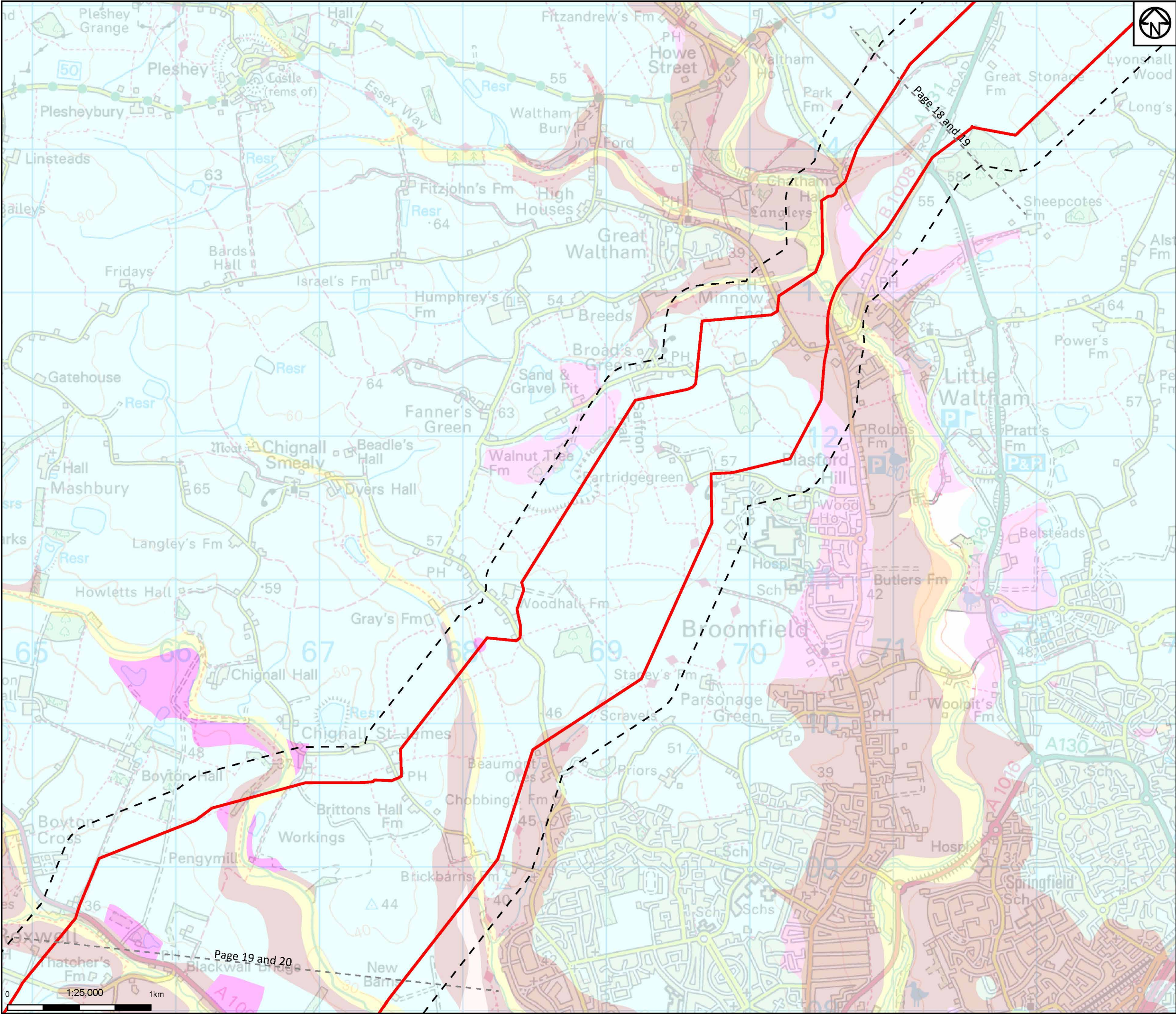
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GREEN ENERGY
ENABLEMENT
PROJECT

Title:

Figure 9.1
Superficial Geology
Page 18 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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Suitability Description:				
Accepted as Concept Stage				
Drawing Number: 10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2				Revision: P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Glaciofluvial Deposits, Midpleistocene
- Glaciolacustrine Deposits, Midpleistocene
- Head
- River Terrace Deposits
- Lowestoft Formation
- Kesgrave Catchment Subgroup

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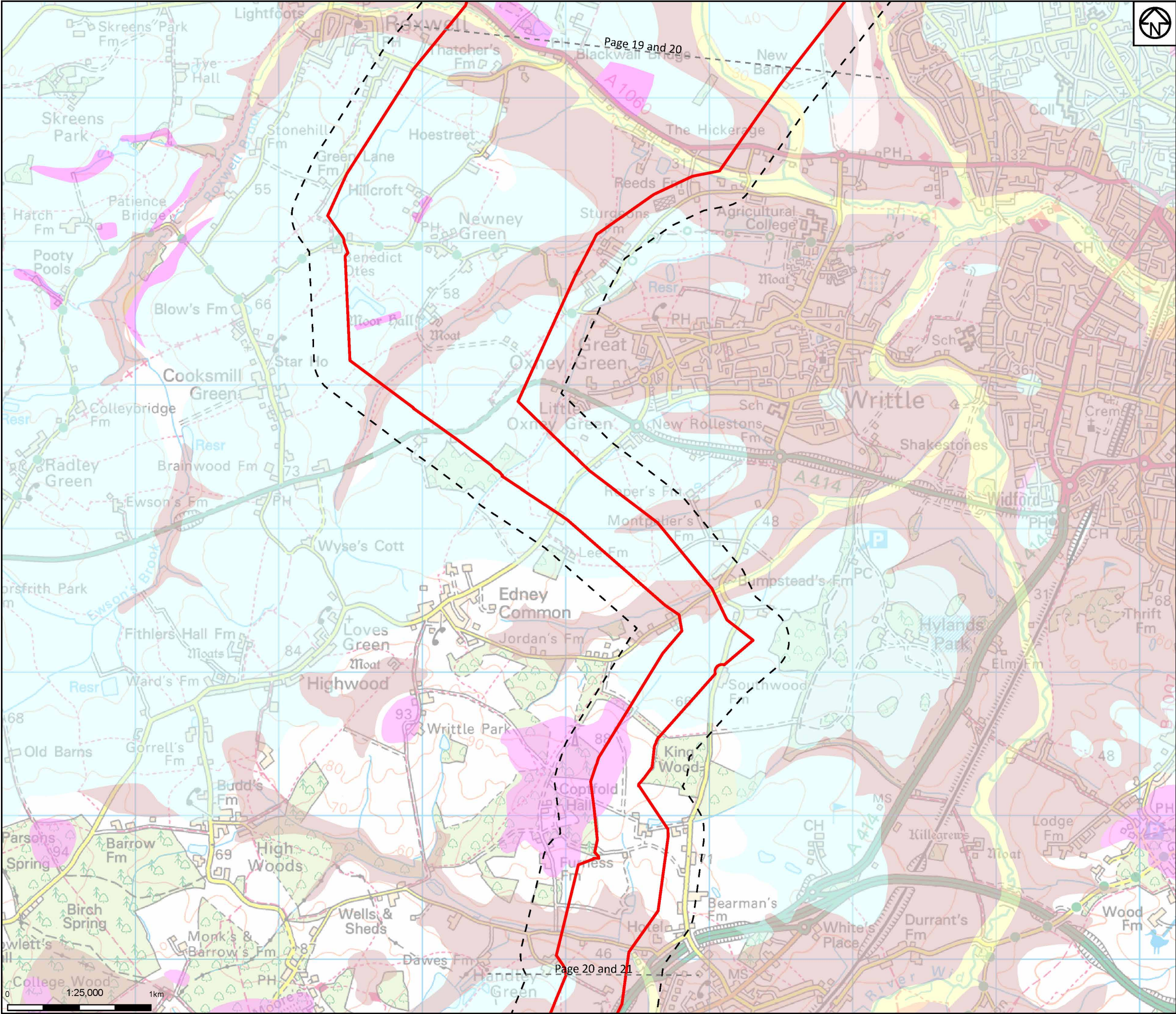
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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
EAST ANGLIA
GREEN ENERGY
ENABLEMENT
PROJECT

Title:

Figure 9.1
Superficial Geology
Page 19 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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Accepted as Concept Stage				
Drawing Number:				Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2				P01



Legend

Scoping Report Corridor

Study Area (250m)

Cut line

Geology

Alluvium

Glaciofluvial Deposits, Midpleistocene

Glaciolacustrine Deposits, Midpleistocene

Head

Peat

River Terrace Deposits

Lowestoft Formation

Kesgrave Catchment Subgroup

Stanmore Gravel Formation

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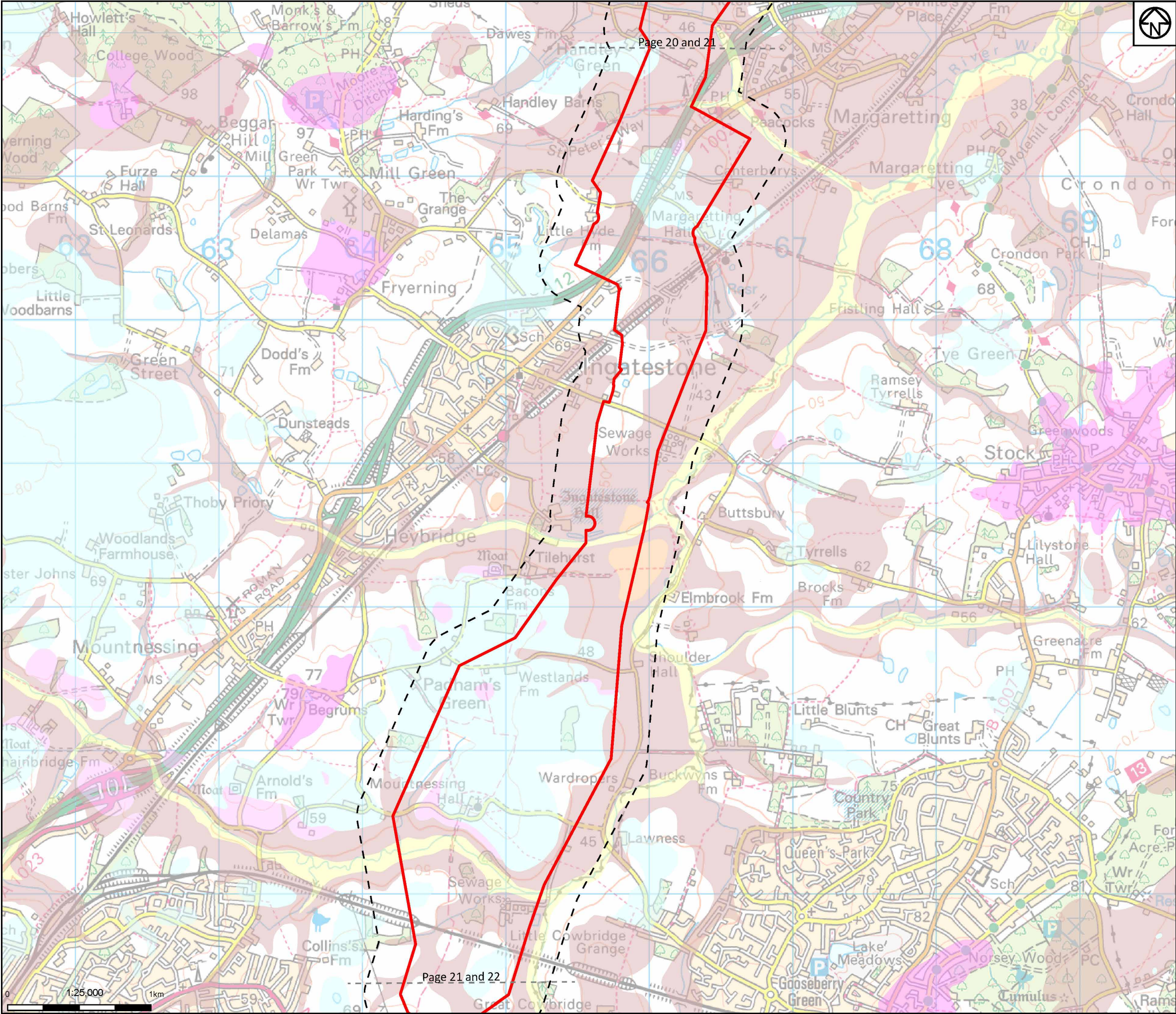
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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
EAST ANGLIA
GREEN ENERGY
ENABLEMENT
PROJECT

Title:

Figure 9.1
Superficial Geology
Page 20 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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Accepted as Concept Stage				
Drawing Number:				Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2				P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - Alluvium
 - Glaciofluvial Deposits, Middlepleistocene
 - Head
 - River Terrace Deposits
 - Lowestoft Formation
 - Stanmore Gravel Formation

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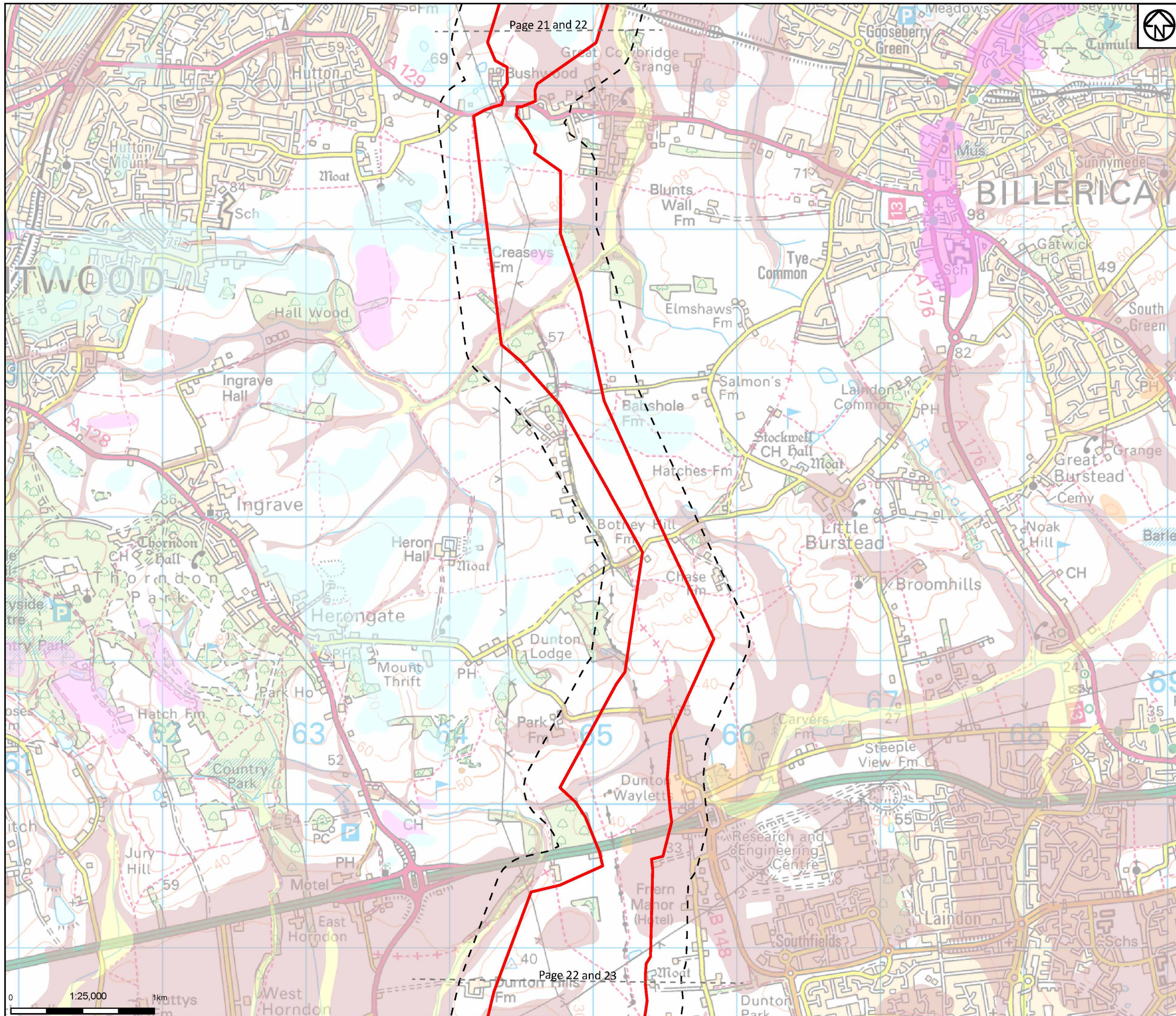
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EAST ANGLIA
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ENABLEMENT
PROJECT

Figure 9.1
Superficial Geology
Page 21 of 24

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Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
Approved	K.Burrows	Date	02 NOV 22	
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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2	P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Alluvium
 - Glaciofluvial Deposits, Middlepleistocene
 - Head
 - Peat
 - River Terrace Deposits
 - Lowestoft Formation
 - Stanmore Gravel Formation

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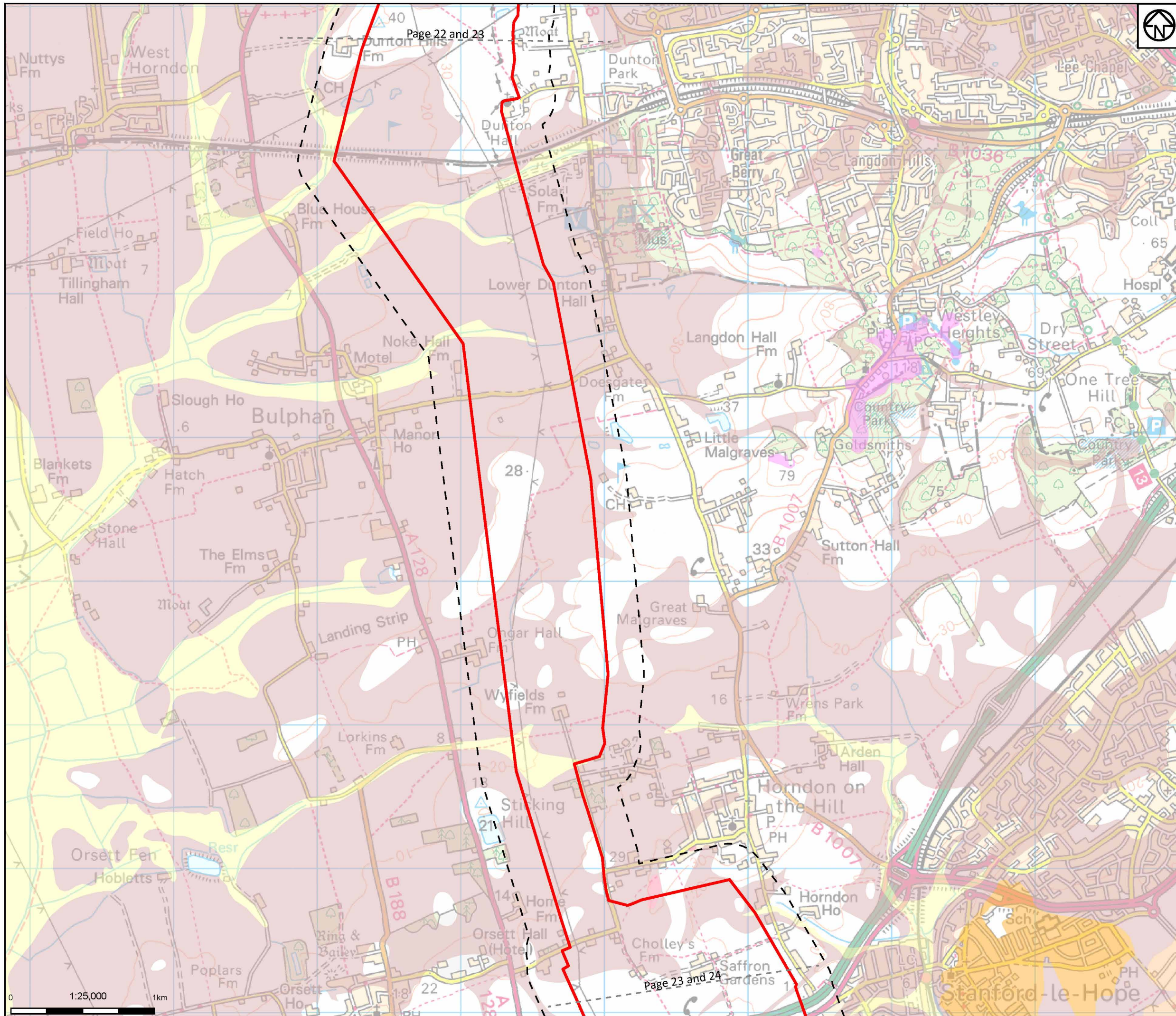
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Figure 9.1
Superficial Geology
Page 22 of 24

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Checked	A.Fell	Date	02 NOV 22	
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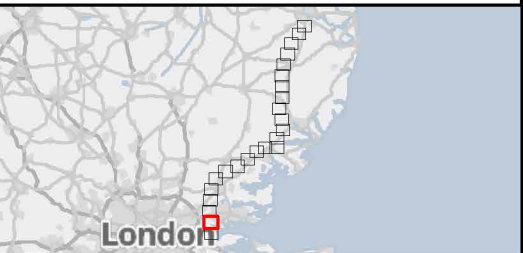
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - Alluvium
 - Head
 - River Terrace Deposits
 - Stanmore Gravel Formation
 - Lynch Hill Gravel Member
 - Black Park Gravel Member

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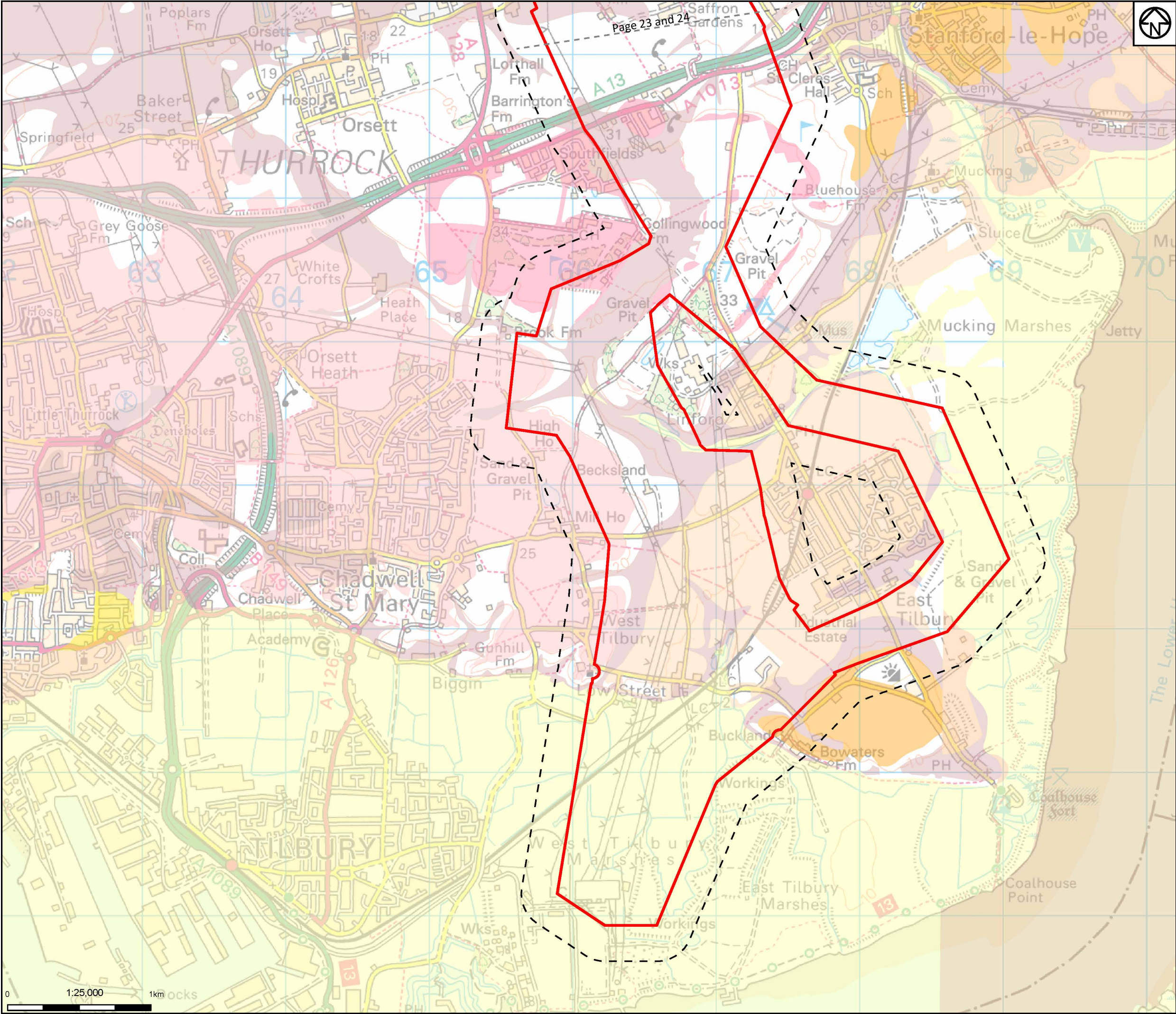
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ENABLEMENT
PROJECT

Title:
**Figure 9.1
Superficial Geology**
Page 23 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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Drawing Number:
10051663-ARC-EGT-ZZ-DR-ZZ-00011-S2
Revision:
P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Alluvium
- Beach and Tidal Flat Deposits
- Head
- River Terrace Deposits
- Lynch Hill Gravel Member
- Black Park Gravel Member
- Ilford Silt Member
- Taplow Gravel Member
- Kempton Park Gravel Member
- Boyn Hill Gravel Member
- Tidal River or Creek Deposits

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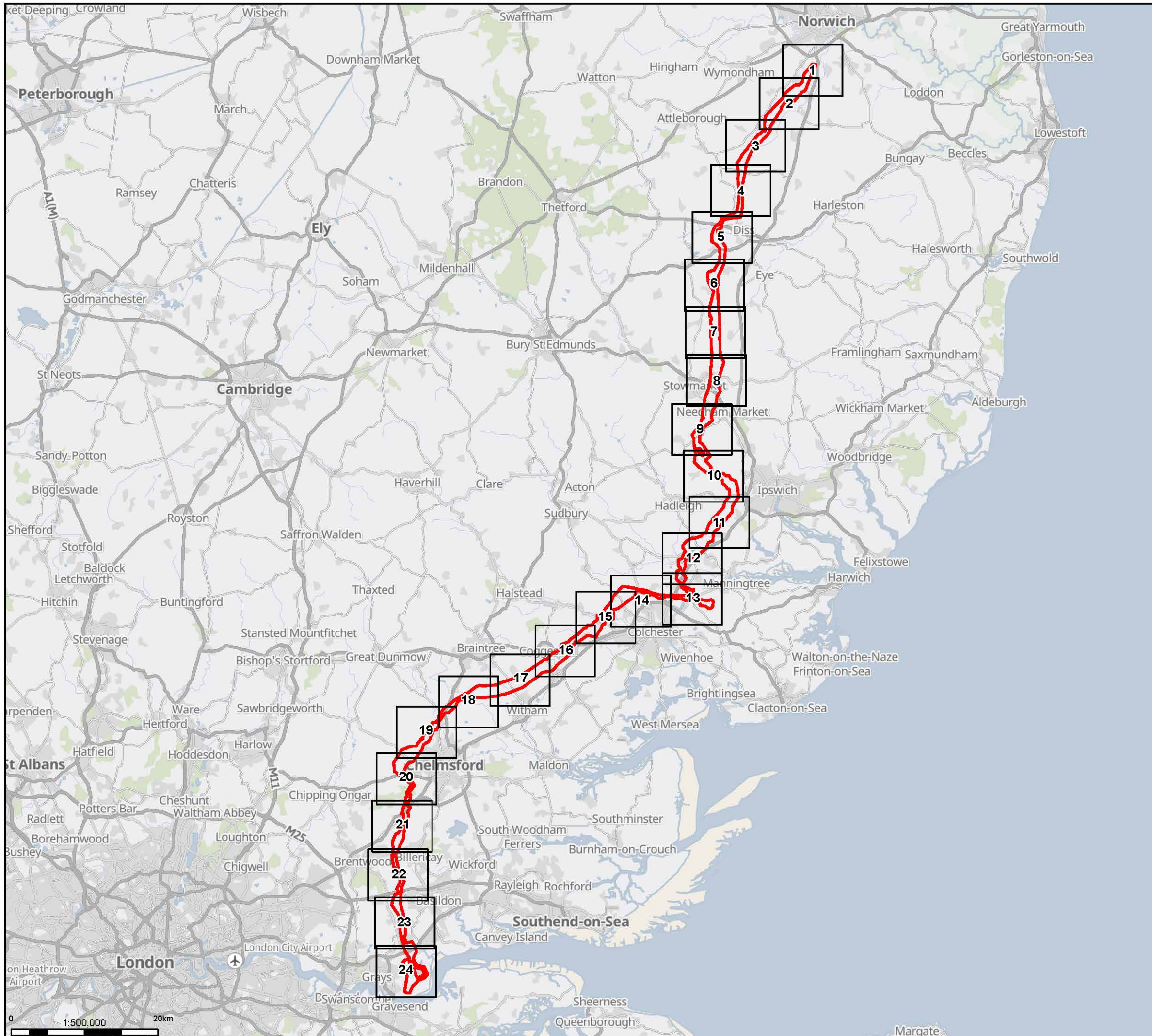
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Superficial Geology
Page 24 of 24**

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Legend
 Scoping Report Corridor
Boxes represent the extent of the following pages

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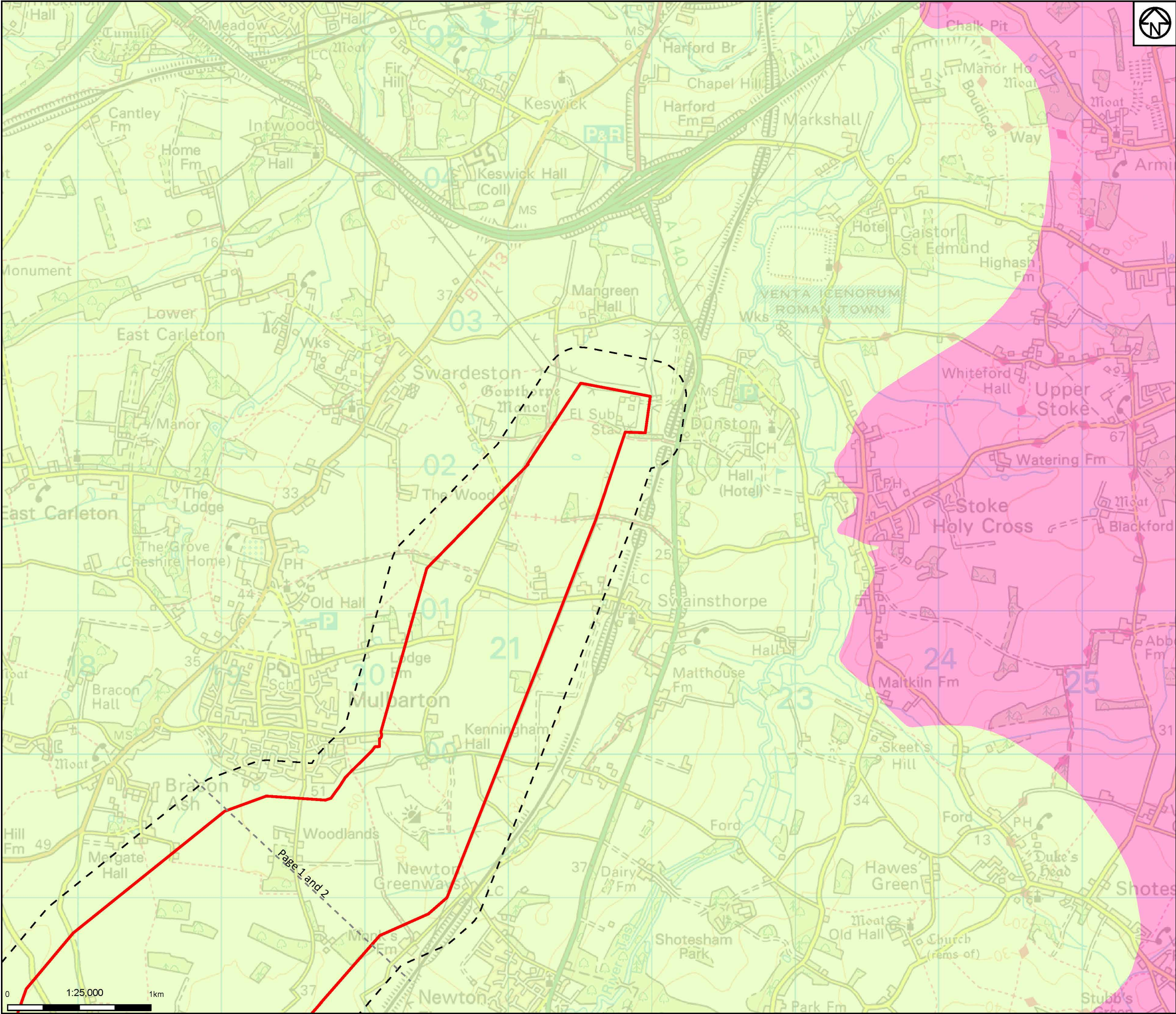
Figure 9.2
Bedrock Geology
Overview

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Revision:
P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
- Crag Group

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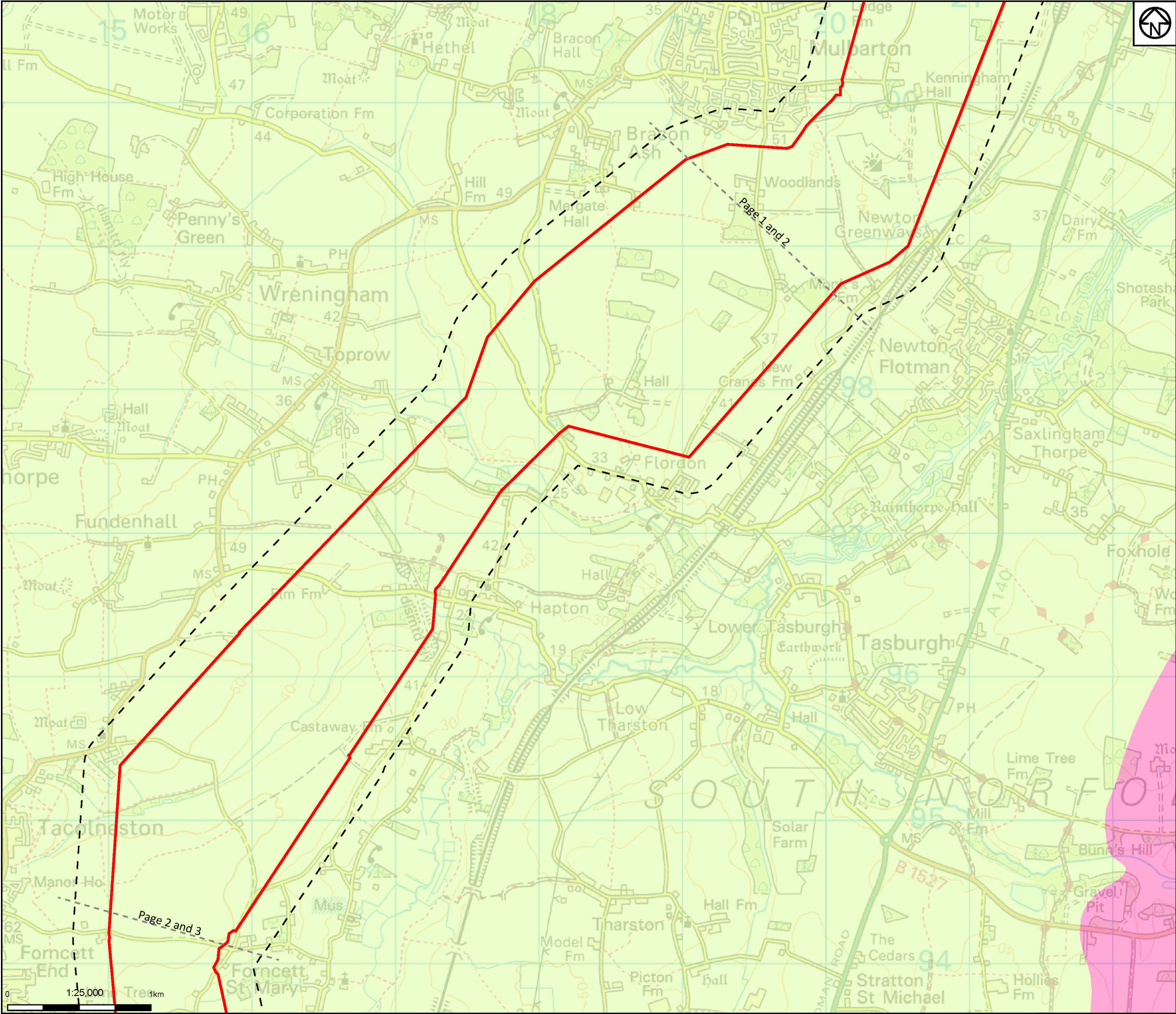
Figure 9.2
Bedrock Geology
Page 1 of 24

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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
- Crag Group
- Norwich Crag Formation

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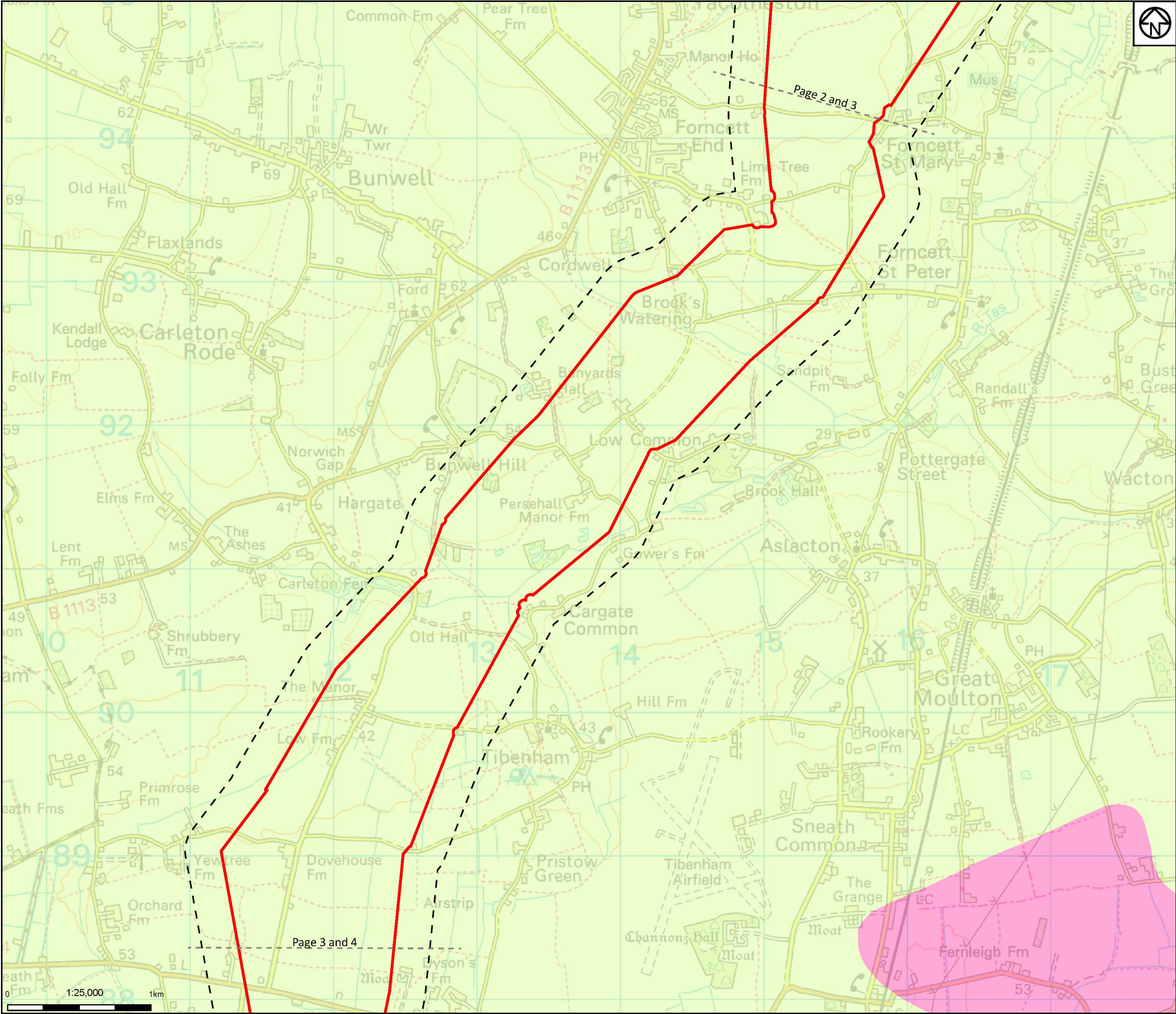
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ENABLEMENT
PROJECT

Figure 9.2
Bedrock Geology
Page 2 of 24

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Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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Suitability Description: Accepted as Concept Stage

Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

Scoping Report Corridor

Study Area (250m)

Cut line

Geology

Lewes Nodular Chalk Formation, Seafood Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)

Norwich Crag Formation

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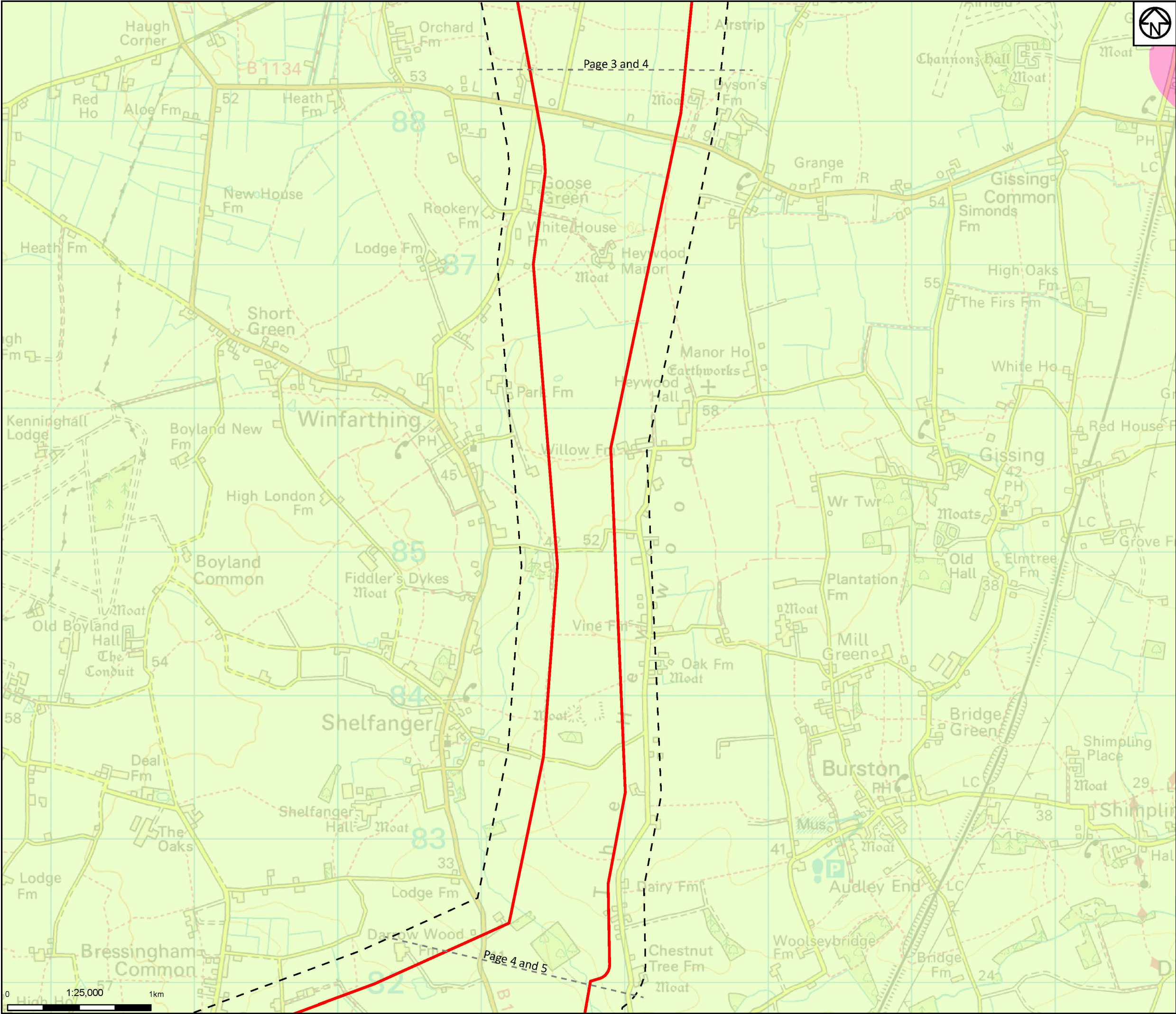
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Bedrock Geology
Page 3 of 24**

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Suitability Description:

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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

Scoping Report Corridor

Study Area (250m)

Cut line

Geology

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)

Norwich Crag Formation

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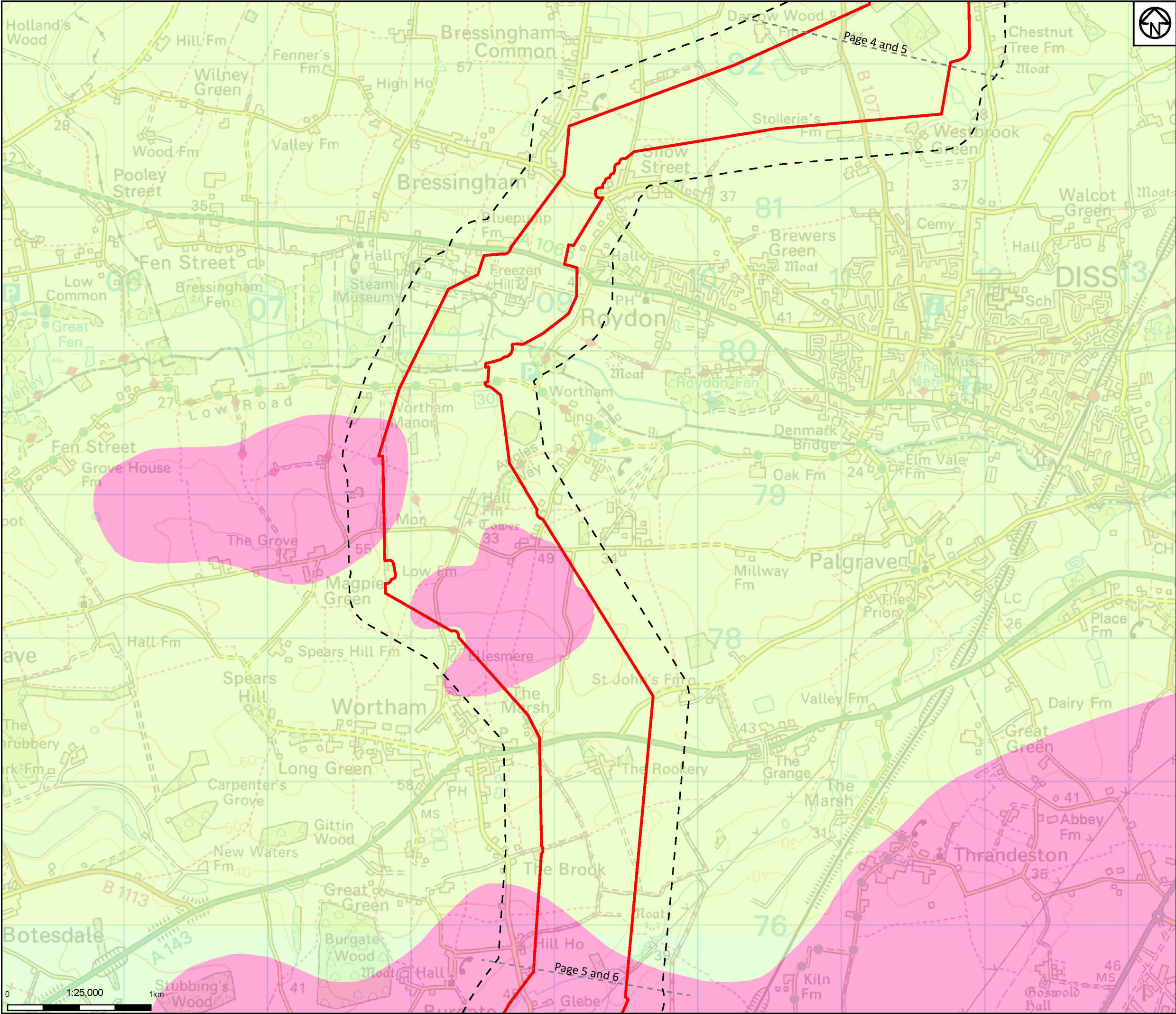
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Bedrock Geology
Page 4 of 24**

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Suitability Description:

Accepted as Concept Stage

Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

Scoping Report Corridor

Study Area (250m)

Cut line

Geology

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)

Crag Group

Norwich Crag Formation

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)

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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
EAST ANGLIA
GREEN ENERGY
ENABLEMENT
PROJECT

Title:

Figure 9.2
Bedrock Geology
Page 5 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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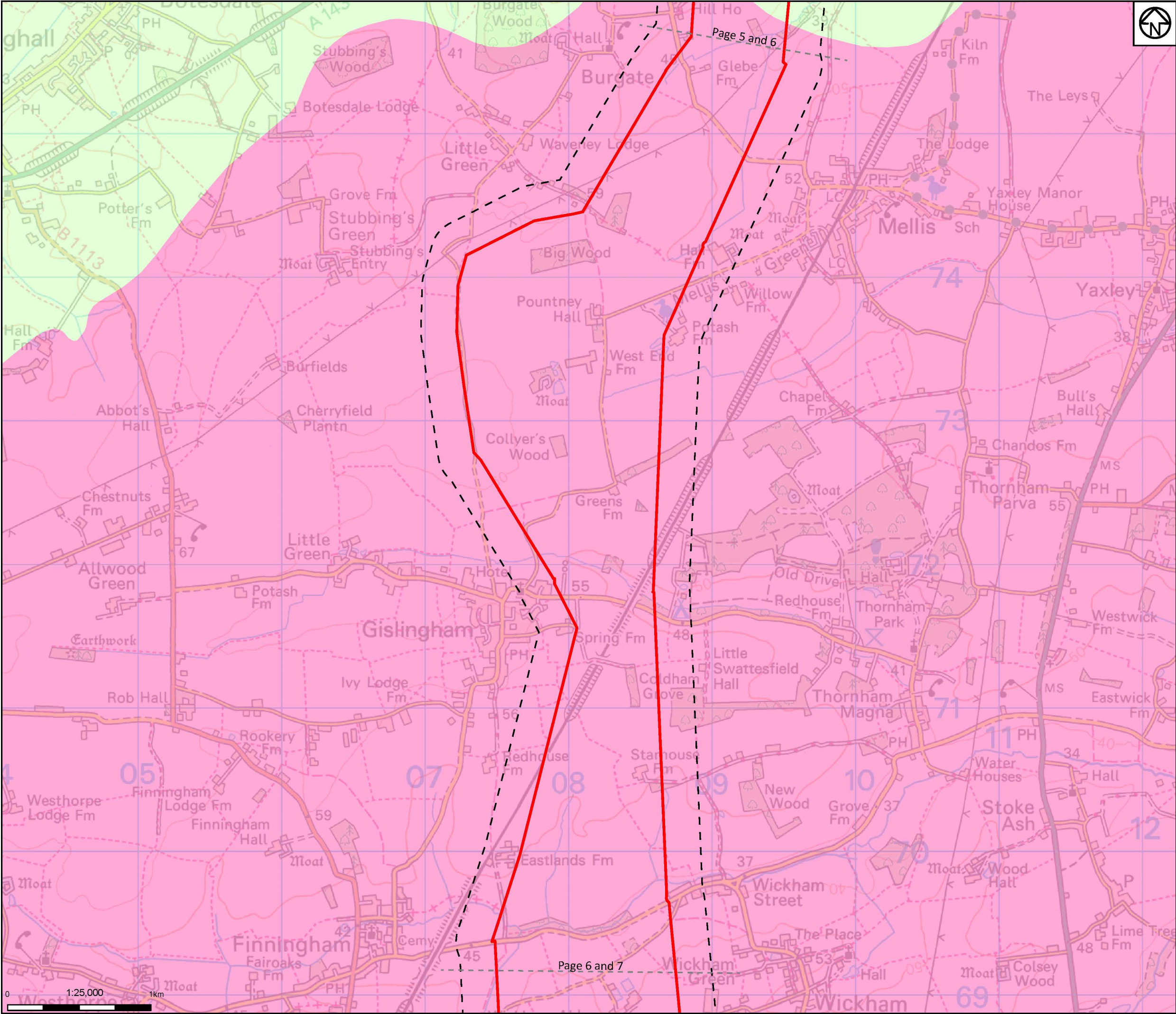
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Drawing Number:

10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2

Revision:

P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Crag Group
- Norwich Crag Formation
- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)

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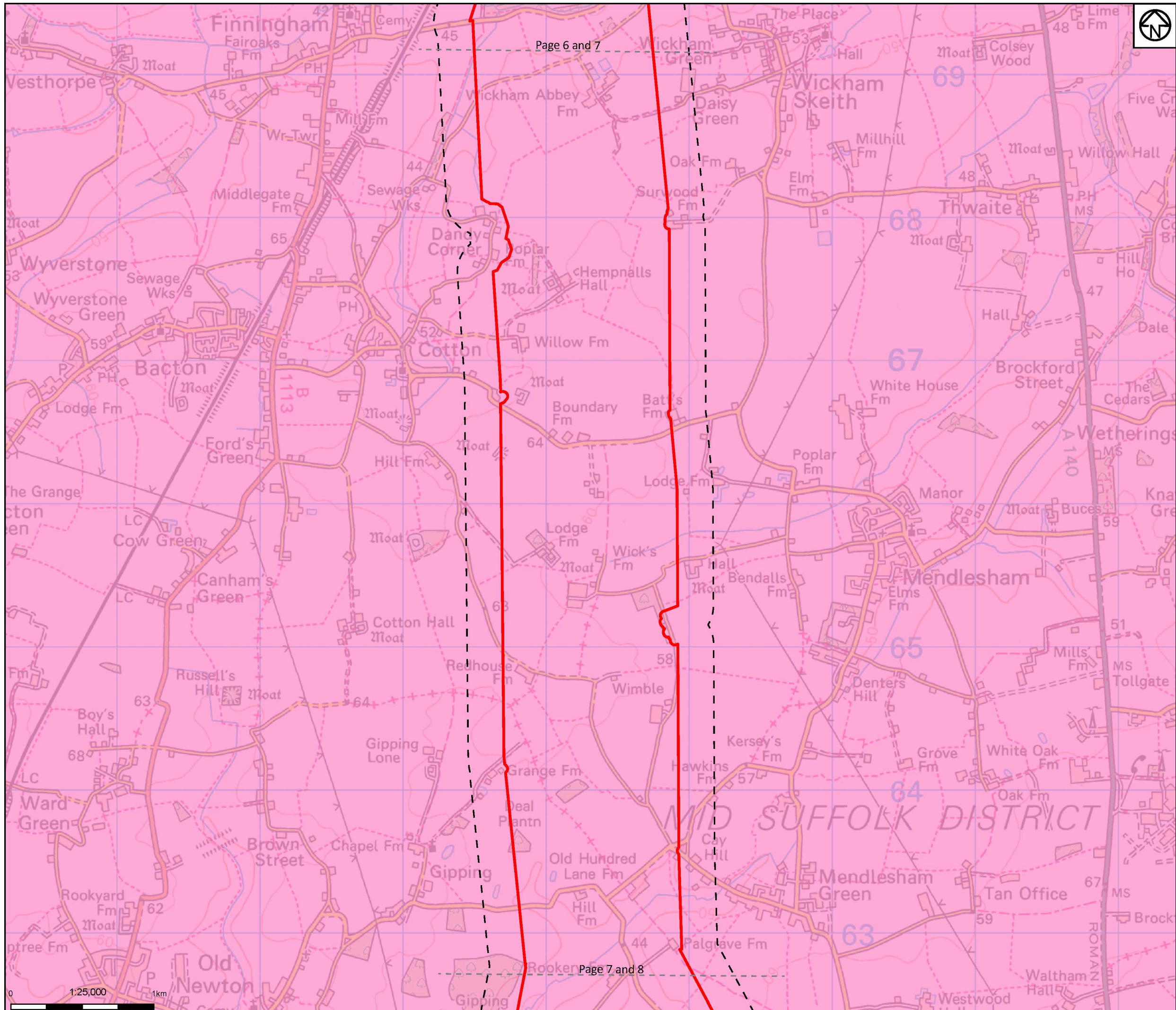
Figure 9.2
Bedrock Geology
Page 6 of 24

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Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology
 - Crag Group

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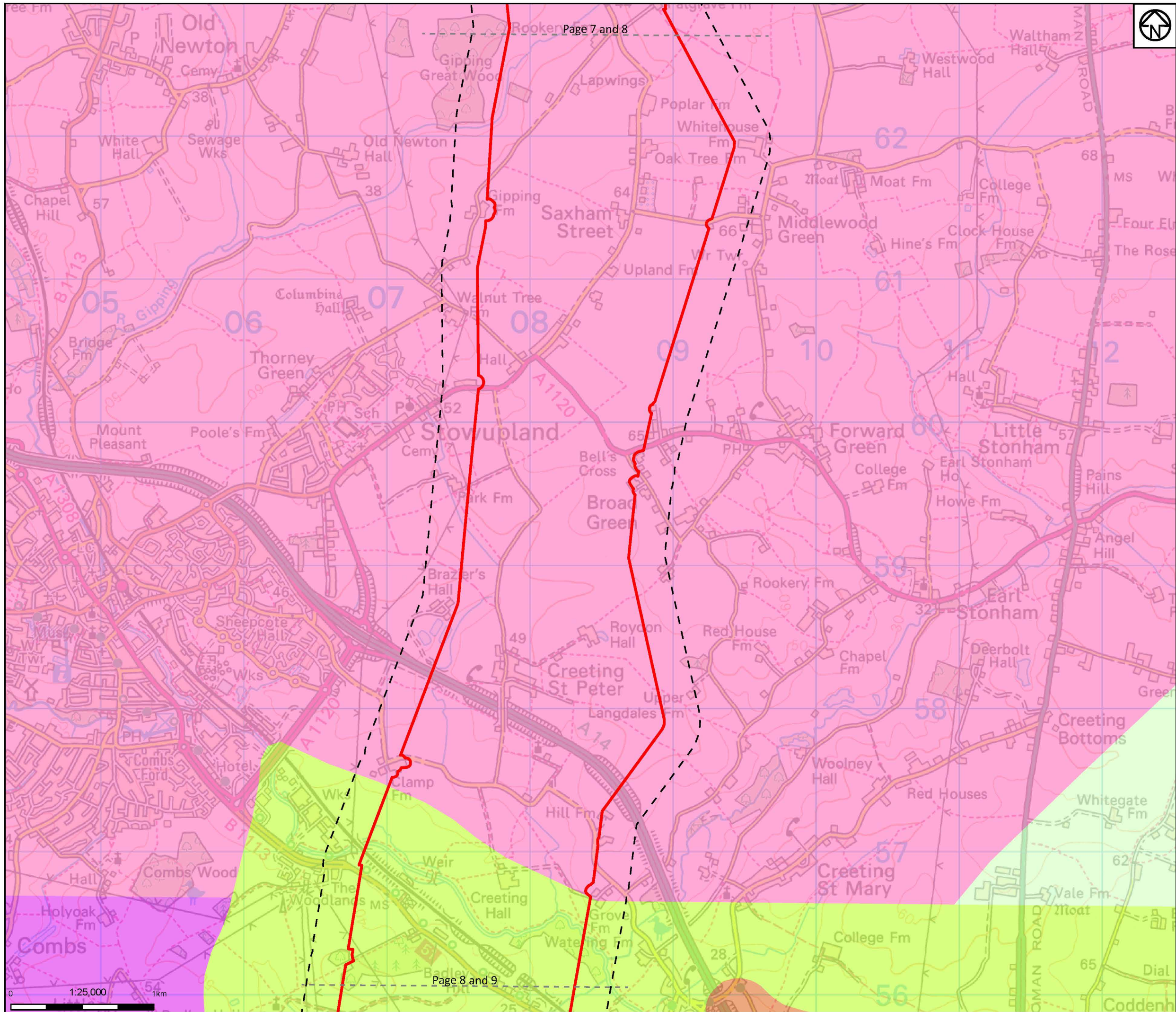
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ENABLEMENT
PROJECT

Figure 9.2
Bedrock Geology
Page 7 of 24

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Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
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Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
- Geology**
- Crag Group
 - Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)
 - Newhaven Chalk Formation
 - Red Crag Formation
 - Chillesford Church Sand Member

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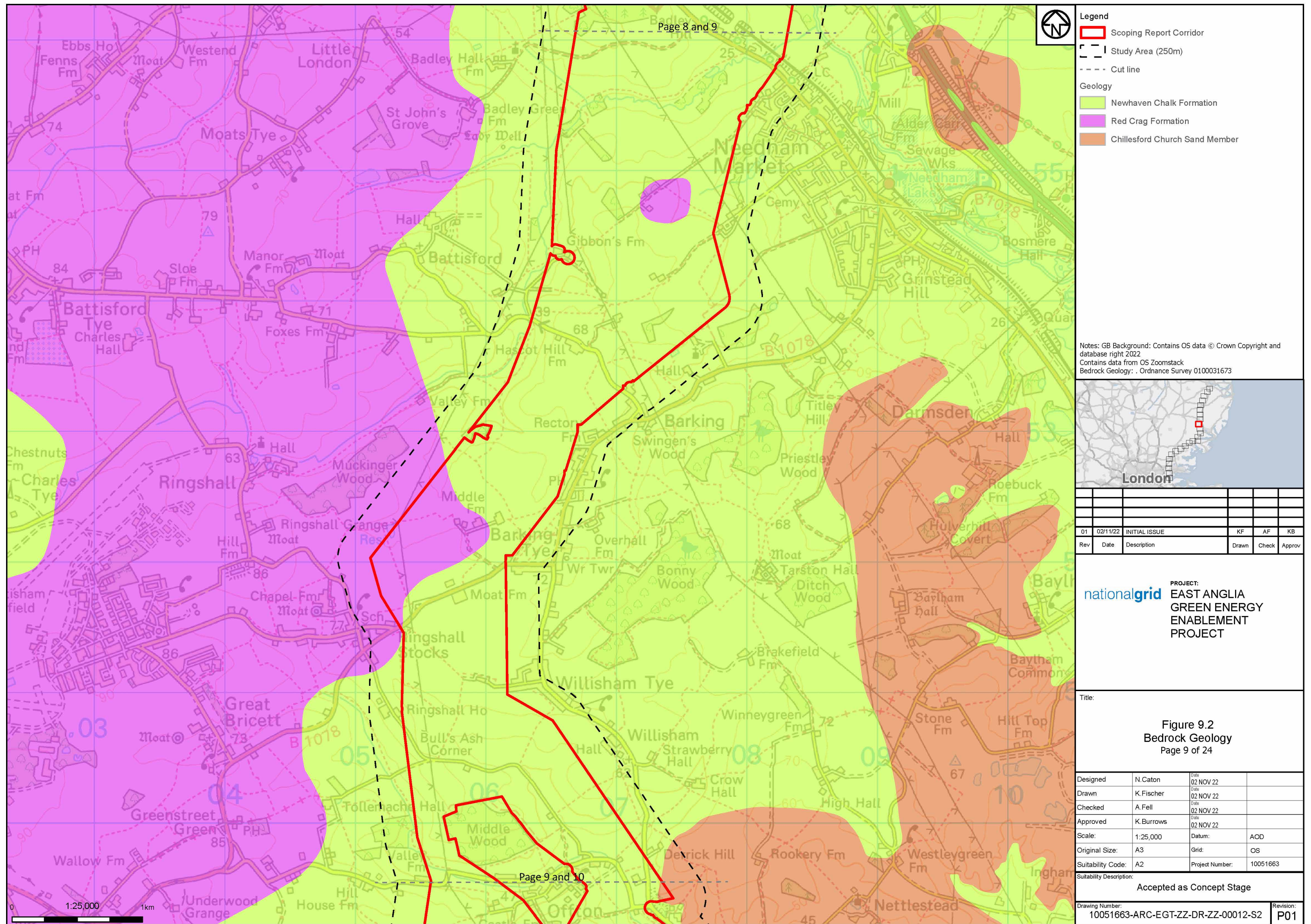
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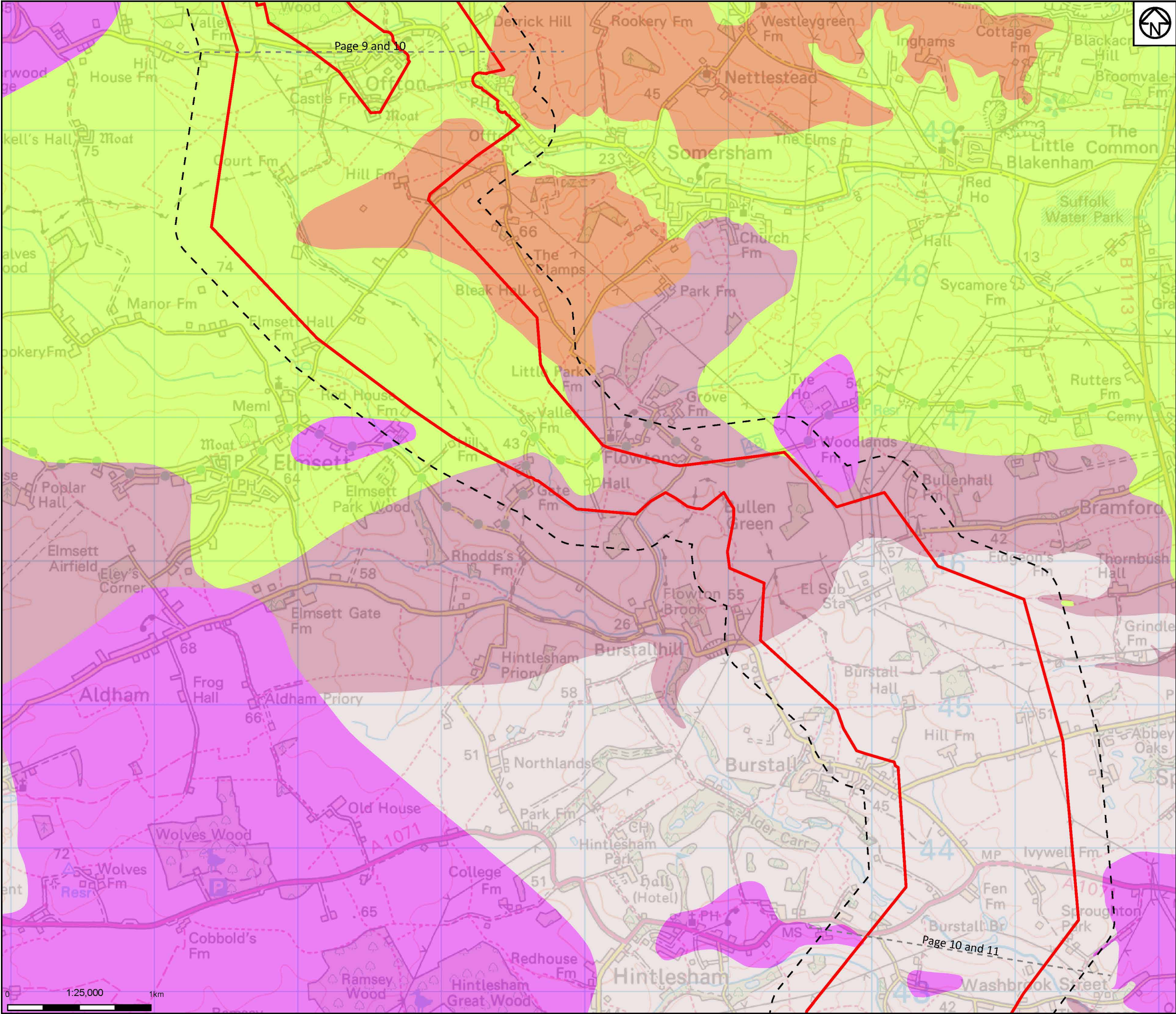
Figure 9.2
Bedrock Geology
Page 8 of 24

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Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Newhaven Chalk Formation
- Red Crag Formation
- Chillesford Church Sand Member
- Thanet Formation and Lambeth Group (Undifferentiated)
- Thames Group

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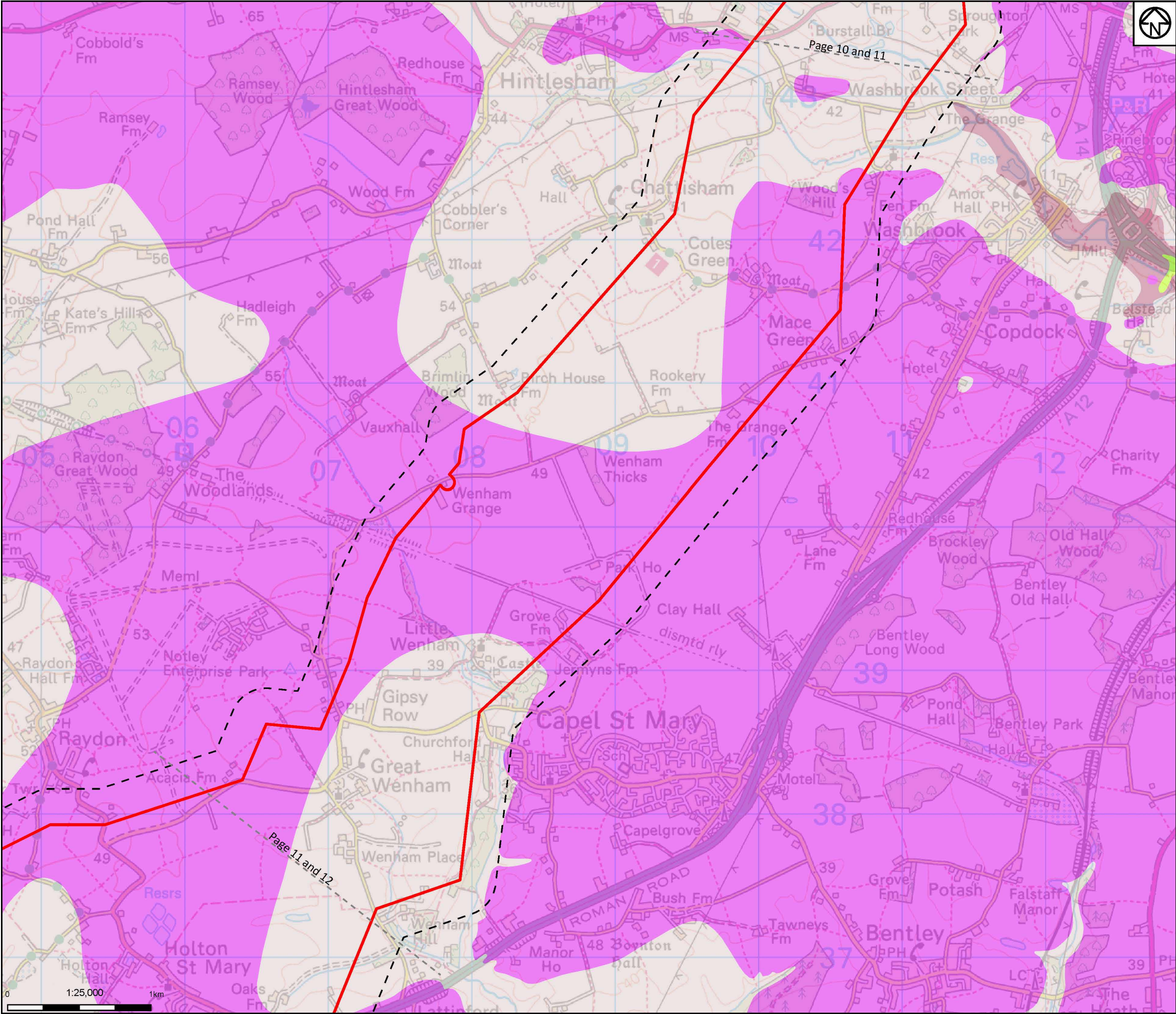
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Bedrock Geology
Page 10 of 24**

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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Newhaven Chalk Formation
- Red Crag Formation
- Thanet Formation and Lambeth Group (Undifferentiated)
- Thames Group

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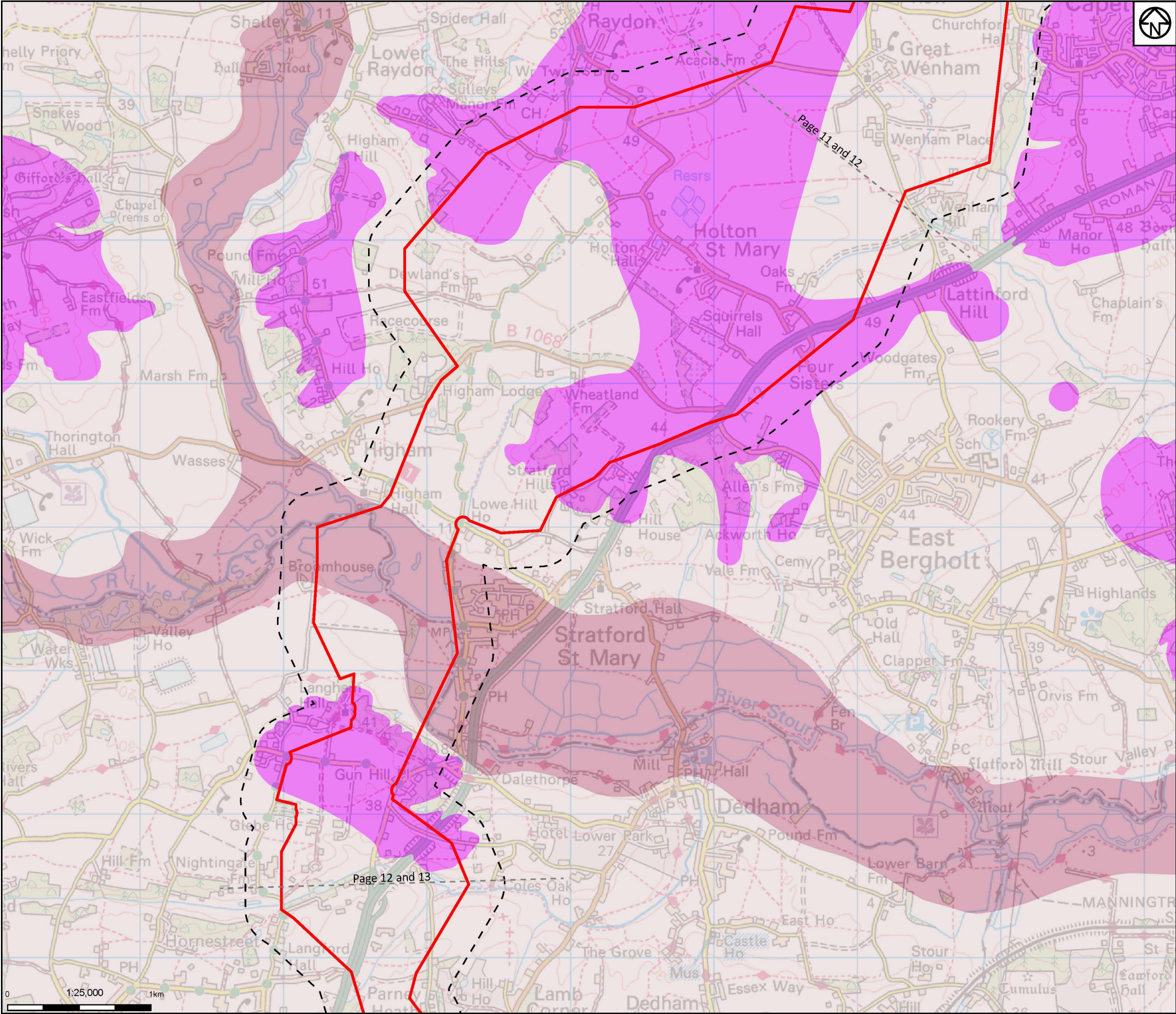
Figure 9.2
Bedrock Geology
Page 11 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
Checked	A.Fell	Date	02 NOV 22	
Approved	K.Burrows	Date	02 NOV 22	
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Suitability Code:	A2	Project Number:		10051663

Suitability Description:

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Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Red Crag Formation
- Thanet Formation and Lambeth Group (Undifferentiated)
- Thames Group

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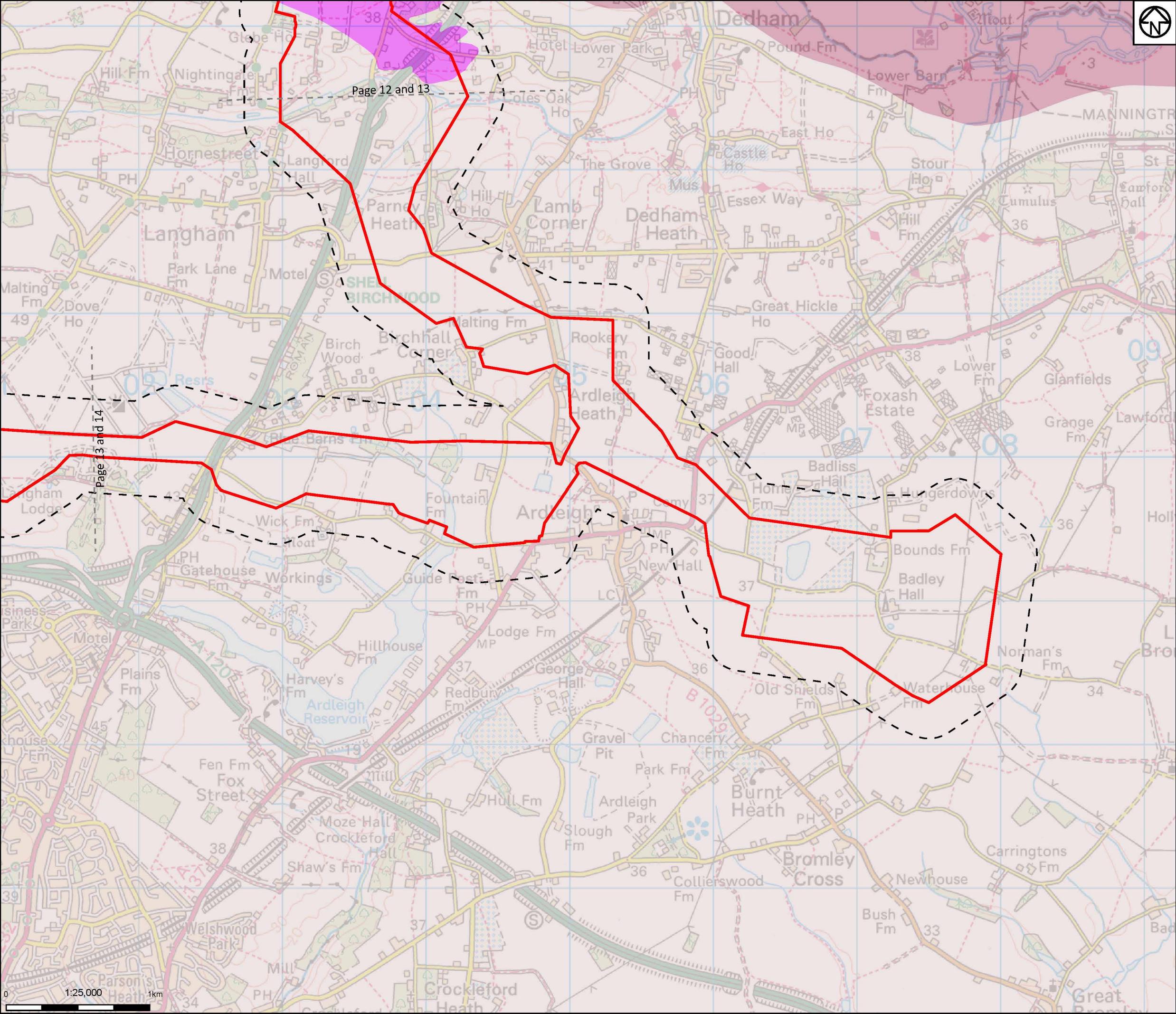
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Bedrock Geology
Page 12 of 24**

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Suitability Description:

Accepted as Concept Stage

Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line
- Geology**
 - Red Crag Formation
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - Thames Group

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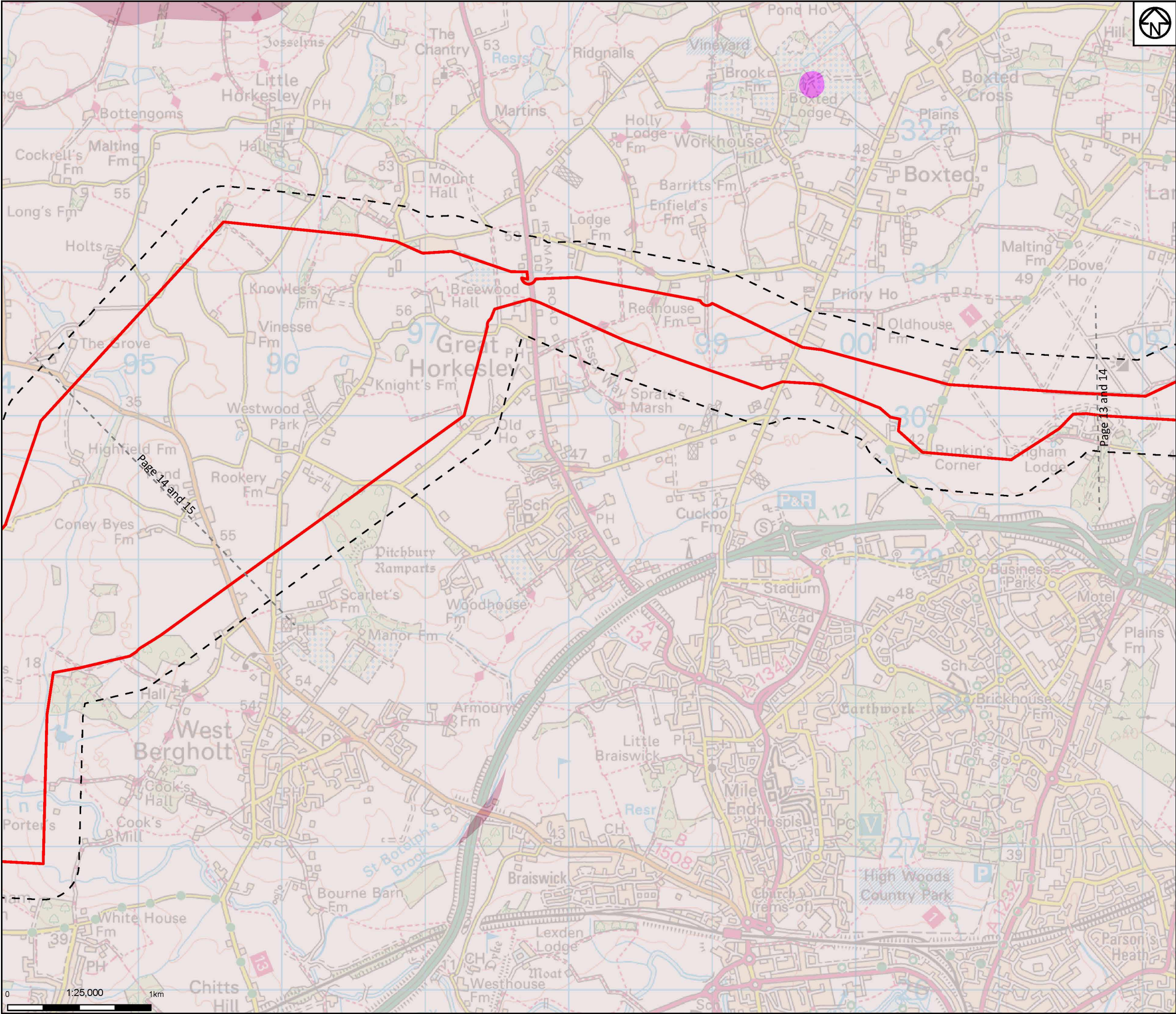
Figure 9.2
Bedrock Geology
Page 13 of 24

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Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - Red Crag Formation
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - Thames Group
 - London Clay Formation

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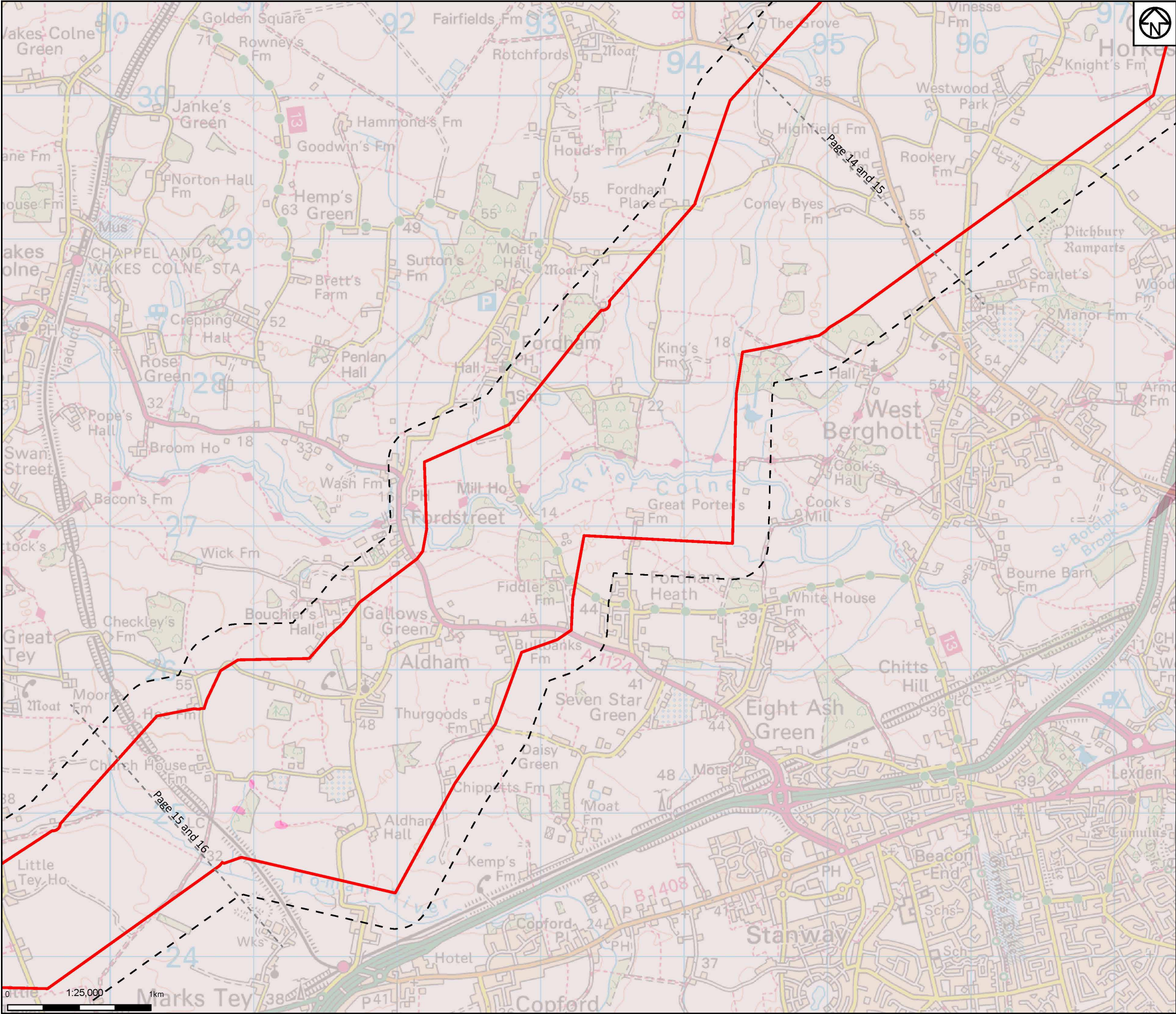
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PROJECT

Figure 9.2
Bedrock Geology
Page 14 of 24

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Drawn	K.Fischer	Date	02 NOV 22	
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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - Crag Group
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - London Clay Formation

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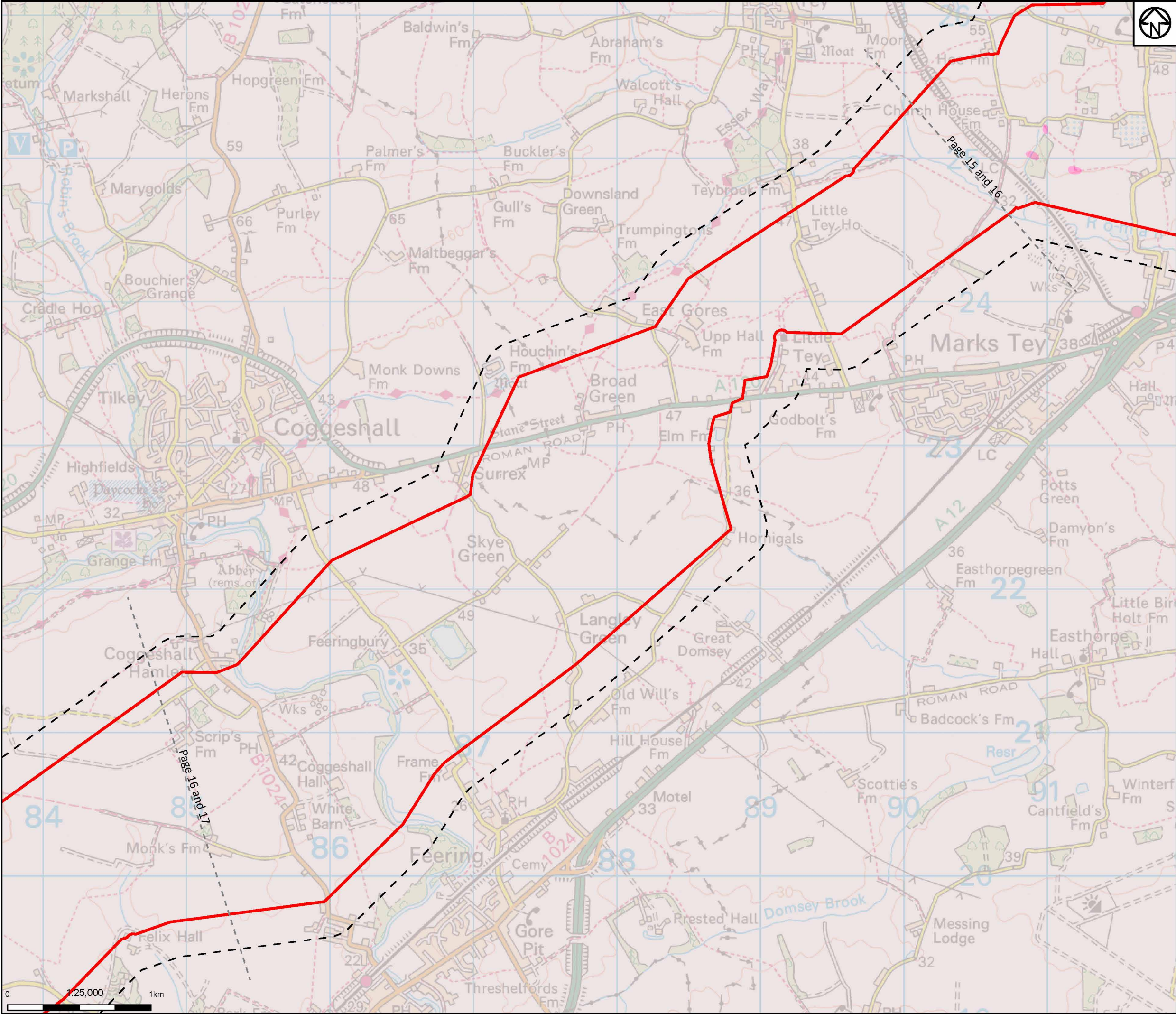
Figure 9.2
Bedrock Geology
Page 15 of 24

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Drawing Number:	10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	Revision:	P01
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - Crag Group
 - Thanet Formation and Lambeth Group (Undifferentiated)
 - London Clay Formation

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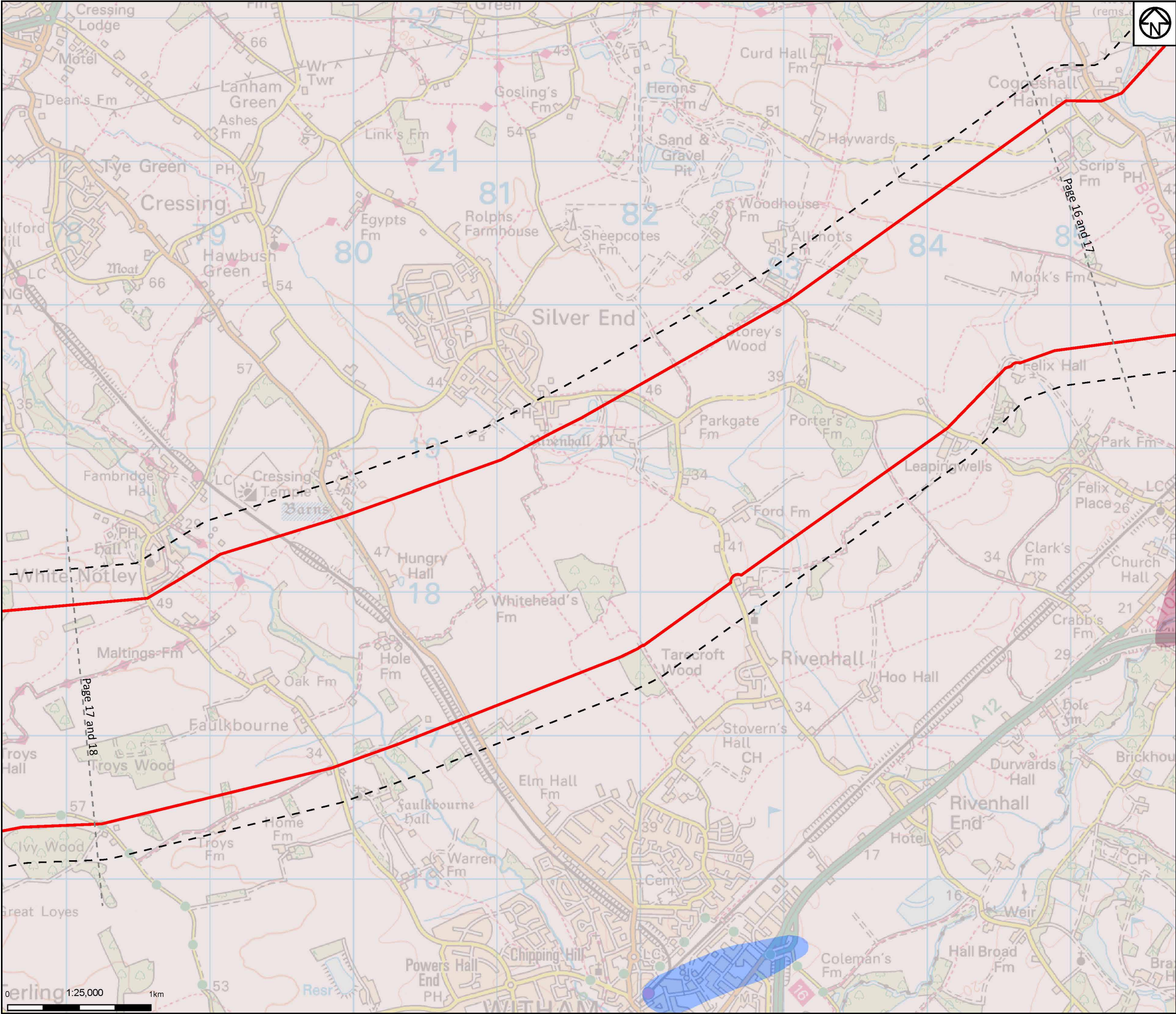
Figure 9.2
Bedrock Geology
Page 16 of 24

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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Thanet Formation and Lambeth Group (Undifferentiated)
- London Clay Formation
- Thanet Formation

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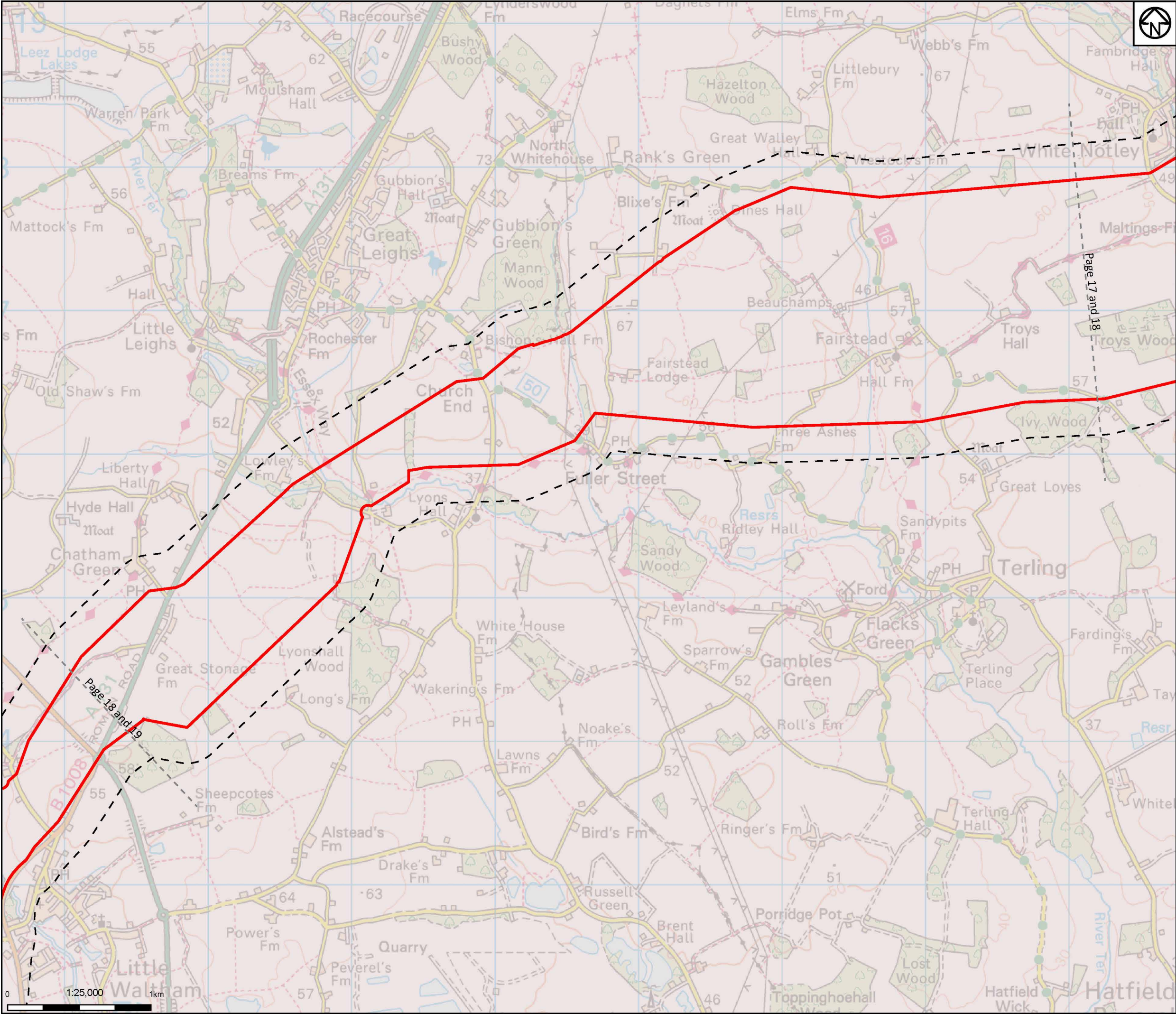


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Rev	Date	Description	Drawn	Check	Approv

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Figure 9.2
Bedrock Geology
Page 17 of 24

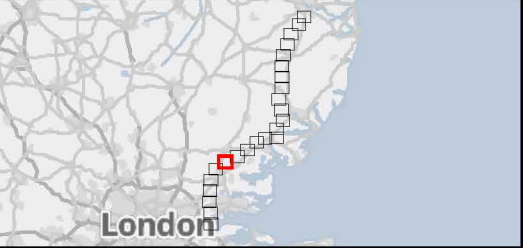
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Drawing Number:				Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2				P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line
- Geology**
- London Clay Formation

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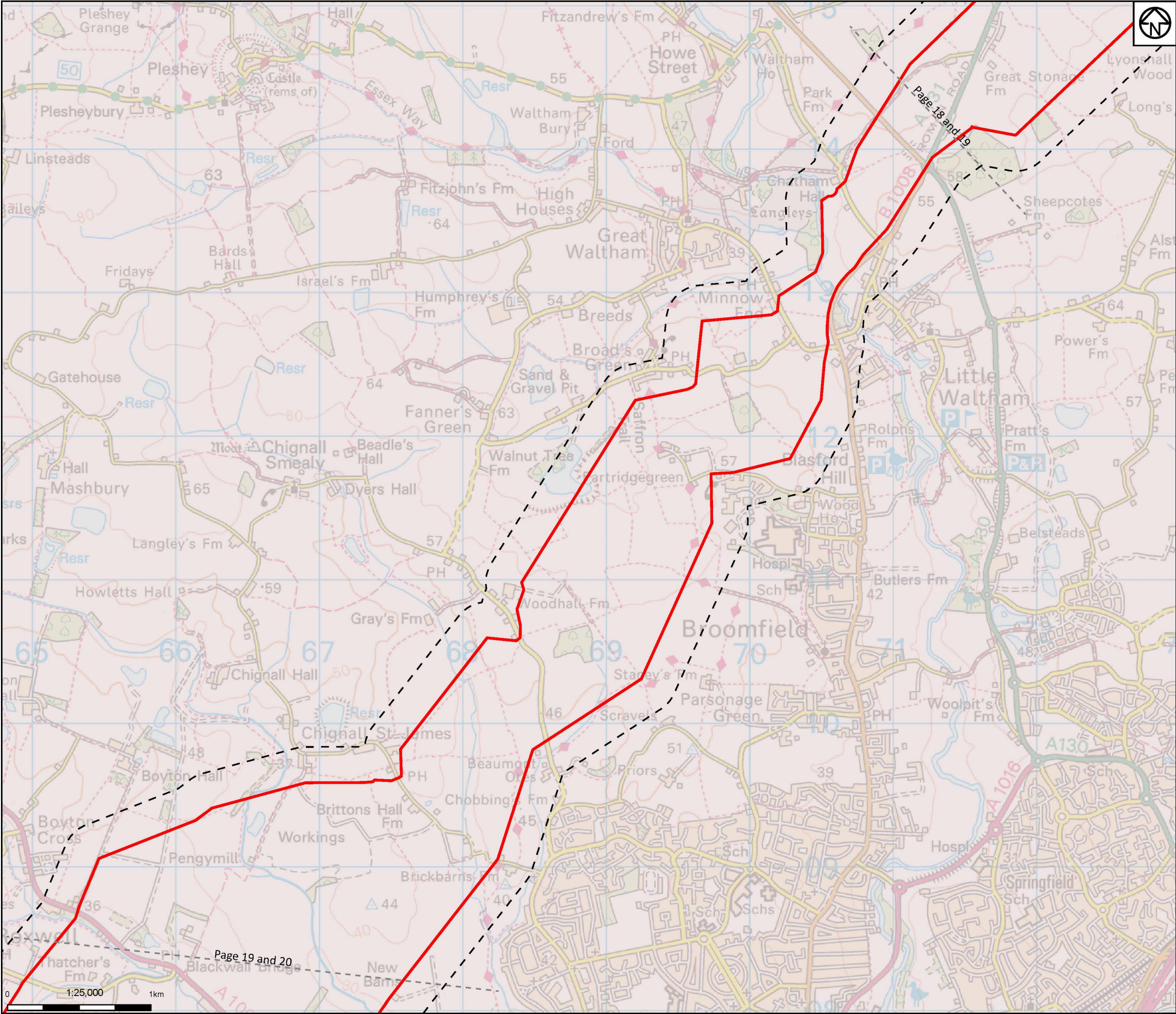
**Figure 9.2
Bedrock Geology
Page 18 of 24**

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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



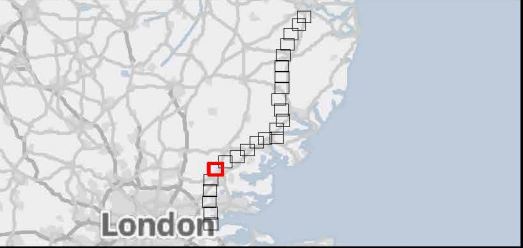
Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- London Clay Formation

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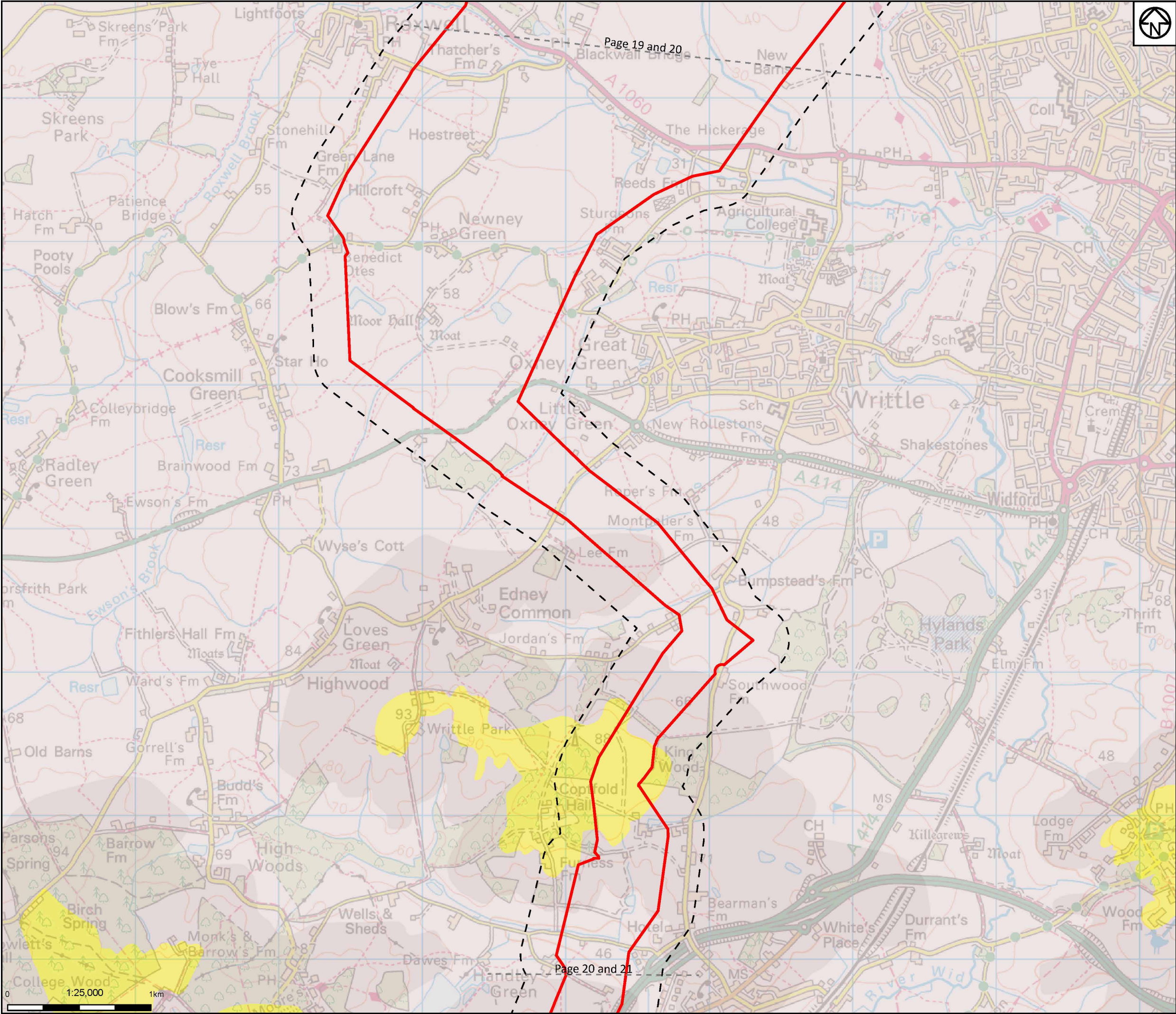
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Bedrock Geology
Page 19 of 24**

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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- London Clay Formation
- Claygate Member
- Bagshot Formation

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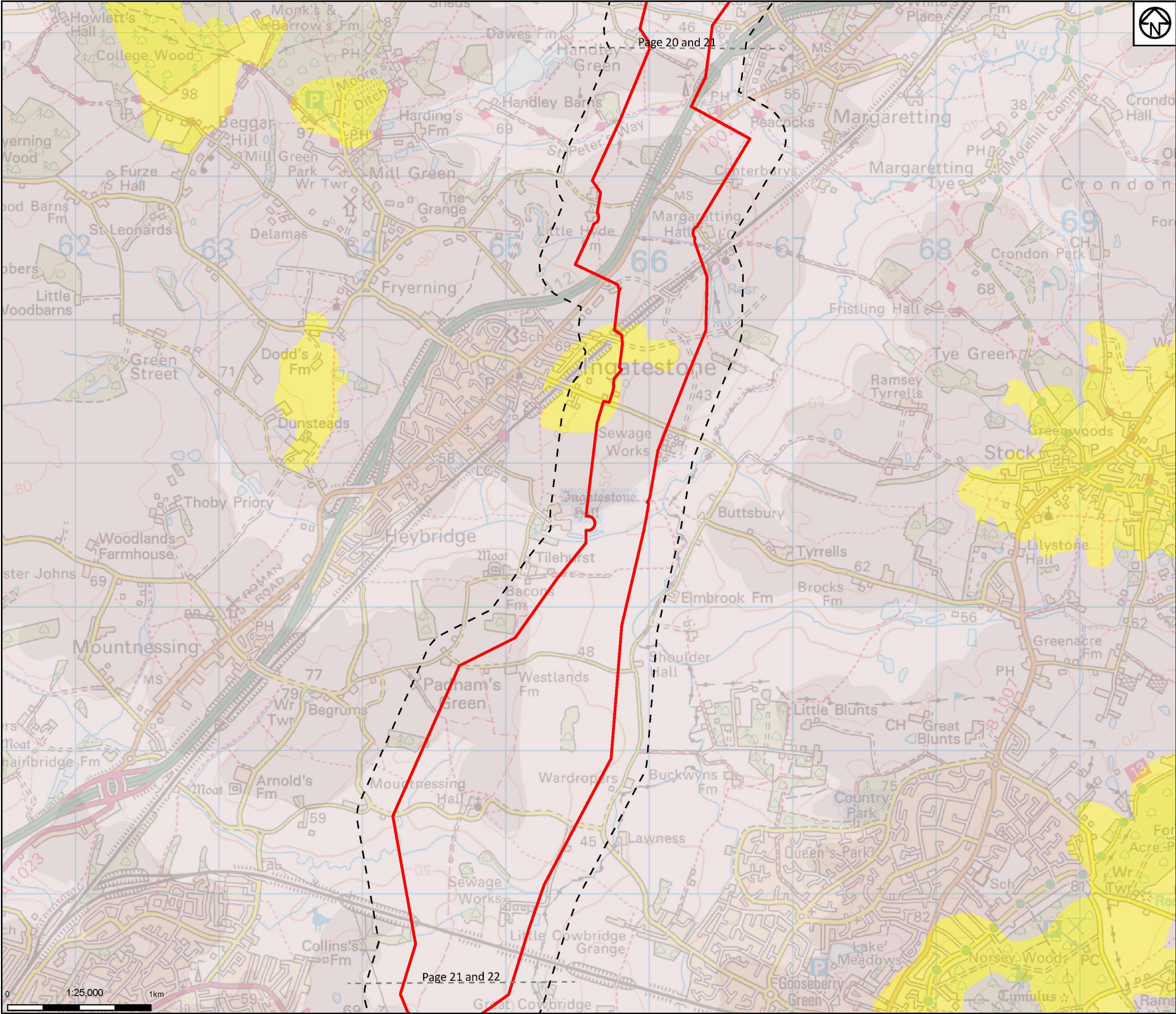
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PROJECT

Title:

**Figure 9.2
Bedrock Geology**
Page 20 of 24

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Drawn	K.Fischer	Date	02 NOV 22	
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Approved	K.Burrows	Date	02 NOV 22	
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Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- London Clay Formation
- Claygate Member
- Bagshot Formation

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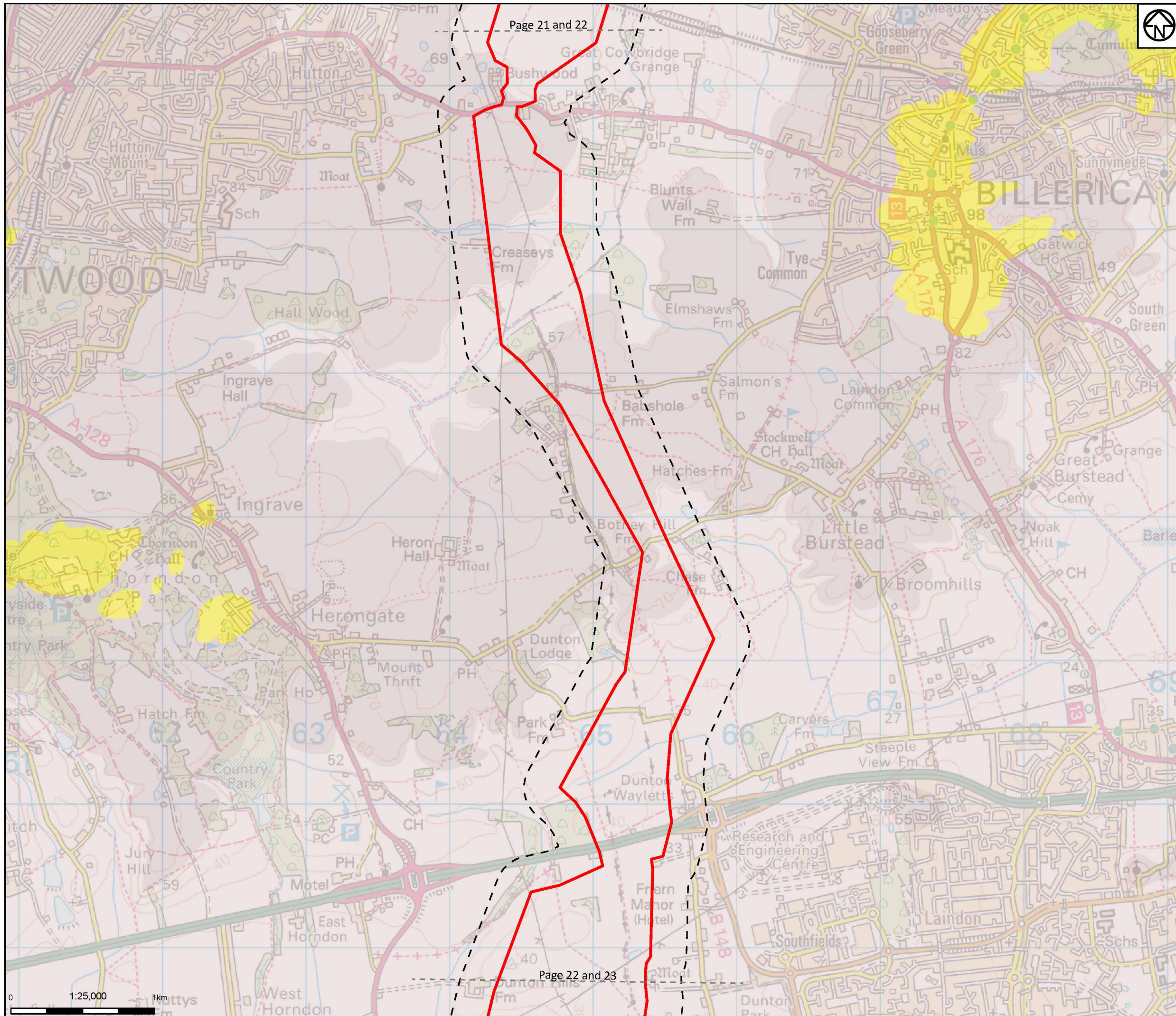
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Rev	Date	Description	Drawn	Check	Approv

PROJECT:
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ENABLEMENT
PROJECT

Figure 9.2
Bedrock Geology
Page 21 of 24

Designed	N.Caton	Date	02 NOV 22	
Drawn	K.Fischer	Date	02 NOV 22	
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- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - London Clay Formation
 - Claygate Member
 - Bagshot Formation

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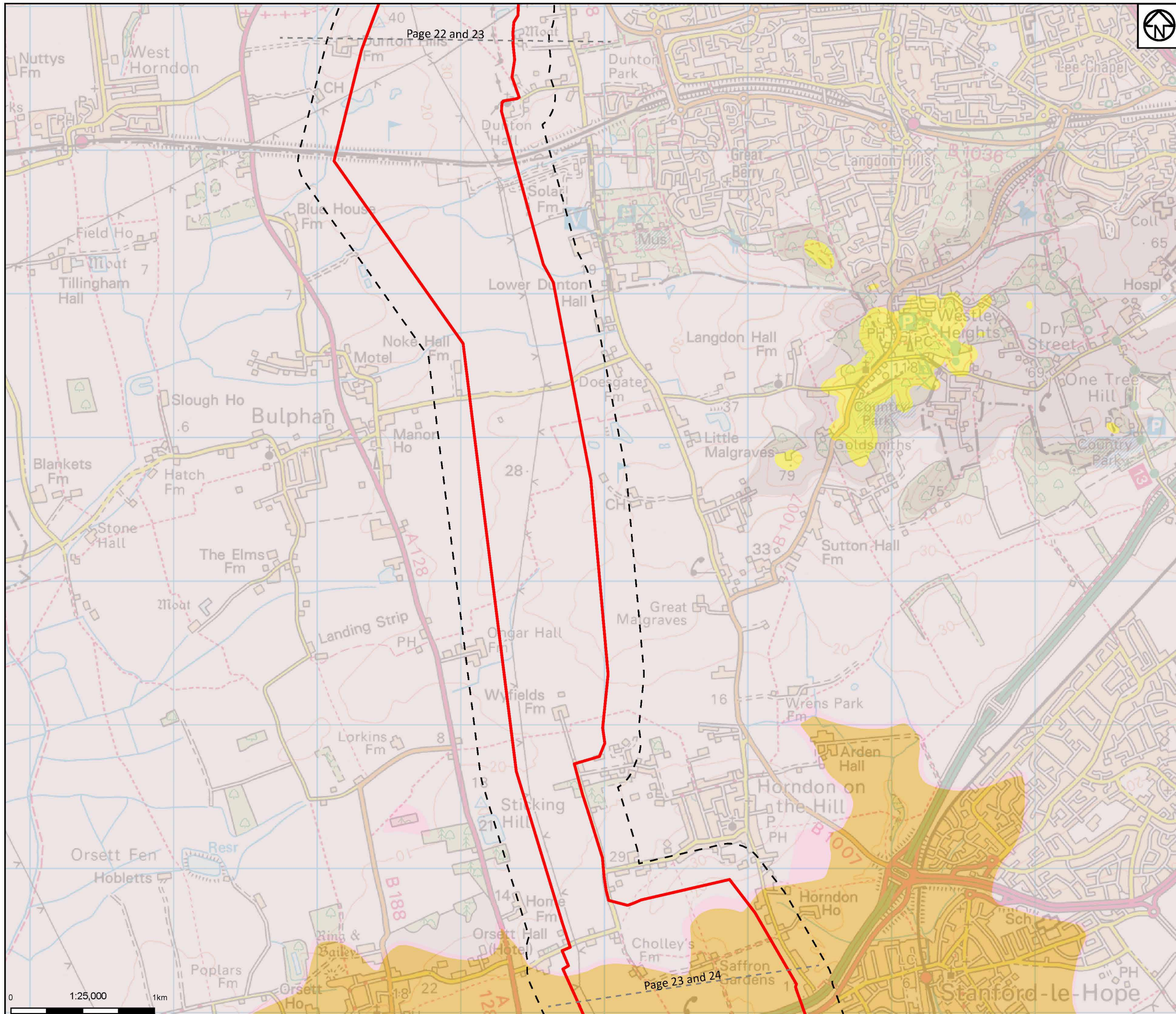
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PROJECT

Figure 9.2
Bedrock Geology
Page 22 of 24

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Suitability Description:
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Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



- Legend**
- Scoping Report Corridor
 - Study Area (250m)
 - Cut line
 - Geology**
 - London Clay Formation
 - Claygate Member
 - Bagshot Formation
 - Lambeth Group
 - Harwich Formation

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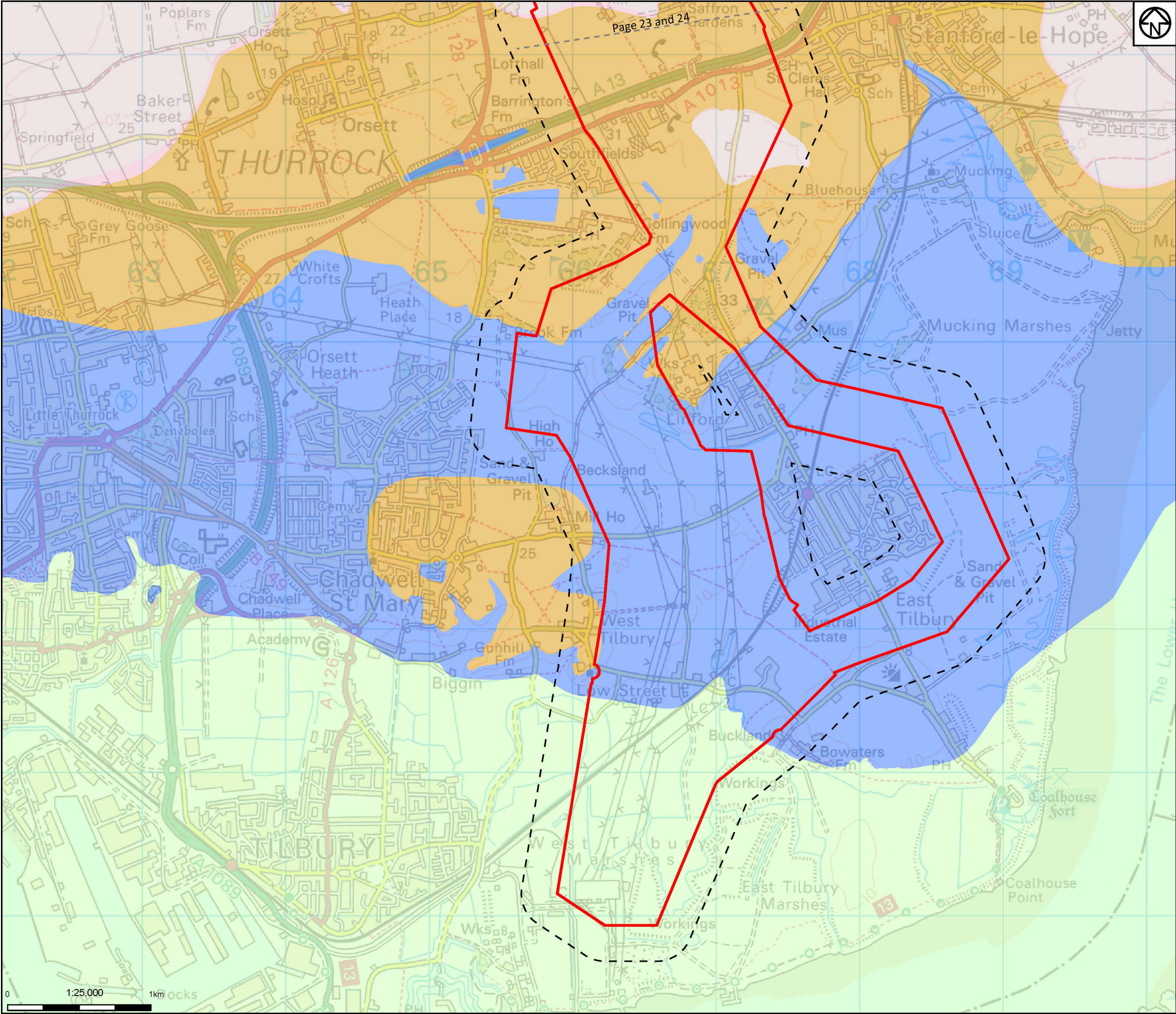
Figure 9.2
Bedrock Geology
Page 23 of 24

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Suitability Description:

Accepted as Concept Stage

Drawing Number:	Revision:
10051663-ARC-EGT-ZZ-DR-ZZ-00012-S2	P01



Legend

- Scoping Report Corridor
- Study Area (250m)
- Cut line

Geology

- Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)
- London Clay Formation
- Thanet Formation
- Lambeth Group
- Harwich Formation
- Seaford Chalk Formation

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Rev	Date	Description	Drawn	Check	Approv

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Title:

**Figure 9.2
Bedrock Geology
Page 24 of 24**

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Drawn	K.Fischer	Date	02 NOV 22	
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