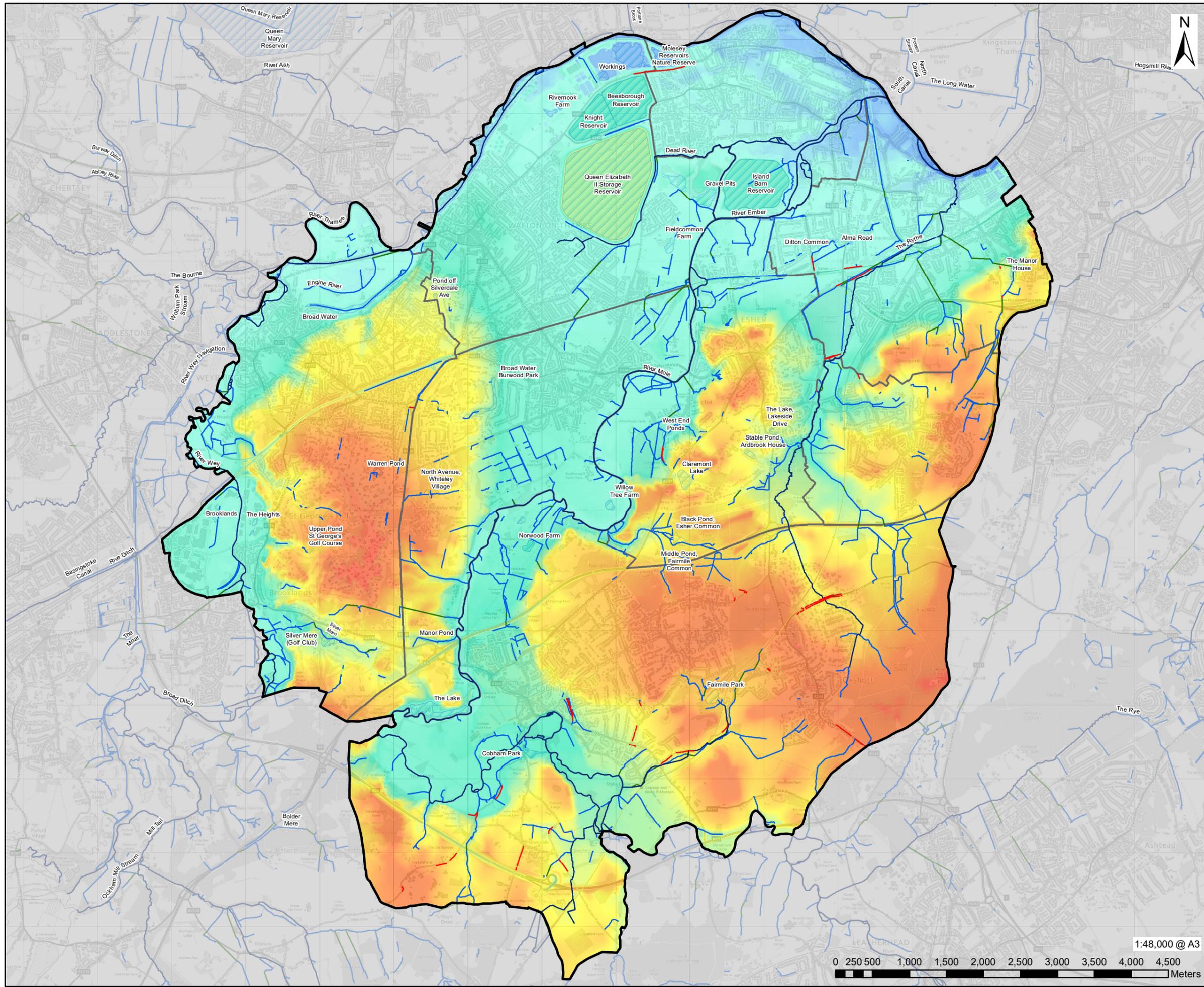


Level 1 SFRA Apr. 2024
Appendix A



PROJECT
 Elmbridge Borough Council
 Level 1 Strategic Flood Risk
 Assessment

CLIENT
 Elmbridge Borough Council

CONSULTANT
 AECOM Limited
 Midpoint, Alencon Link,
 Basingstoke, Hampshire
 RG21 7PP
 www.aecom.com

- LEGEND**
- Elmbridge Borough Council Boundary
 - Settlement Areas
 - EA Main River
 - Open Ordinary Watercourses
 - Culverted Ordinary Watercourse
 - Surrey County Council Highways
 - Ditch
 - Surface Water Bodies

- LiDAR Topographic Survey (mAOD)**
- <5
 - 10
 - 20
 - 30
 - 50
 - 70
 - 80

NOTES

1: Light Detection and Ranging (LiDAR) is an airborne mapping technique which uses laser to measure the distance between the aircraft and the ground.
 2: This dataset has a spatial resolution of 1m. The Environment Agency's LiDAR data archive contains digital elevation data derived from surveys carried out since 1998.

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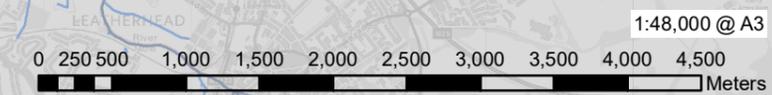
ISSUE PURPOSE

SFRA

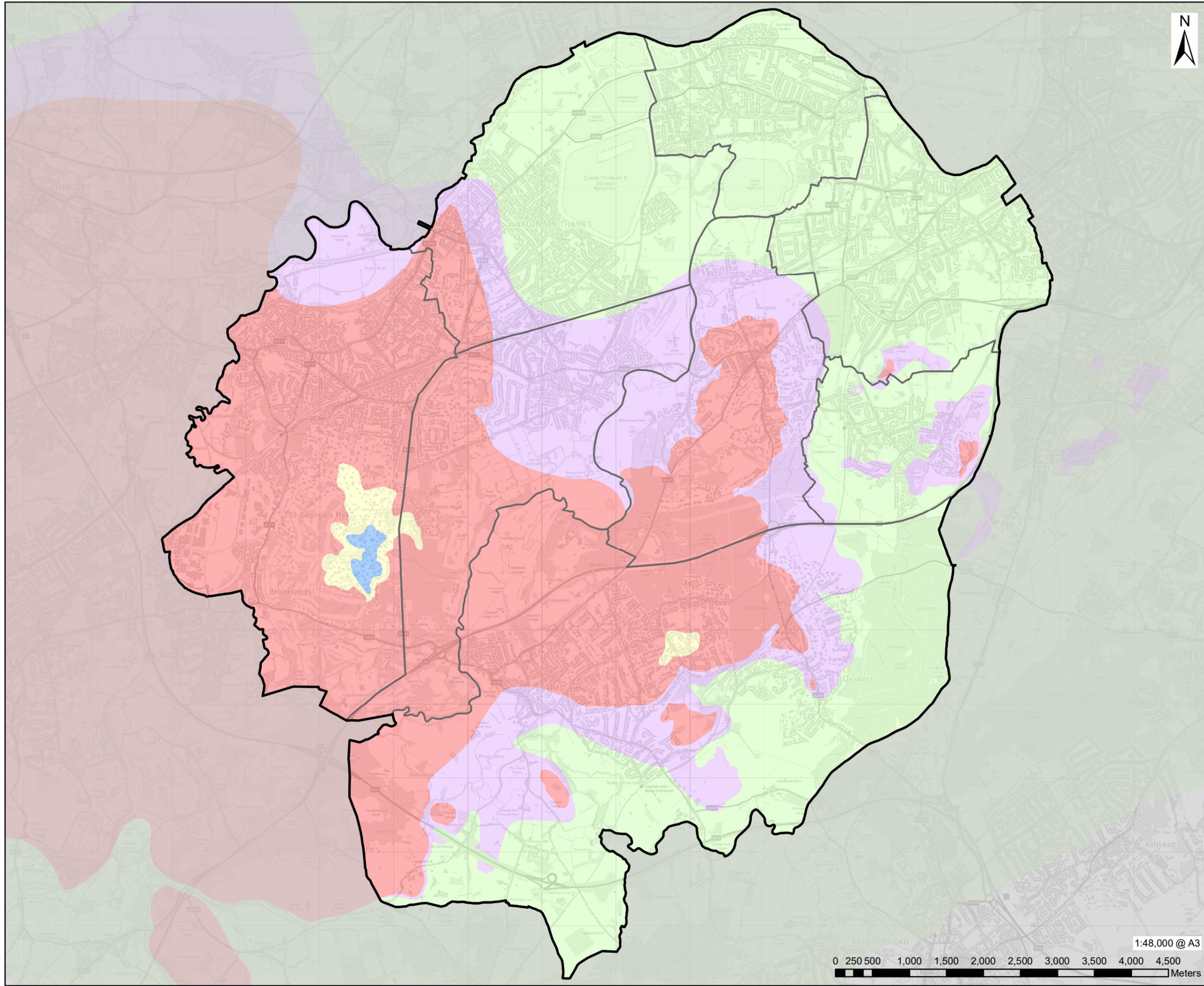
PROJECT NUMBER
 60565750

FIGURE TITLE
 Topography

FIGURE NUMBER
 Figure 1



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LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas
- Bedrock Geology**
- Bagshot Formation
- Camberley Sand Formation
- Claygate Member
- London Clay Formation
- Windlesham Formation

NOTES

- 1: Bedrock geology is the term used for the main mass of rocks forming the earth and is present everywhere, whether exposed at the surface or concealed beneath superficial deposits or water.
- 2: This map shows the BGS Bedrock Geology data.
- 3: Further information on Bedrock Geology can be found within the SFRA Report.

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PROJECT NUMBER

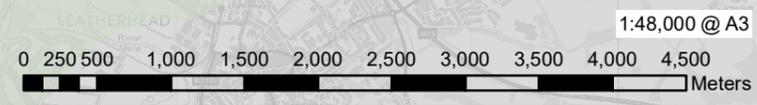
60565750

FIGURE TITLE

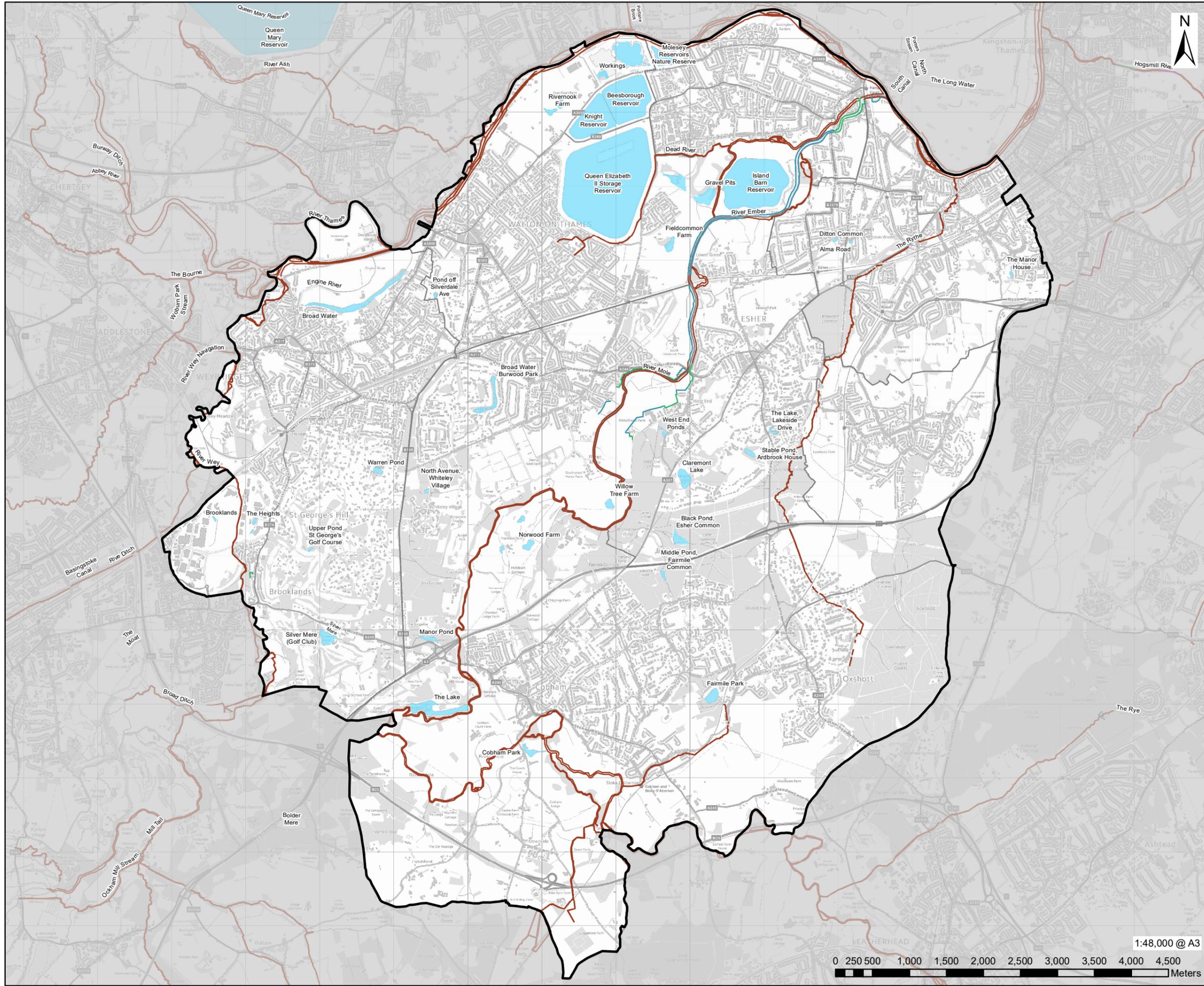
Bedrock Geology

FIGURE NUMBER

Figure 2



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PROJECT
 Elmbridge Borough Council
 Level 1 Strategic Flood Risk
 Assessment

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 Elmbridge Borough Council

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- LEGEND**
- Elmbridge Borough Council Boundary
 - Settlement Areas
 - AIMS Spatial Flood Defences**
 - Embankment
 - Engineered High Ground
 - Flood Gate
 - Natural High Ground
 - Spillway
 - Wall

NOTES

1: This map shows the Environment Agency Main River network, the OS Water Network (Open Ordinary Watercourses), Culverted Ordinary Watercourses, SCC Highway Ditches, Surface Water Bodies and the AIMS Spatial Flood Defences

2: This map is intended to provide a strategic overview of watercourses and defences within Elmbridge.

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60565750

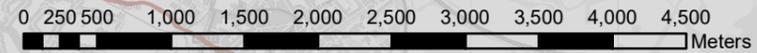
FIGURE TITLE

AIMS Spatial Flood Defences

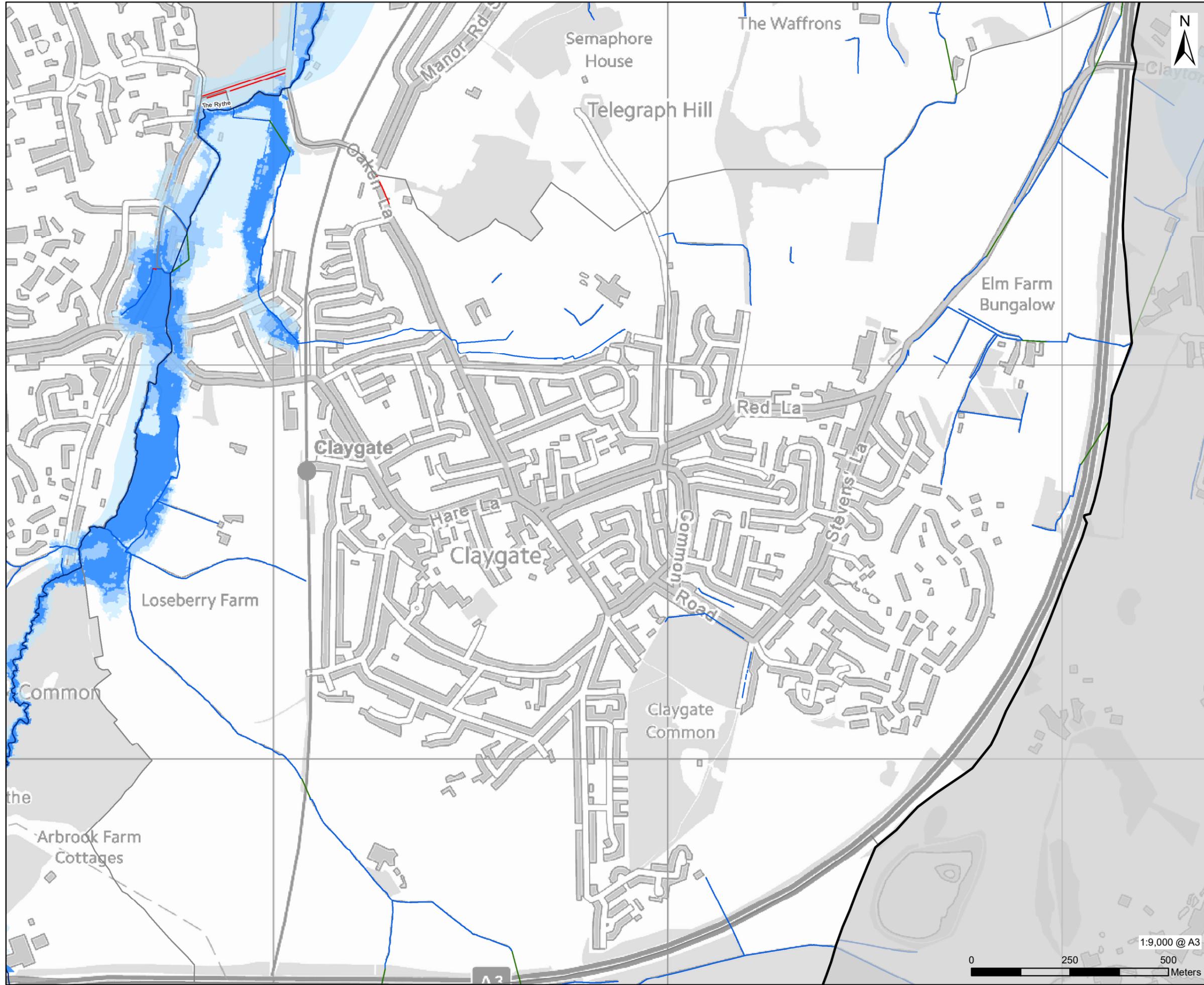
FIGURE NUMBER

Figure 4

1:48,000 @ A3



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AECOM

PROJECT
 Elmbridge Borough Council
 Level 1 Strategic Flood Risk
 Assessment

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- LEGEND**
- Elmbridge Borough Council
 - Settlement
 - EA Main River
 - Open Ordinary Watercourses
 - Culverted Ordinary
 - Surrey County Council Highways
 - Surface Water Bodies
 - Flood Storage
 - Reduction In Risk of Flooding from Rivers and Sea due to Defences

- Flood Zones**
- Flood Zone 3b
 - Flood Zone 3a
 - Flood Zone 2

- NOTES**
- 1: This map shows the predicted likelihood of fluvial flooding based on the Environment Agency's Flood Map for Planning (Rivers and the Sea) and catchment modelling studies, which may be subject to revision in the future. The Flood Map for Planning is provided on the Environment Agency website (<https://flood-map-for-planning.service.gov.uk/>).
 - 2: The probability of fluvial flooding is divided into the following four categories: Flood Zone 1, Flood Zone 2, Flood Zone 3a and Flood Zone 3b. Refer to the SFRA Report for further detail of the Flood Zones and how modelling studies have been used to define the extents of Flood Zone 3b.
 - 3: There are no EA Flood Storage Areas located within the Elmbridge Borough Boundary.
 - 4: This map is intended to provide a strategic overview of fluvial flood risk and should not be used to assess the flood risk for individual properties.

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60565750

FIGURE TITLE

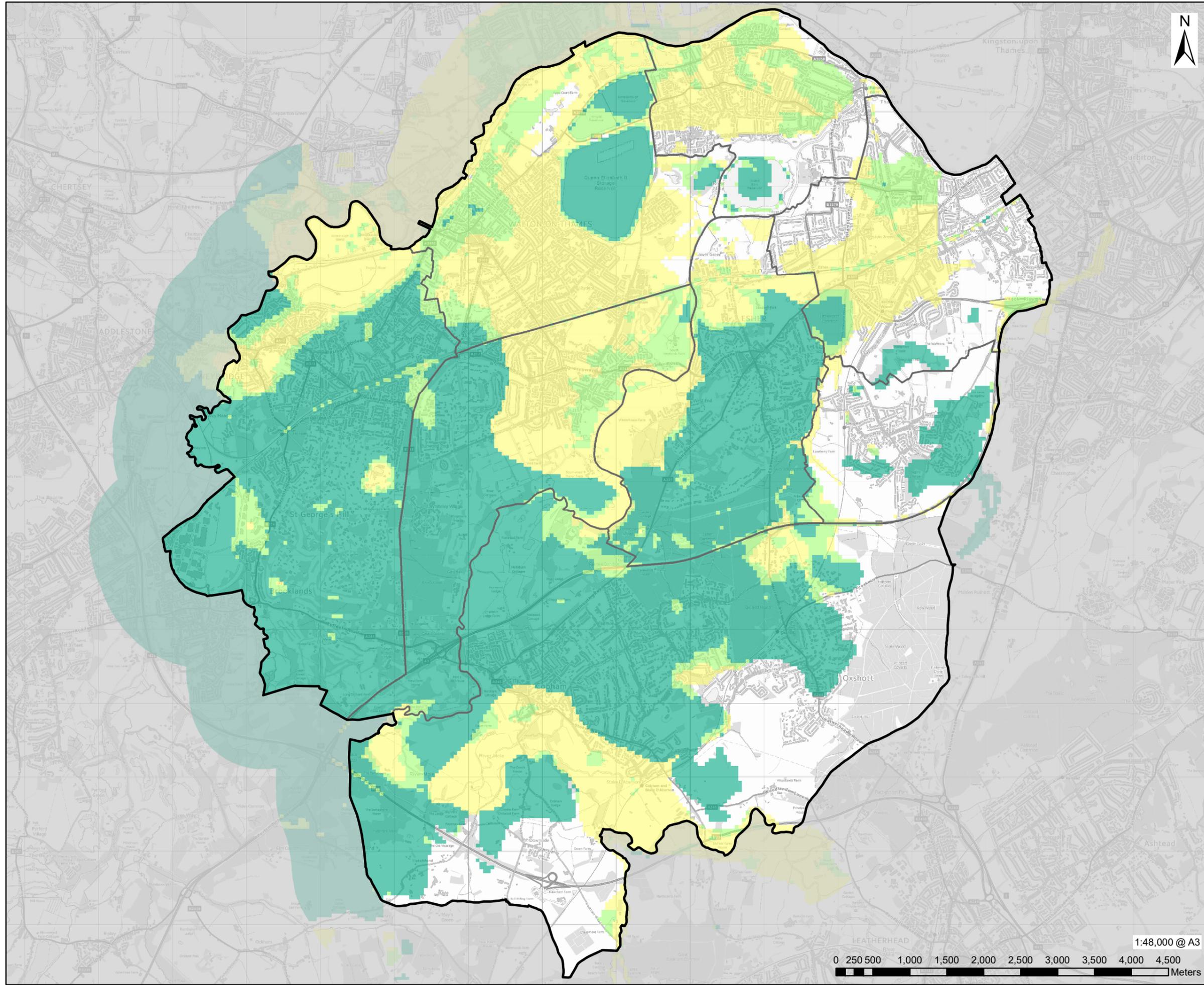
Flood Zones and Reduction in Risk of Flooding from Rivers and Sea due to Defences - Claygate

FIGURE NUMBER

Figure 5-7



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- LEGEND**
- Elmbridge Borough Council Boundary
 - Settlement Areas
 - Susceptibility to Groundwater Flooding**
 - Limited potential for groundwater flooding to occur
 - Potential for groundwater flooding of property situated below ground level
 - Potential for groundwater flooding to occur at surface

- NOTES**
- 1: The BGS Susceptibility to Groundwater Flooding dataset identifies areas where geological conditions could enable groundwater flooding to occur and where groundwater may come close to the surface.
 - 2: The dataset is based on geological and hydrogeological information and is mapped to a 1:50,000 scale.
 - 3: The geological interpretation should only be used as a guide to the geology at a local level, not as a site specific geological plan based on detailed site investigations.
 - 4: Refer to the SFRA Report for further information on groundwater flooding.
 - 6: This map is intended to provide a strategic overview of susceptibility to groundwater flooding and should not be used to assess flood risk for individual properties.

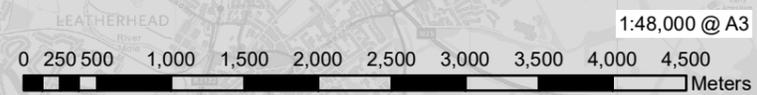
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ISSUE PURPOSE
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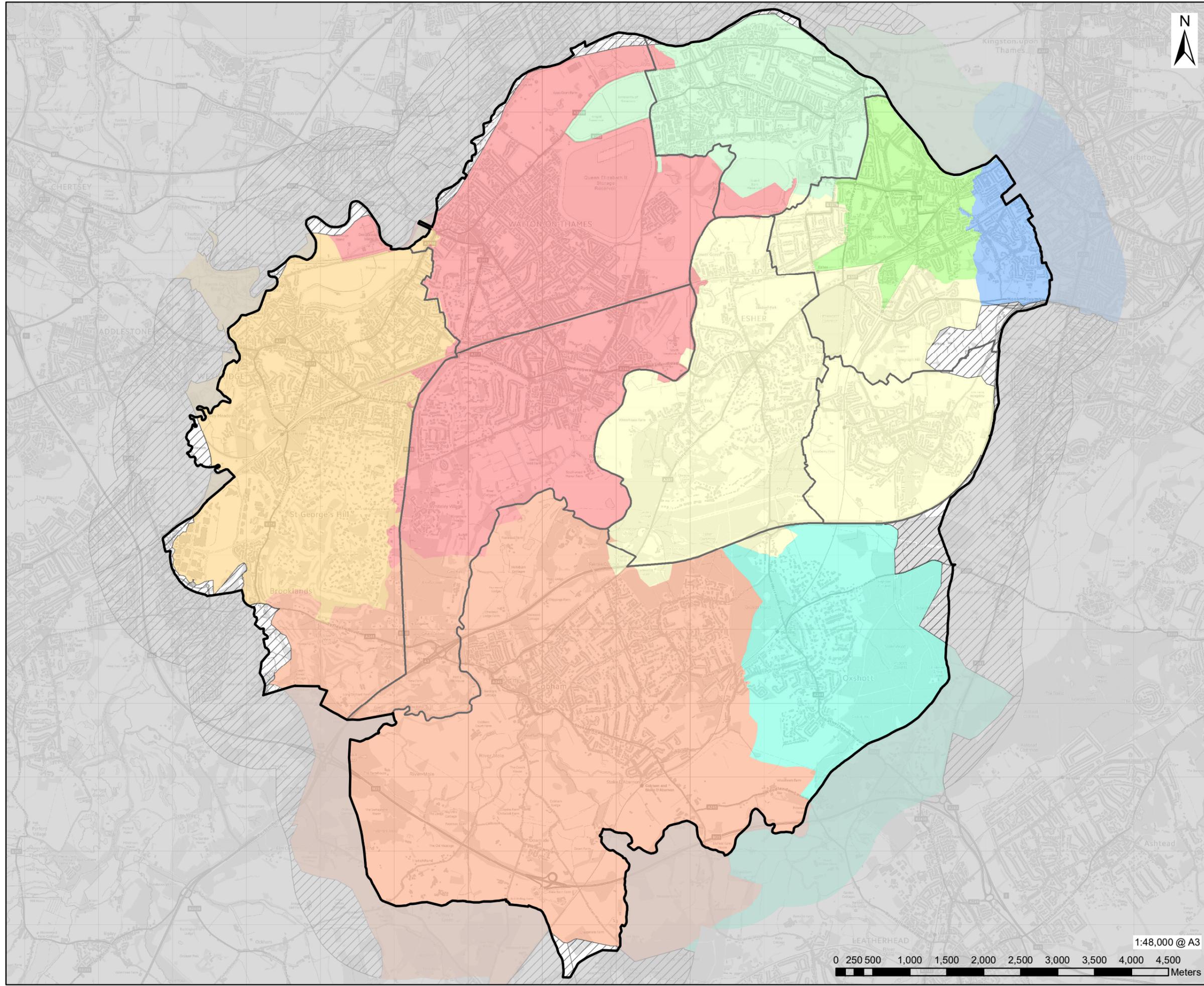
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FIGURE TITLE
 Susceptibility to Groundwater Flooding

FIGURE NUMBER
 Figure 11



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LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas

Number of TW Sewer Records by Postcode

- Unknown
- 5
- 6
- 18
- 22
- 28
- 31
- 45
- 48
- 67

NOTES

- 1: Thames Water has supplied records of sewer flooding for the Borough based on historic flooding. This data has been displayed using the 3 or 4 digit postcode boundaries in the Borough.
- 2: This map is intended to provide a strategic overview of sewer flooding and should not be used to assess the flood risk for individual properties.

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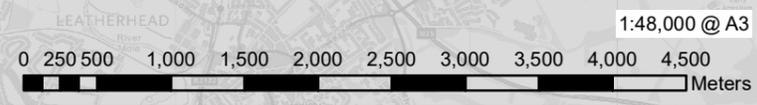
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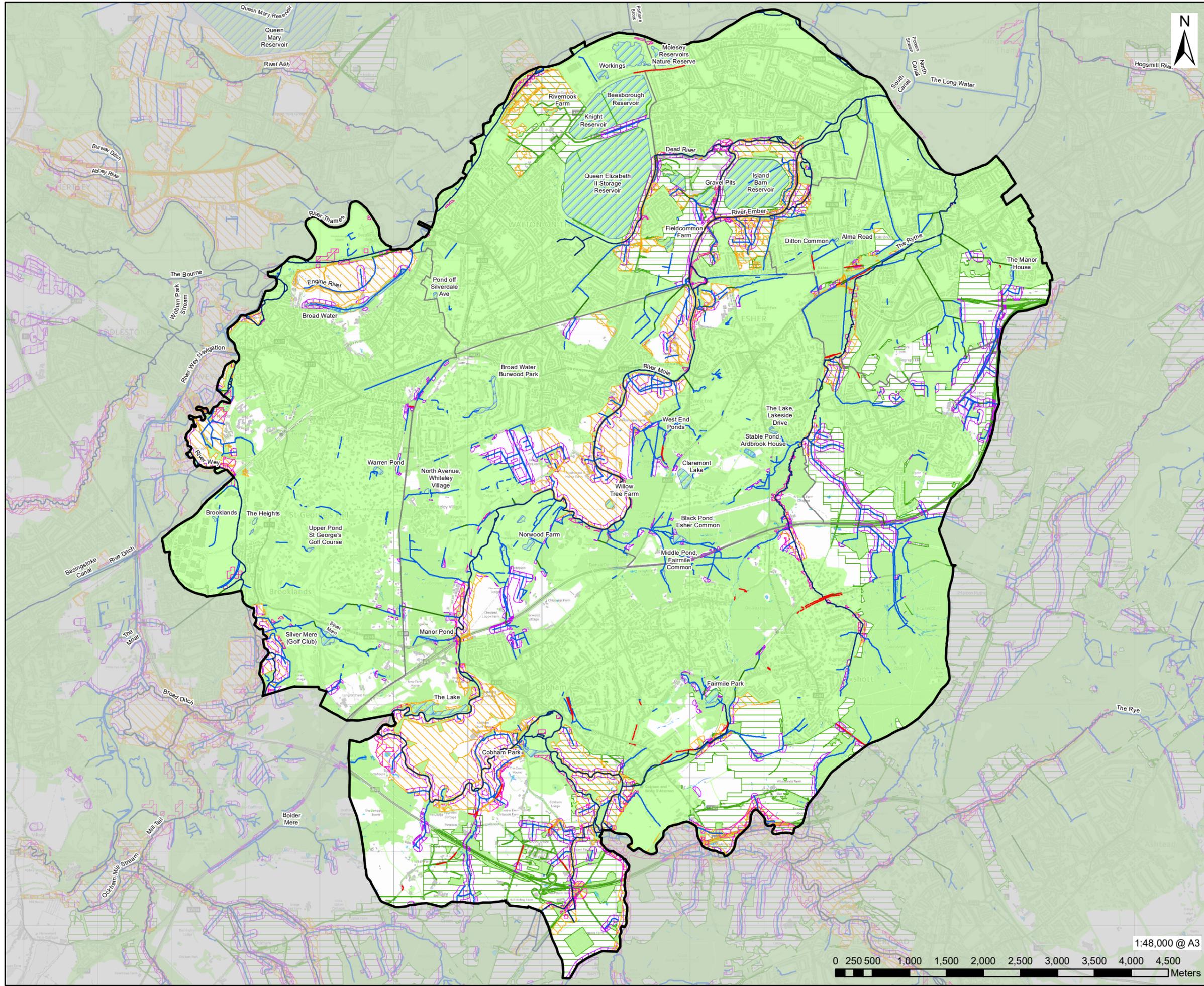
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FIGURE TITLE
 Sewer Flood Records by Postcode

FIGURE NUMBER
 Figure 12



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PROJECT
 Elmbridge Borough Council
 Level 1 Strategic Flood Risk
 Assessment

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- LEGEND**
- Elmbridge Borough Council Boundary
 - Settlement Areas
 - EA Main River
 - Open Ordinary Watercourses
 - Culverted Ordinary Watercourse
 - Surrey County Council Highways Ditch
 - Surface Water Bodies
 - Working with Natural Processes**
 - Floodplain Reconnection Potential
 - Floodplain Woodland Planting Potential
 - Riparian Woodland Planting Potential
 - Wider Catchment Woodland Potential
 - Runoff Attenuation Features**
 - 3.3% AEP
 - 1% AEP
 - Woodland Constraints

NOTES

1: Working With Natural Processes (WWNP) is a dataset created by the Environment Agency that identifies potential locations for WWNP. Further information on each dataset mapped can be found at <https://environment.data.gov.uk/>

2: This map is intended to provide a strategic overview of areas with the potential of WWNP in Elmbridge.

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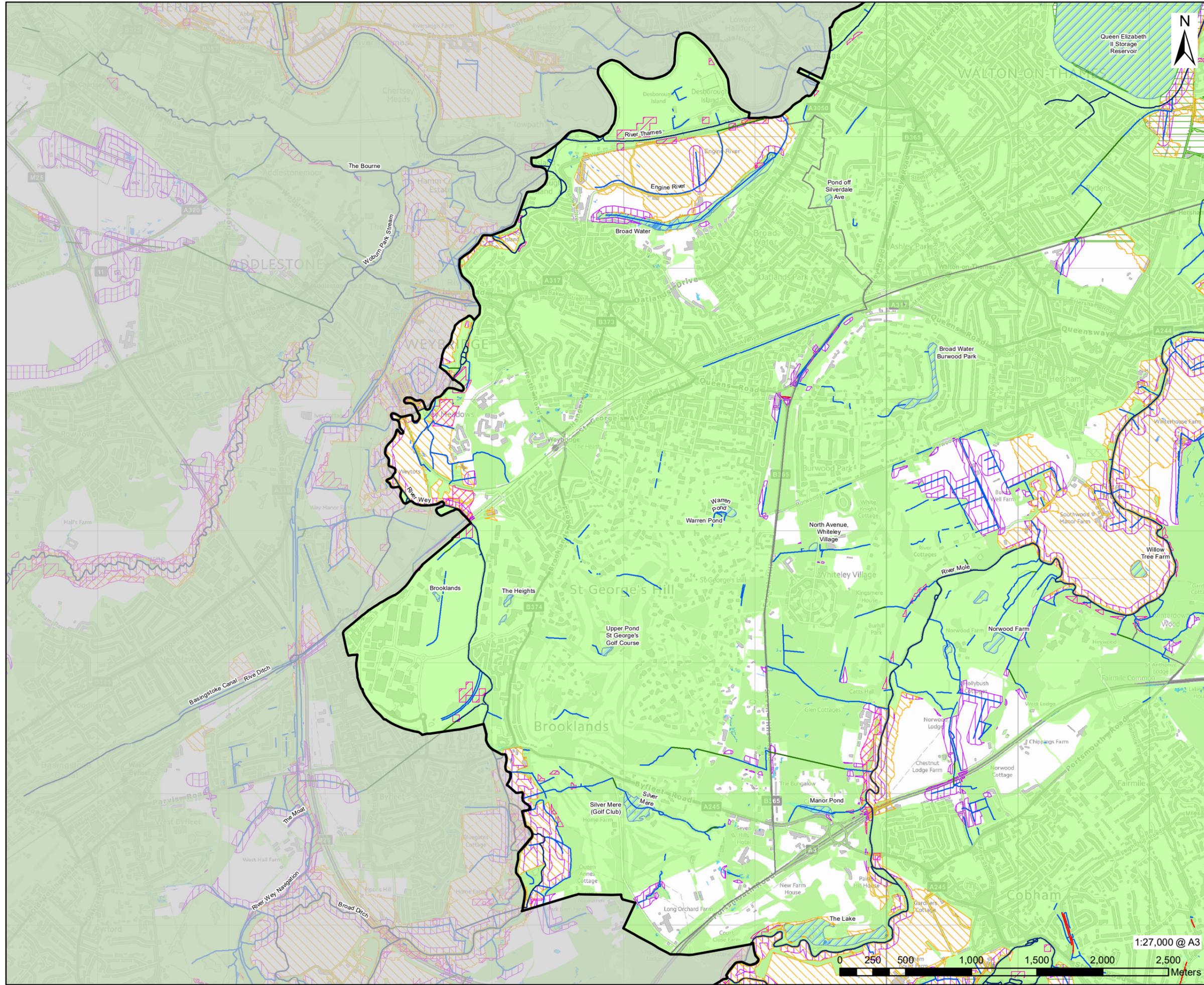
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FIGURE TITLE
 Working With Natural Processes

FIGURE NUMBER
 Figure 14



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 Level 1 Strategic Flood Risk
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- LEGEND**
- Elmbridge Borough Council Boundary
 - Settlement Areas
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 - Working with Natural Processes**
 - Floodplain Reconnection Potential
 - Floodplain Woodland Planting Potential
 - Riparian Woodland Planting Potential
 - Wider Catchment Woodland Potential
 - Runoff Attenuation Features**
 - 3.3% AEP
 - 1% AEP
 - Woodland Constraints

NOTES

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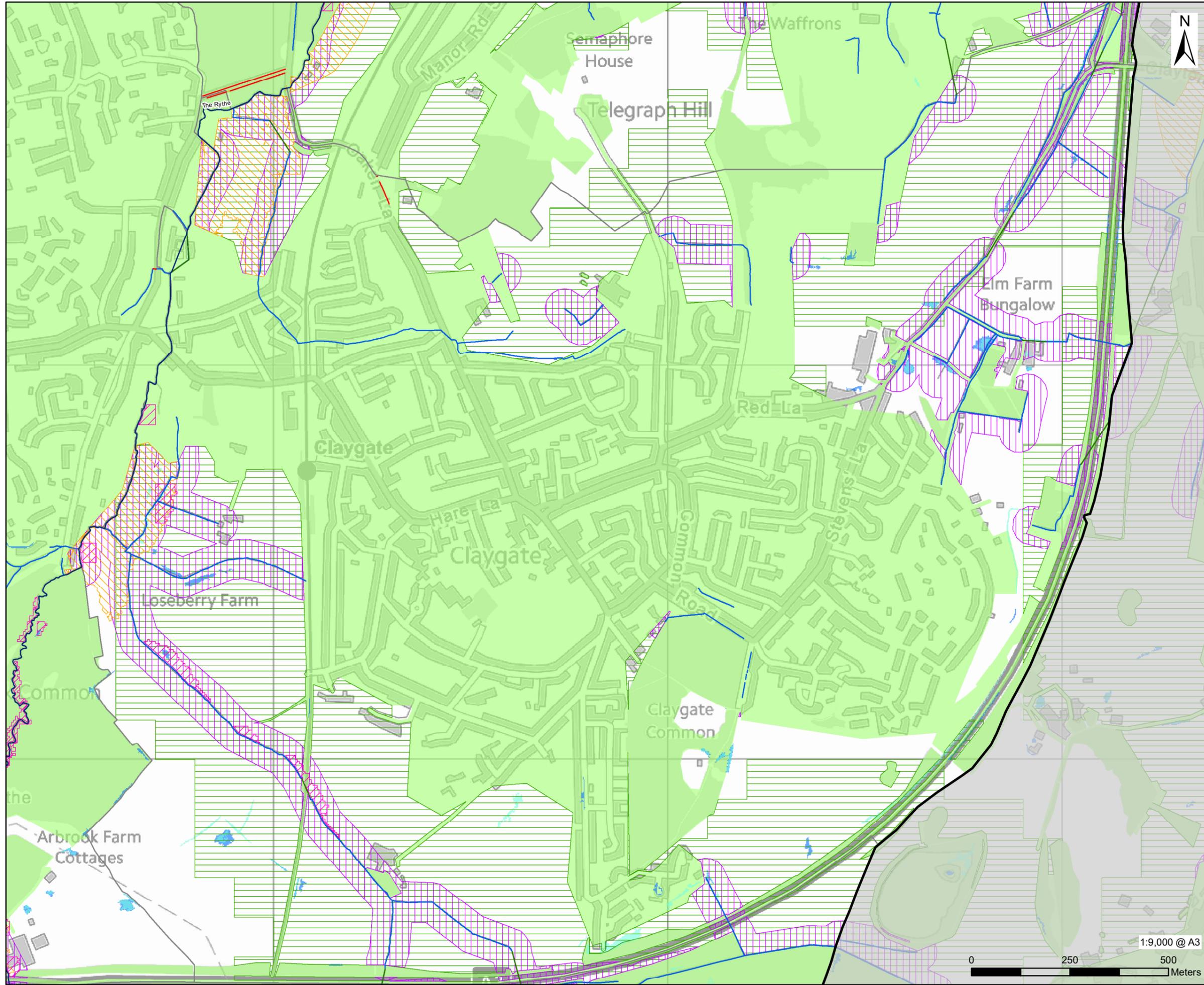
FIGURE TITLE
 Working With Natural Processes -
 Weybridge

FIGURE NUMBER
 Figure 14-4

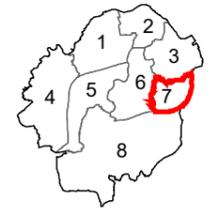
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SETTLEMENT AREAS



- LEGEND**
- Elmbridge Borough Council Boundary
 - Settlement Areas
 - EA Main River
 - Open Ordinary Watercourses
 - Culverted Ordinary Watercourse
 - Surrey County Council Highways Ditch
 - Surface Water Bodies
 - Working with Natural Processes**
 - Floodplain Reconnection Potential
 - Floodplain Woodland Planting Potential
 - Riparian Woodland Planting Potential
 - Wider Catchment Woodland Potential
 - Runoff Attenuation Features**
 - 3.3% AEP
 - 1% AEP
 - Woodland Constraints

NOTES

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2: This map is intended to provide a strategic overview of areas with the potential of WWNP in Elmbridge.

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FIGURE TITLE

Working With Natural Processes - Claygate

FIGURE NUMBER

Figure 14-7



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