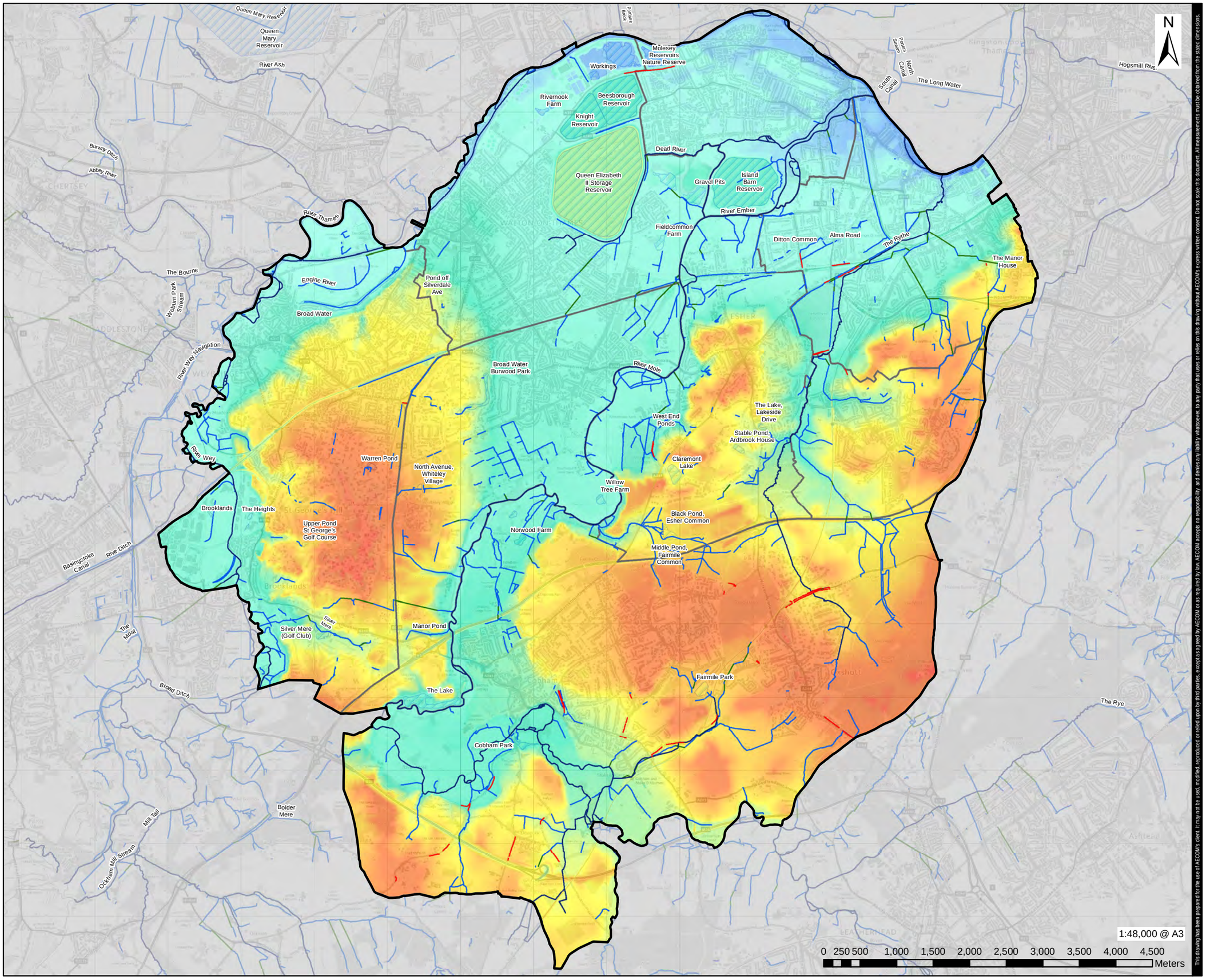
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-18



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PROJECT

Elmbridge Borough Council Level 1 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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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 airbourne mapping techniques 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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SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Topography

FIGURE NUMBER

Figure 1

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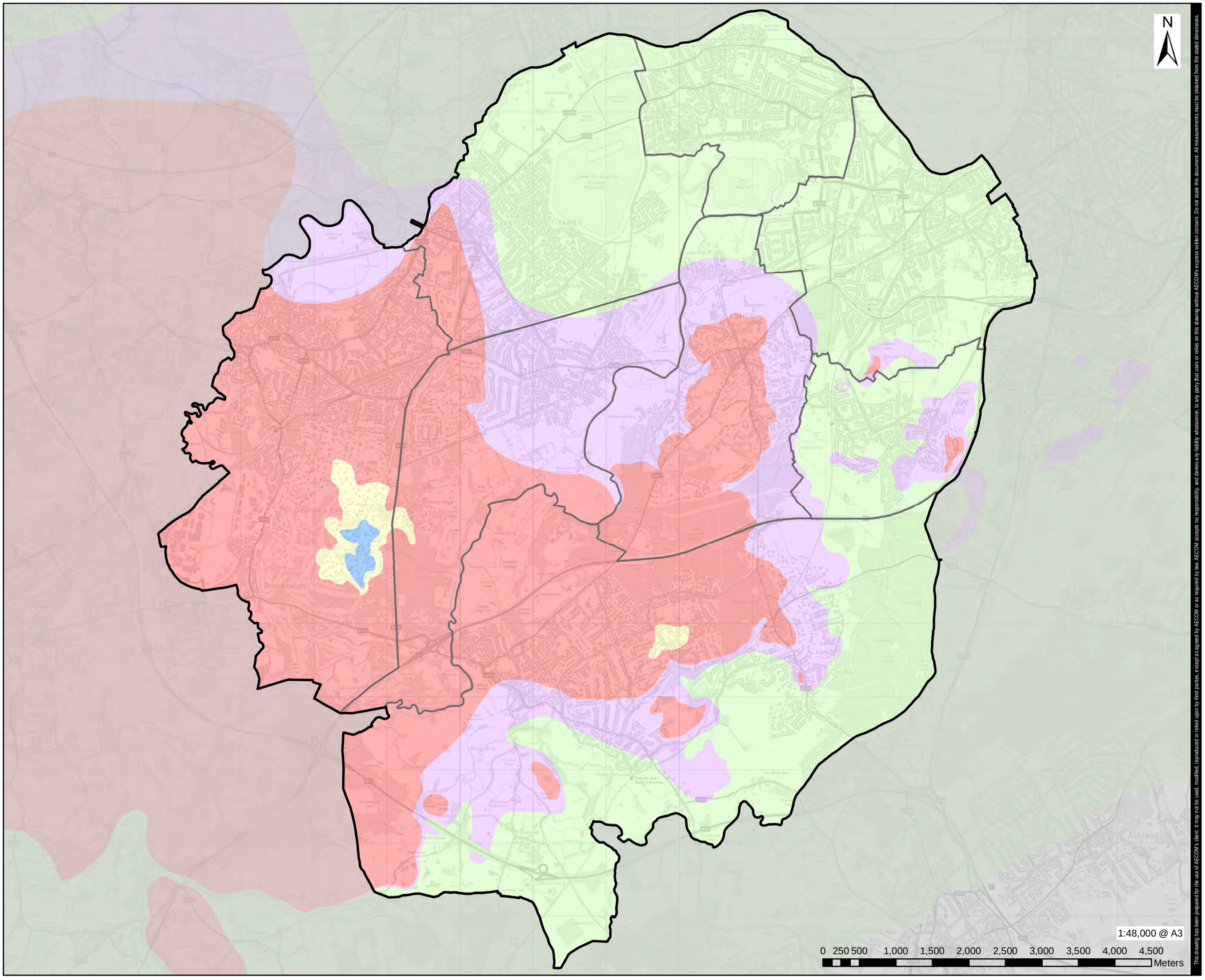

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LEGEND

- 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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FIGURE TITLE

Bedrock Geology

FIGURE NUMBER

Figure 2

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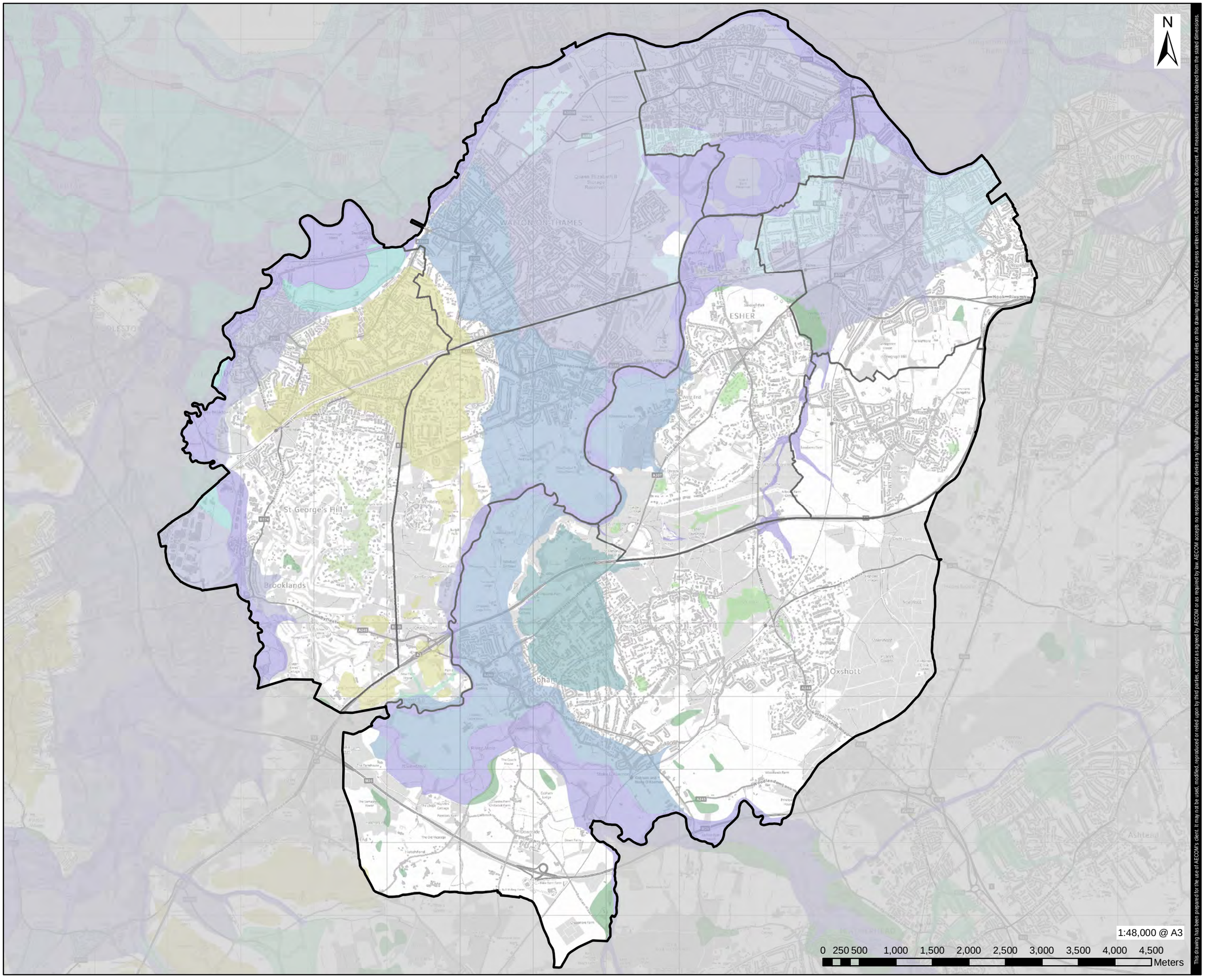

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LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas

Superficial Deposits

- Alluvium
- Black Park Gravel Member
- Boyn Hill Gravel Member
- Head
- Kempton Park Gravel Formation
- Langley Silt Member
- Lynch Hill Gravel Member
- River Terrace Deposits (Undifferentiated)
- Sand and Gravel
- Shepperton Gravel Member
- Taplow Gravel Member

NOTES

1: Superficial deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 2.6 million years from the present. They rest on older deposits or rocks referred to as bedrock.
2: This map shows the BGS Superficial Deposits Geology data.
3: Further information on Superficial Deposits can be found within the SFRA Report.

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PROJECT NUMBER

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FIGURE TITLE

Superficial Deposits

FIGURE NUMBER

Figure 3

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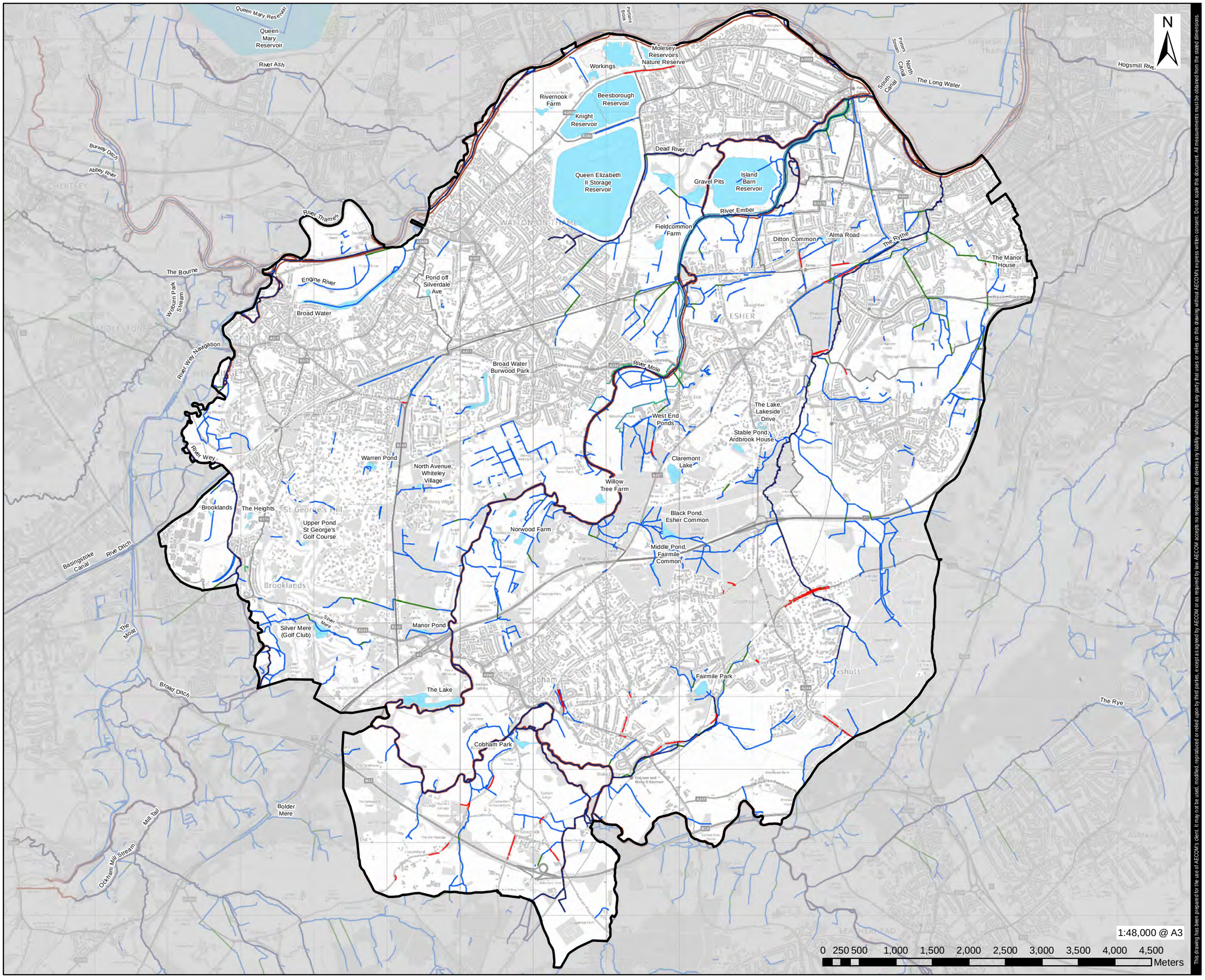

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LEGEND

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

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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PROJECT NUMBER

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FIGURE TITLE

Watercourses, Waterbodies and AIMS Spatial Flood Defences

FIGURE NUMBER

Figure 4

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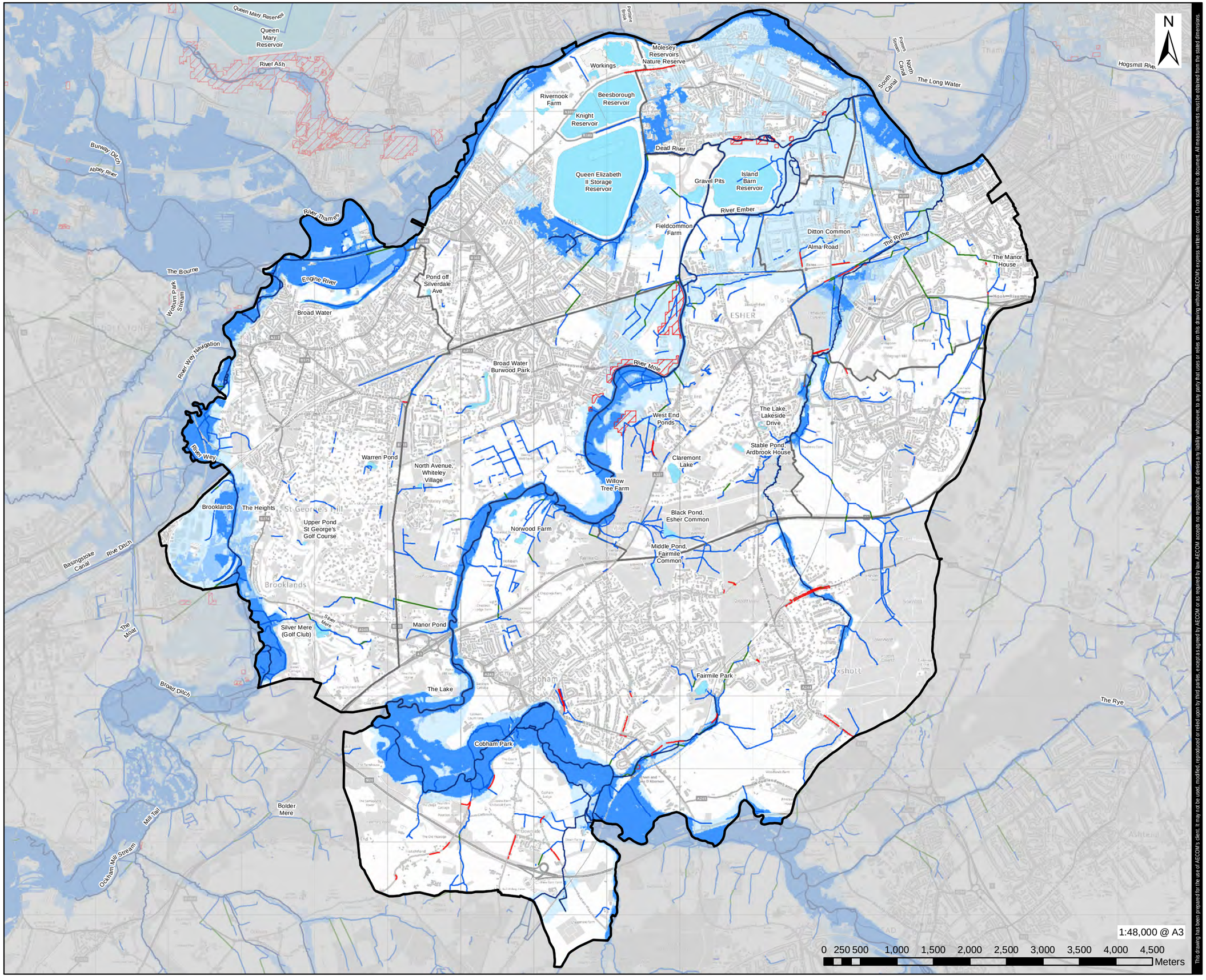
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-20



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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
- *Flood Storage Areas*
- 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 (www.gov.uk/environment-agency).
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FIGURE TITLE

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

FIGURE NUMBER

Figure 5

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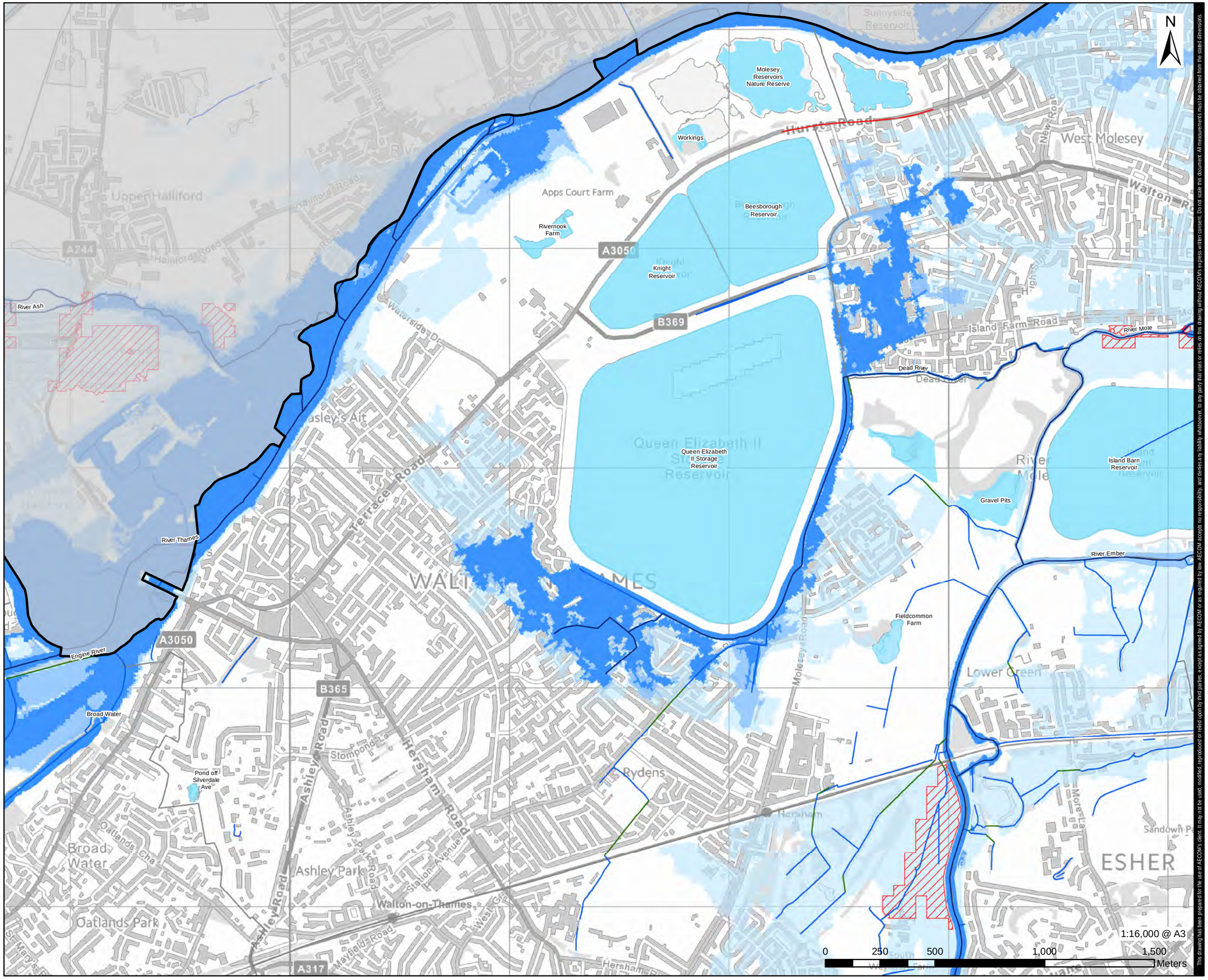

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies
- Flood Storage Areas
- 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 (www.gov.uk/environment-agency).
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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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones and Reduction in Risk of Flooding from Rivers and Sea due to Defences - Walton On Thames

FIGURE NUMBER

Figure 5-1

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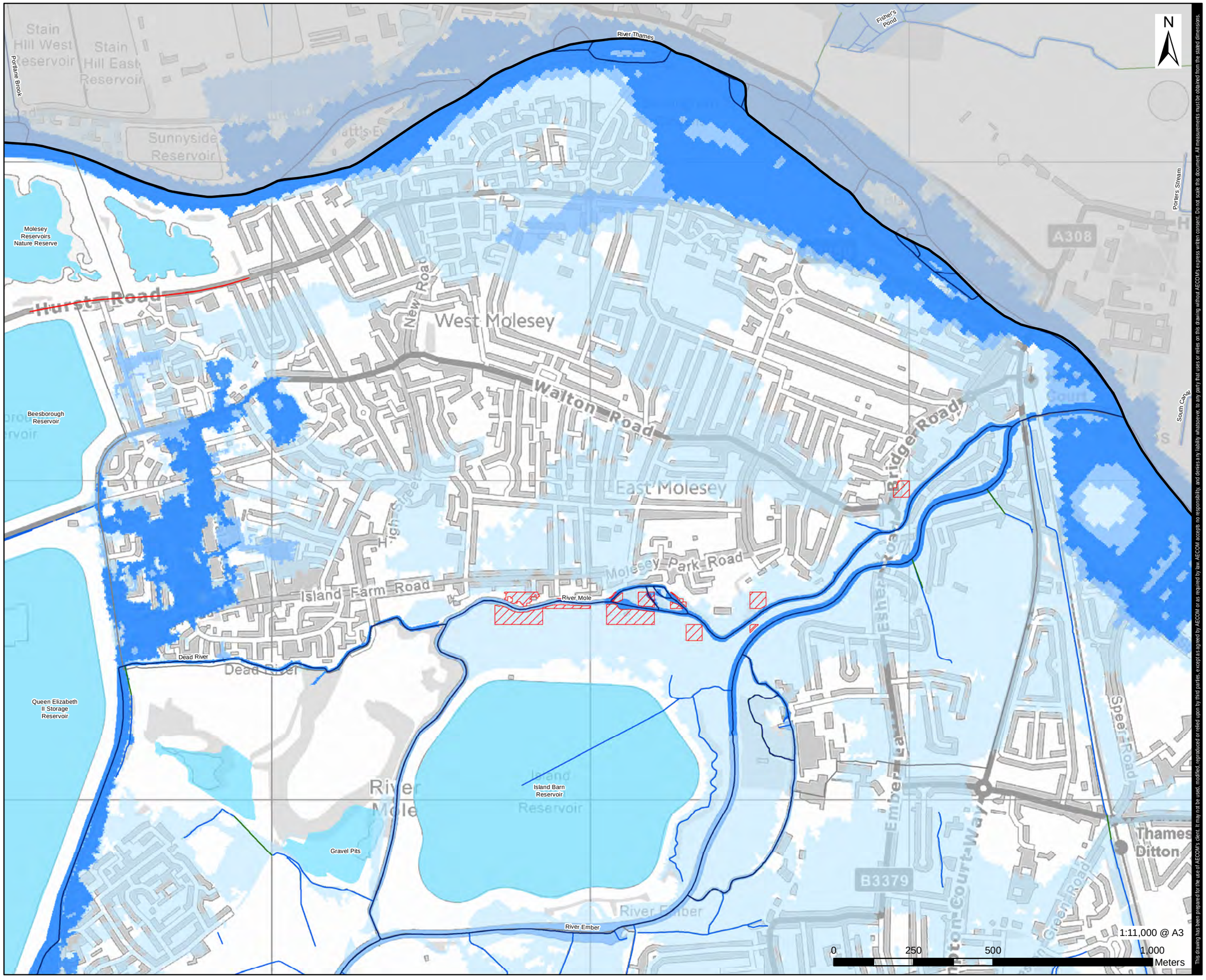

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies
- Flood Storage Areas
- 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 (www.gov.uk/environment-agency).
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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones and Reduction in Risk of Flooding from Rivers and Sea due to Defences - East and West Molesey

FIGURE NUMBER

Figure 5-2

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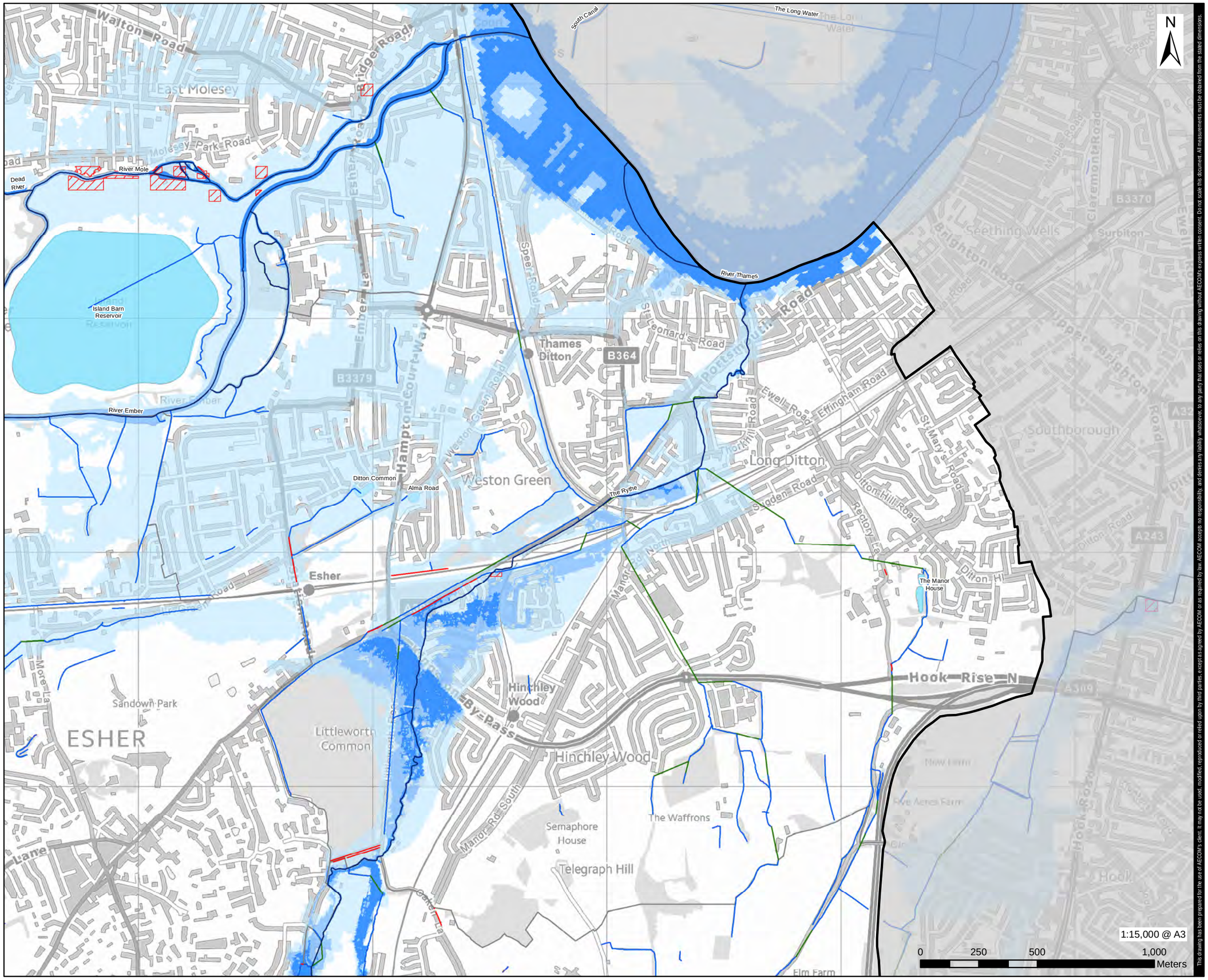

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SETTLEMENT AREAS

LEGEND

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

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Flood Zones and Reduction in Risk of Flooding from Rivers and Sea due to Defences - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 5-3

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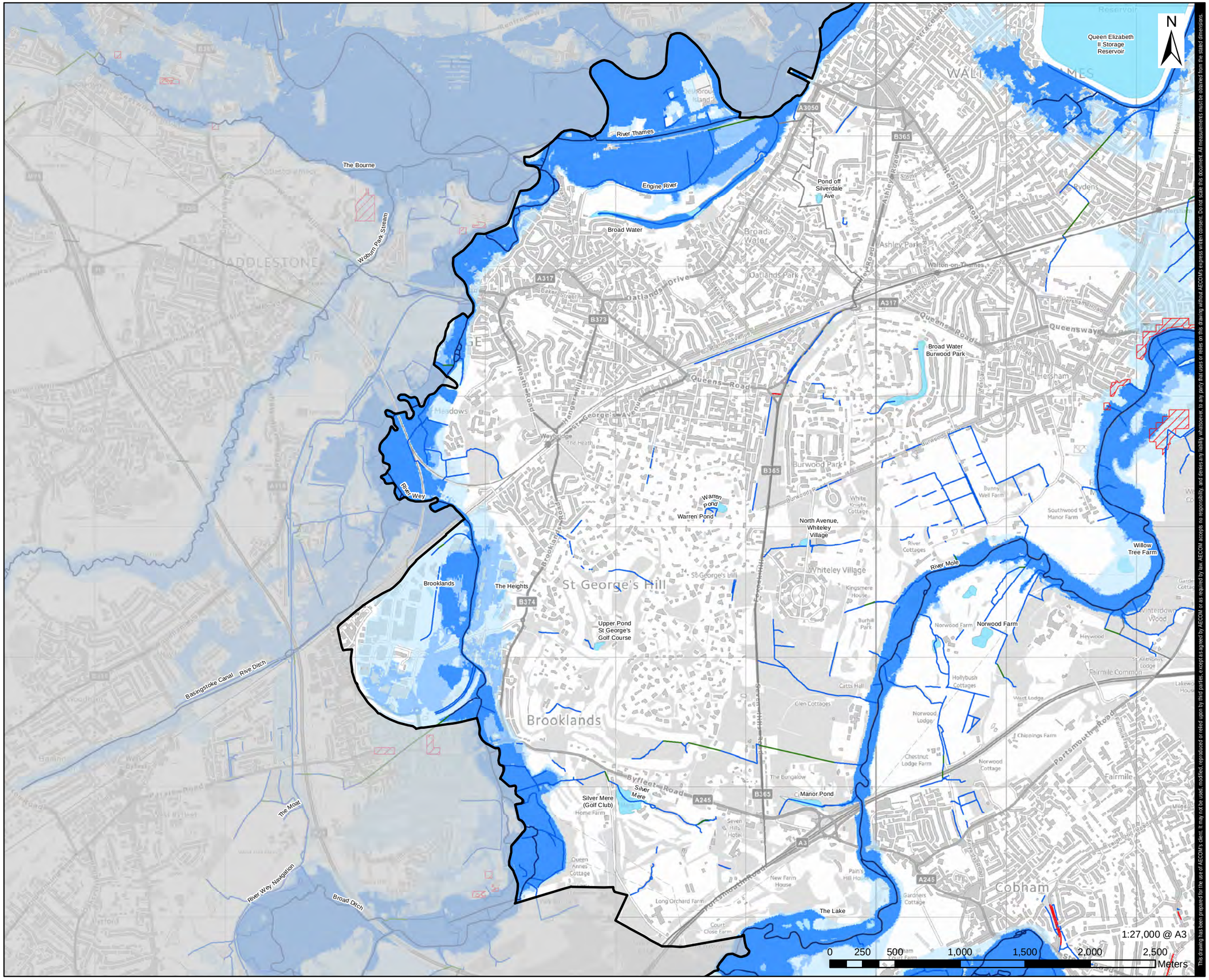

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SETTLEMENT AREAS

LEGEND

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

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

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

FIGURE NUMBER

Figure 5-4

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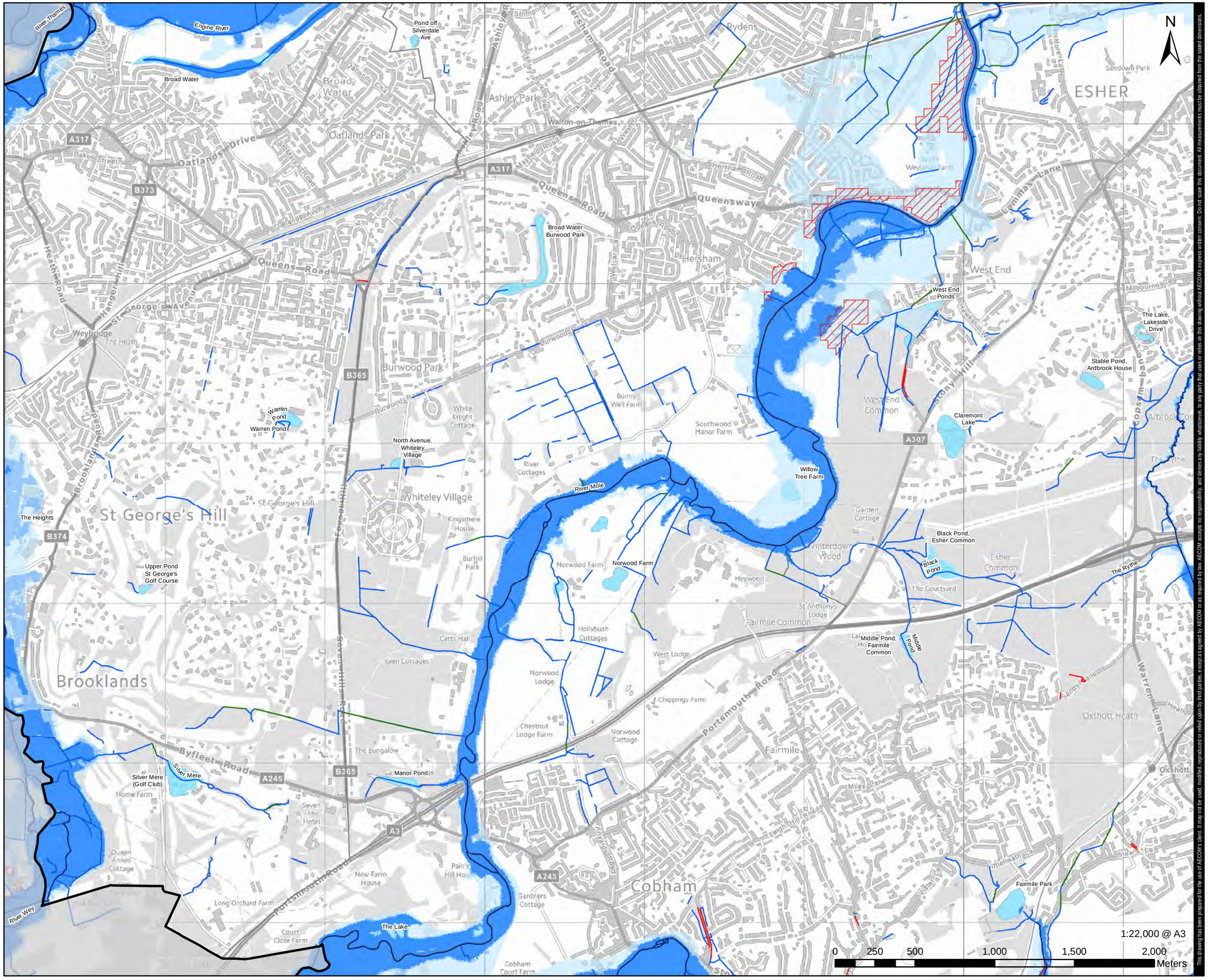

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SETTLEMENT AREAS

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- Surrey County Council Highways Ditch
- Surface Water Bodies
- Flood Storage Areas
- Reduction In Risk of Flooding from Rivers and Sea due to Defences

Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

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ISSUE PURPOSE

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FIGURE TITLE

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

FIGURE NUMBER

Figure 5-5

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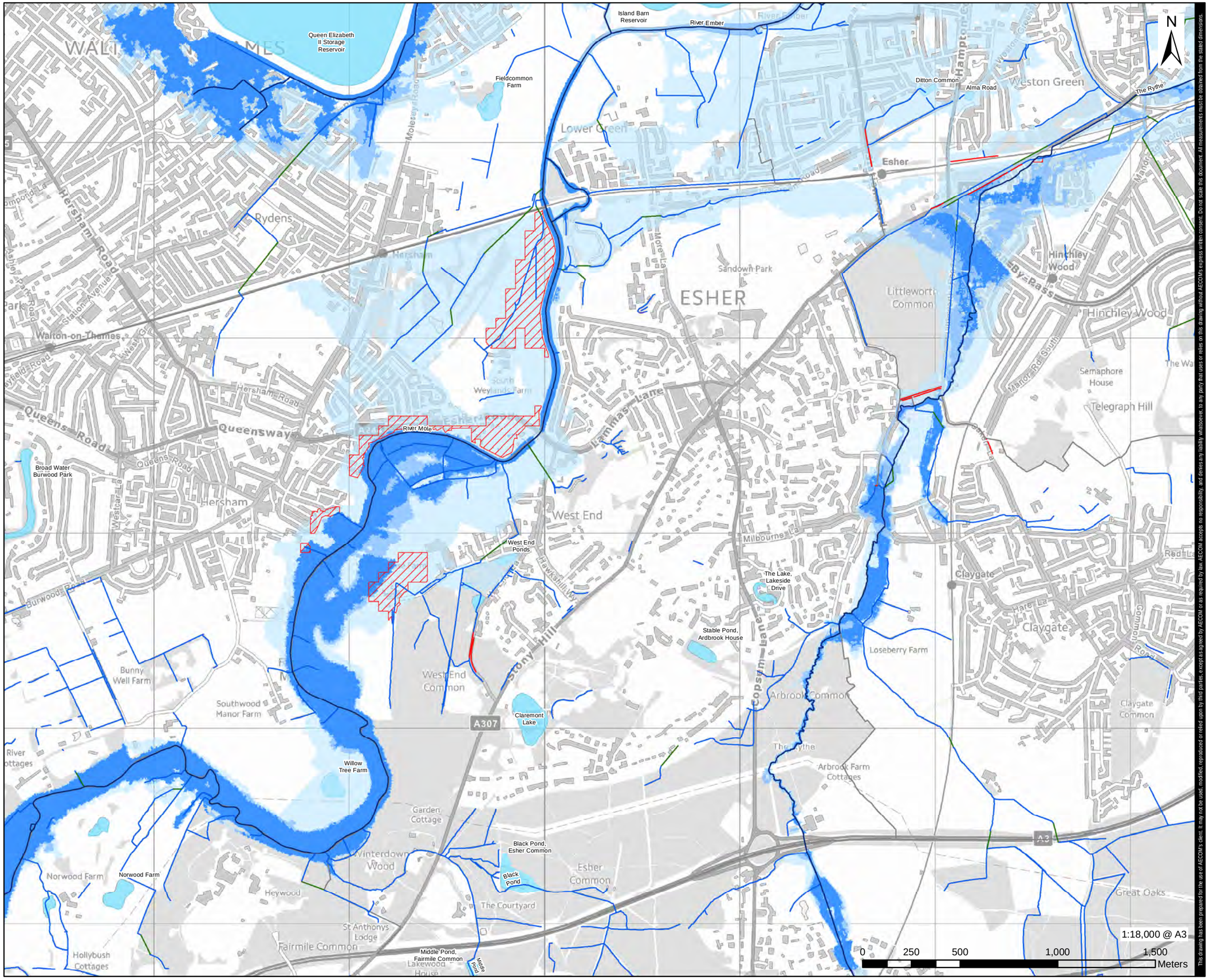

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Basingstoke, Hampshire
RG21 7PP
www.aecom.com

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
- Flood Storage Areas
- 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 (www.gov.uk/environment-agency).
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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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

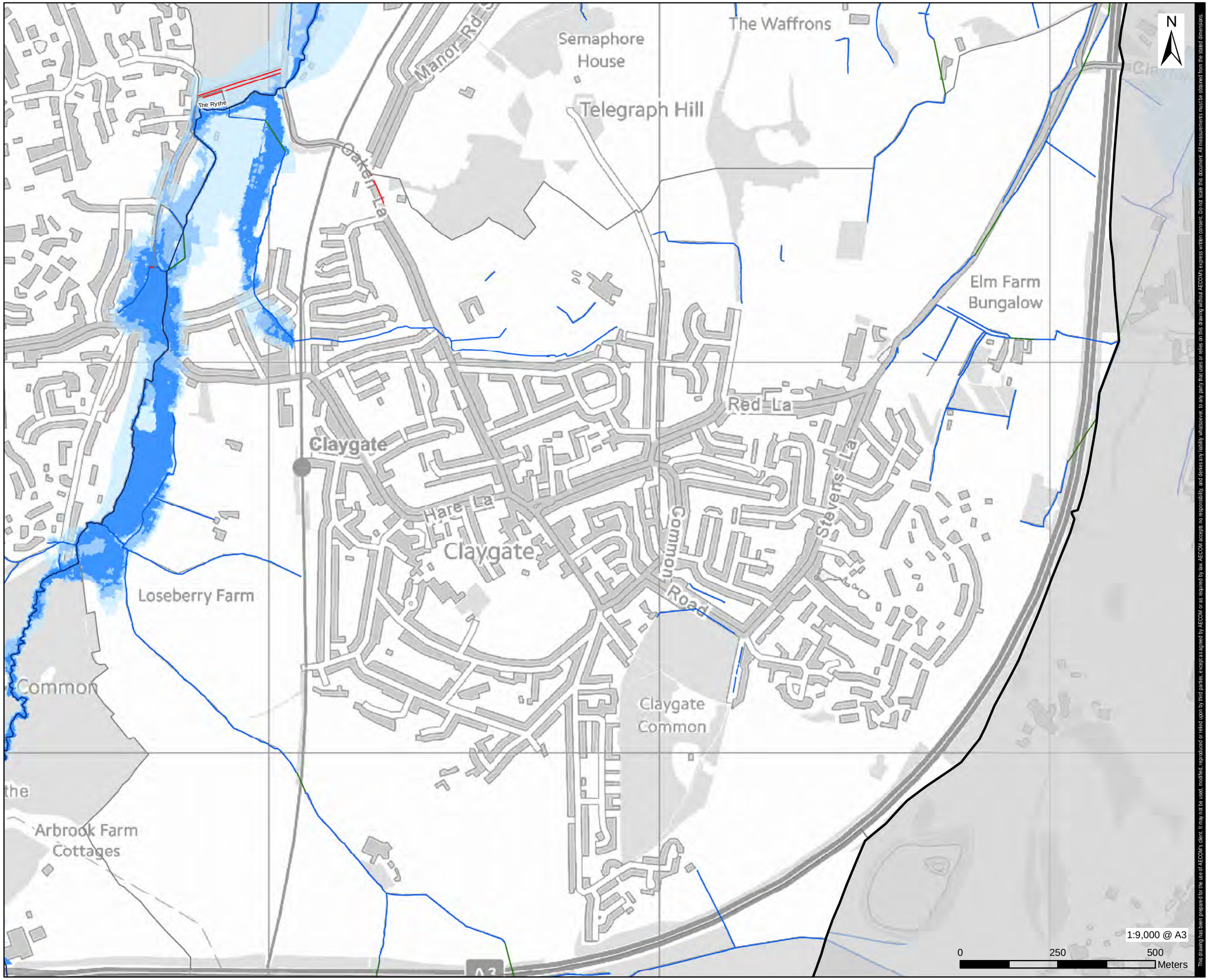
Flood Zones and Reduction in Risk of Flooding from Rivers and Sea due to Defences - Esher

FIGURE NUMBER

Figure 5-6

Filename: \\na.aecomnet.com\ts\EMEA\Basingstoke-UK\BAS1\Legacy\UKBAS1\FILW0014700 - Water\Water New\4 - PROJECTS\60565750 Elmbridge SFRA update & WCS\9000 GIS\Workspaces\SFRA L1 Update\Elmbridge\SFRA_L1_Figure5_FloodZones_DDP.mxd

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-20



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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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SETTLEMENT AREAS

LEGEND

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- Culverted Ordinary Watercourse
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- Surface Water Bodies
- Flood Storage Areas
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Flood Zones

- Flood Zone 3b
- Flood Zone 3a
- Flood Zone 2

NOTES

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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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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 5-7

Filename: \\na.aecomnet.com\ts\EMEA\Basingstoke-UK\BAS1\Legacy\UKBAS1\PRJLW\00314700 - Waterlooville New\4 - PROJECT S\60565750 Elmbridge SFRA update & WCS\900 GIS\Workspaces\SFRA L1 Update\ElmbridgeSFRA_L1_Figure5_FloodZones_DDP.mxd

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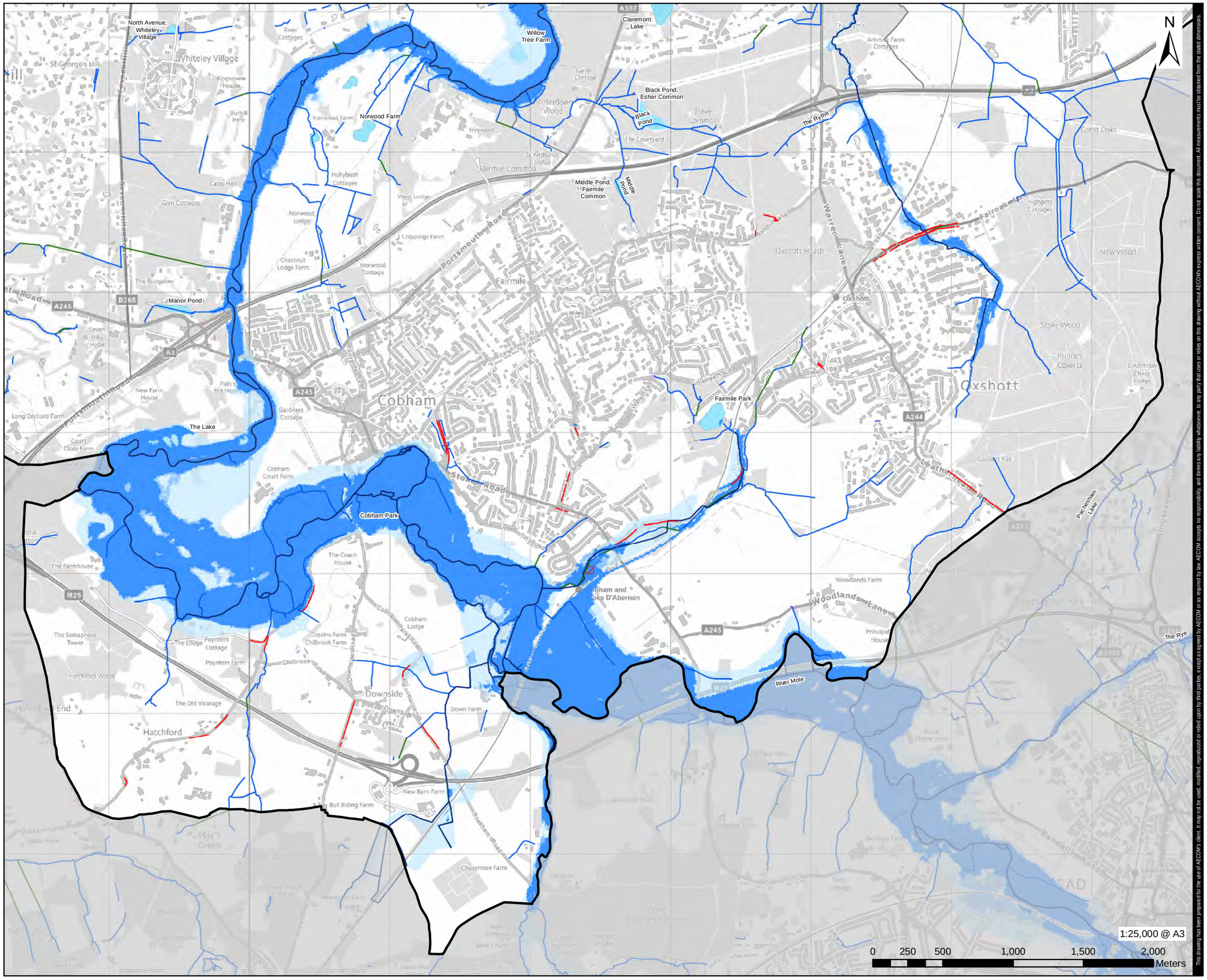

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies
- Flood Storage Areas
- 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 (www.gov.uk/environment-agency).
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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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Flood Zones and Reduction in Risk of Flooding from Rivers and Sea due to Defences - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 5-8

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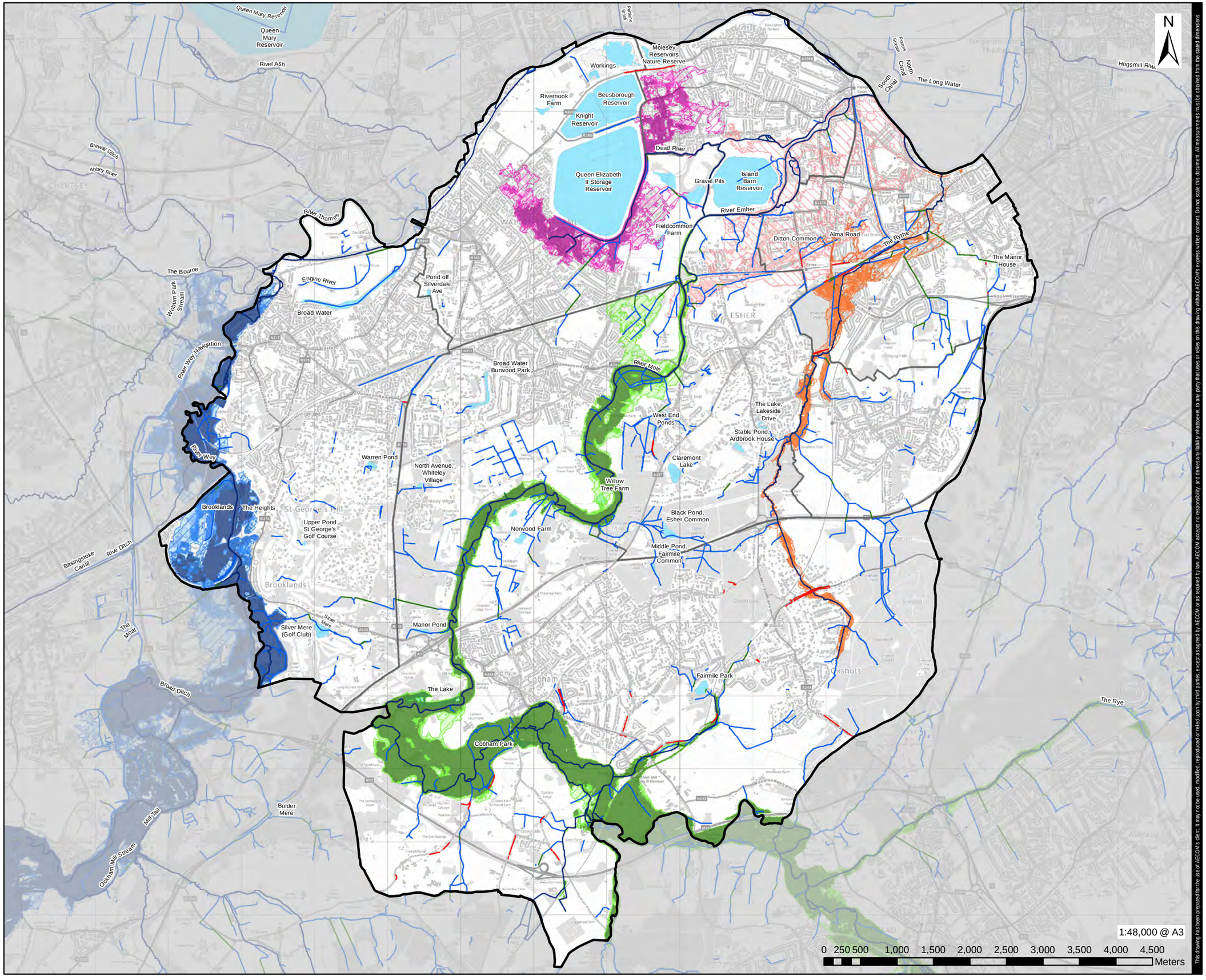

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LEGEND

- Elmbridge Borough Council Boundary
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- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Maximum Modelled Flood Extents

Lower Wey
- 1% AEP
- 1% AEP +10% CC
- 1% AEP +15% CC
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Middle Mole
- 1% AEP
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Lower Mole
- 1% AEP +20% CC
- 0.1% AEP

River Rythe
- 1% AEP
- 1% AEP +20% CC
- 0.1% AEP

Dead River
- 1% AEP
- 1% AEP +20% CC
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

NOTES

1: This map shows the predicted likelihood of fluvial flooding during a 1% annual exceedence probability (AEP) event including climate change allowances for the Lower Wey, River Rythe, Middle Mole, Lower Mole and Dead River. Refer to the SFRA Report for further detail of the modelling studies used to define the extents.
2: 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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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Maximum Flood Extents: Dead River, Mole, Rythe and Wey (1% AEP + Climate Change and 0.1% AEP)

FIGURE NUMBER

Figure 6

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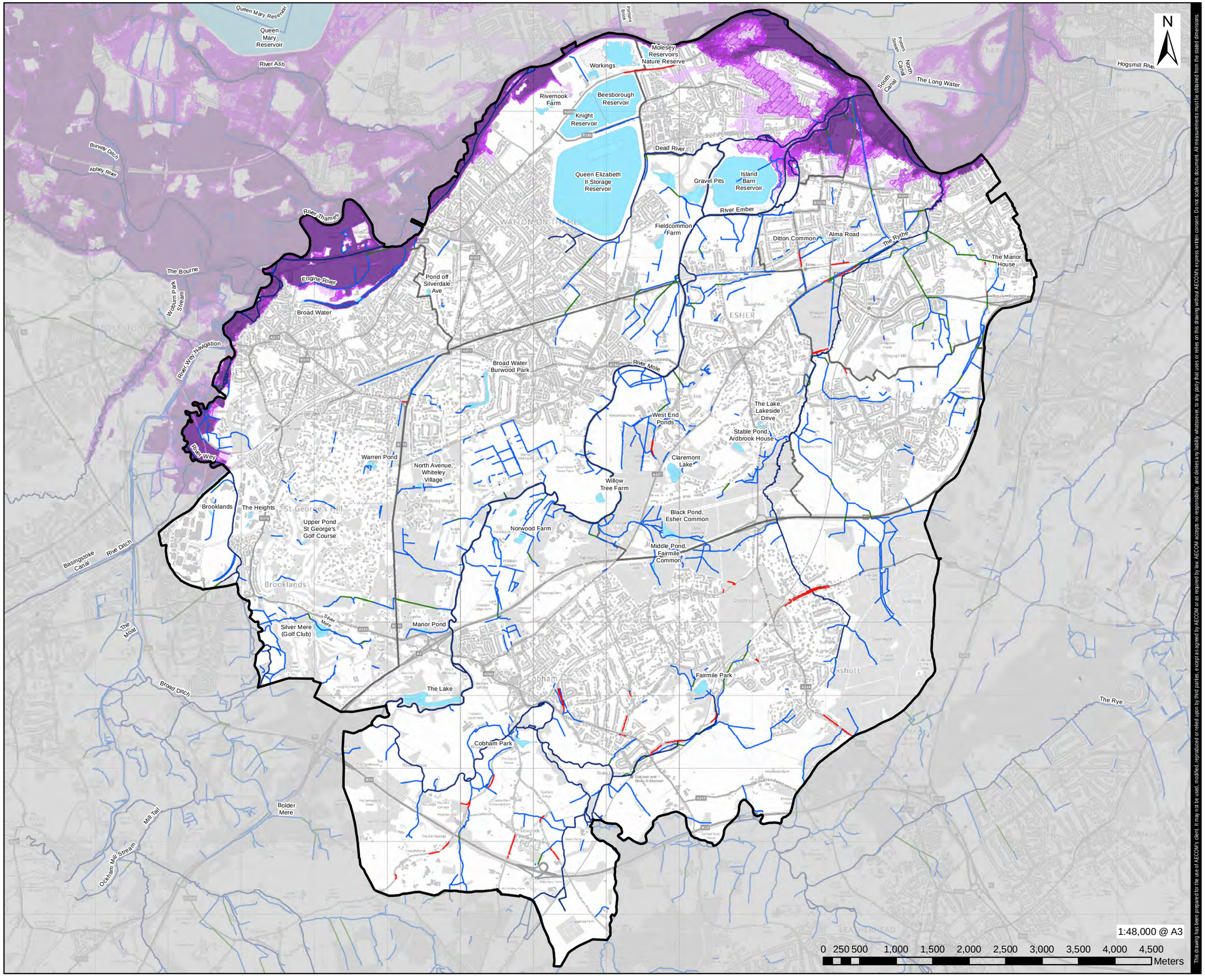
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-18



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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

Lower Thames - Thames Dominated

- 1% AEP
- 1% AEP +10% CC
- 1% AEP +20% CC
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +81% CC
- 0.1% AEP

NOTES

1: This map shows the predicted likelihood of fluvial flooding during a 1% annual exceedence probability (AEP) event including climate change allowances and 0.1% AEP for the Lower Thames - Thames Dominated Model. Refer to the SFRA Report for further detail of the modelling studies used to define the extents.
2: 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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Maximum Flood Extents - Lower Thames: Thames Dominated (1% AEP + Climate Change and 0.1% AEP)

FIGURE NUMBER

Figure 7

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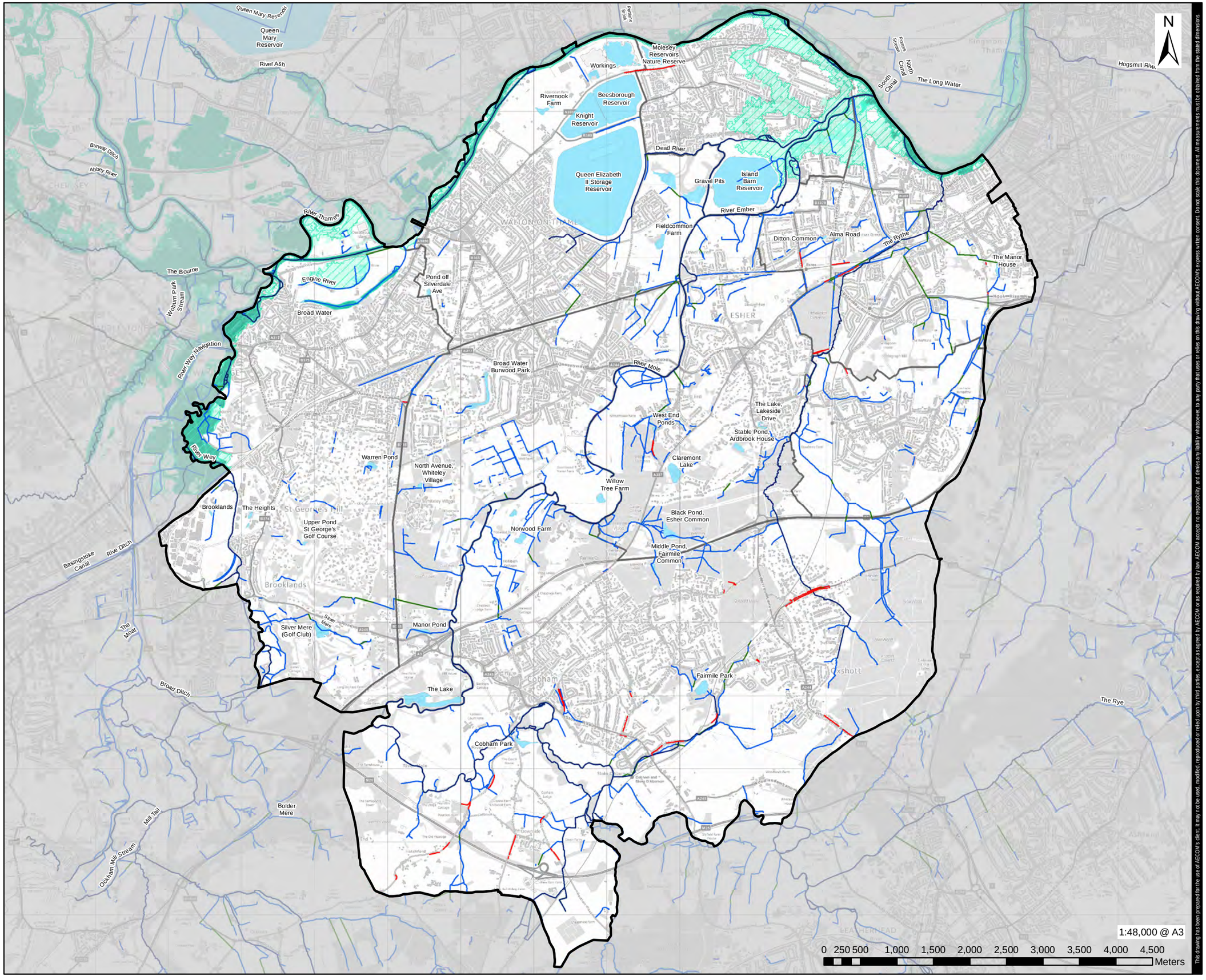
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-18



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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

Lower Thames - Thames Tributaries

- 1% AEP
- 1% AEP +10% CC
- 1% AEP +20% CC
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +81% CC
- 0.1% AEP

NOTES

1: This map shows the predicted likelihood of fluvial flooding during a 1% annual exceedence probability (AEP) event including climate change allowances and a 0.1% AEP for the Lower Thames - Tributary Dominated Model. Refer to the SFRA Report for further detail of the modelling studies used to define the extents.

2: 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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Maximum Flood Extents - Lower Thames: Tributary Dominated (1% AEP + Climate Change and 0.1% AEP)

FIGURE NUMBER

Figure 8

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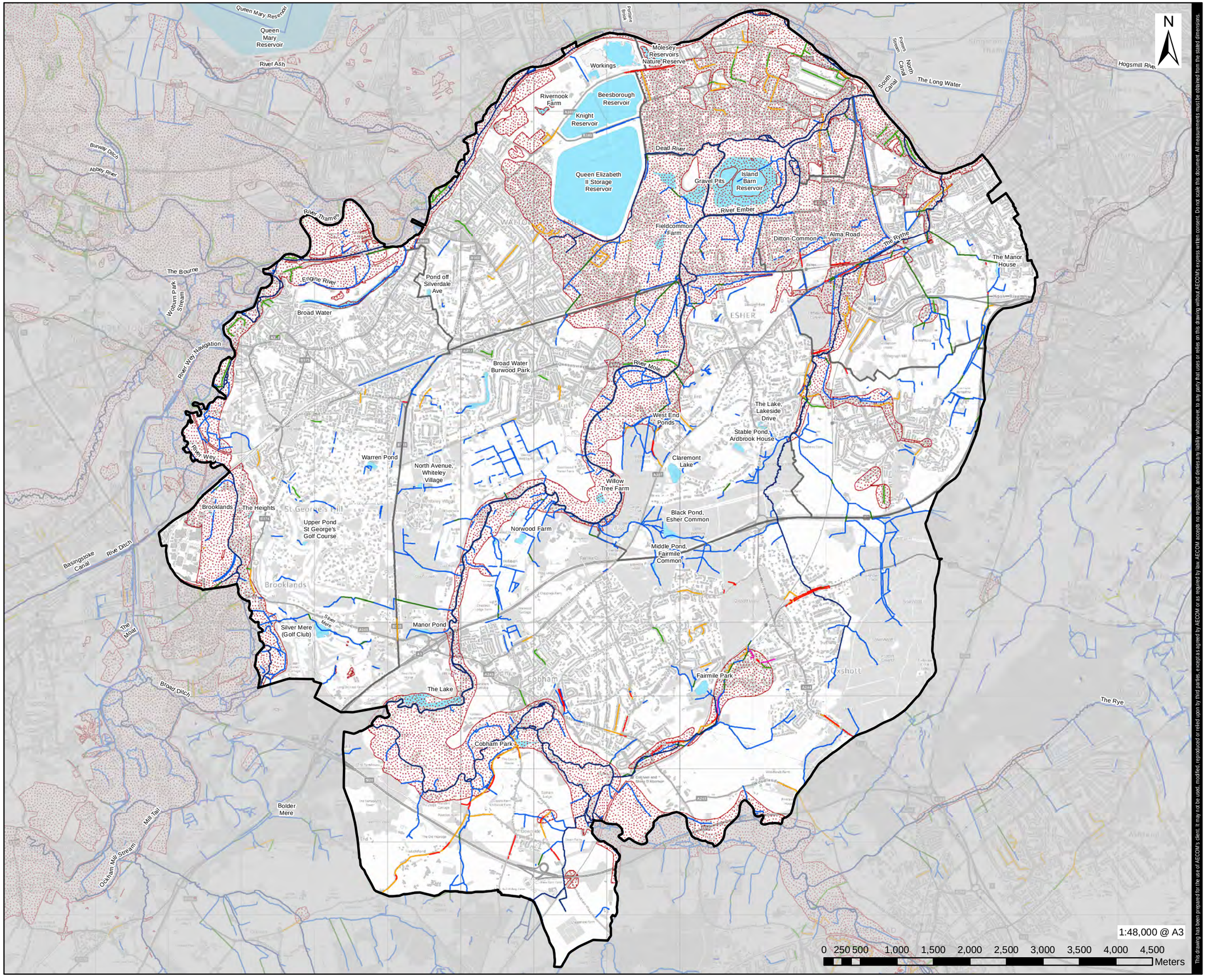
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-18



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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
- Historic Flood Extents

Property Flood Roads

- Internal
- External
- Unknown

NOTES

1: This map shows the historic records of flooding that have been provided by the Environment Agency and Surrey County Council. Refer to the SFRA Report for further detail of the records used.
2: This map is intended to provide a strategic overview of historic flooding and should not be used to assess the flood risk for individual properties.

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Historic Records of Flooding

FIGURE NUMBER

Figure 9

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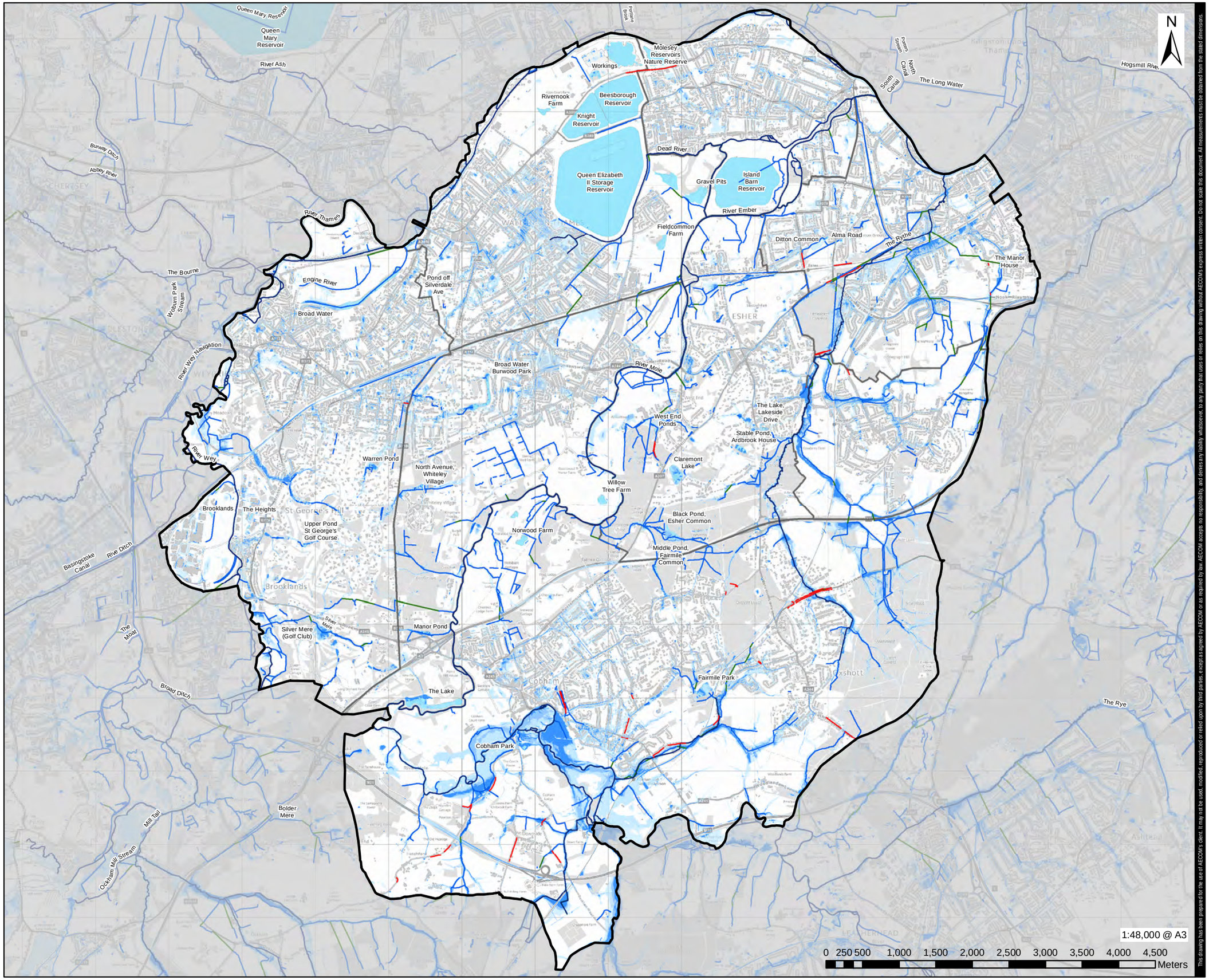
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-18



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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

Risk of Flooding from Surface Water

- High
- Medium
- Low

NOTES

1: Surface water flooding occurs when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall.
2: This map shows the predicted likelihood of surface water flooding based on the Environment Agency's Risk of Flooding from Surface Water (ROFSW) data, which may be subject to further analysis in the future. Further information is provided on the Environment Agency website (www.gov.uk/environment-agency).
3: Surface water risk is divided into four categories: High - Flooding greater than 3.33% Annual Exceedence Probability (AEP), Medium - Flooding between 3.33% and 1% AEP, Low - Flooding between 1% and 0.1% AEP and Very Low - Less than 0.1% AEP. Land outside the mapped extents are at very low risk.
4: The potential impact of surface water flooding can vary according to the depth of the water and its velocity (speed and direction its flowing in).
5: 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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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Risk of Flooding from Surface Water

FIGURE NUMBER

Figure 10

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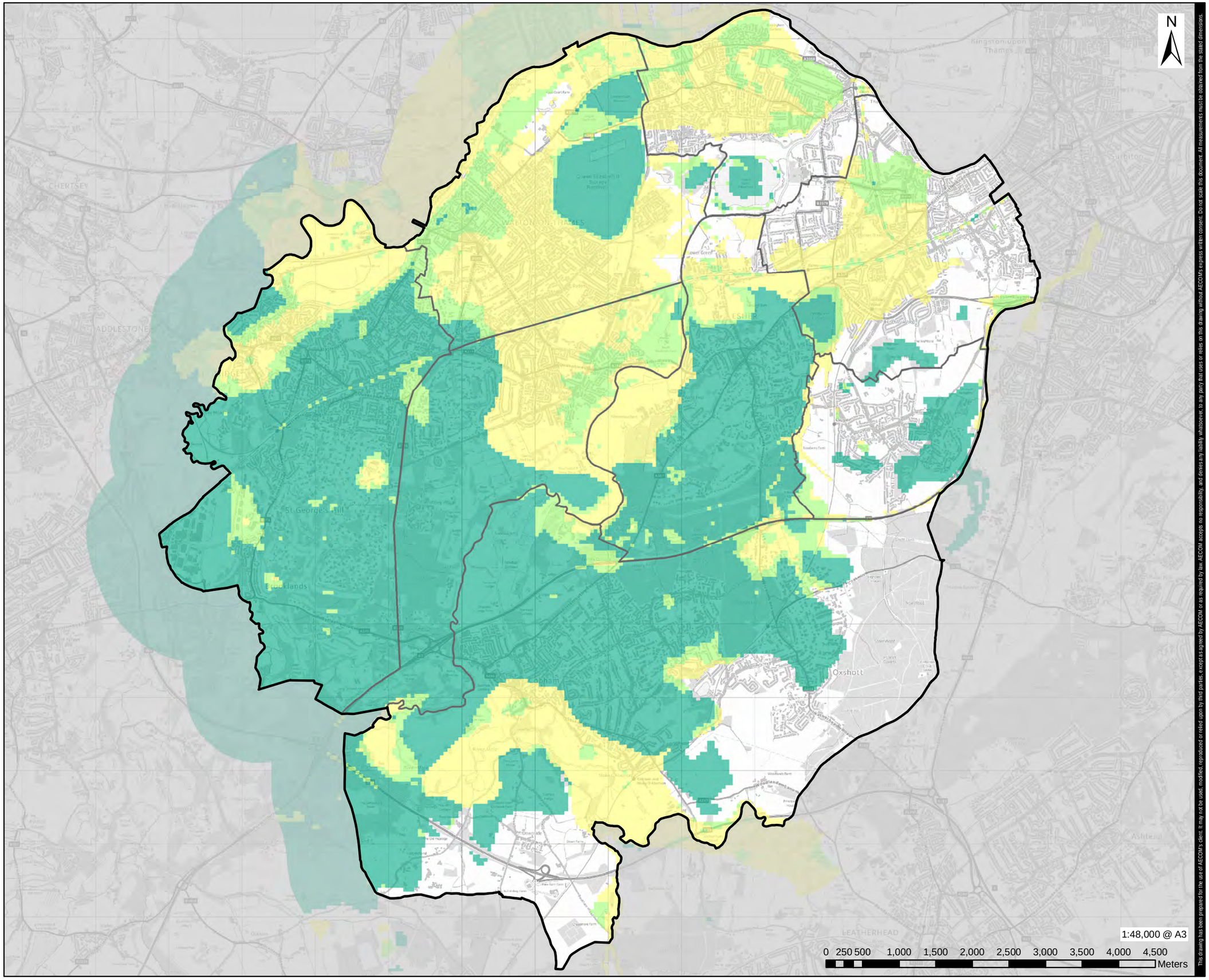
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-03-18



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AECOM

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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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FIGURE TITLE

Susceptibility to Groundwater Flooding

FIGURE NUMBER

Figure 11

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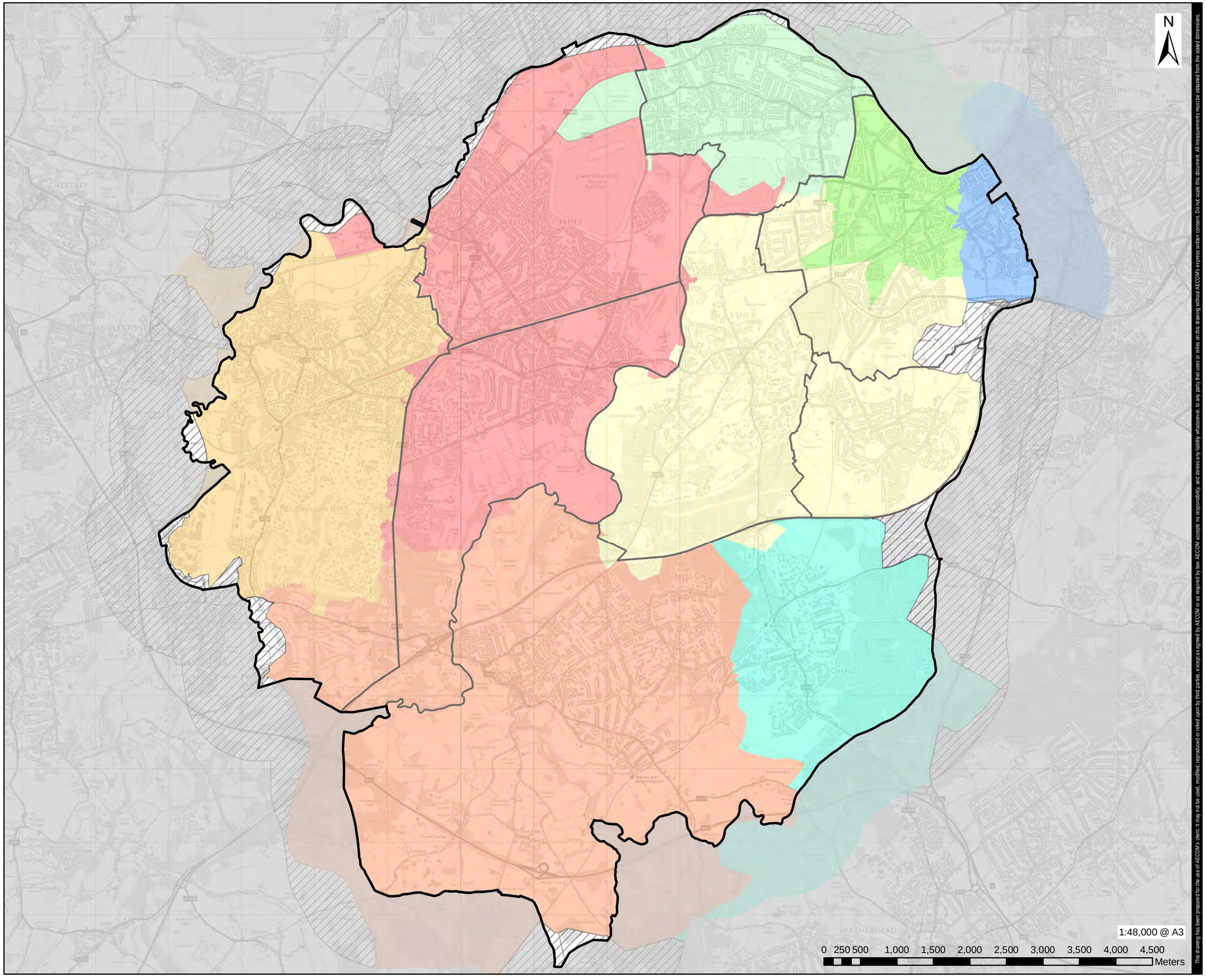

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LEGEND

- 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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ISSUE PURPOSE

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FIGURE TITLE

Sewer Flood Records by Postcode

FIGURE NUMBER

Figure 12

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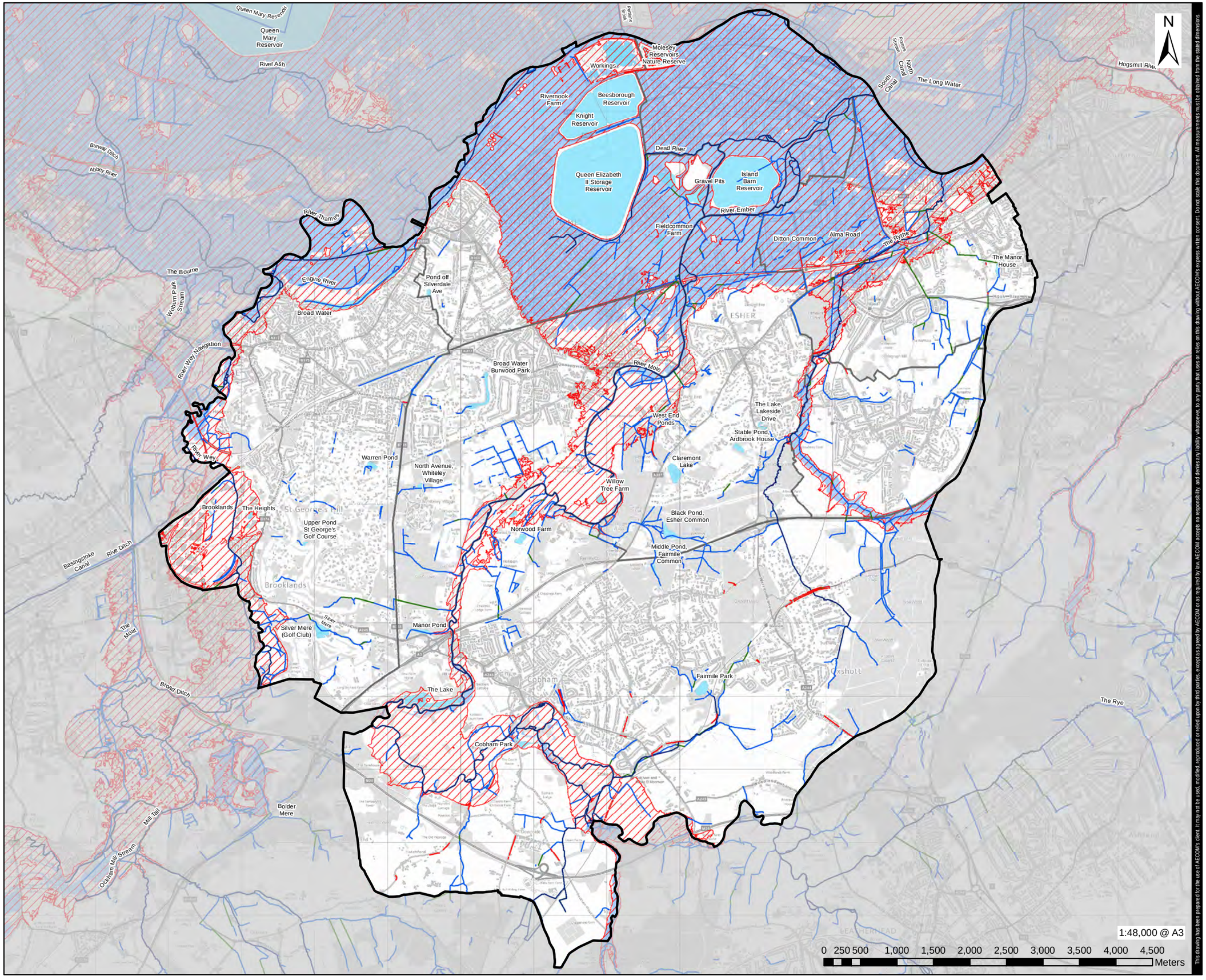

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LEGEND

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- Open Ordinary Watercourses
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- Surrey County Council Highways Ditch
- Surface Water Bodies

Risk of Reservoir Flooding

- When river levels are normal
- When there is also flooding from rivers

NOTES

1: This map shows the predicted maximum flood extents in the event that a reservoir was o fail and release the water held on both a "dry day" when local rivers are at normal levels and a "wet day" when local rivers have already overflowed their banks.
2: Each scenario presents a worst case scenario, however it is unlikely that any actual flood would be this large. This data gives no indication of the probability of reservoir flooding.
3: Flood extents for smaller reservoirs or reservoirs commissioned after October 2016 are not included.
4: This map is intended to provide a strategic overview of reservoir flood risk and should not be used to assess the flood risk for individual properties.

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Maximum Extent of Flooding from Reservoirs

FIGURE NUMBER

Figure 13

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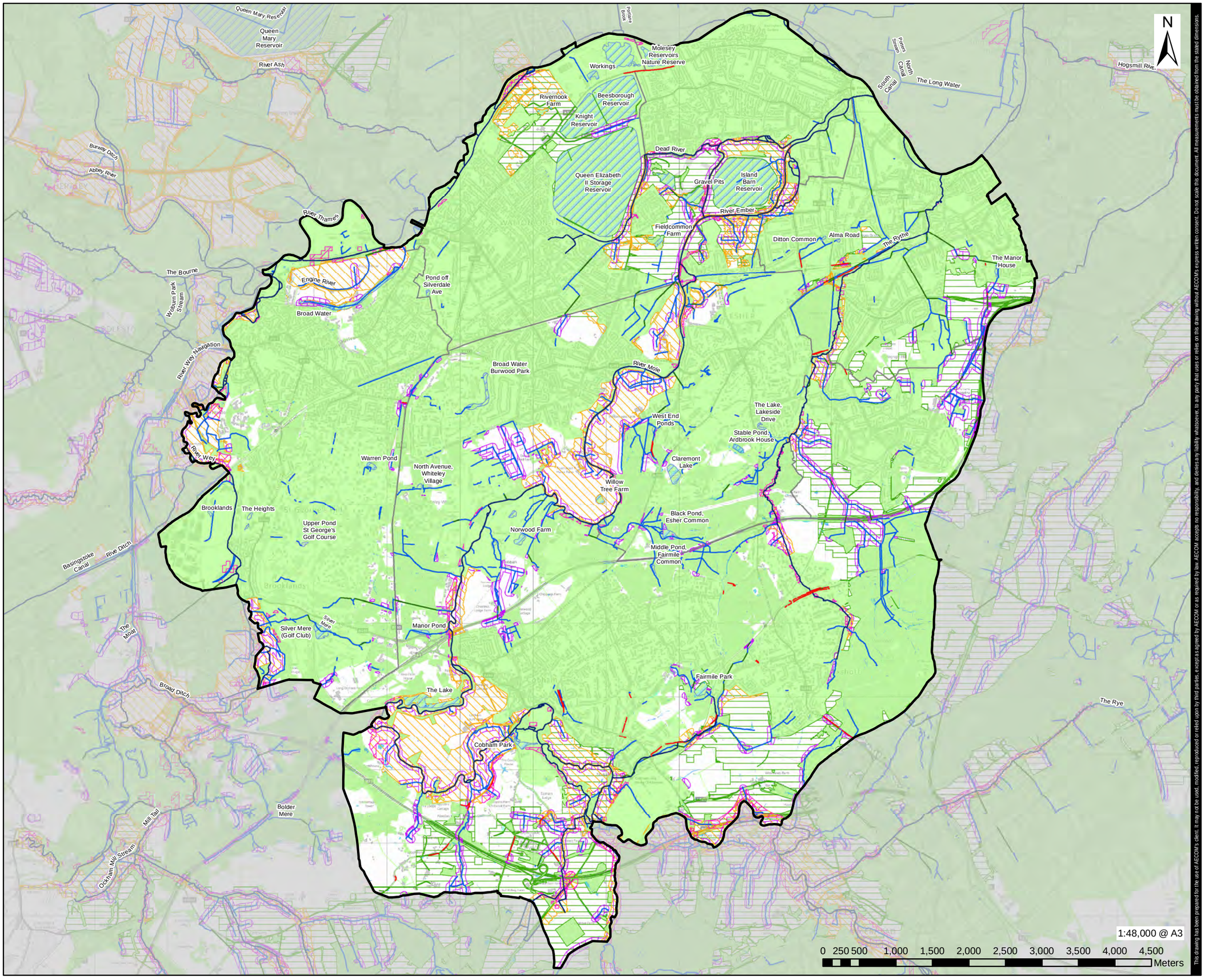

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PROJECT

Elmbridge Borough Council Level 1 Strategic Flood Risk Assessment

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CONSULTANT

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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

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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

FIGURE NUMBER

Figure 14

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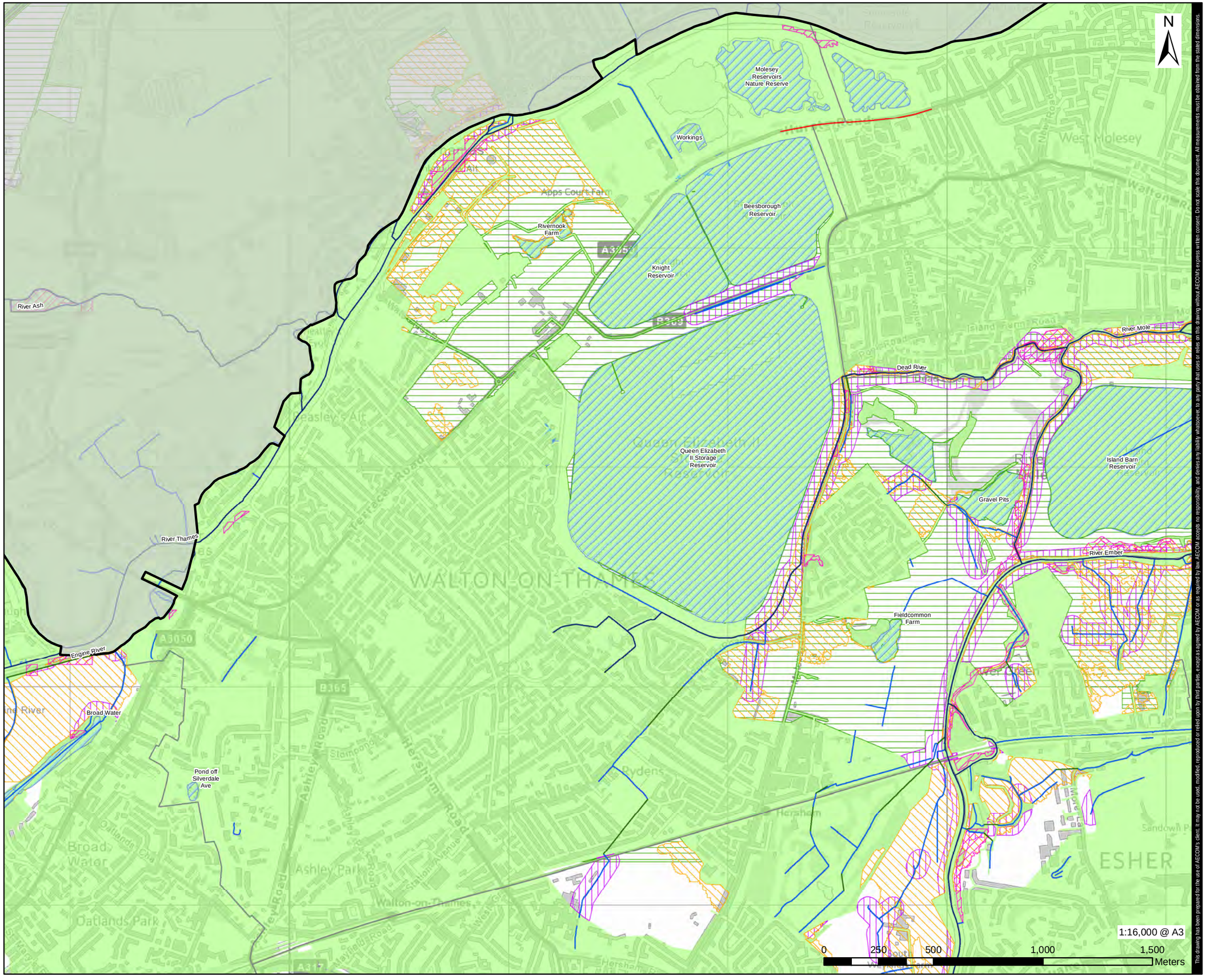

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SETTLEMENT AREAS

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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PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Walton On Thames

FIGURE NUMBER

Figure 14-1

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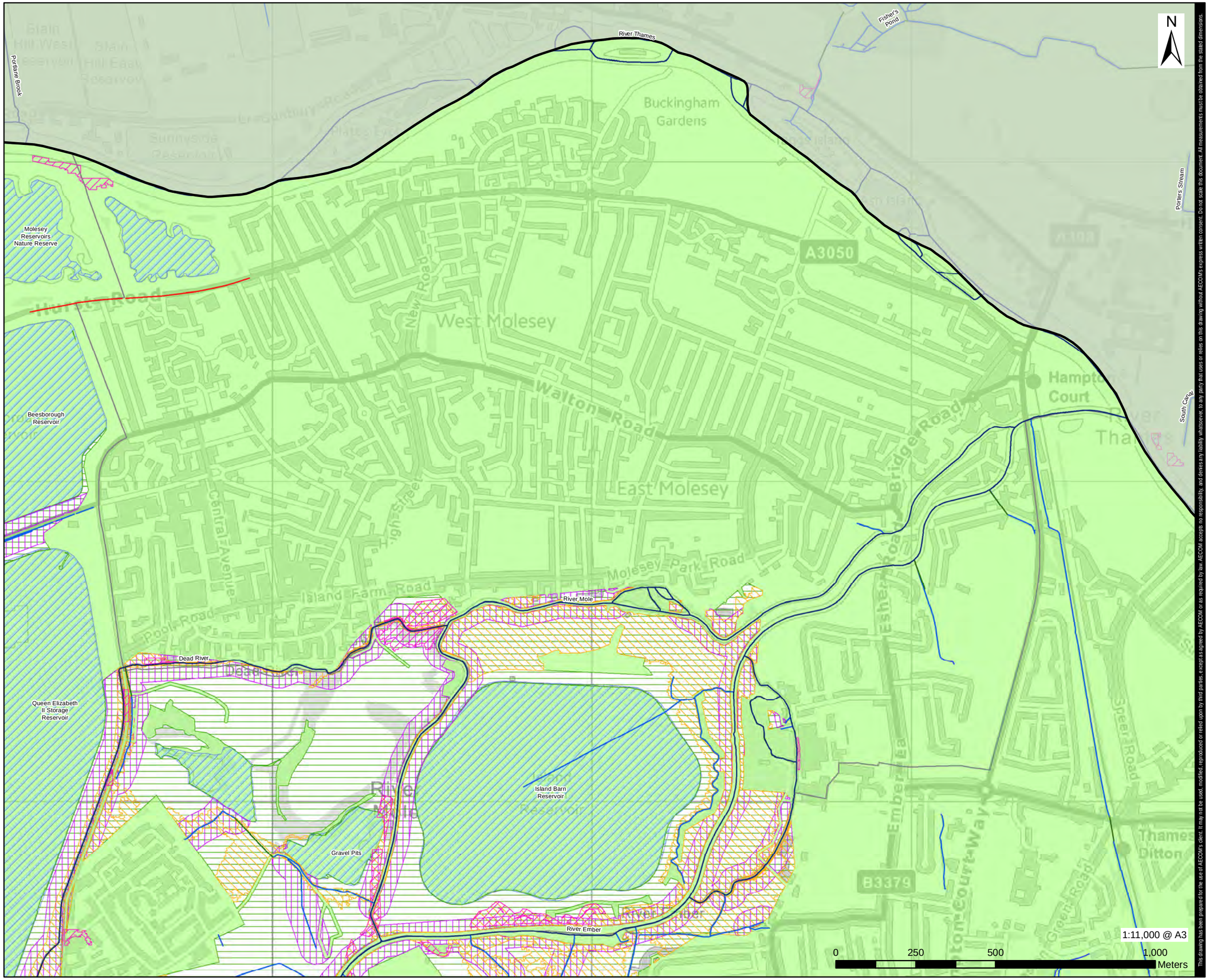

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LEGEND

- 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

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PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - East and West Molesey

FIGURE NUMBER

Figure 14-2

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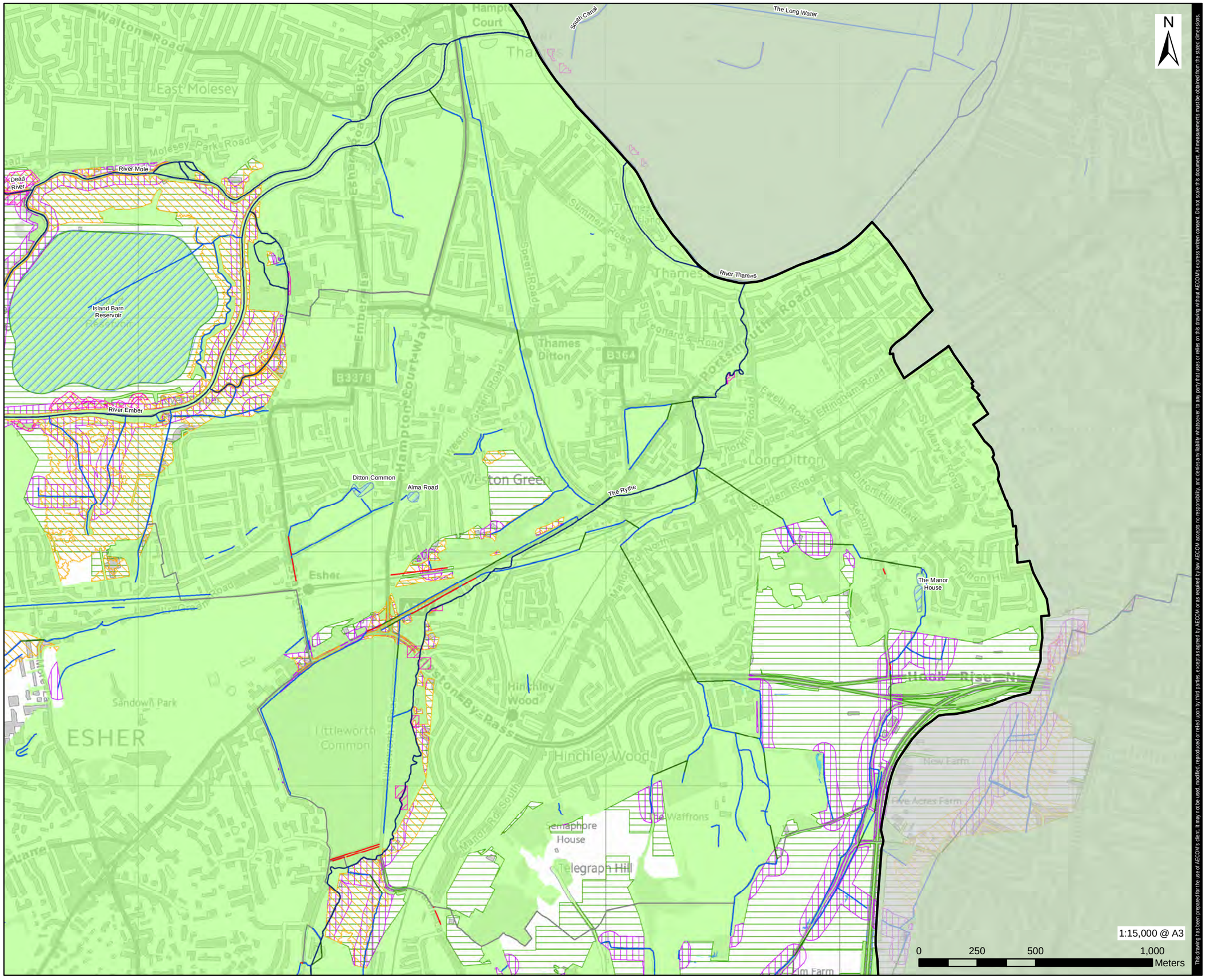

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- Settlement Areas
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 14-3

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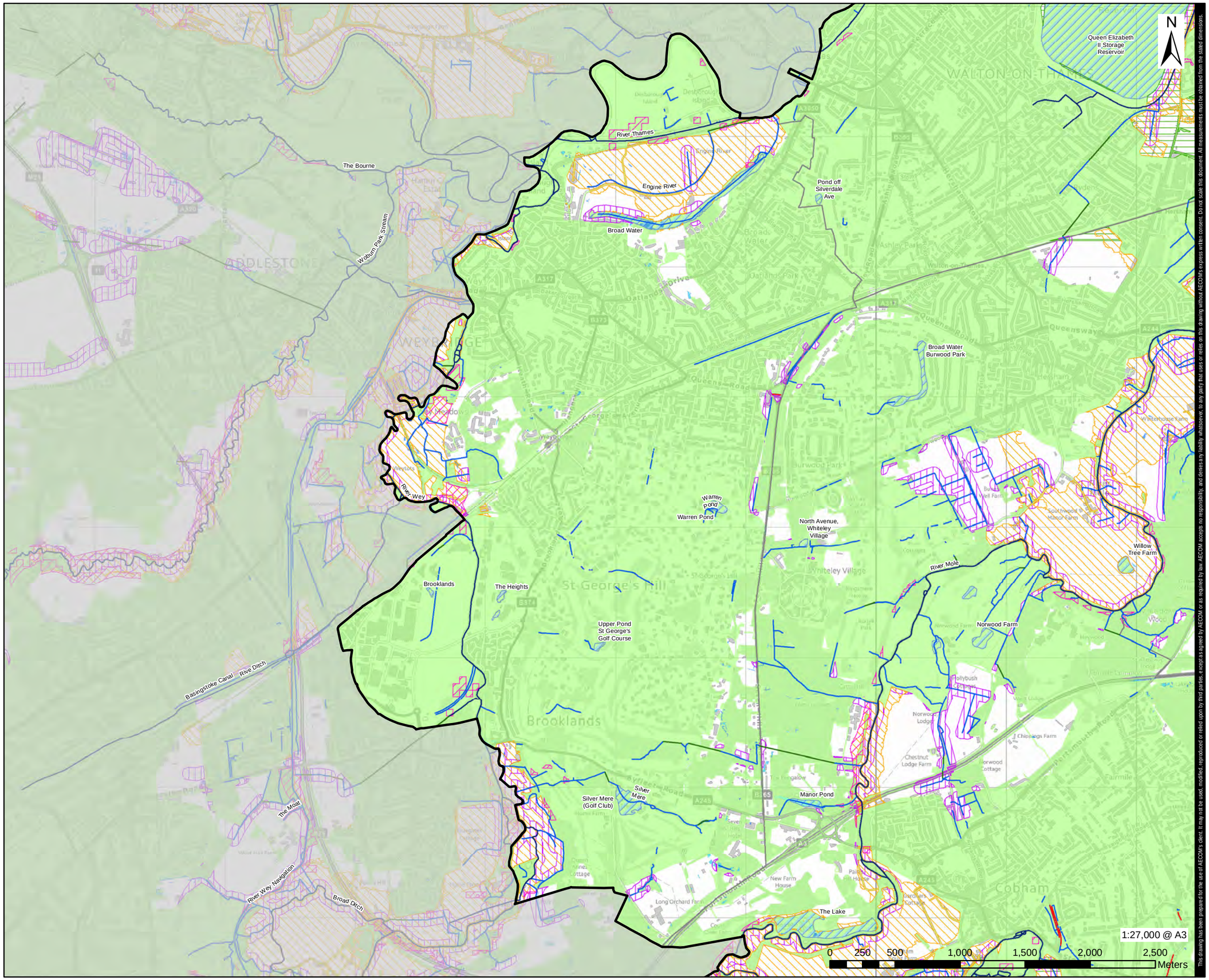

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SETTLEMENT AREAS

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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SFRA

PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Weybridge

FIGURE NUMBER

Figure 14-4

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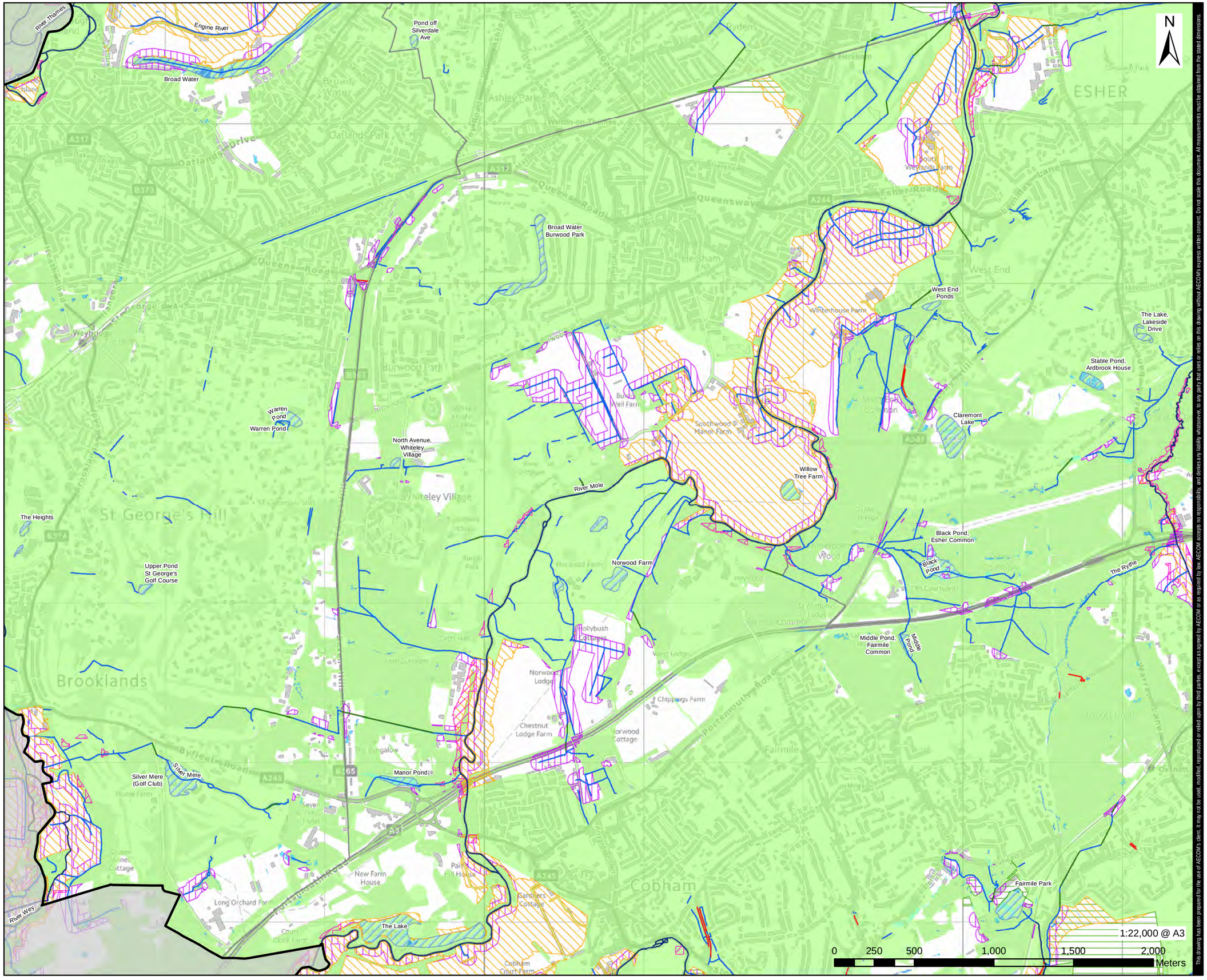

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SETTLEMENT AREAS

LEGEND

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- 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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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Hersham

FIGURE NUMBER

Figure 14-5

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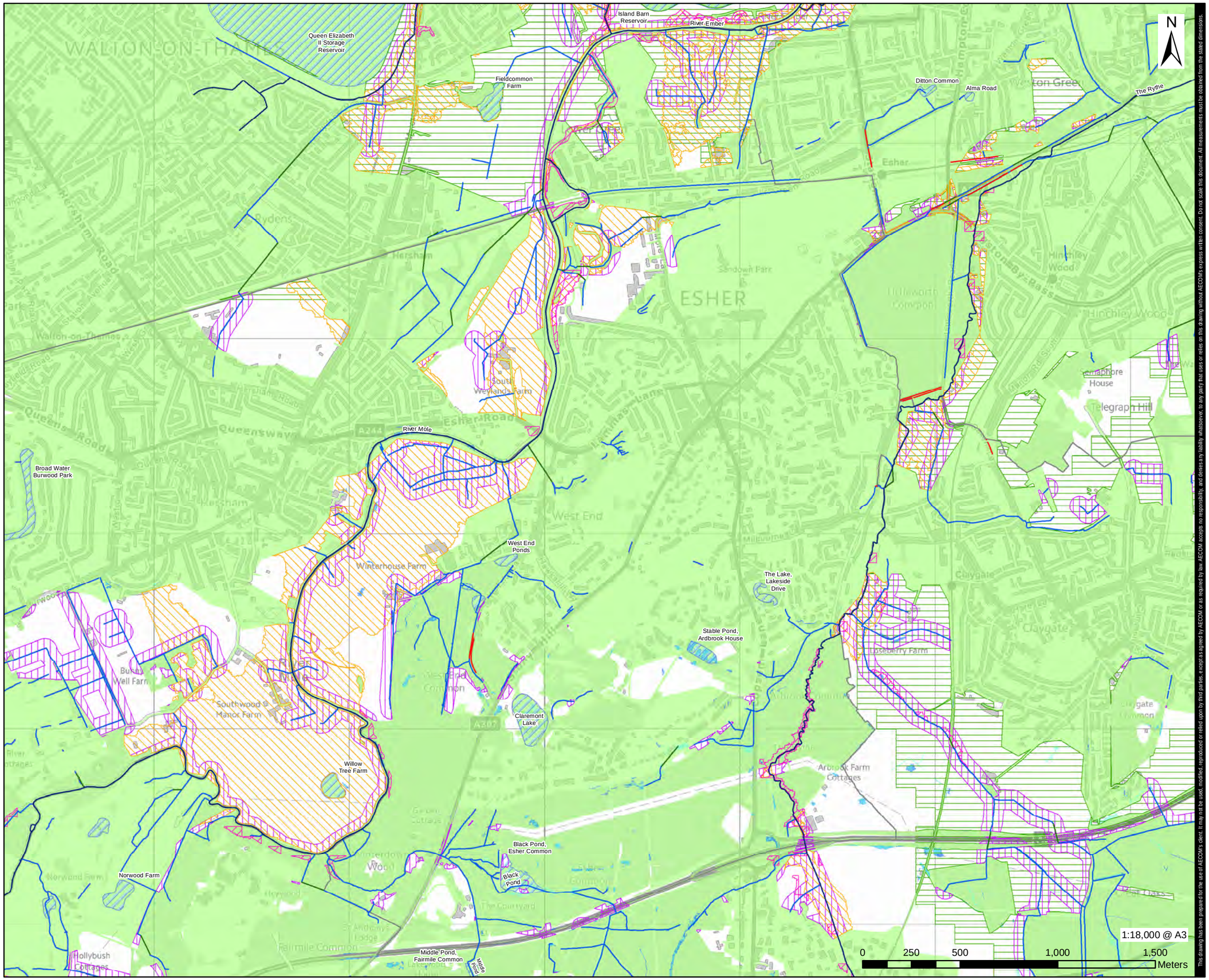

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SETTLEMENT AREAS

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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Esher

FIGURE NUMBER

Figure 14-6

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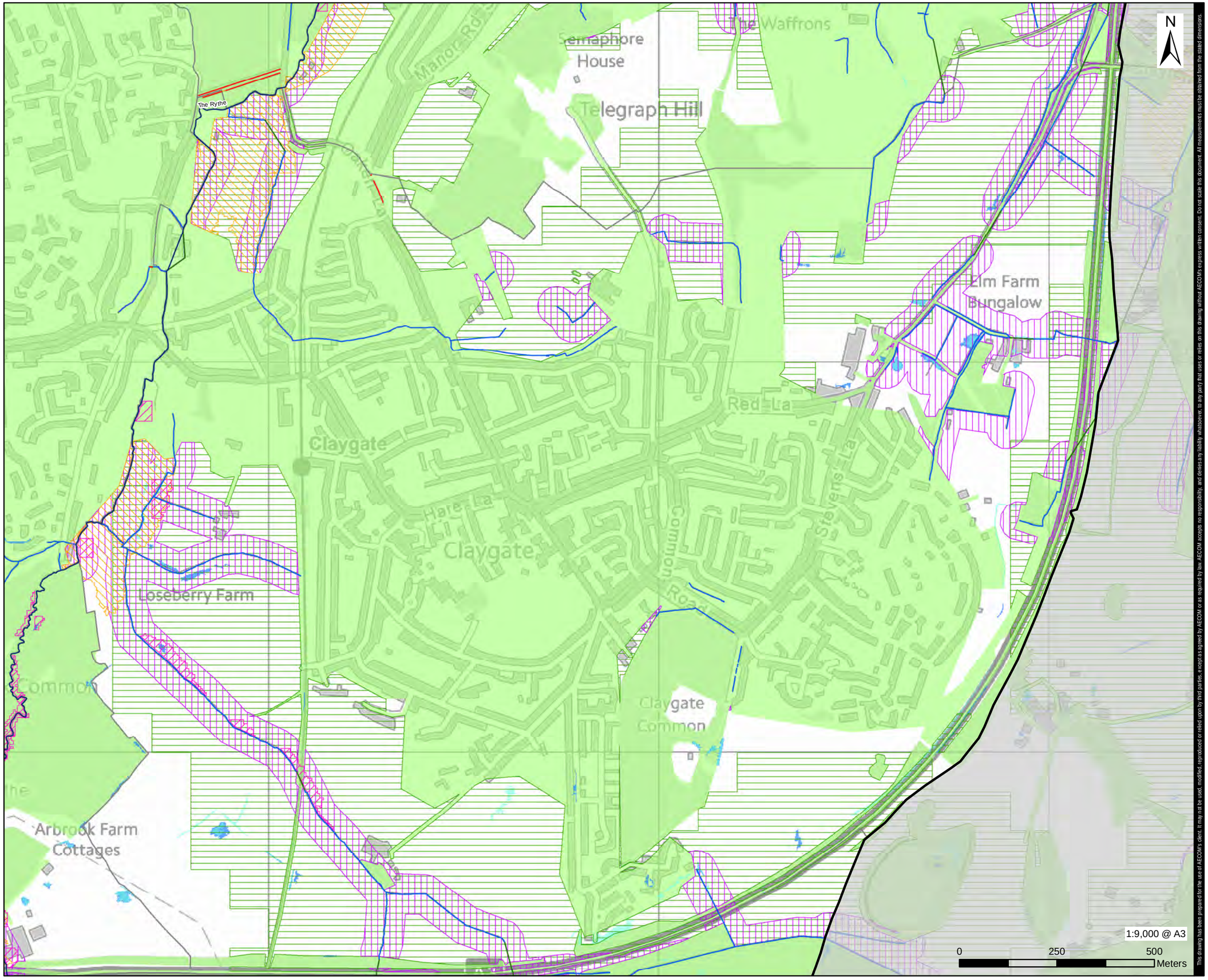

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SETTLEMENT AREAS

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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Claygate

FIGURE NUMBER

Figure 14-7

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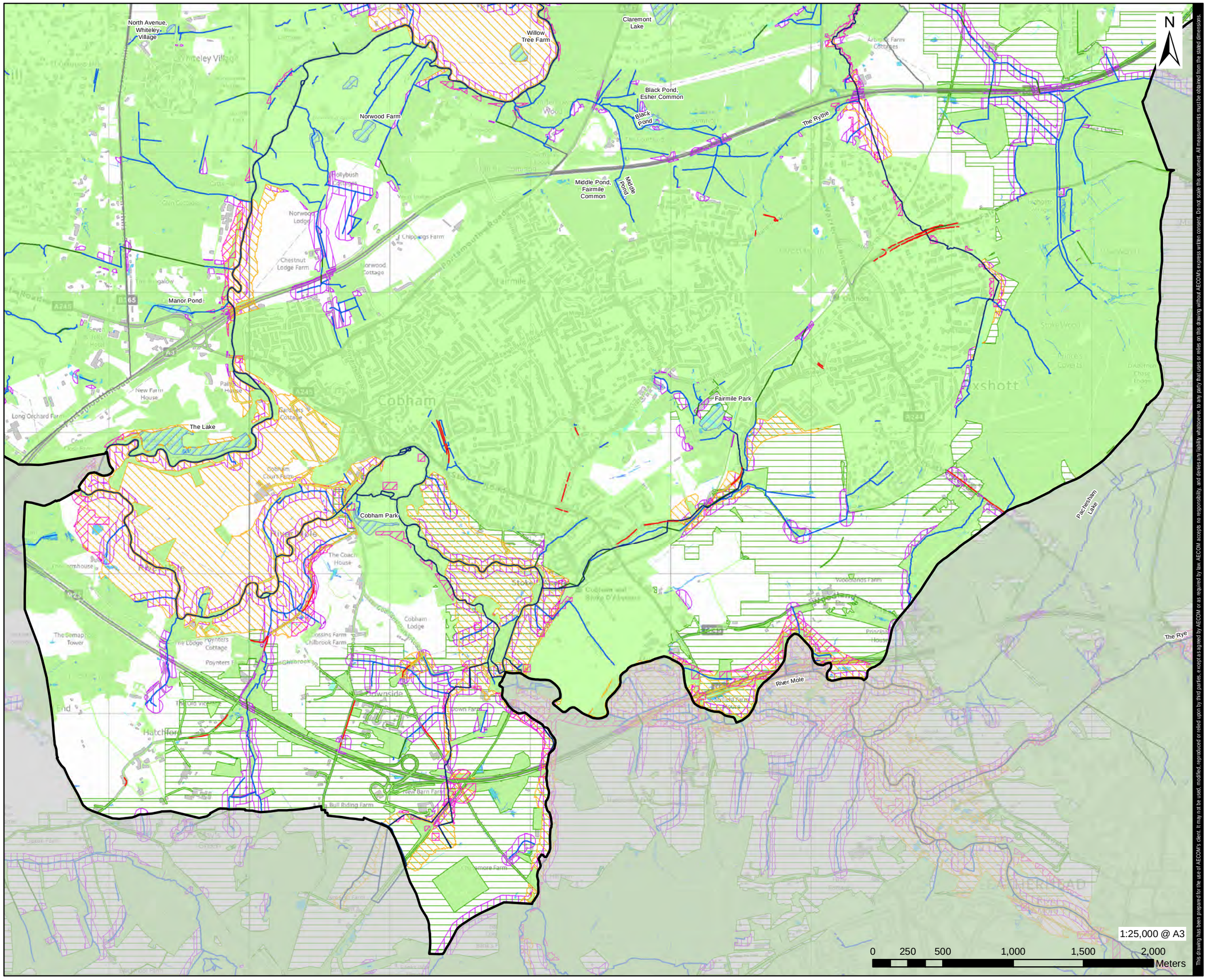

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SETTLEMENT AREAS

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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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Working With Natural Processes - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 14-8

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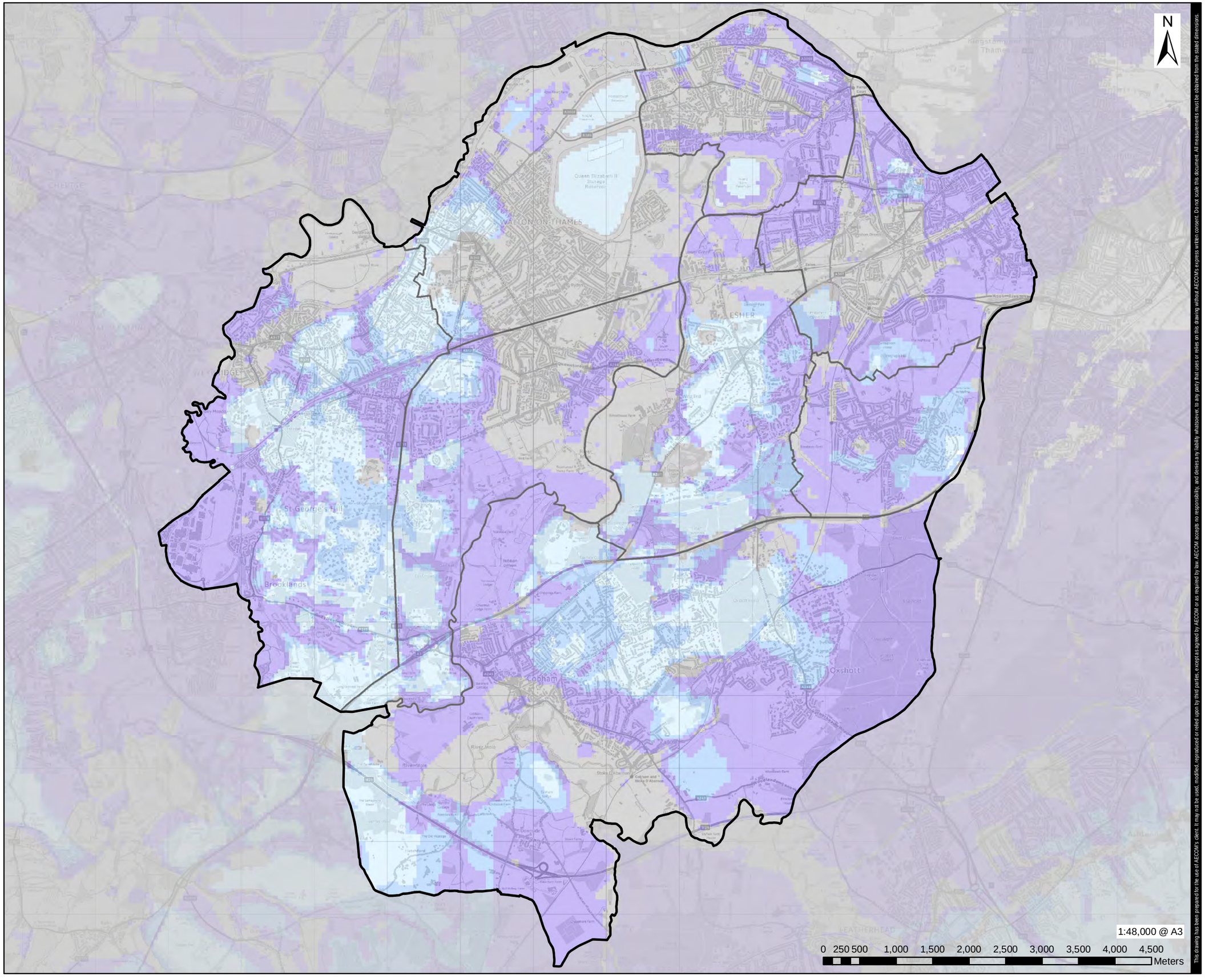

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LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas

BGS Infiltration SuDS

- Highly compatible for infiltration SuDS
- Probably compatible for infiltration SuDS
- Opportunities for bespoke infiltration SuDS
- Very significant constraints are indicated

NOTES

1: The BGS Infiltration SuDS Detailed dataset identifies the compatability potential for SuDS based on geology across the borough.
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: Descriptions of each of the categories are as follows:
- Highly compatible for infiltration SuDS: The subsurface is likely to be suitable for free-draining infiltration SuDS.
- Probably compatible for infiltration SuDS: The subsurface is probably suitable for infiltration although the design may be influenced by the ground conditions.
- Opportunities for bespoke infiltration SuDS: The subsurface is potentially suitable for infiltration SuDS although the design will be influenced by the ground conditions.
- Very significant constraints are indicated: There is a very significant potential for one or more geohazards associated with infiltration.
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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FIGURE TITLE

BGS Infiltration SuDS

FIGURE NUMBER

Figure 15

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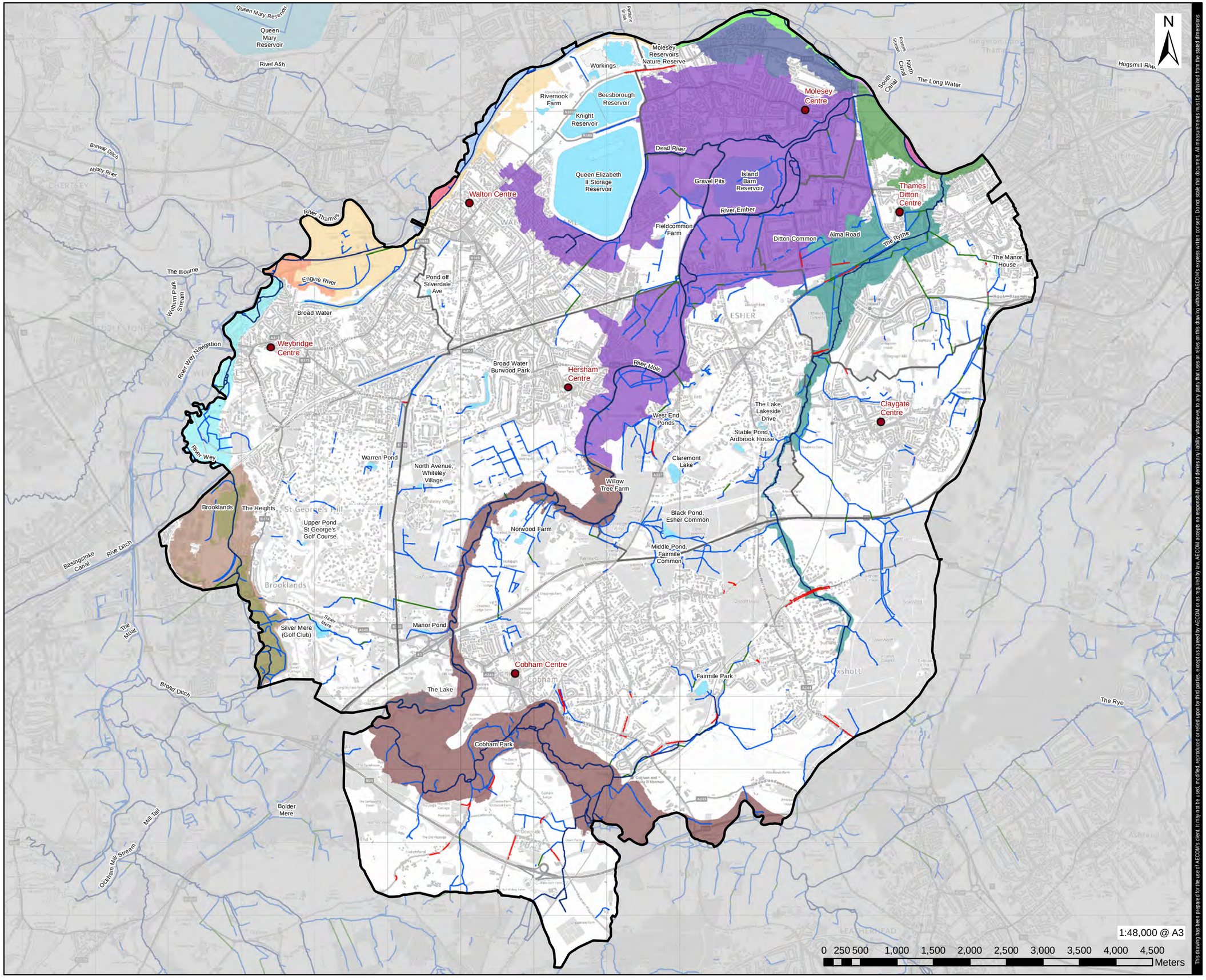

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Elmbridge Borough Council Level 1 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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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
- Primary Rest Centres

Environment Agency Flood Warning

- Properties closest to the River Thames at Sunbury
- Properties closest to the River Thames from Platts Eyot to Hampton Court Bridge
- Properties closest to the River Thames from Shepperton Lock to Beasley's Ait
- Properties closest to the River Wey between Walsham Meadow and Byfleet town
- River Mole at Esher and East Molesey
- River Mole at Leatherhead and Fetcham
- River Mole at Stoke D'Abernon, Cobham and South Hersham
- River Rythe between Oxshott and Thames Ditton
- River Thames at East and West Molesey
- River Thames at Hamm Court
- River Thames at Hampton and Hampton Wick
- River Thames at Sunbury
- River Thames at Thames Ditton
- River Thames at Thames Ditton Island
- River Thames at Walton
- River Wey at Weybridge
- River Wey at Wisley and Byfleet

NOTES

1: This map shows the Flood Warning Areas that have been downloaded from the Defra Data Services website (https://environment.data.gov.uk) and Rest Centres provided by SCC.

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Flood Warning Areas and Rest Centres

FIGURE NUMBER

Figure 16

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