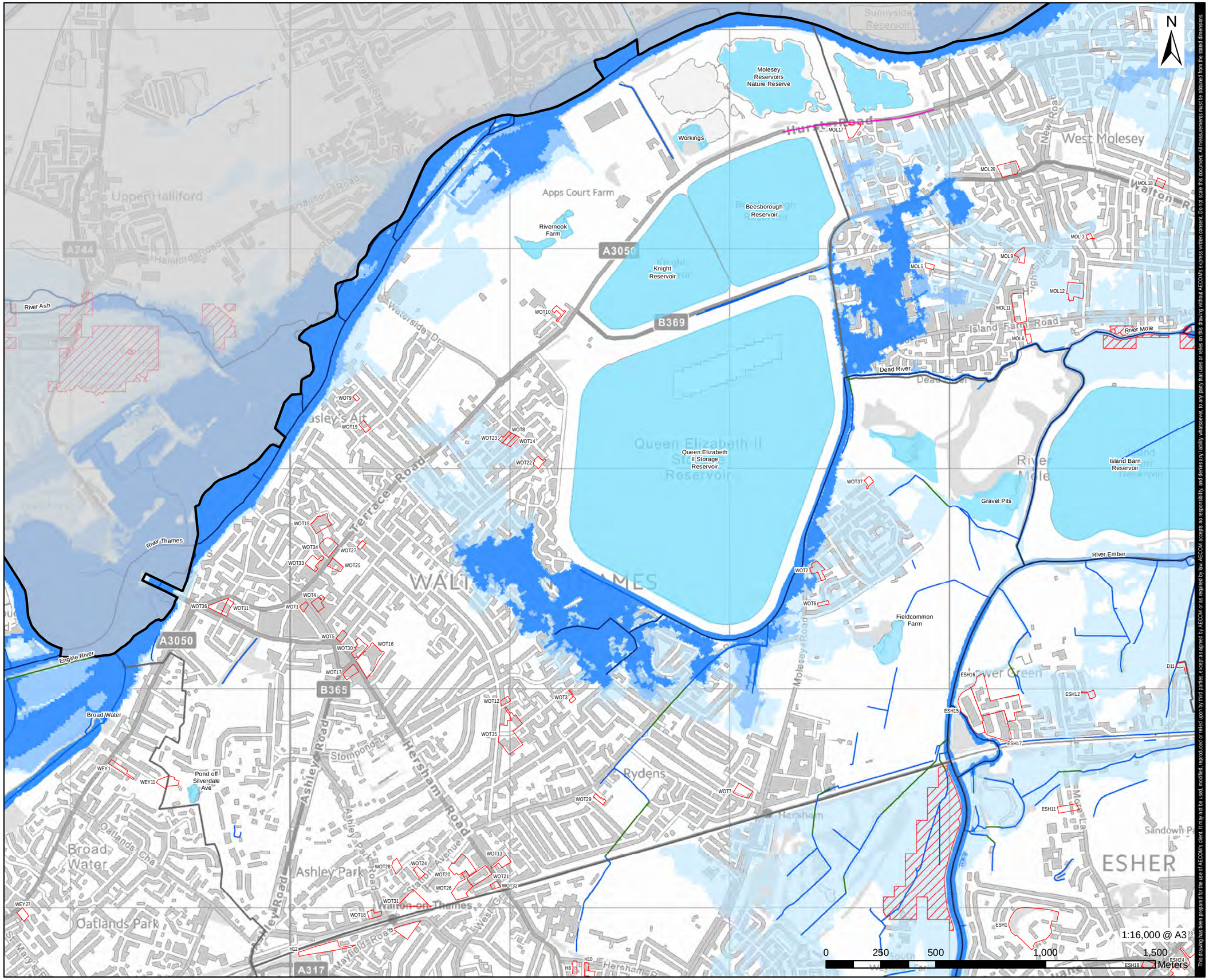
Level 2 SFRA Appendix A

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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

SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
- Settlement
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies
- Reduction In Risk of Flooding from Rivers and Sea due to Defences

Flood Zones

- Flood Zone 3b
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Flood Zones - Walton On Thames

FIGURE NUMBER

Figure 1-1

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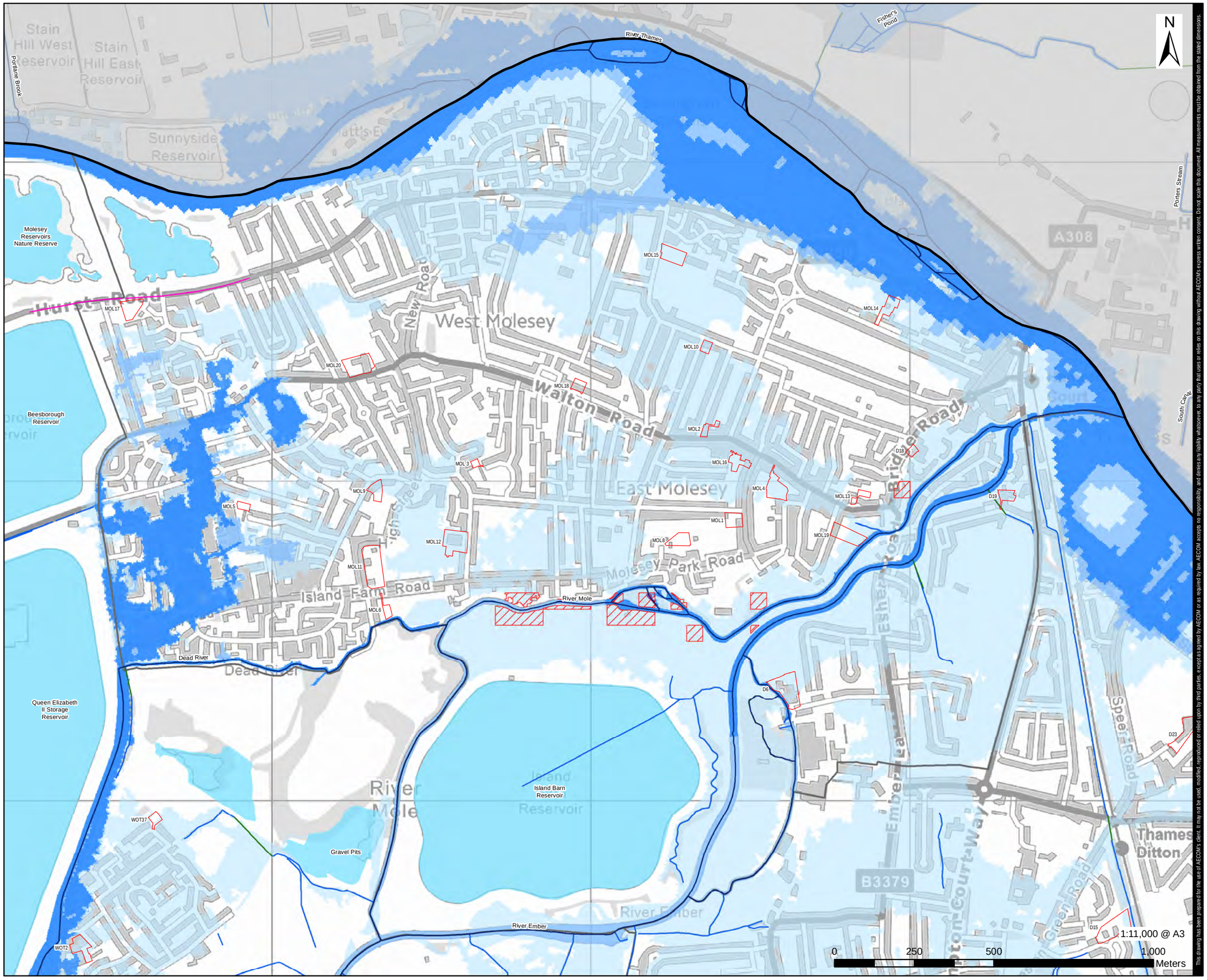

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones - East and West Molesey

FIGURE NUMBER

Figure 1-2

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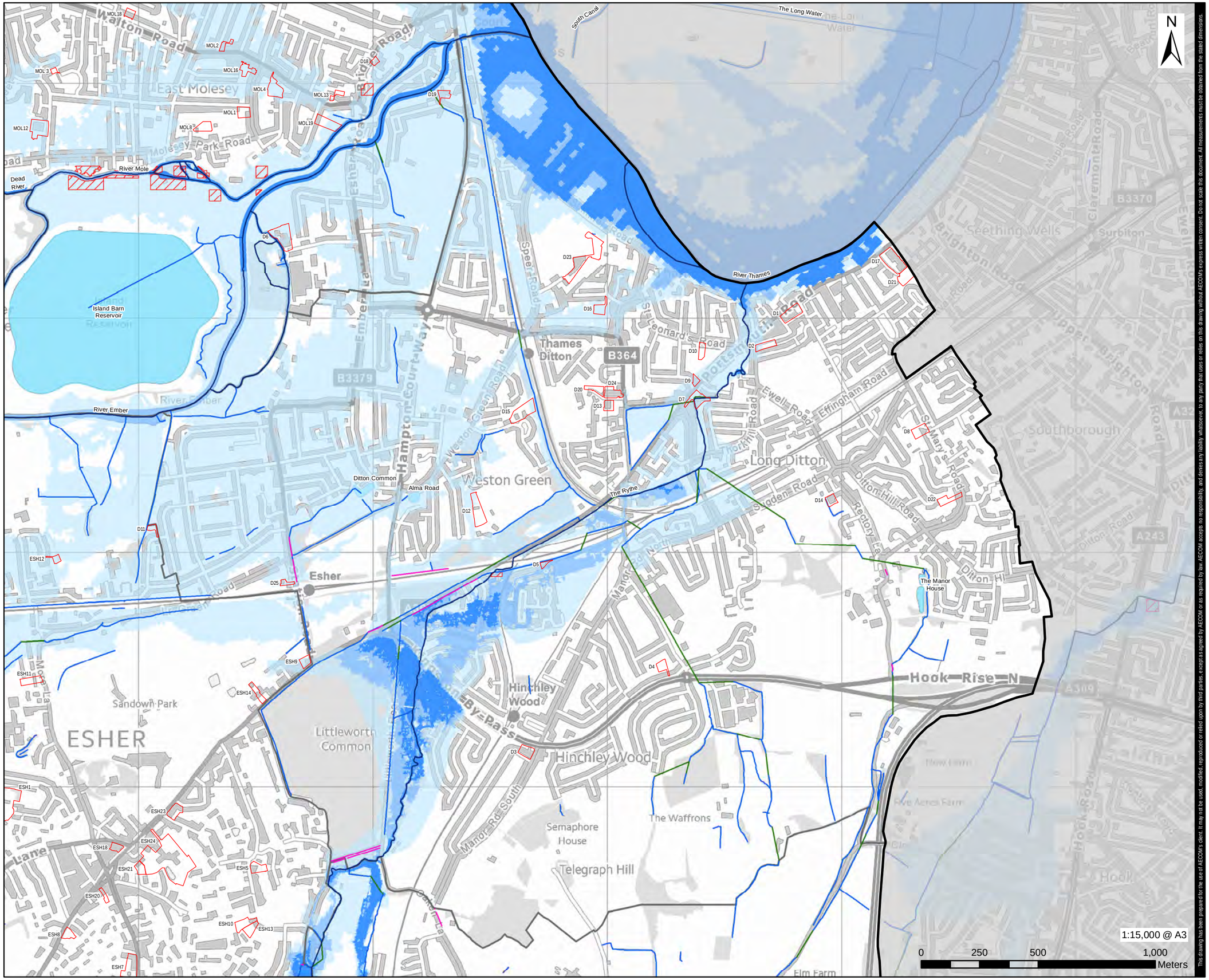

N

1:15,000 @ A3

0 250 500 1,000 Meters

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 1-3

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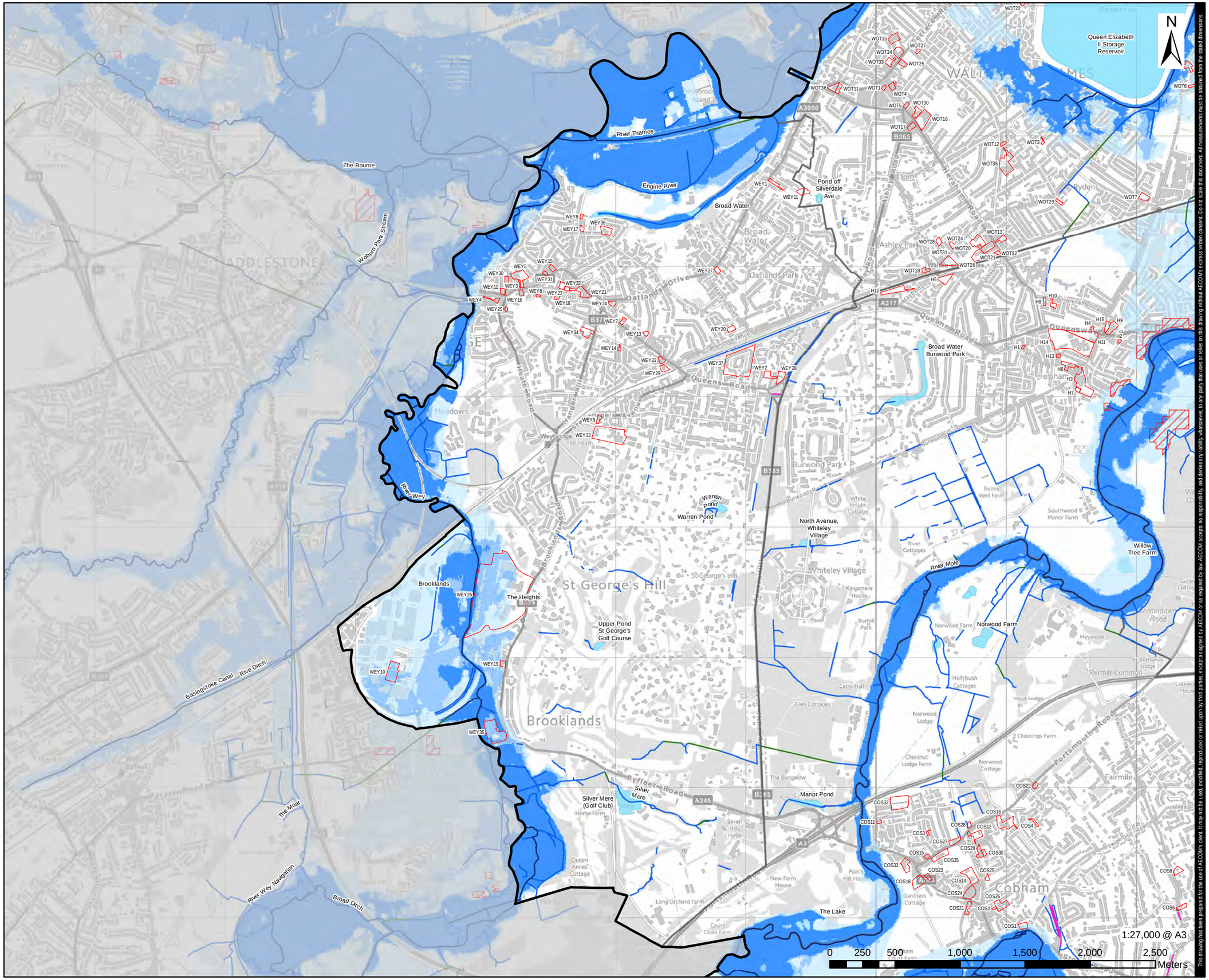

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones - Weybridge

FIGURE NUMBER

Figure 1-4

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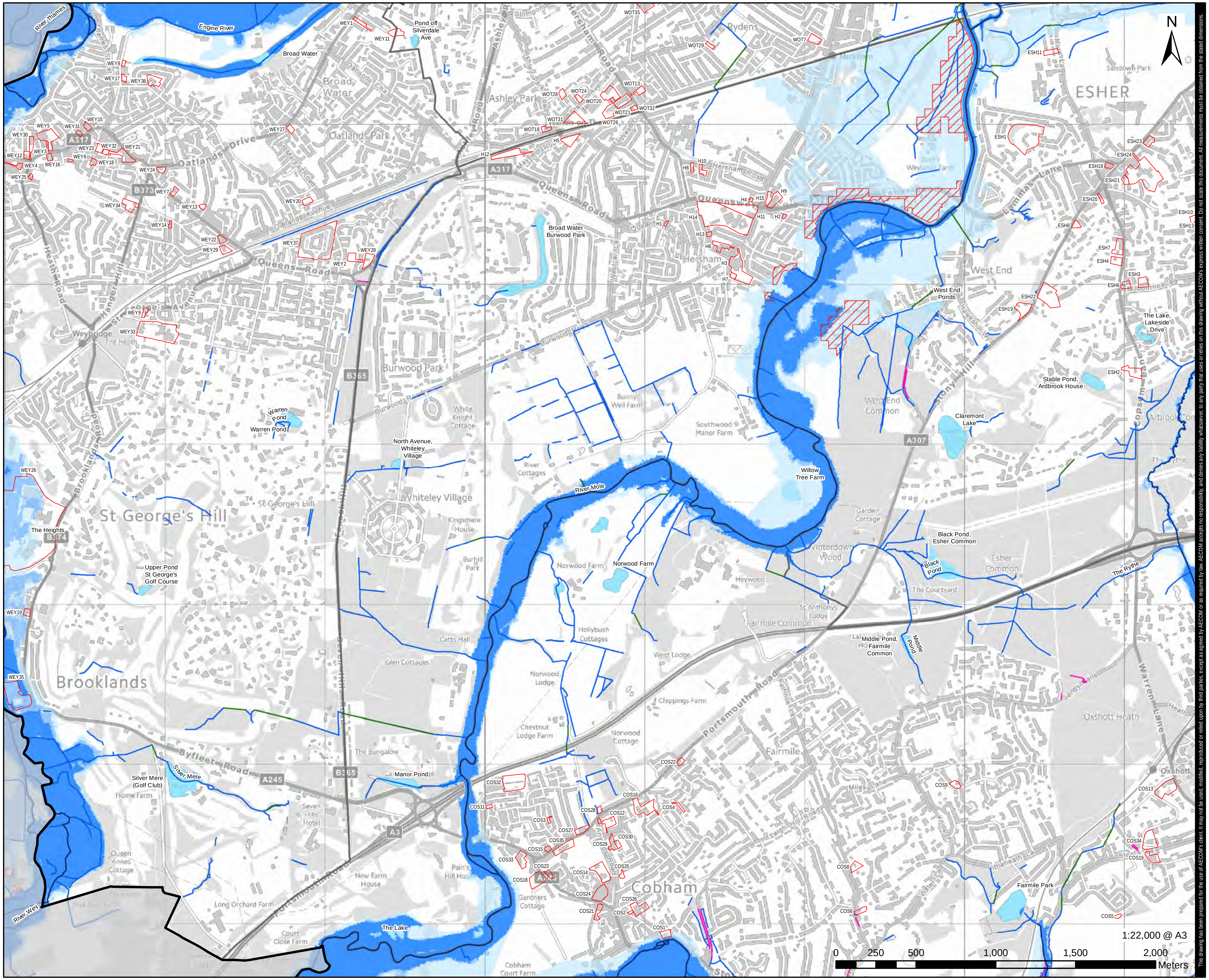

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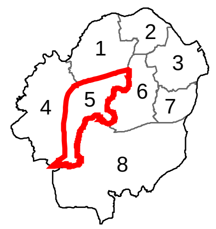

LEGEND

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones - Hersham

FIGURE NUMBER

Figure 1-5

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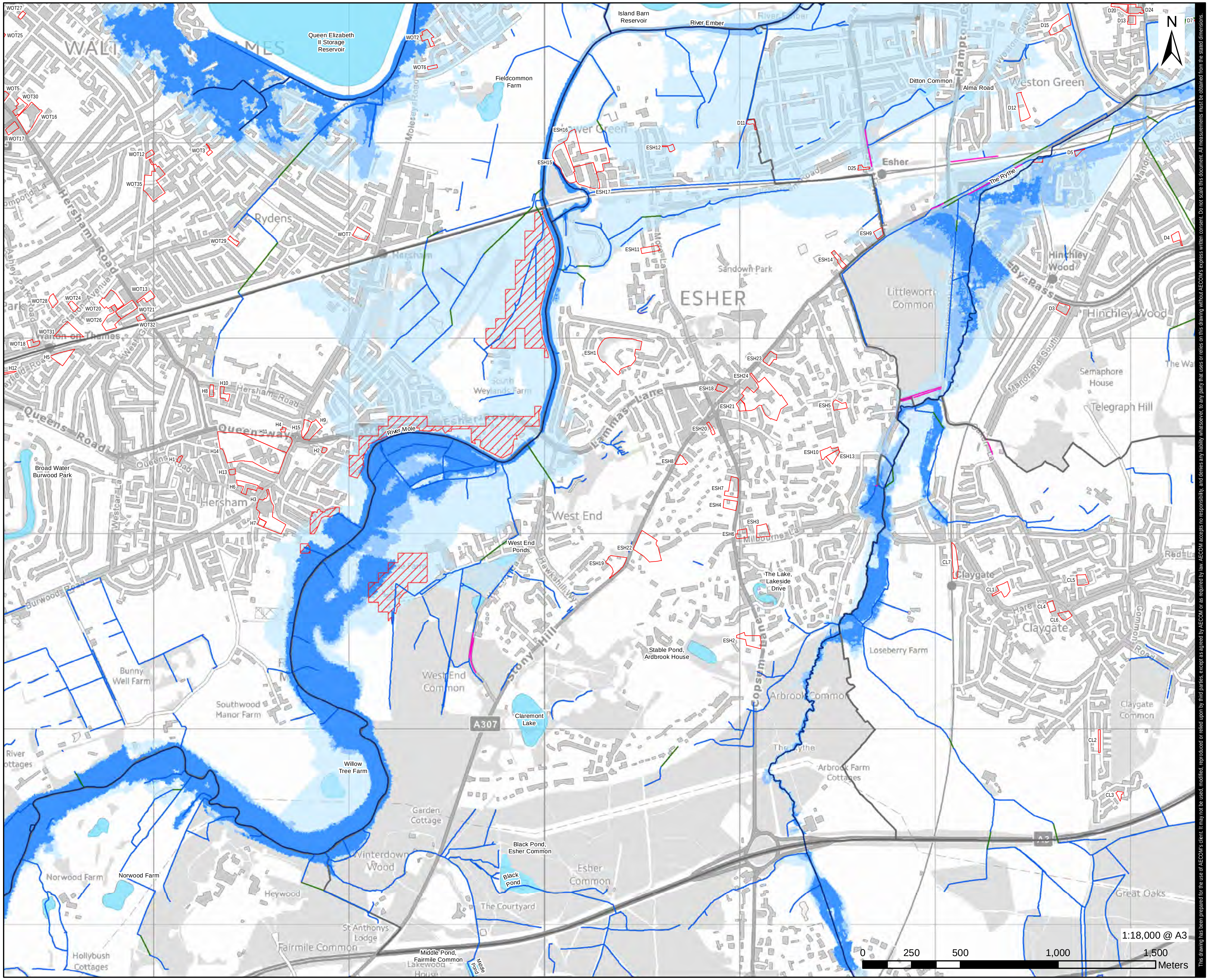

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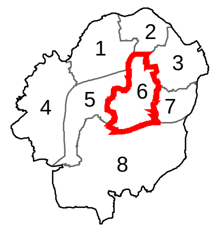

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FIGURE TITLE

Flood Zones - Esher

FIGURE NUMBER

Figure 1-6

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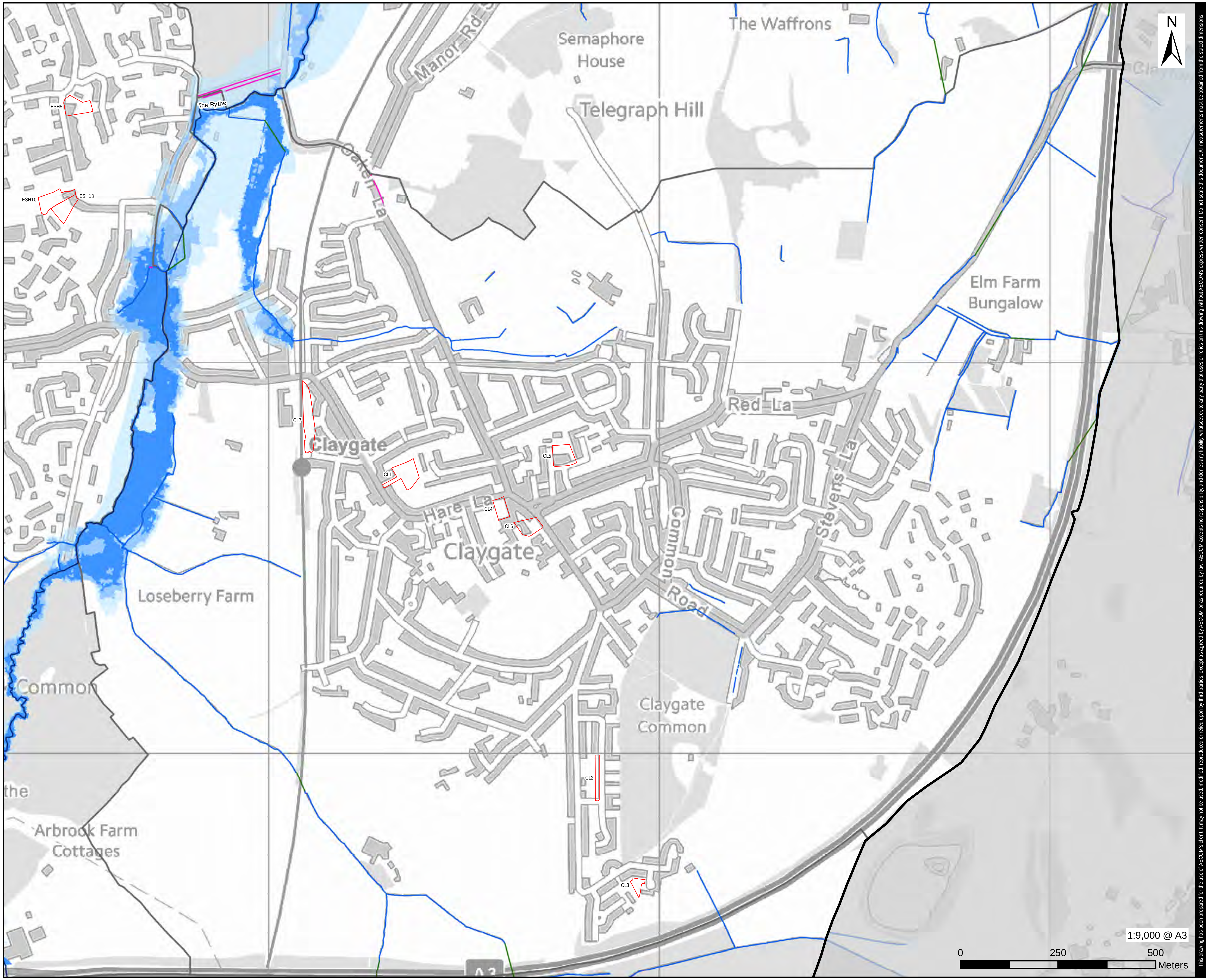

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SETTLEMENT AREAS

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ISSUE PURPOSE

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FIGURE TITLE

Flood Zones - Claygate

FIGURE NUMBER

Figure 1-7

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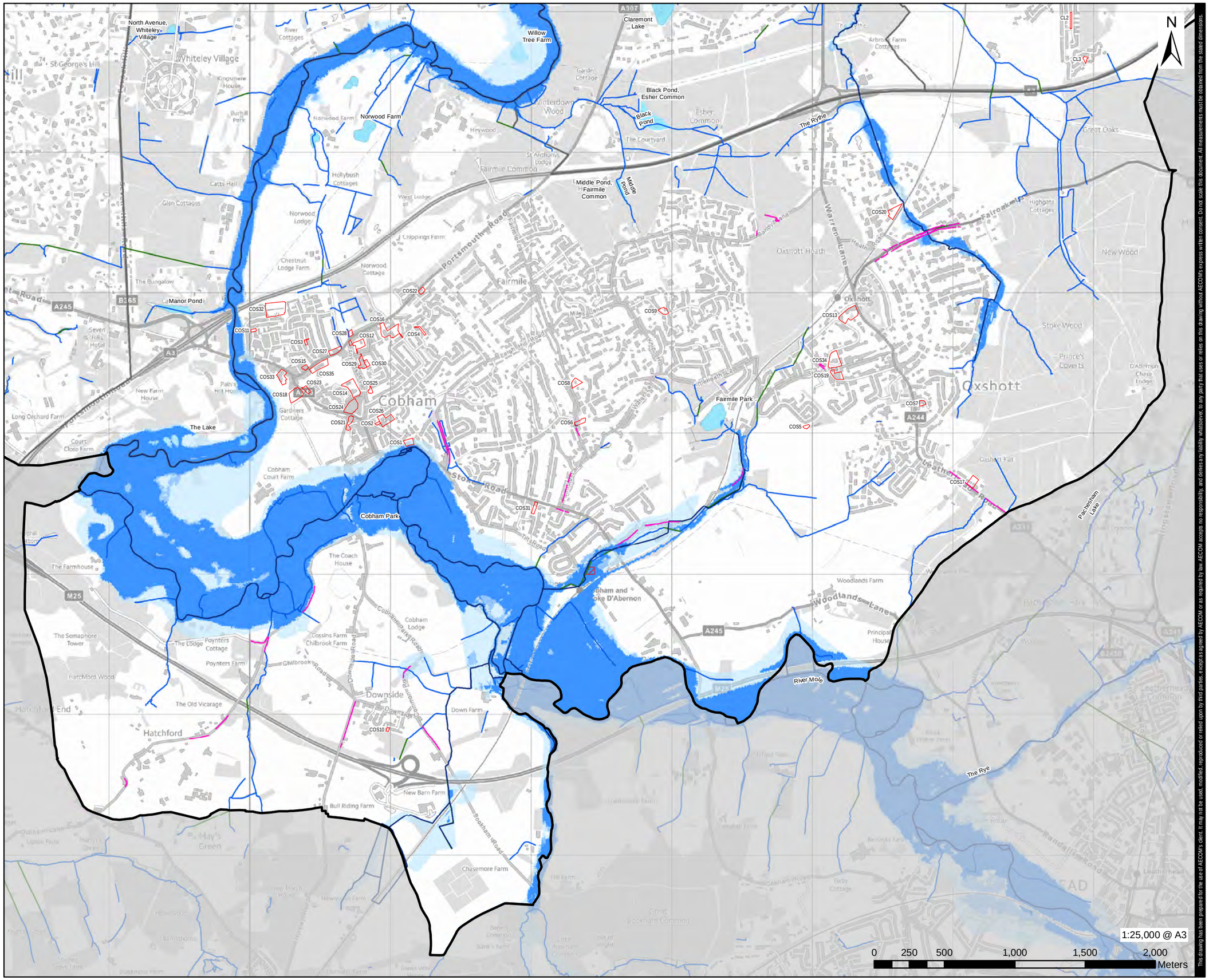

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Flood Zones - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 1-8

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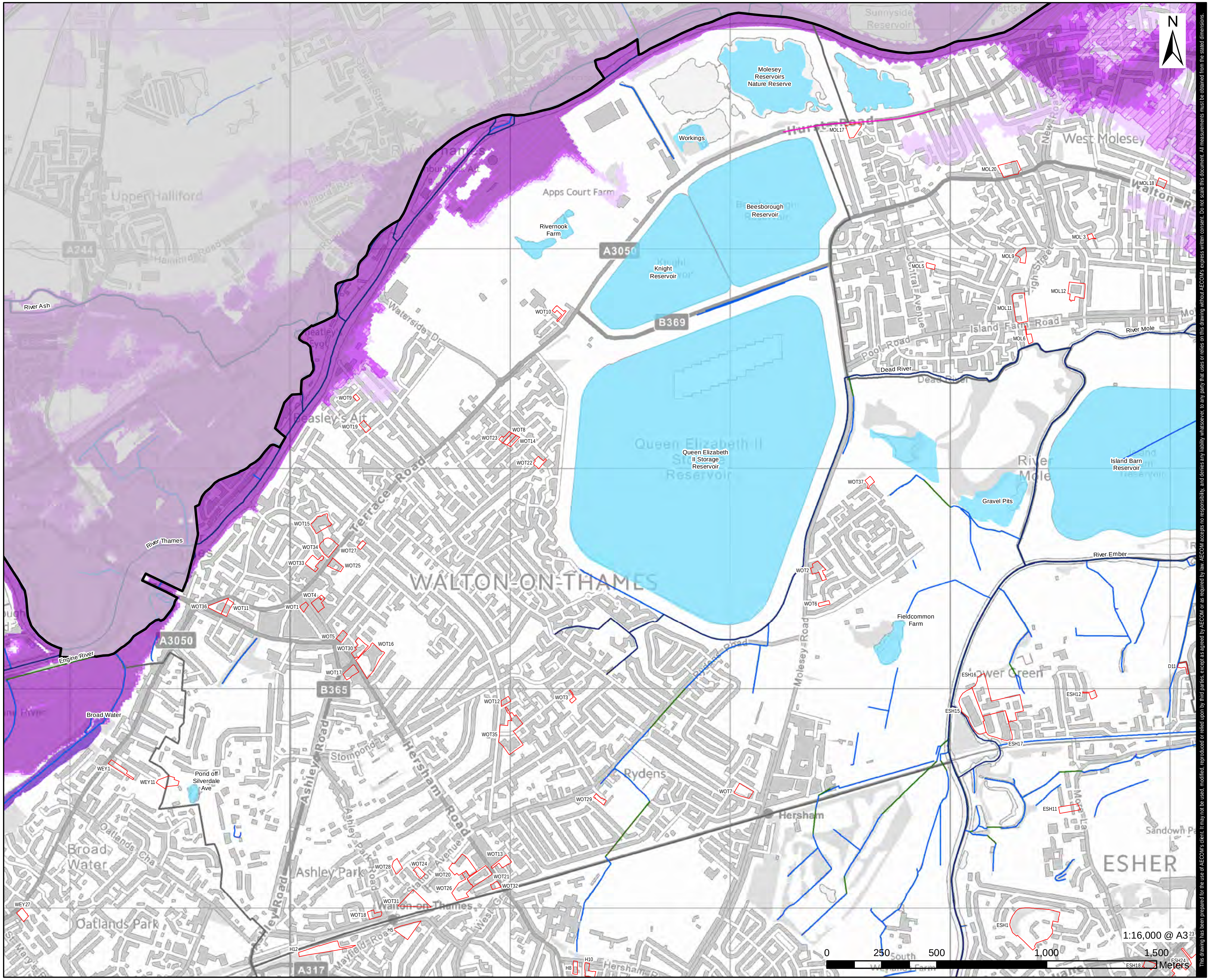

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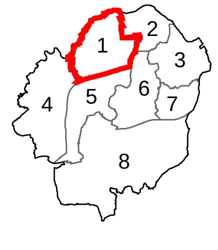

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Lower Thames - Thames Dominated Extents (2023 Model)

- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and a 0.1% AEP for the Lower Thames: Thames Dominated model. Refer to the SFRA Report for further detail of the modelling study used to define the extents.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 2-1

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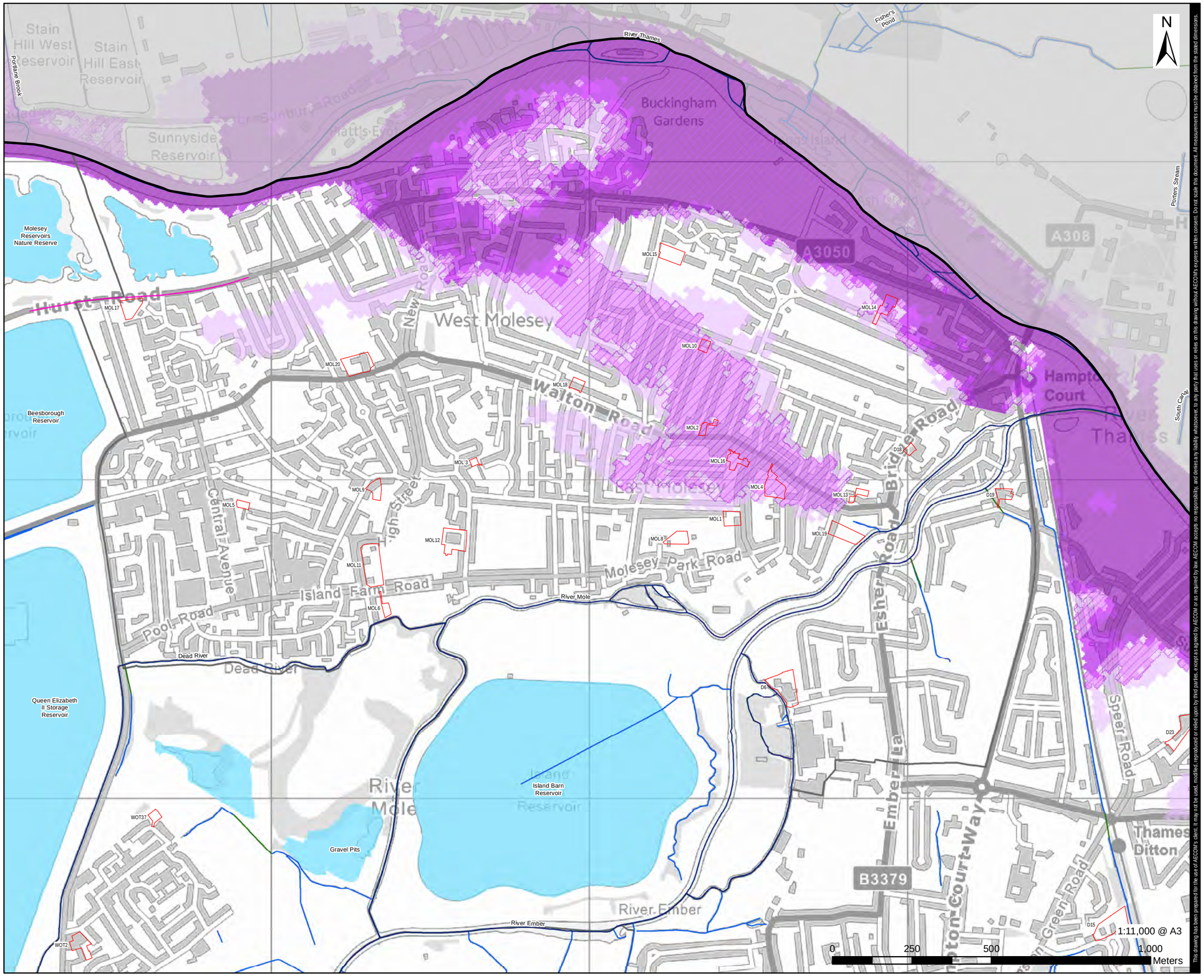

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60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 2-2

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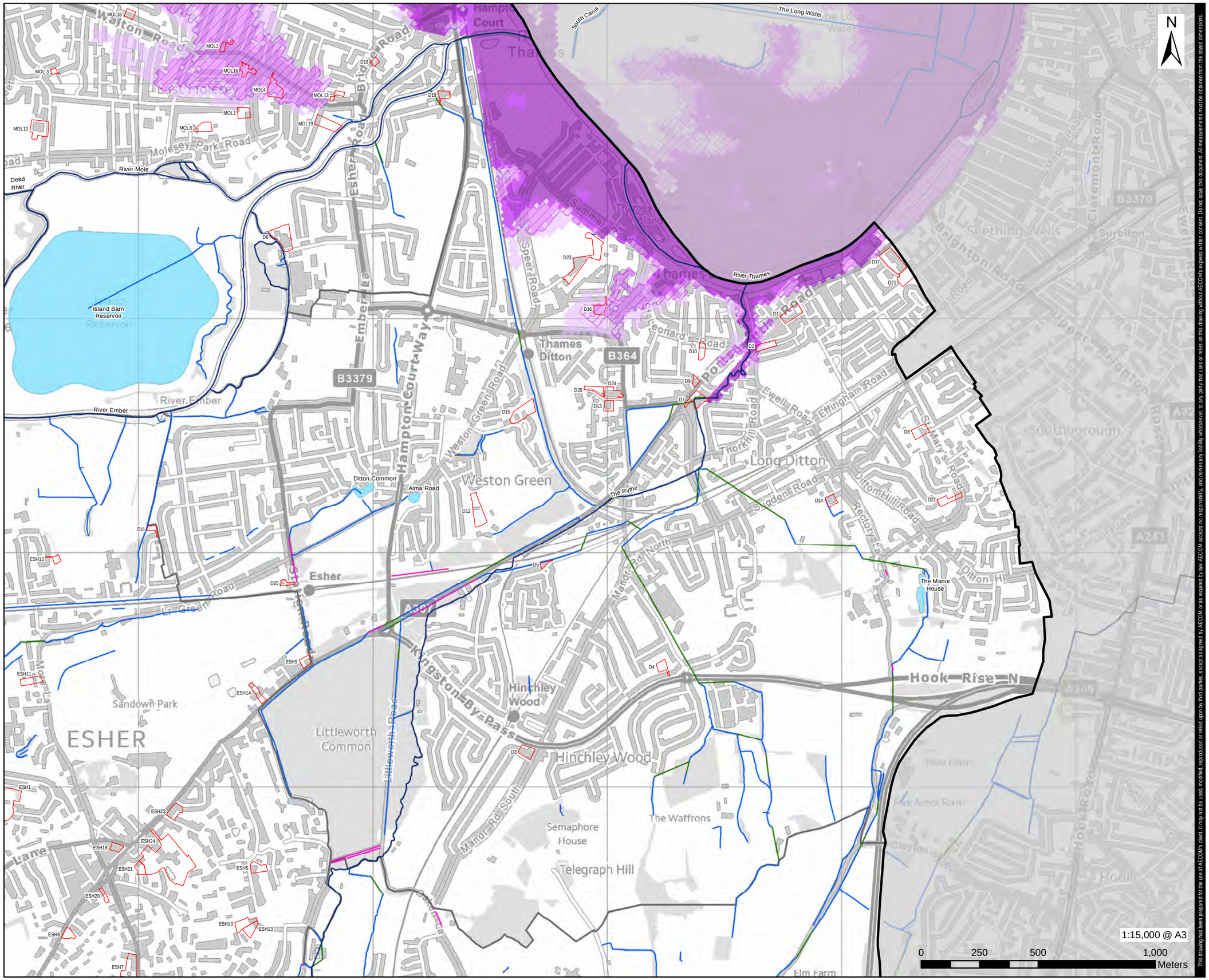

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Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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Basingstoke, Hampshire
RG21 7PP
www.aecom.com

SETTLEMENT AREAS

LEGEND

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

Lower Thames - Thames Dominated Extents (2023 Model)

- 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

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

Maximum Flood Extents - Lower Thames: Thames Dominated (1% AEP + Climate Change and 0.1% AEP) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 2-3

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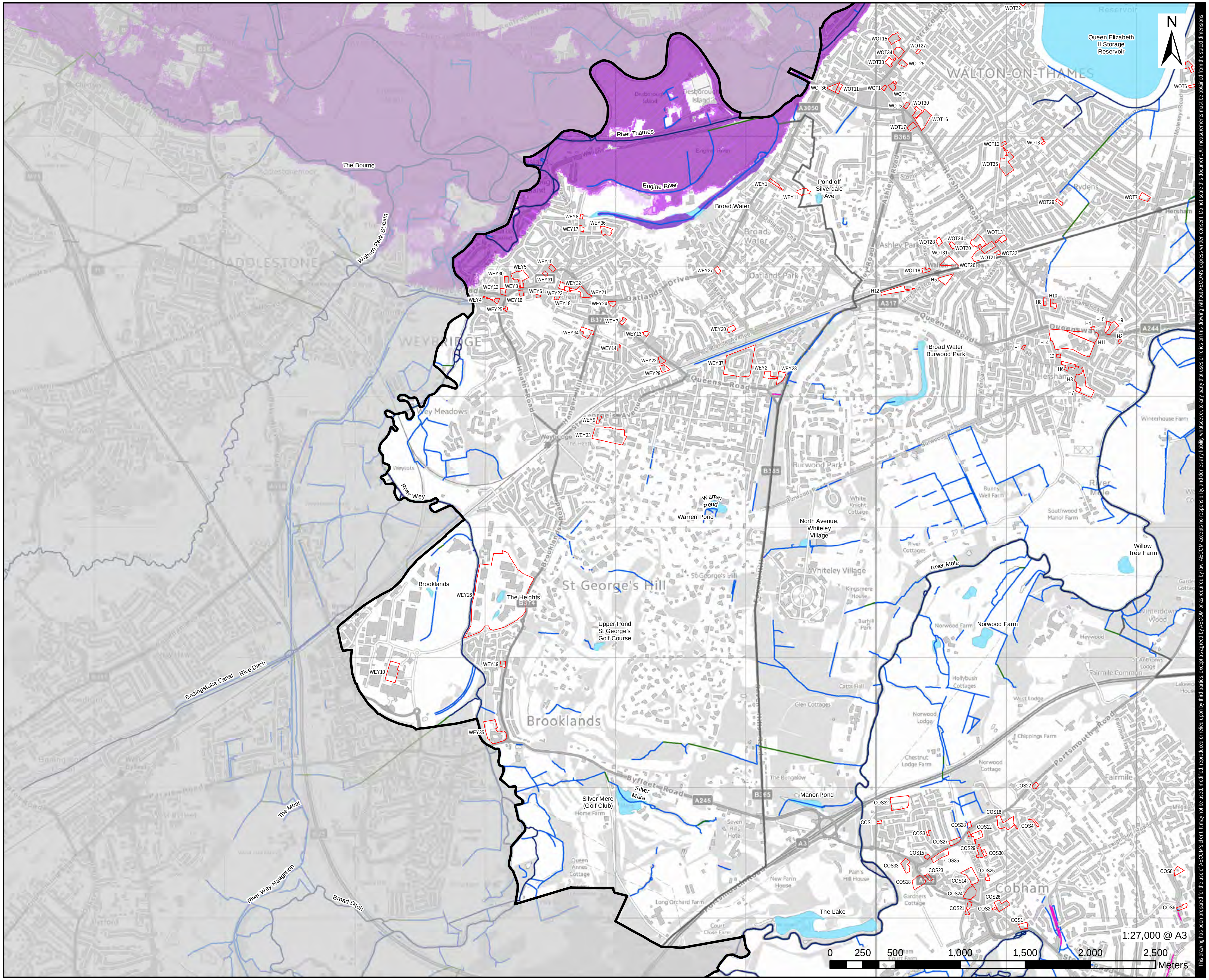

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SETTLEMENT AREAS

LEGEND

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

Lower Thames - Thames Dominated Extents (2023 Model)

- 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

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

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

FIGURE NUMBER

Figure 2-4

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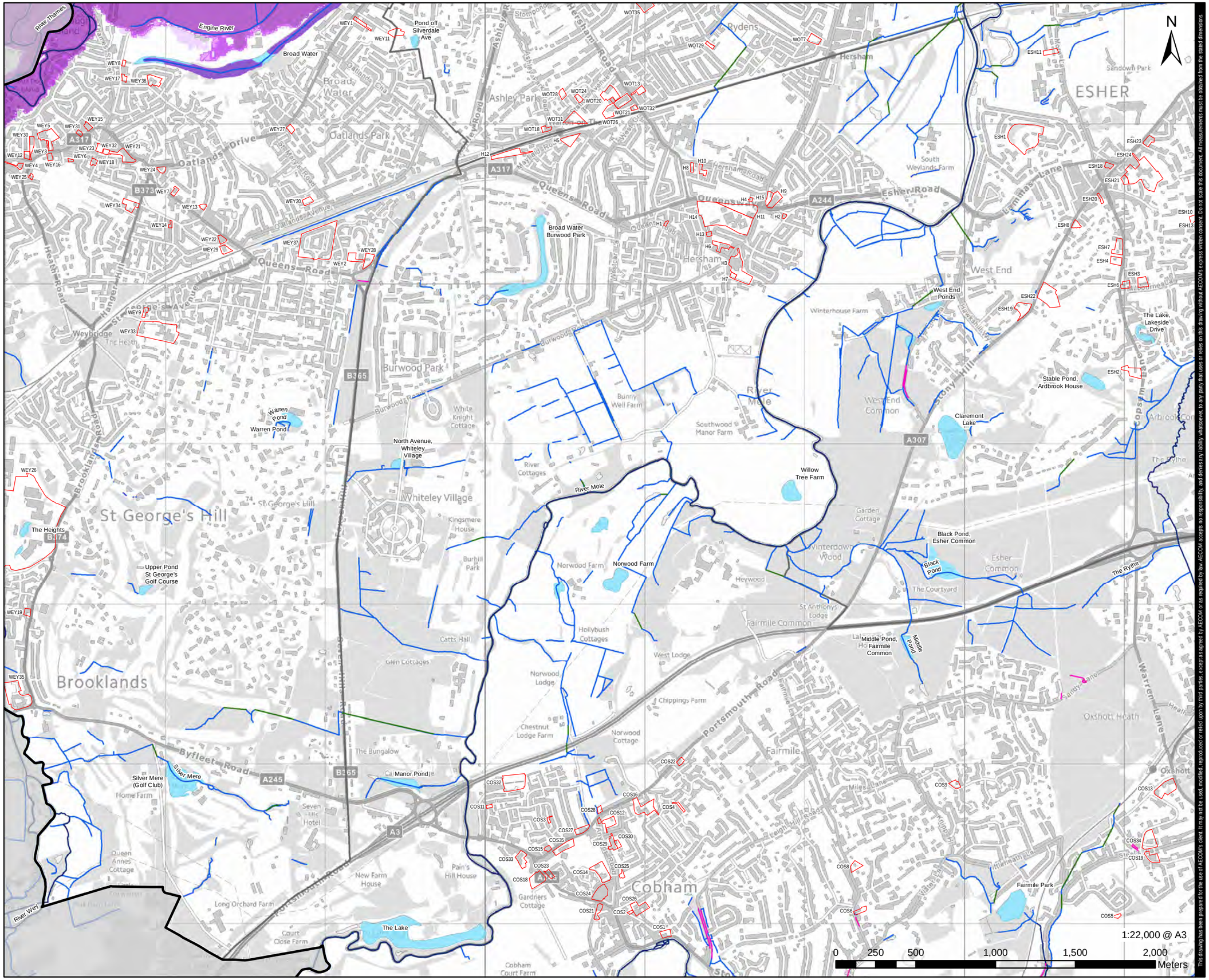

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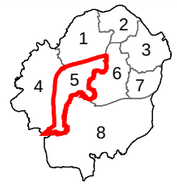
SETTLEMENT AREAS



LEGEND

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

Lower Thames - Thames Dominated Extents (2023 Model)

- 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

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PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 2-5

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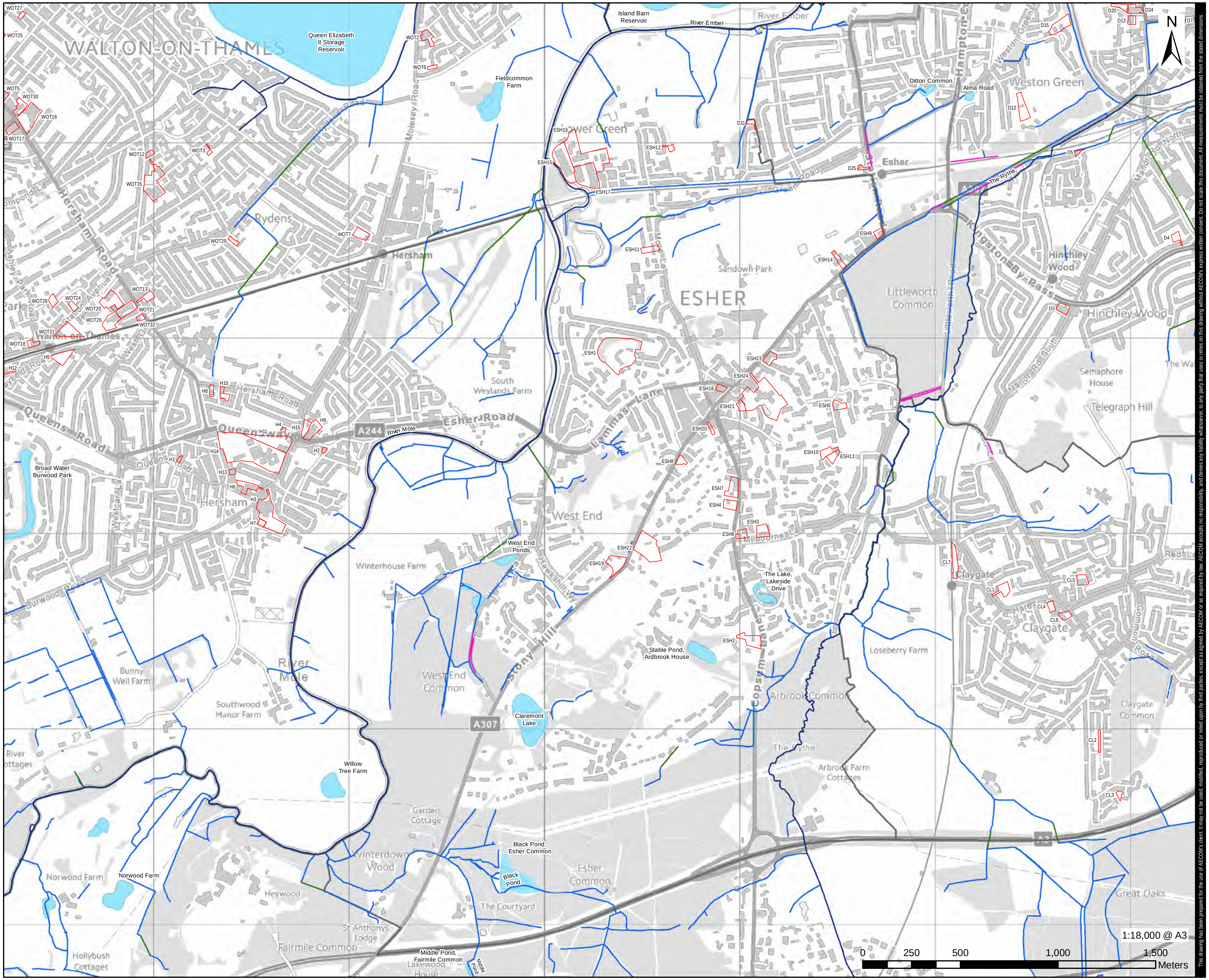

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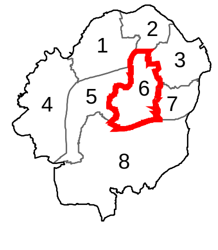

LEGEND

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

Lower Thames - Thames Dominated Extents (2023 Model)

- 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

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PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 2-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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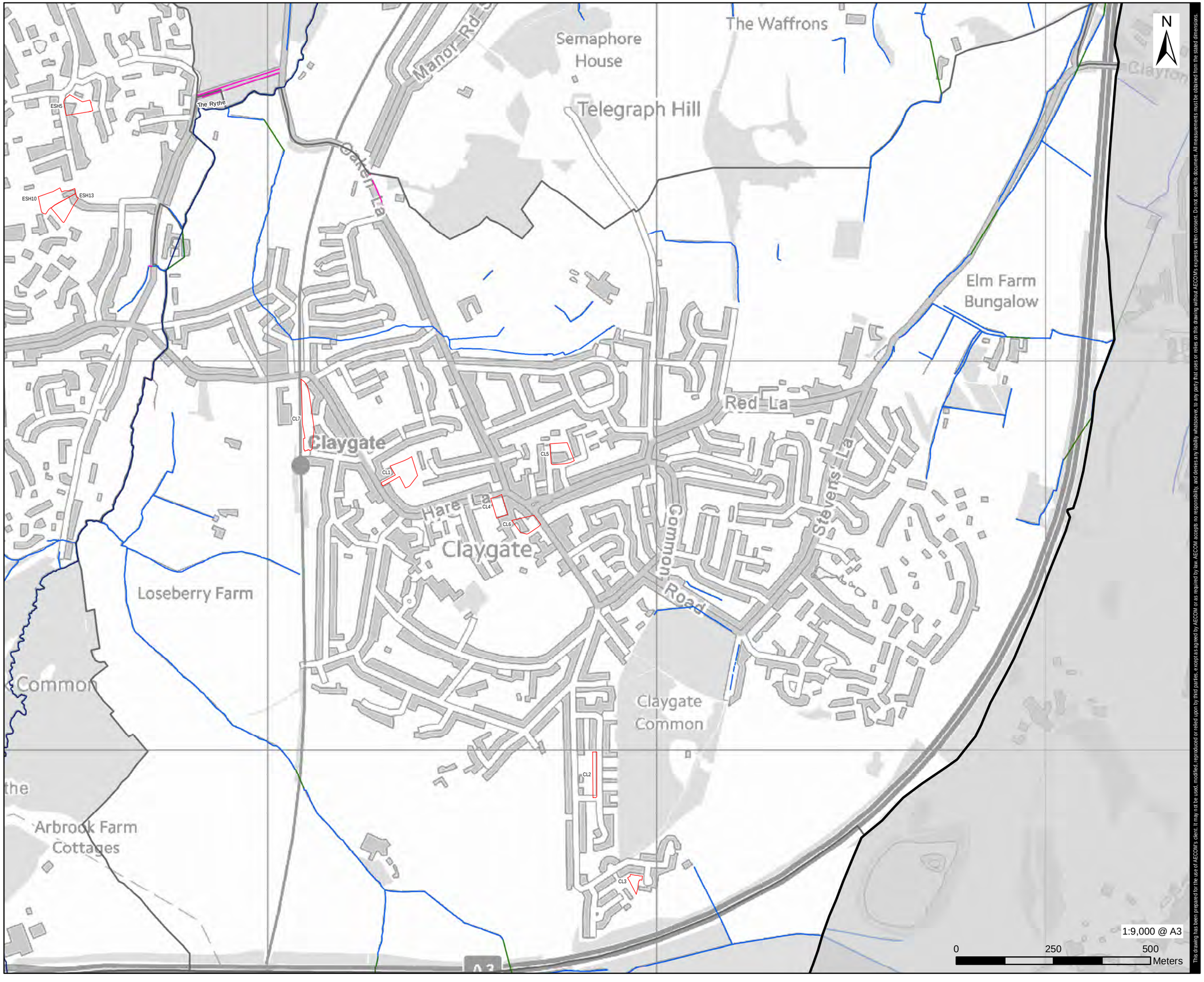

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- Elmbridge Borough Council Boundary
- Settlement Areas
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Lower Thames - Thames Dominated Extents (2023 Model)

- 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

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 2-7

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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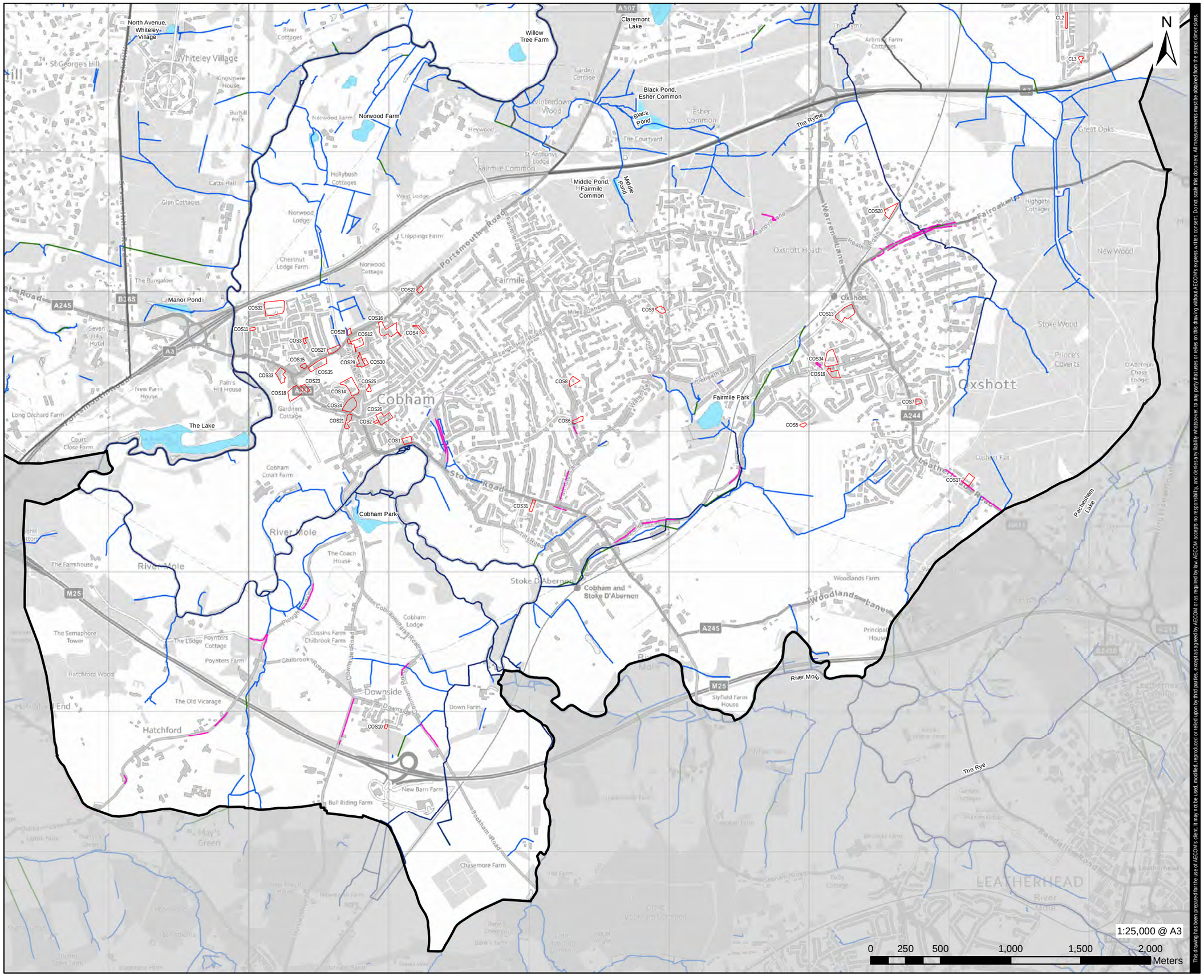

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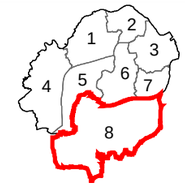

LEGEND

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

Lower Thames - Thames Dominated Extents (2023 Model)

- 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

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

Maximum Flood Extents - Lower Thames: Thames Dominated (1% AEP + Climate Change and 0.1% AEP) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 2-8

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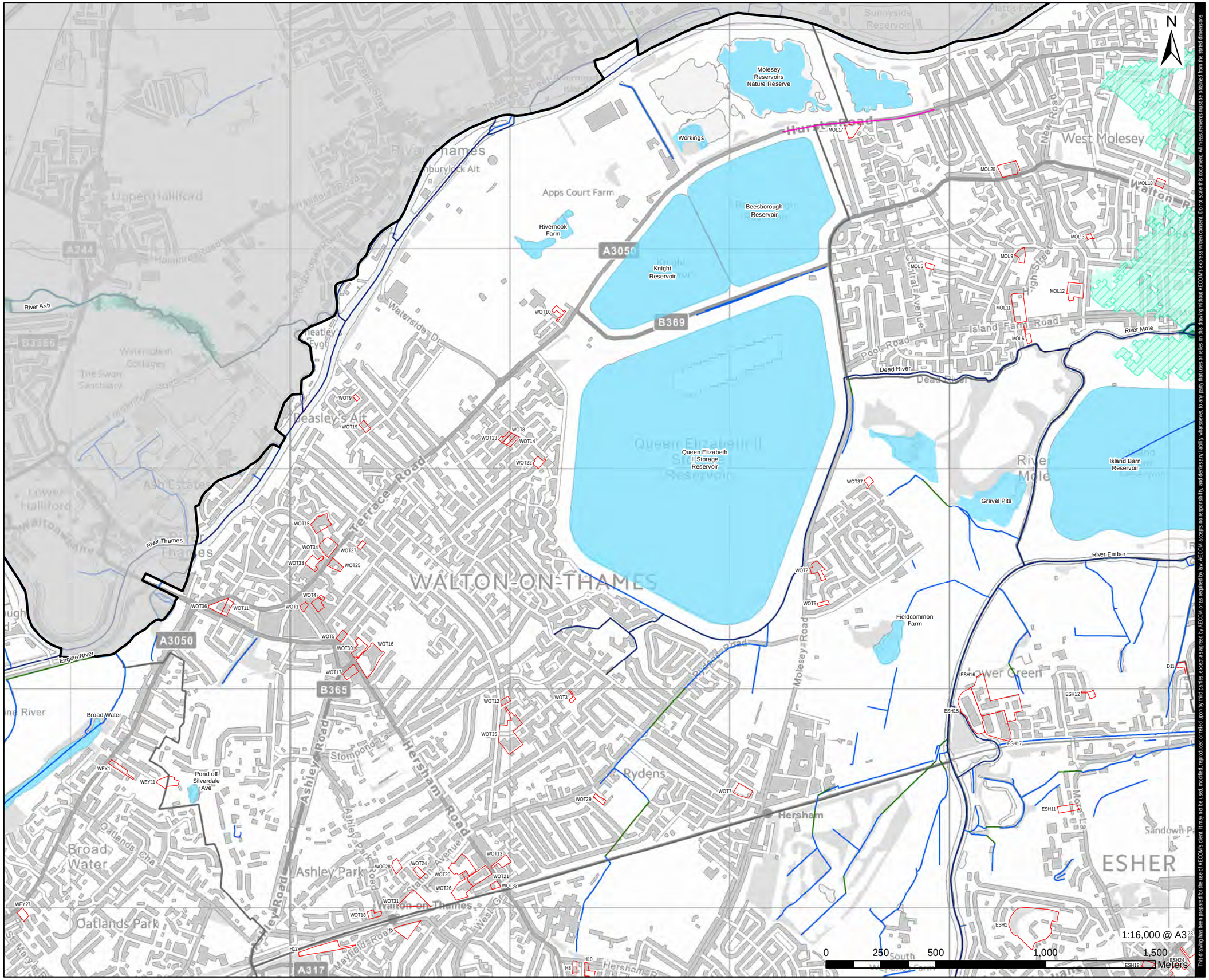

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SETTLEMENT AREAS

LEGEND

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- Surface Water Bodies

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 1% AEP
- 1% AEP +10% CC
- 1% AEP +20% CC
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FIGURE TITLE

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

FIGURE NUMBER

Figure 3-1

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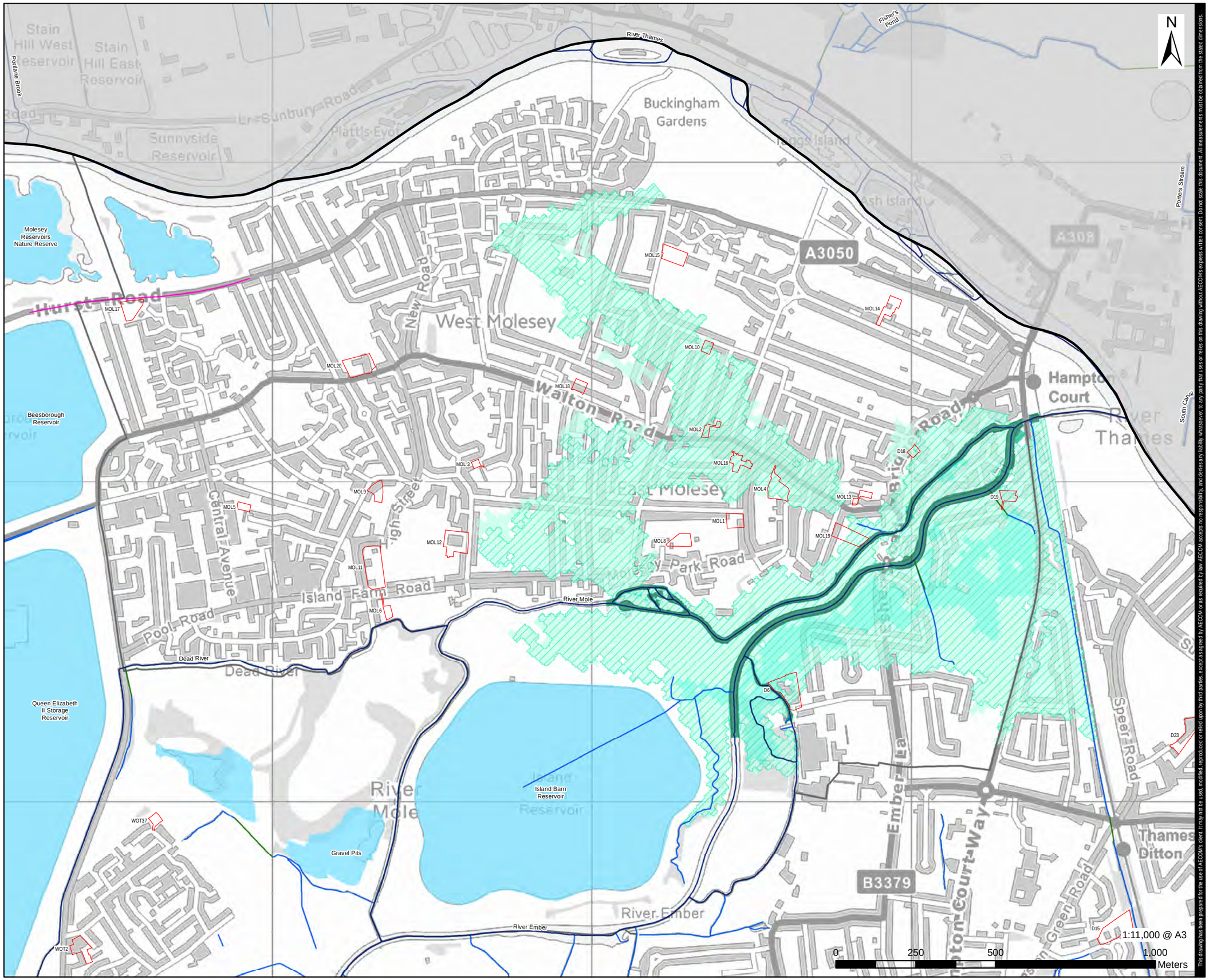

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- Surface Water Bodies

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 1% AEP
- 1% AEP +10% CC
- 1% AEP +20% CC
- 1% AEP +25% CC
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PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 3-2

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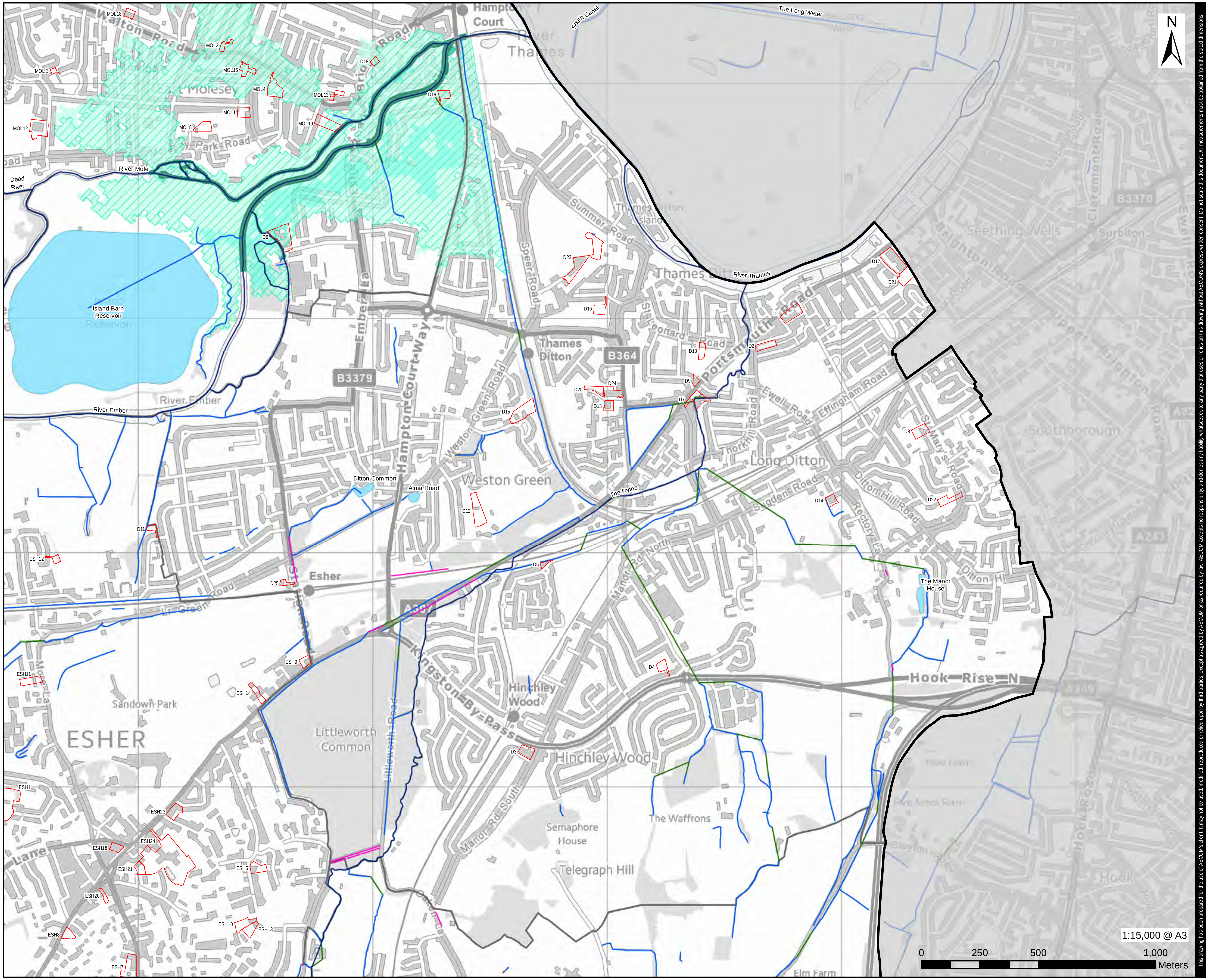

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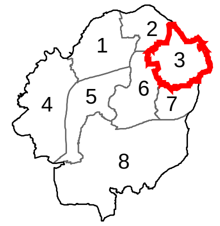

LEGEND

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- Settlement Areas
- Allocation Sites
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- Culverted Ordinary Watercourse
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- Surface Water Bodies

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 1% AEP
- 1% AEP +10% CC
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Maximum Flood Extents - Lower Thames: Tributary Dominated (1% AEP + Climate Change and 0.1% AEP) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 3-3

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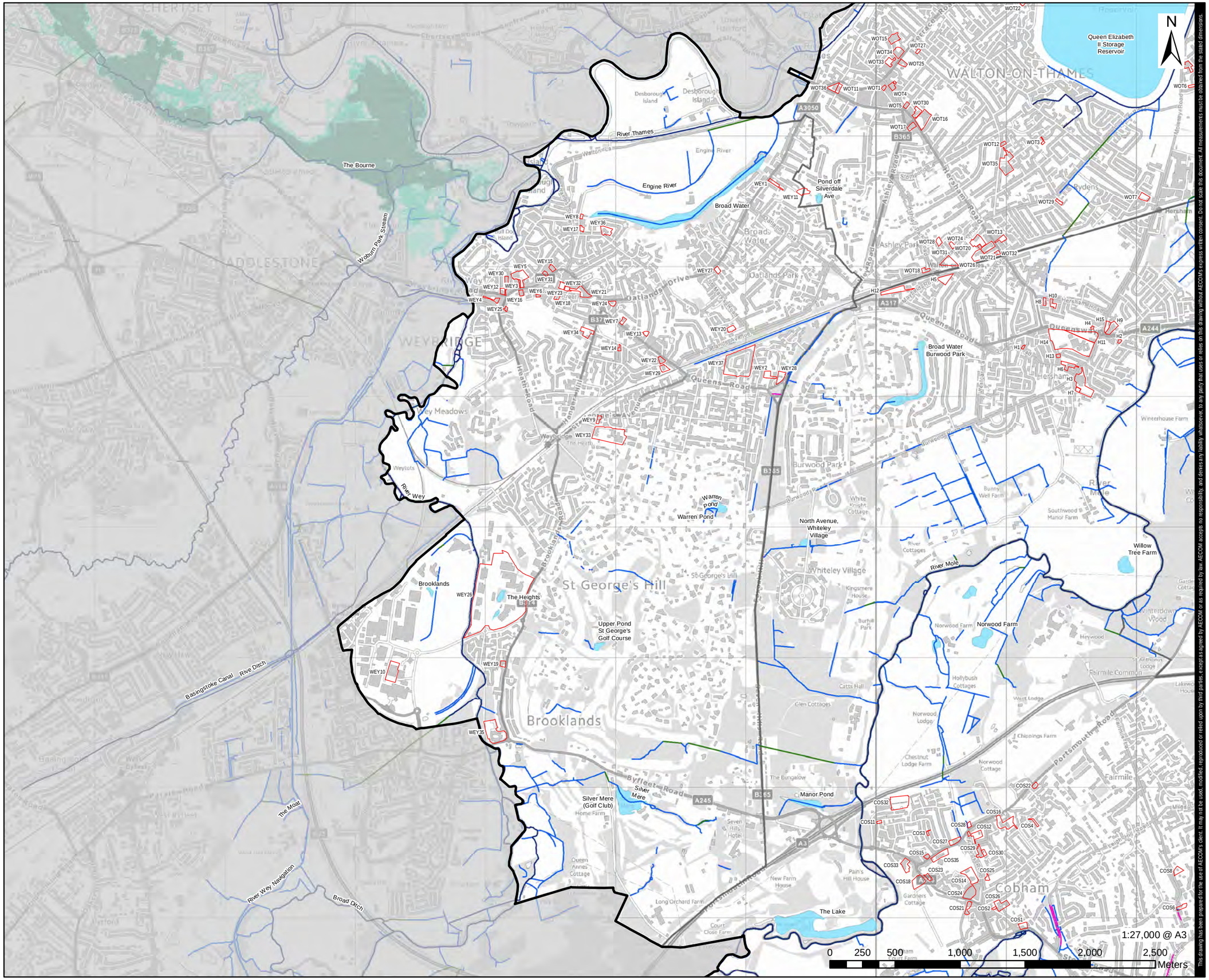

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- Surface Water Bodies

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Lower Thames: Tributary Dominated model. Refer to the SFRA Report for further detail of the modelling study used to define the extents.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 3-4

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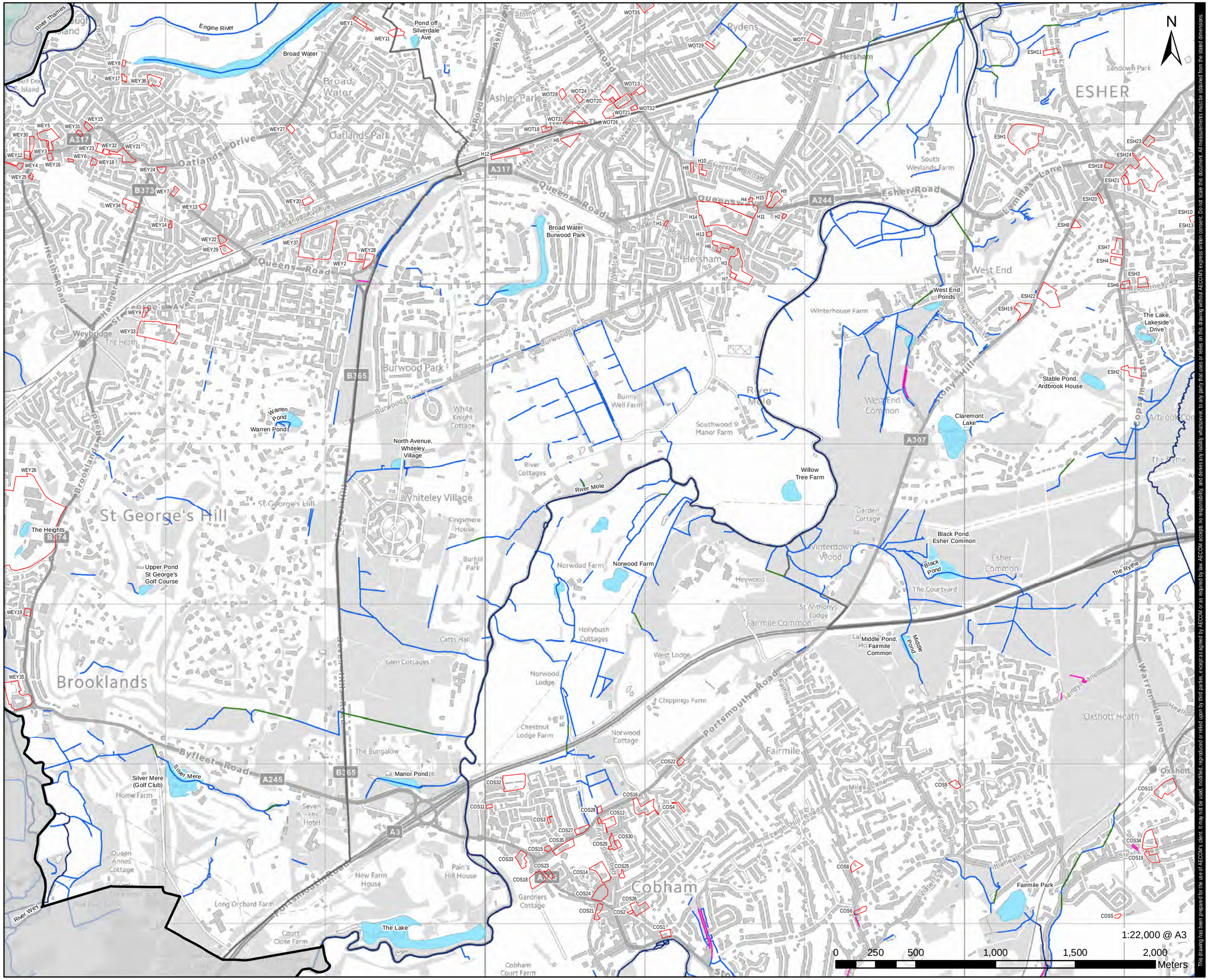

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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PROJECT

Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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

SETTLEMENT AREAS

LEGEND

▭	Elmbridge Borough Council Boundary
▭	Settlement Areas
🟥	Allocation Sites
—	EA Main River
—	Open Ordinary Watercourses
—	Culverted Ordinary Watercourse
—	Surrey County Council Highways Ditch
■	Surface Water Bodies

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

■	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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Lower Thames: Tributary Dominated model. Refer to the SFRA Report for further detail of the modelling study used to define the extents.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 3-5

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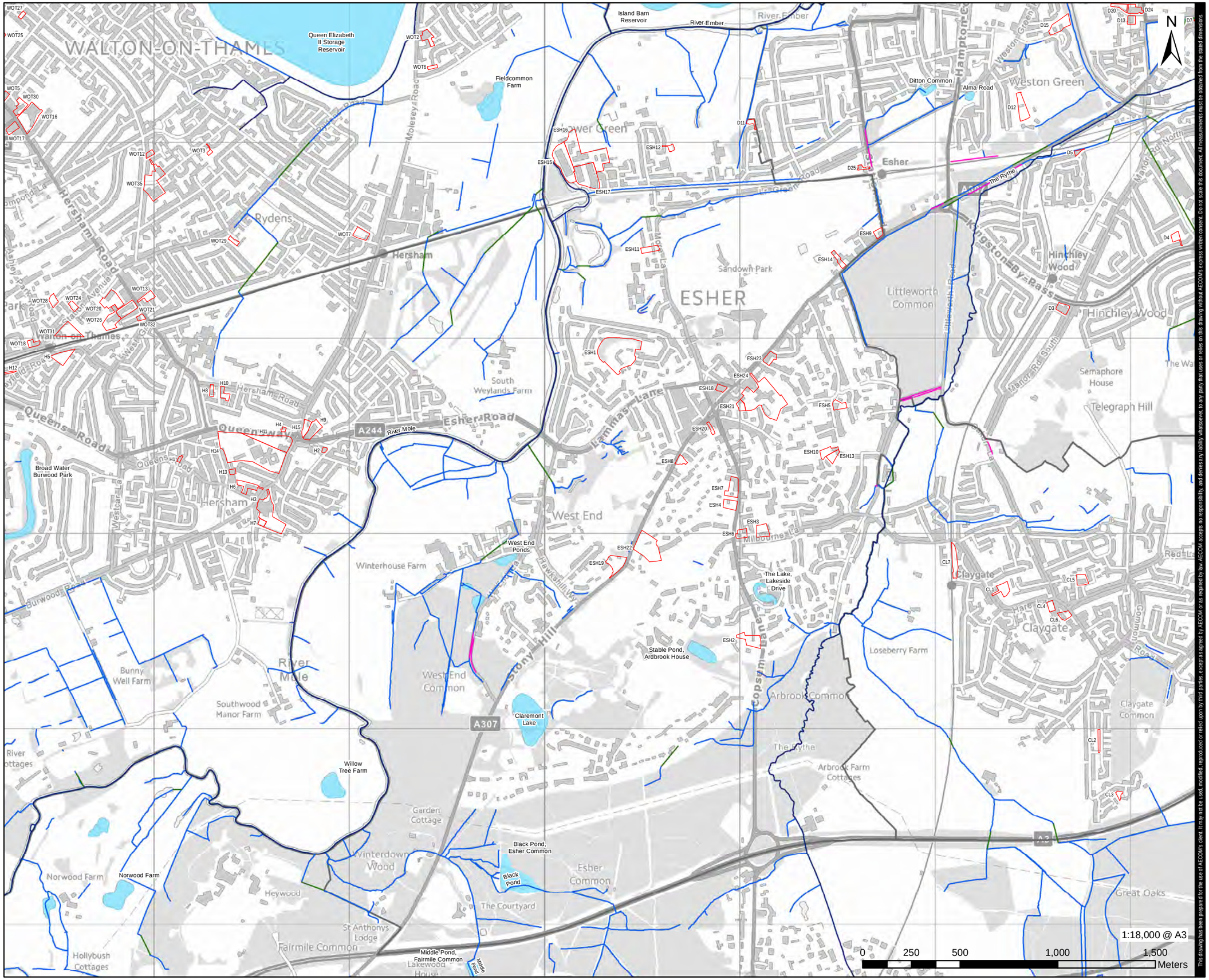

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SETTLEMENT AREAS

LEGEND

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

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Lower Thames: Tributary Dominated model. Refer to the SFRA Report for further detail of the modelling study used to define the extents.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 3-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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SETTLEMENT AREAS

LEGEND

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

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Lower Thames: Tributary Dominated model. Refer to the SFRA Report for further detail of the modelling study used to define the extents.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

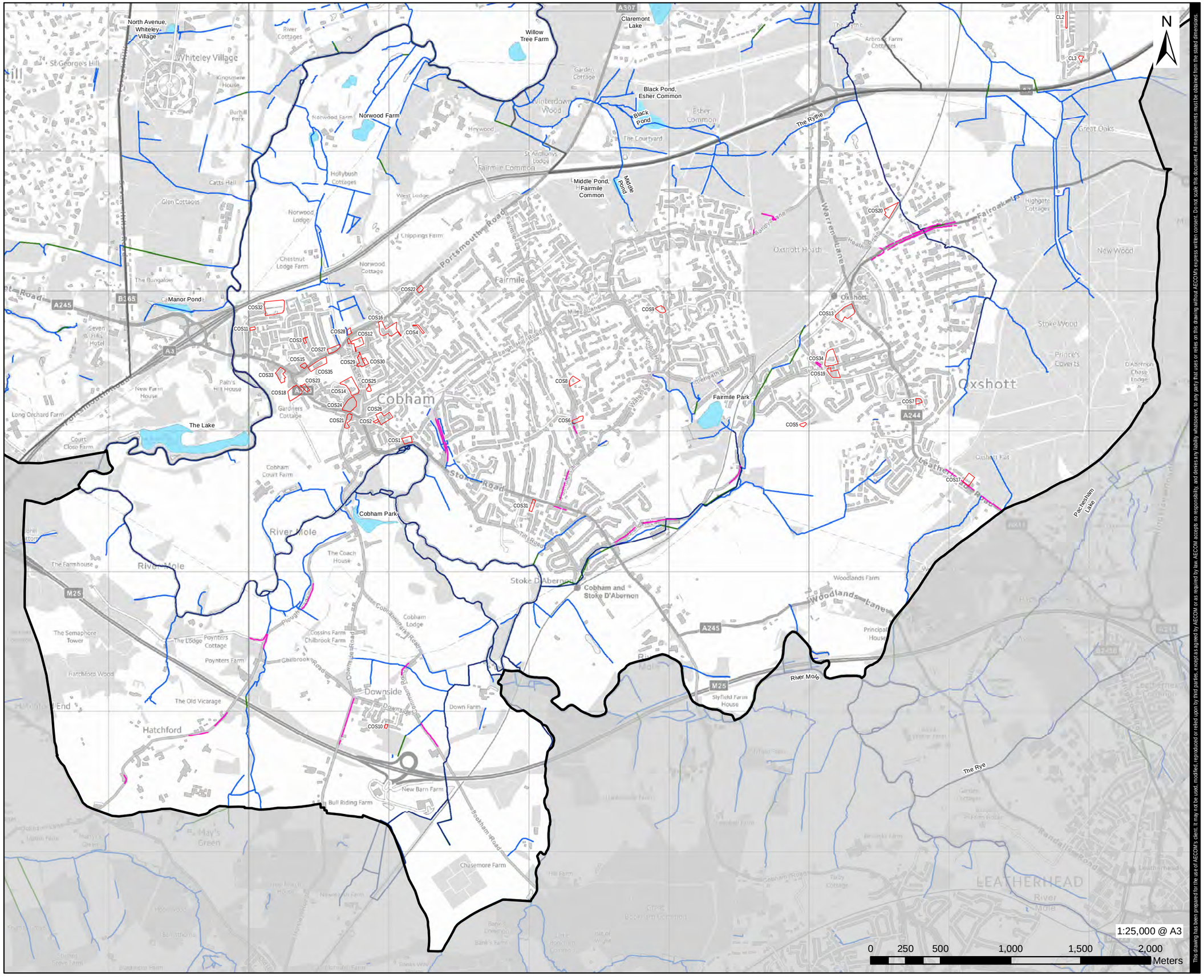
Maximum Flood Extents - Lower Thames: Tributary Dominated (1% AEP + Climate Change and 0.1% AEP) - Claygate

FIGURE NUMBER

Figure 3-7

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

Filename: \\na.aecomnet.com\fs\EMEA\Basingstoke-UK\BAS\1\Legacy\UK\BAS\1PFIL\W0014700 - Water\Water New\4 - PROJECTS\60565666\60565750 Elmbridge SFRA update & WCS\900 GIS\Workspaces\SFRA L2\ElmbridgeSFRA_L2_Figure3_MaxExtents_ThamesTributaryDominated.mxd



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SETTLEMENT AREAS

LEGEND

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

Lower Thames: Thames Tributary Dominated Extents (2023 Model)

- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Lower Thames: Tributary Dominated model. Refer to the SFRA Report for further detail of the modelling study used to define the extents.
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60565750

FIGURE TITLE

Maximum Flood Extents - Lower Thames: Tributary Dominated (1% AEP + Climate Change and 0.1% AEP) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 3-8

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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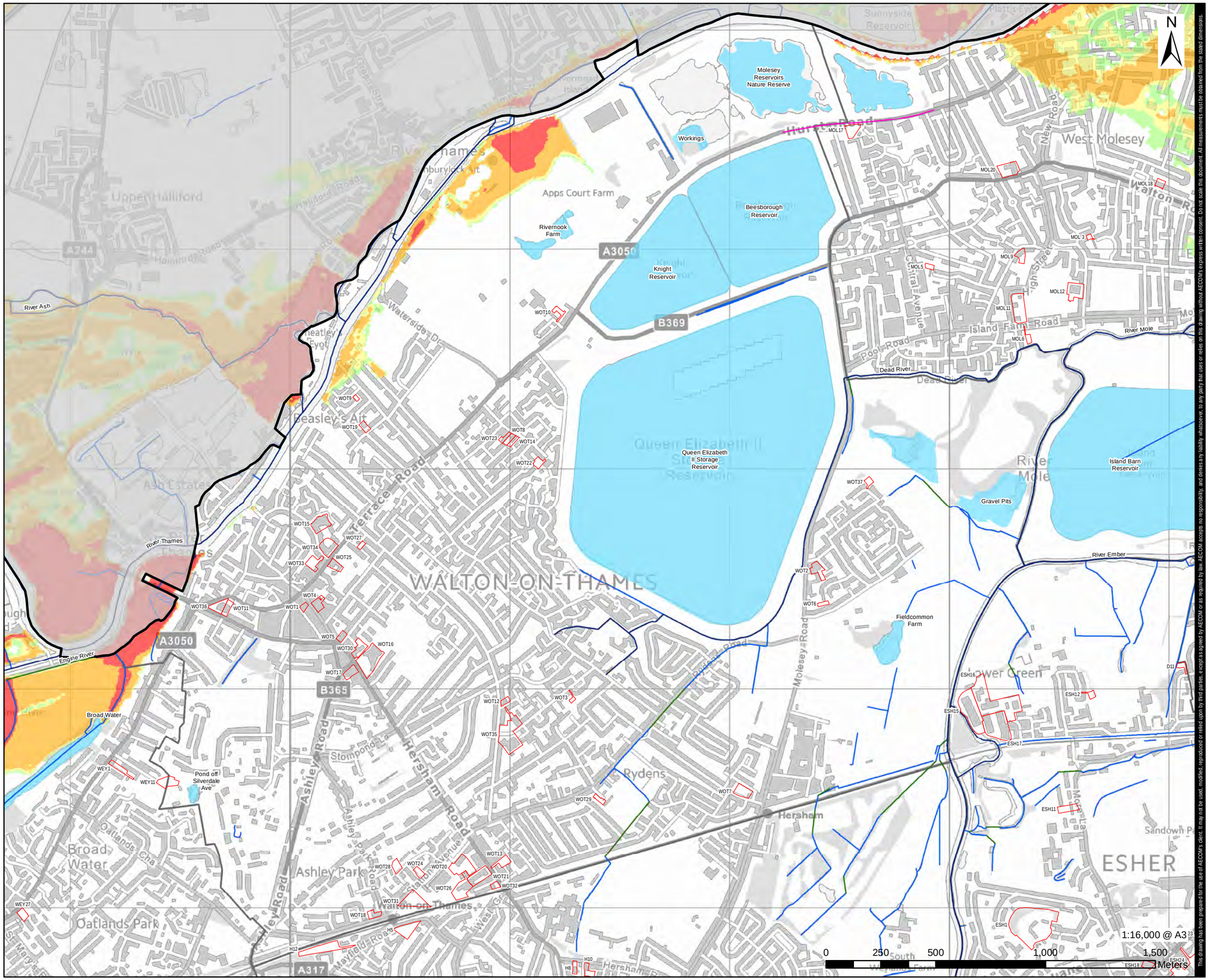

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Thames Dominated 2023 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 4-1

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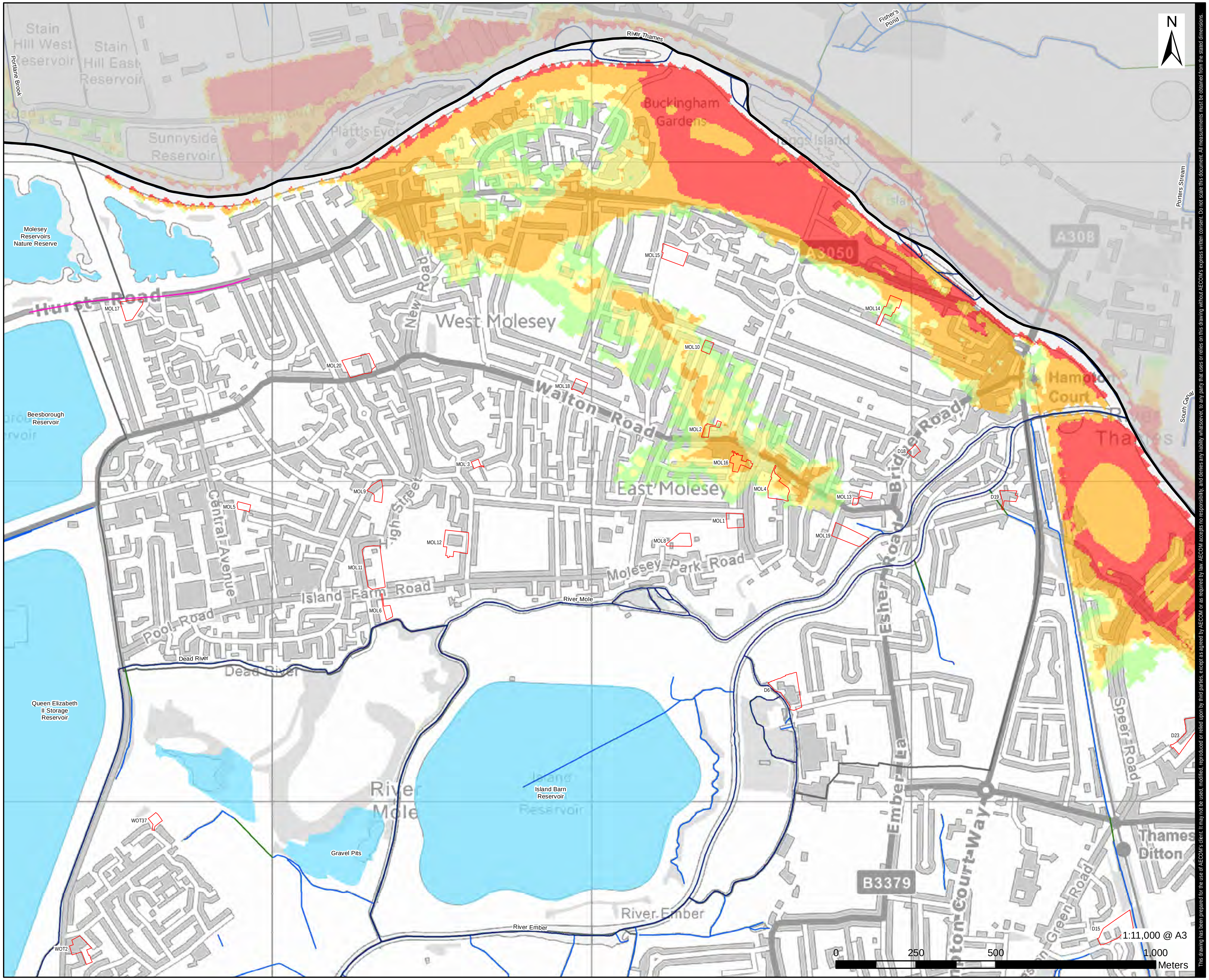

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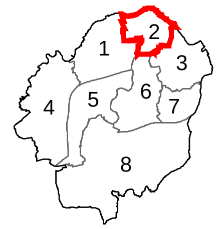

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 4-2

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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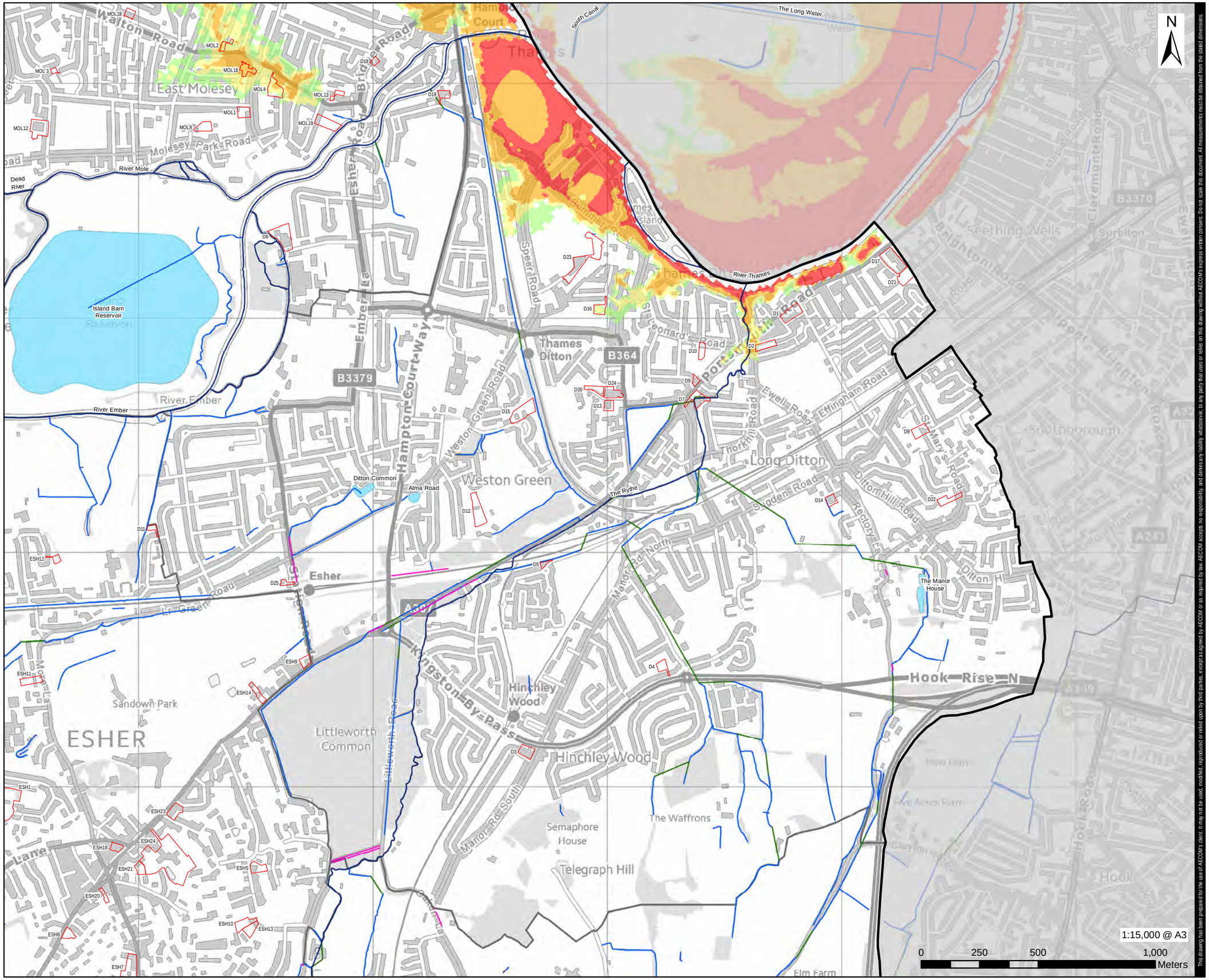

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 4-3

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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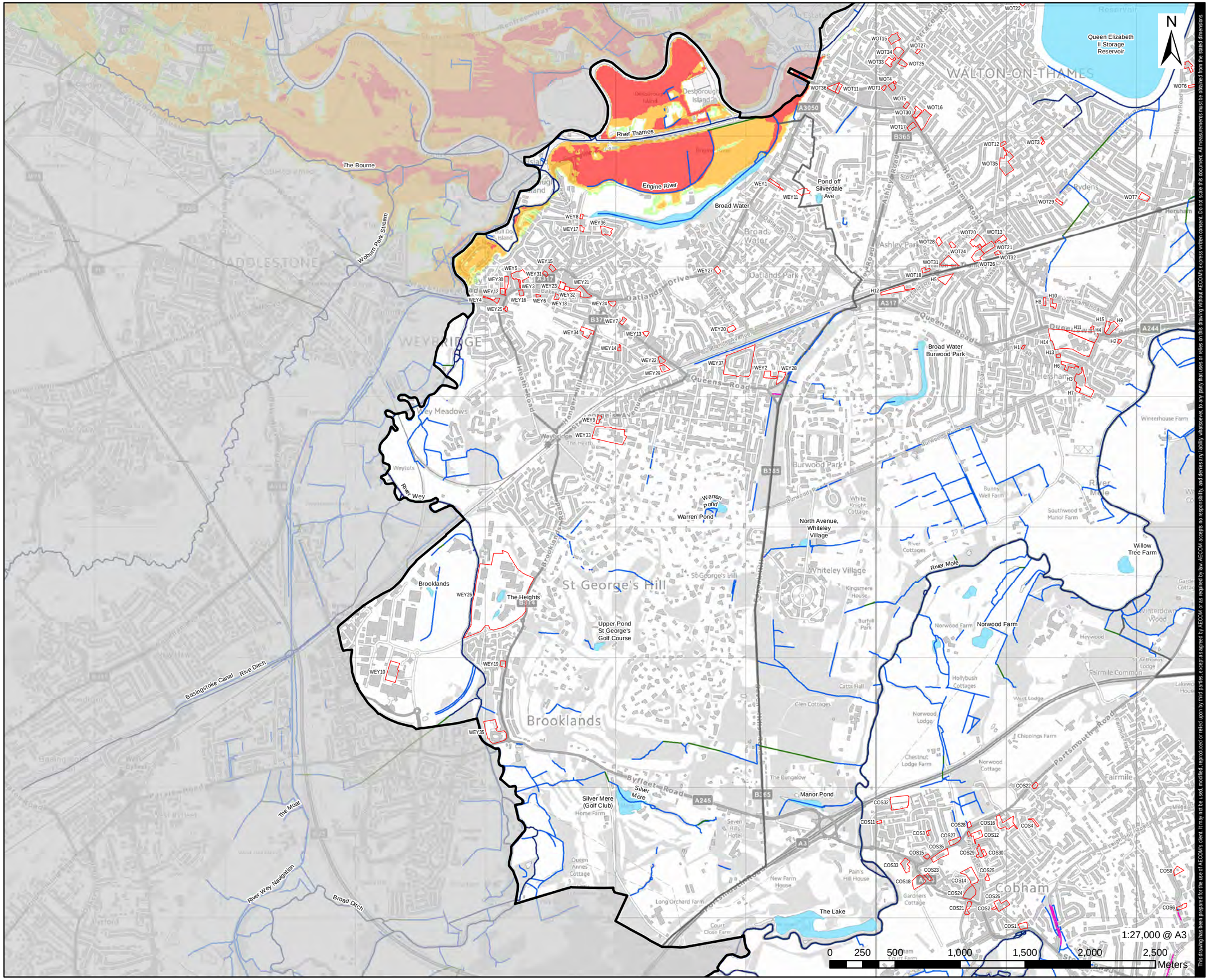

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

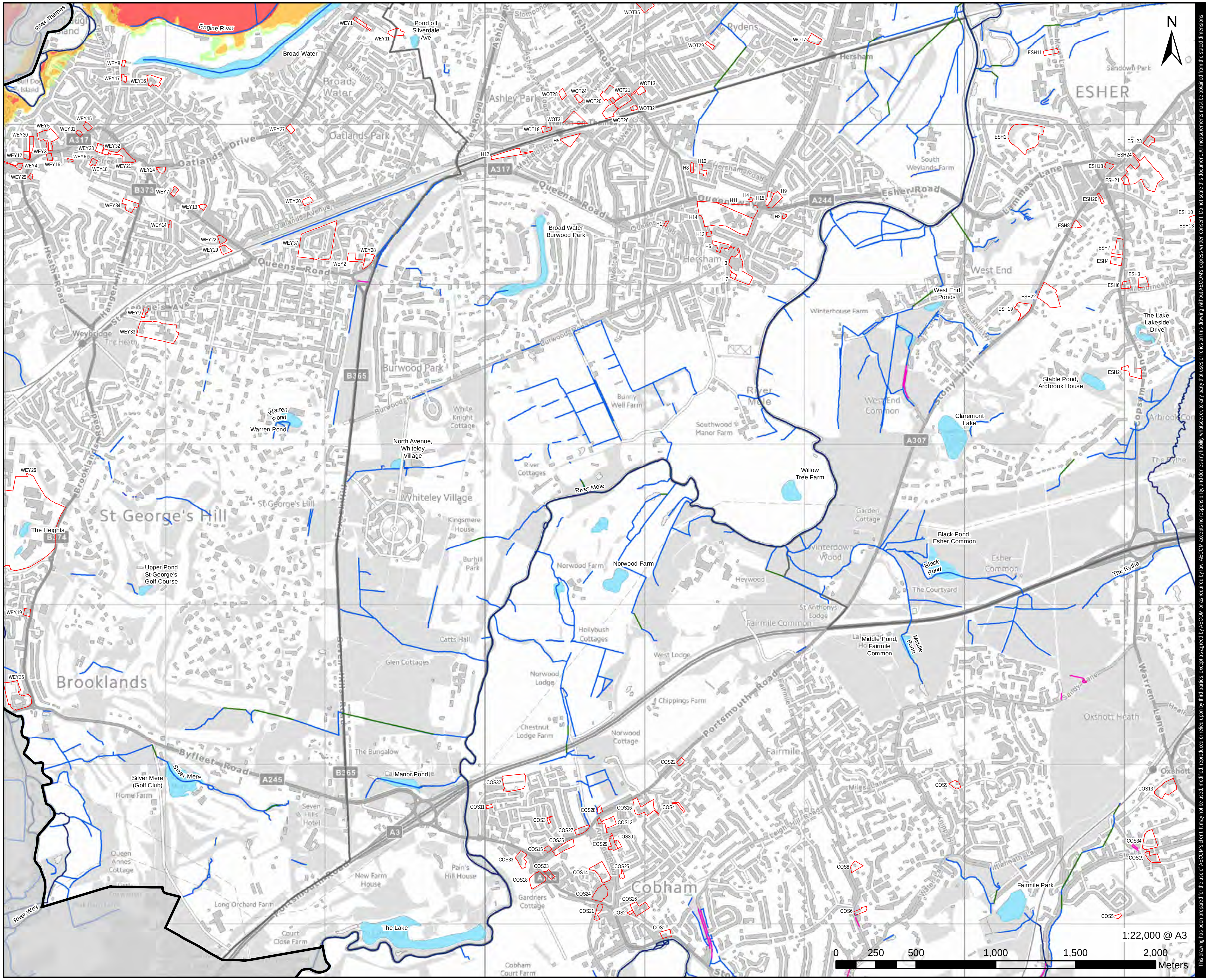
FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 4-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17



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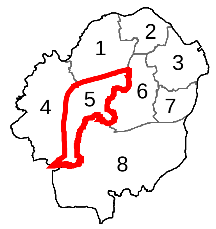

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Thames Dominated 2023 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

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PROJECT NUMBER

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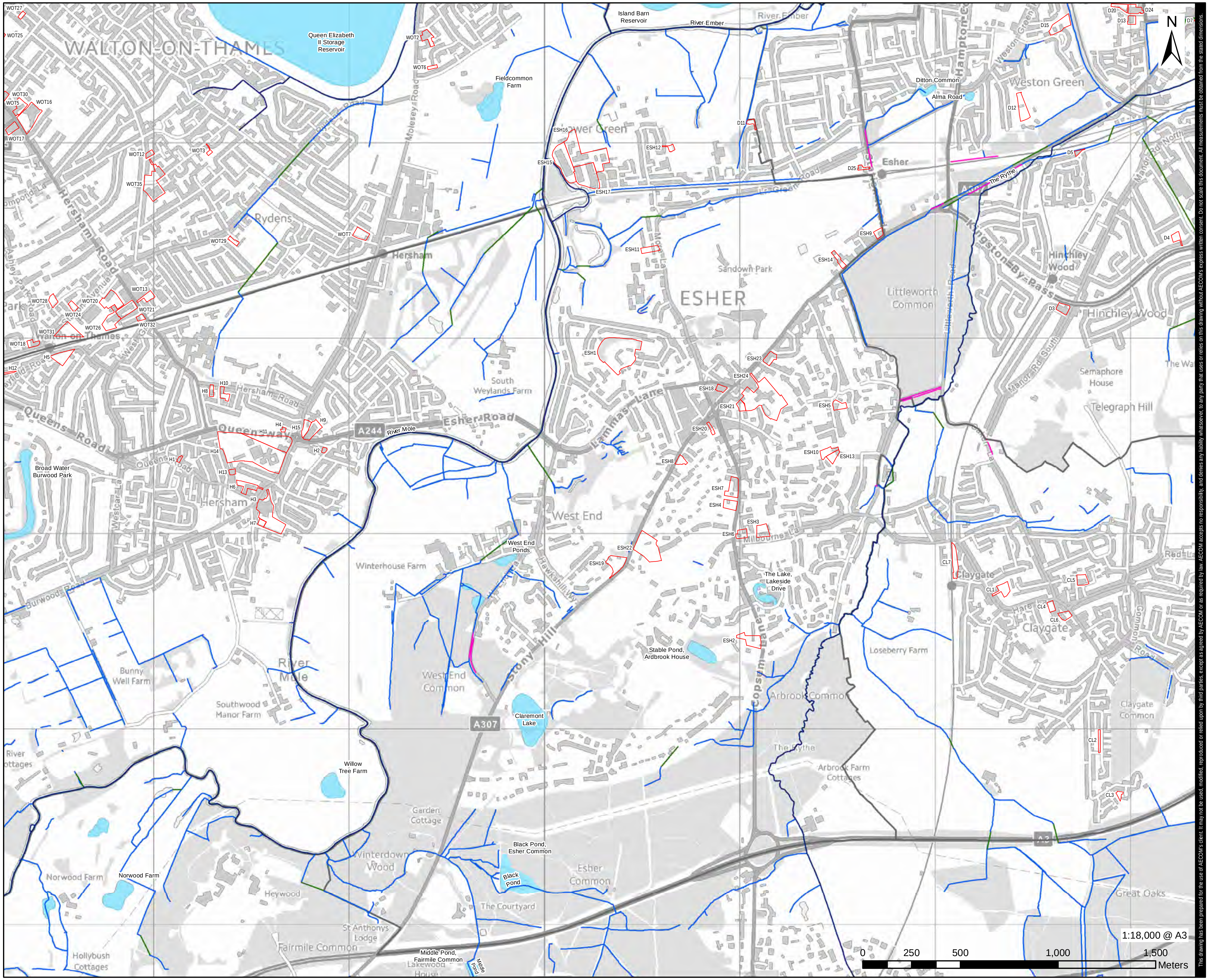
FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 4-5

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17



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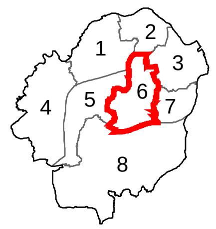

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 4-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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SETTLEMENT AREAS

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

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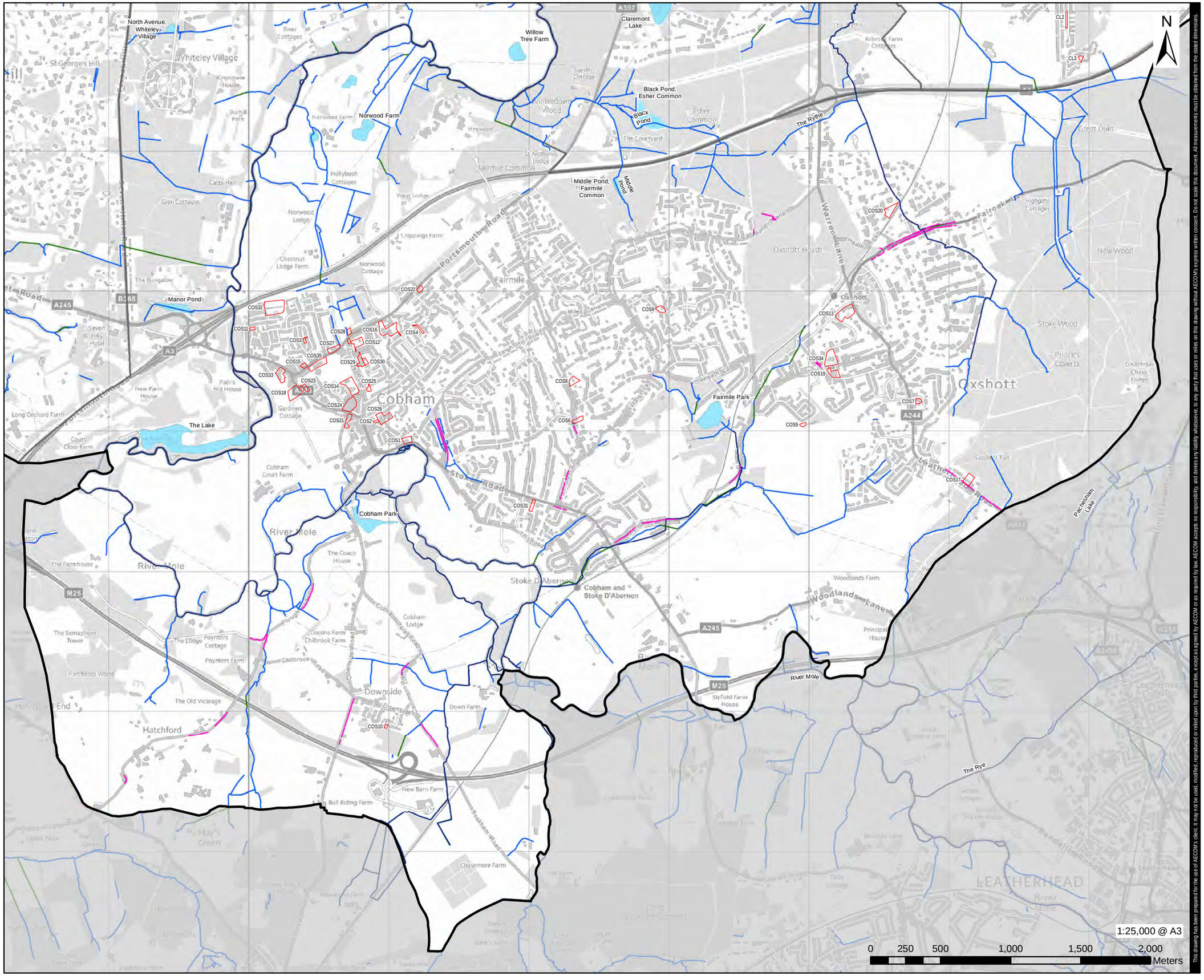
FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 4-7



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PROJECT

Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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Basingstoke, Hampshire
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www.aecom.com

SETTLEMENT AREAS

LEGEND

- ▭ Elmbridge Borough Council Boundary
- ▭ Settlement Areas
- 🟥 Allocation Sites
- — EA Main River
- — Open Ordinary Watercourses
- — Culverted Ordinary Watercourse
- — Surrey County Council Highways Ditch
- ▬ Surface Water Bodies

Hazard Rating

- 🟩 Low
- 🟨 Moderate
- 🟧 Significant
- 🟥 Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Thames Dominated 2023 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +35% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 4-8

Filename: \\na.aecomnet.com\lfs\EMEA\Basingstoke-UKBAS1\Legacy\UKBAS1PFILW001\4700 - Water\Water New\4 - PROJECTS\6056\60565750 Elmbridge SFRA update & WCS\900 GIS\Workspaces\SFRA L2\ElmbridgeSFRA_L2_Figure4_LowerThamesDom_Hazard35CC.mxd

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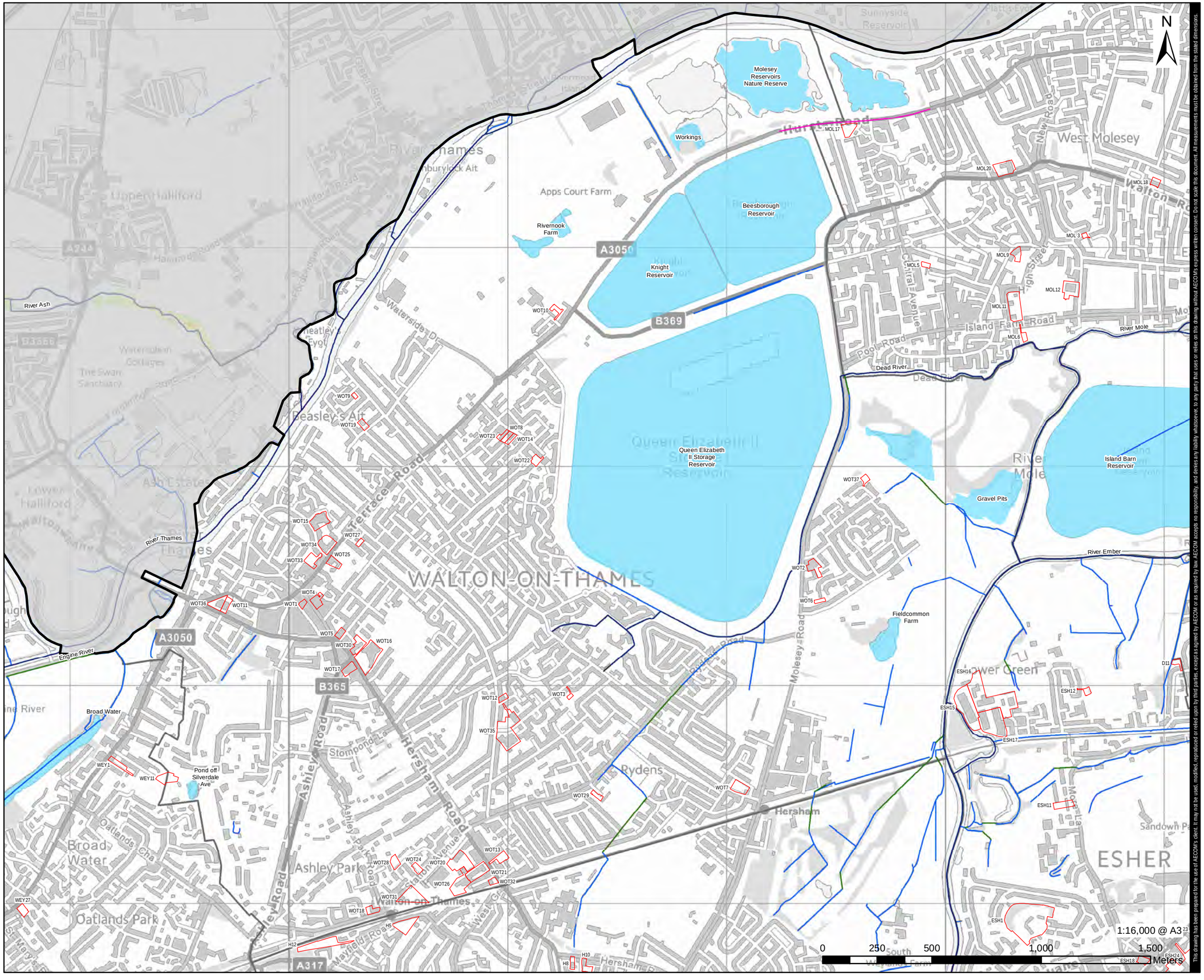

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 5-1

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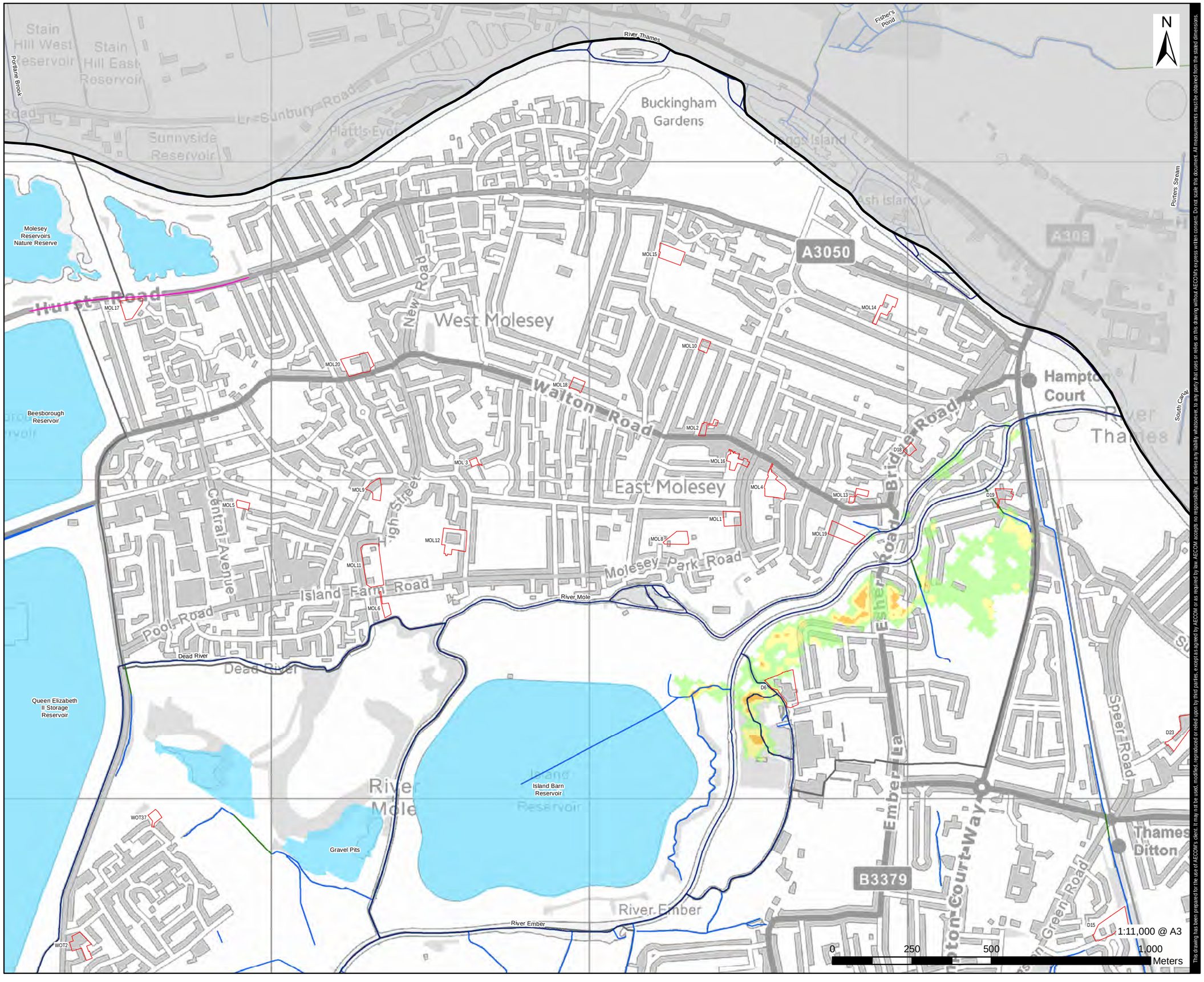

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 5-2

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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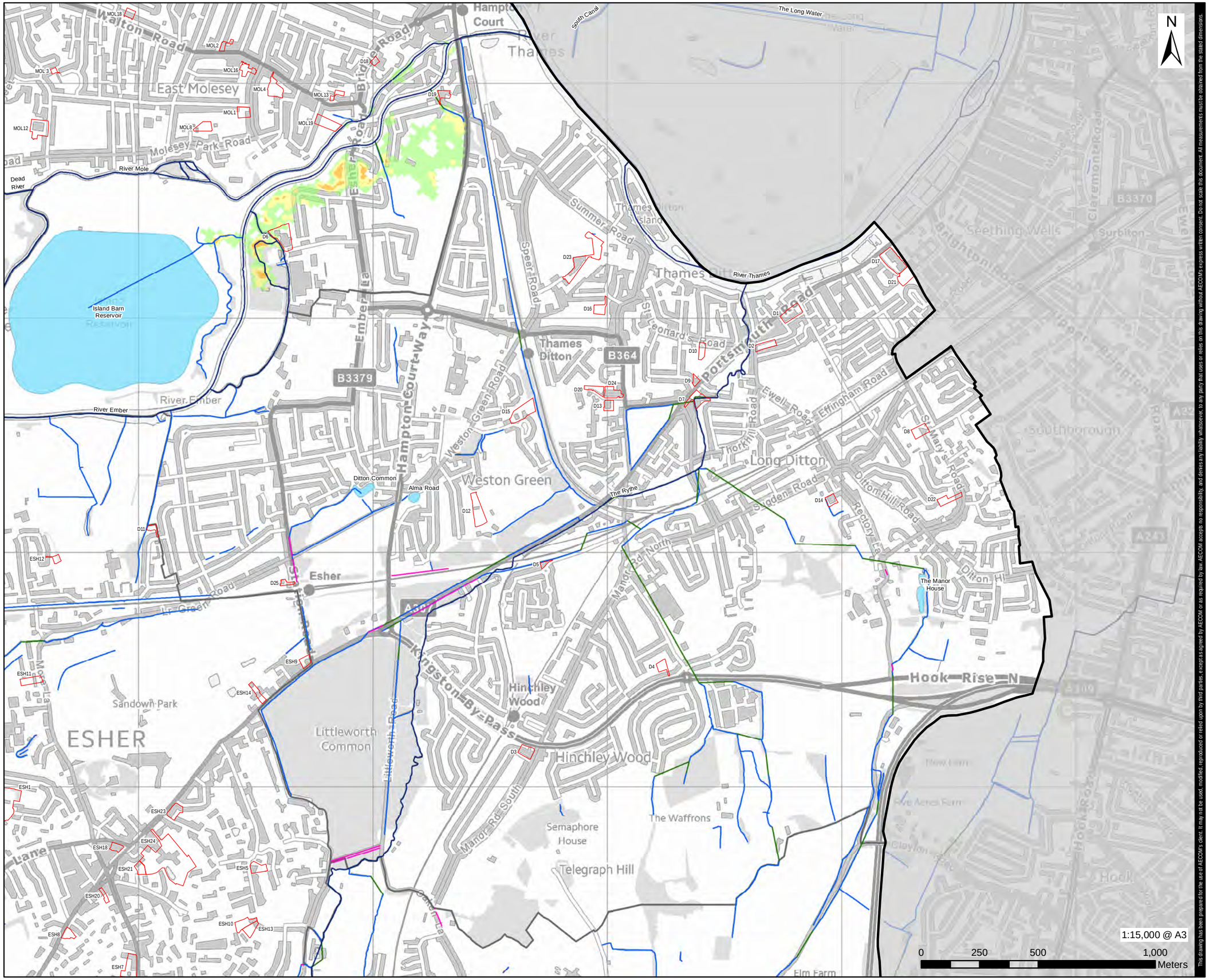

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 5-3

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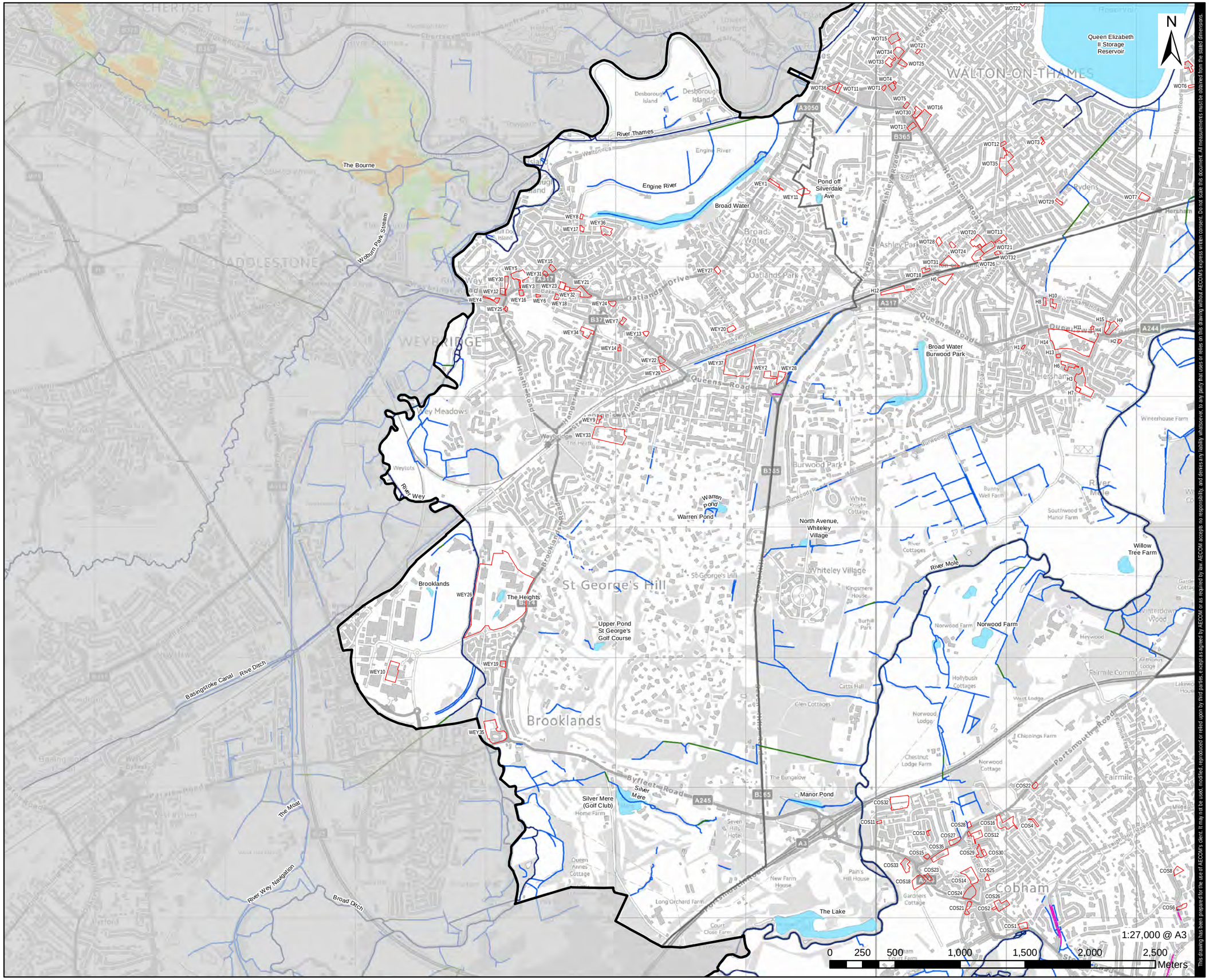

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

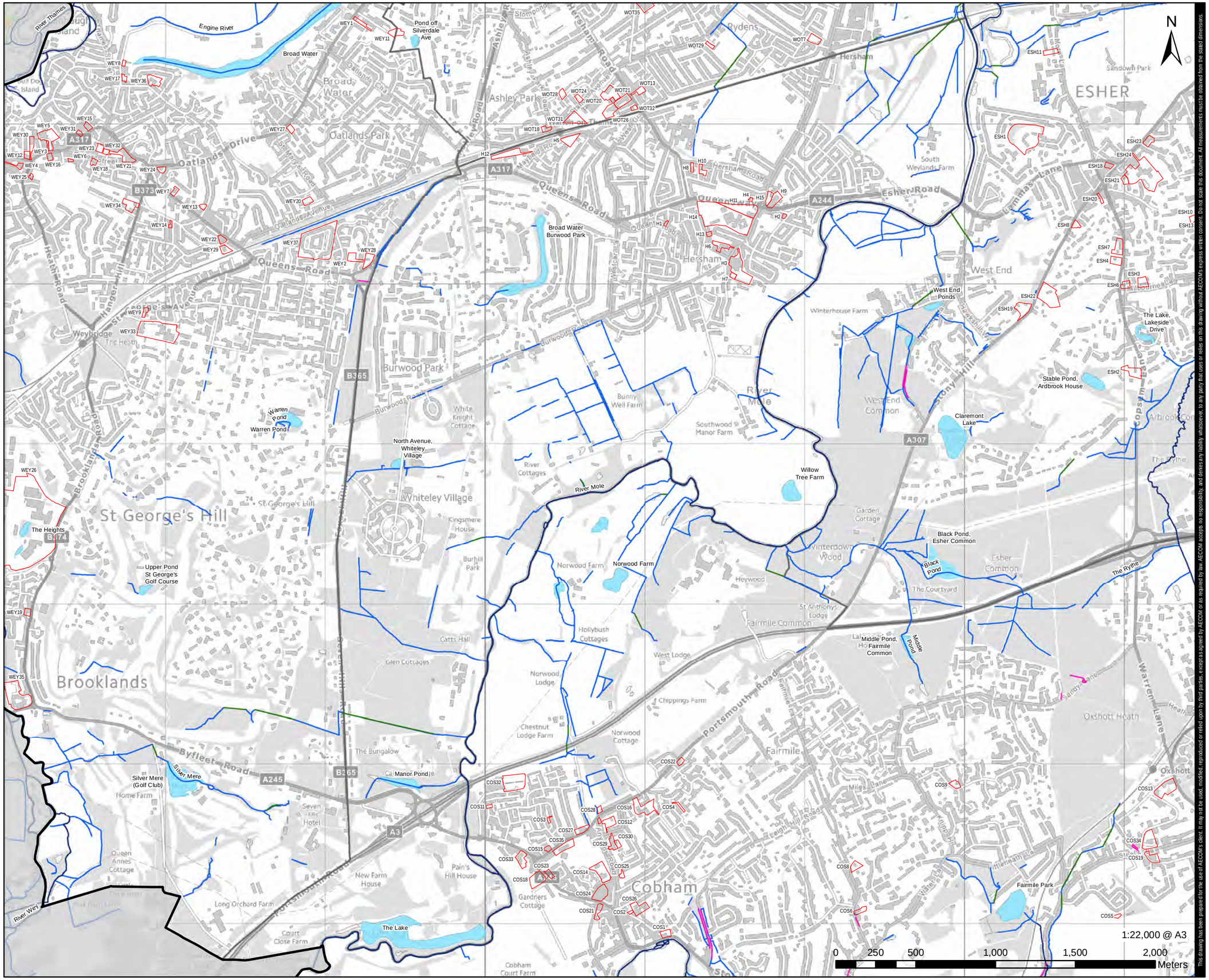
60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 5-4



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SETTLEMENT AREAS

LEGEND

▭	Elmbridge Borough Council Boundary
▭	Settlement Areas
▭	Allocation Sites
—	EA Main River
—	Open Ordinary Watercourses
—	Culverted Ordinary Watercourse
—	Surrey County Council Highways Ditch
🟦	Surface Water Bodies

Hazard Rating

🟩	Low
🟨	Moderate
🟧	Significant
🟥	Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Tributary Dominated 2023 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 5-5

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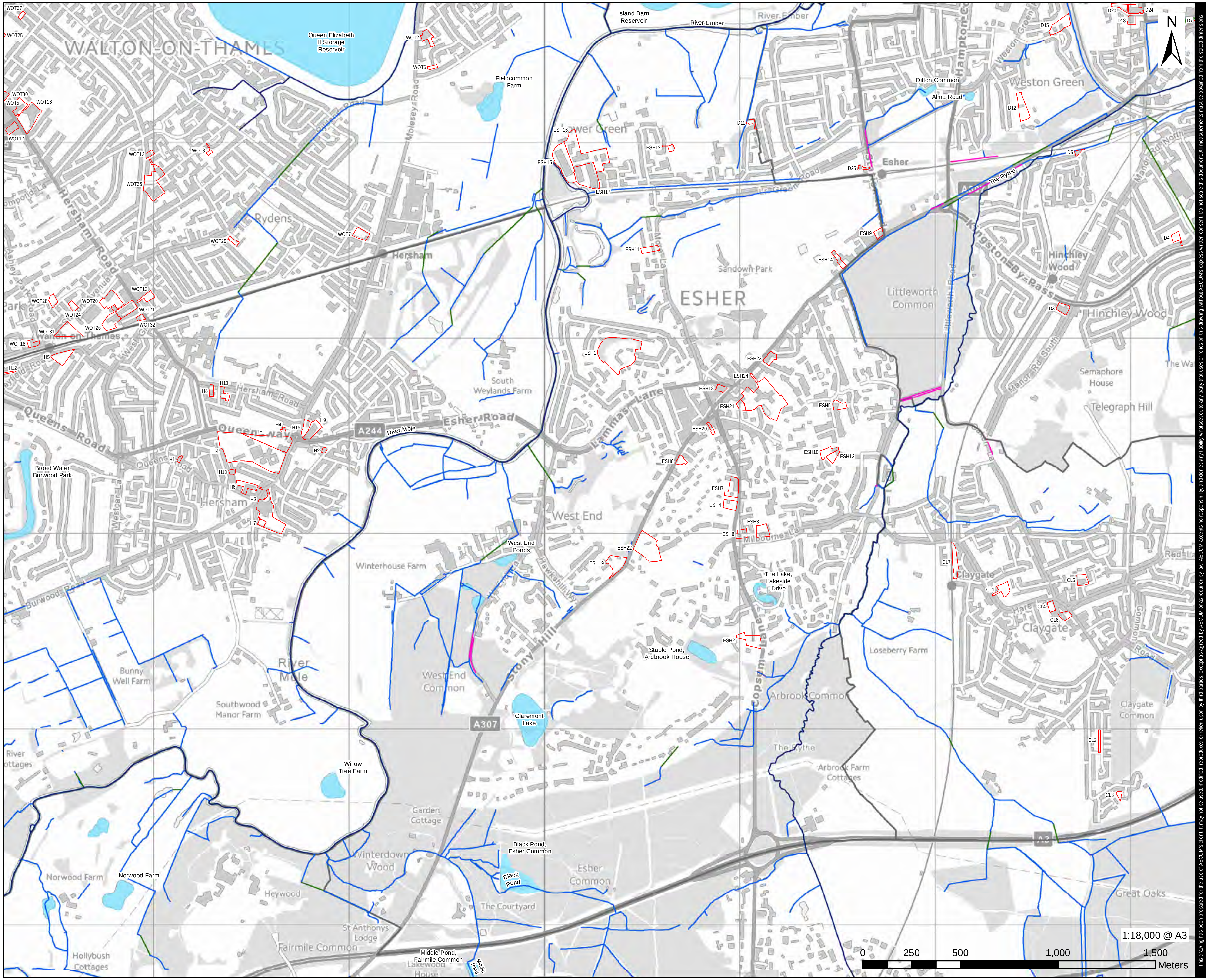

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Tributary Dominated 2023 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 5-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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SETTLEMENT AREAS

LEGEND

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- Settlement Areas
- Allocation Sites
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- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 5-7

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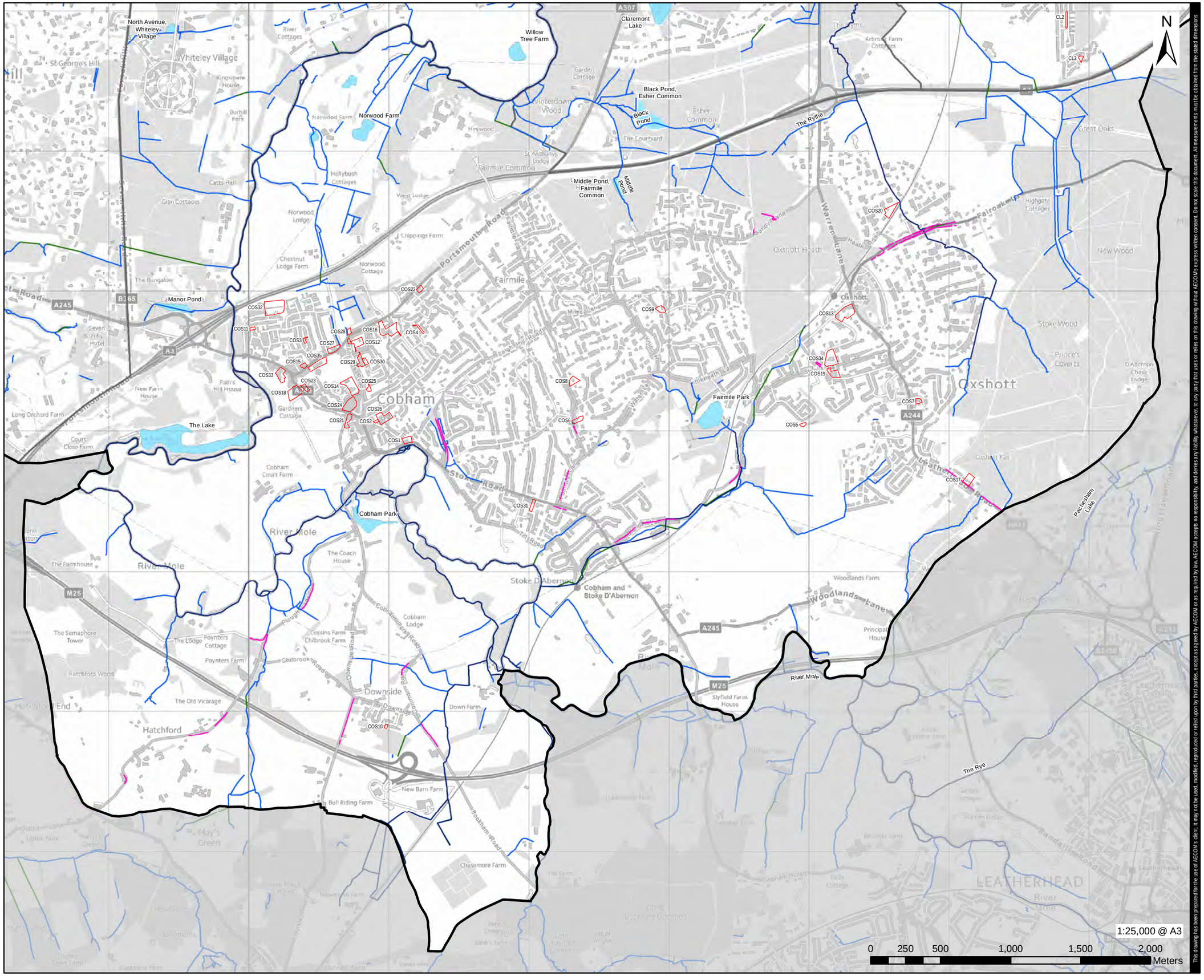

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SETTLEMENT AREAS

LEGEND

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- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +35% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 5-8

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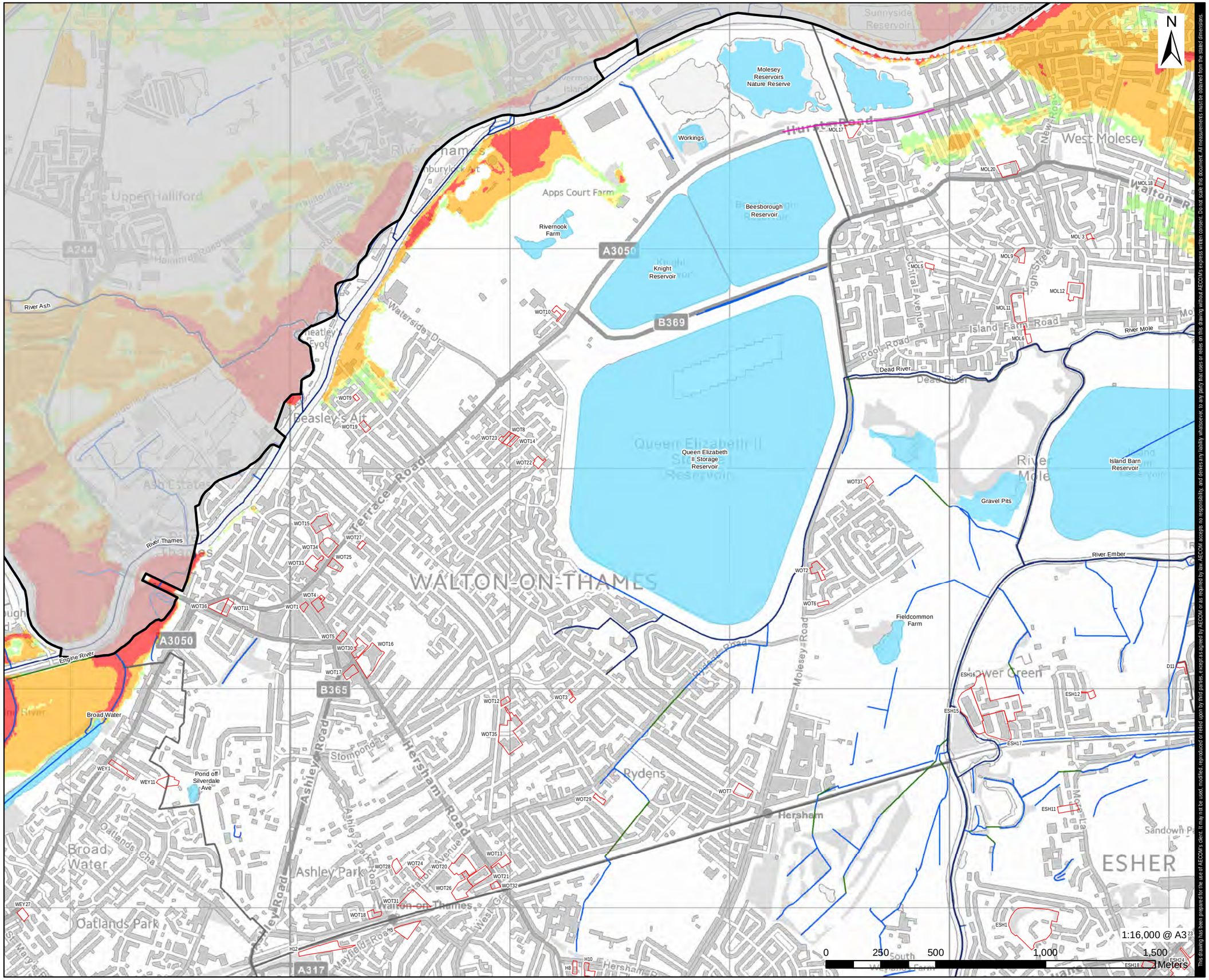

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SETTLEMENT AREAS

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- EA Main River
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- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Thames Dominated 2023 model during a 1% annual exceedence probability event (AEP) including an 81% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 6-1

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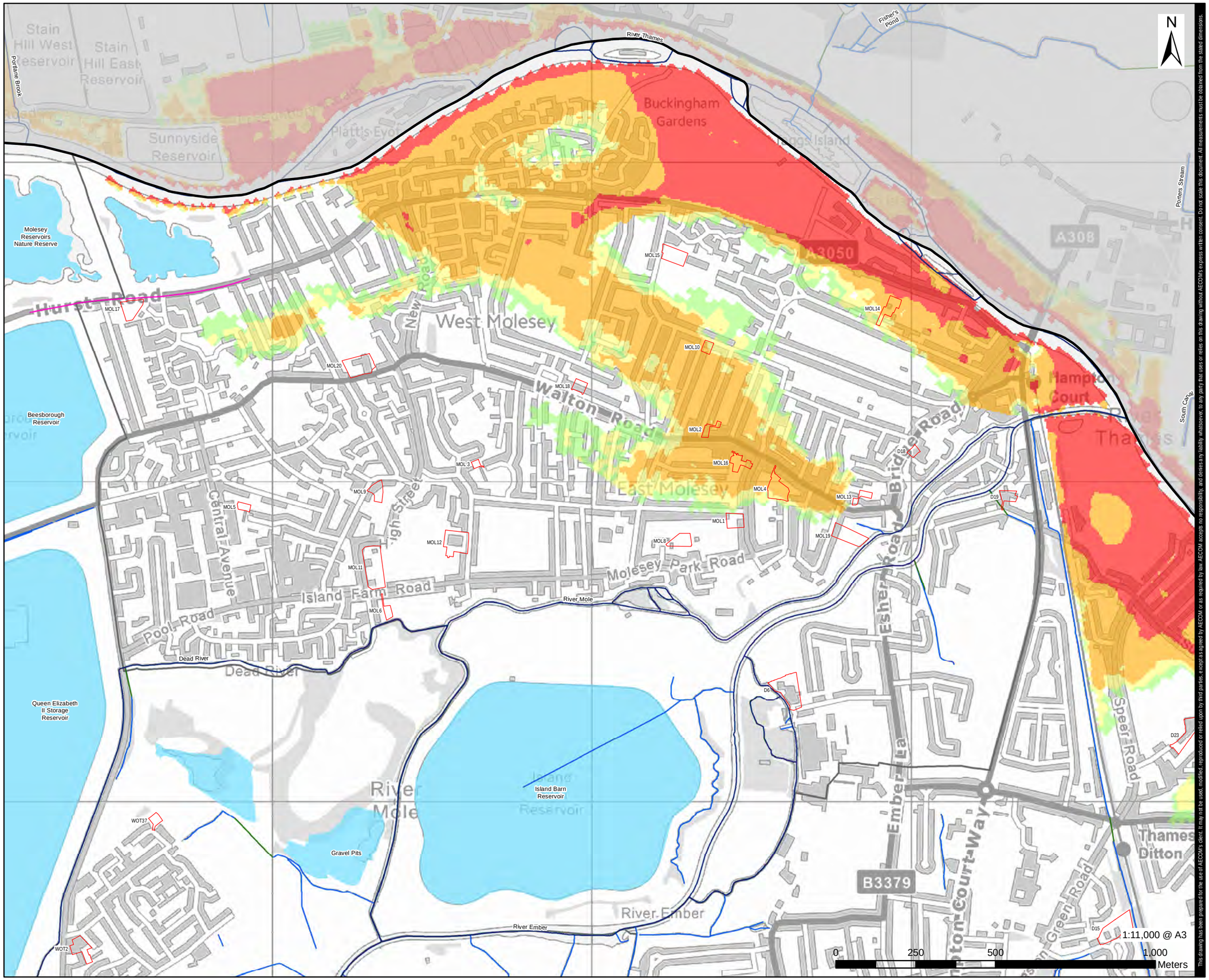

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- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

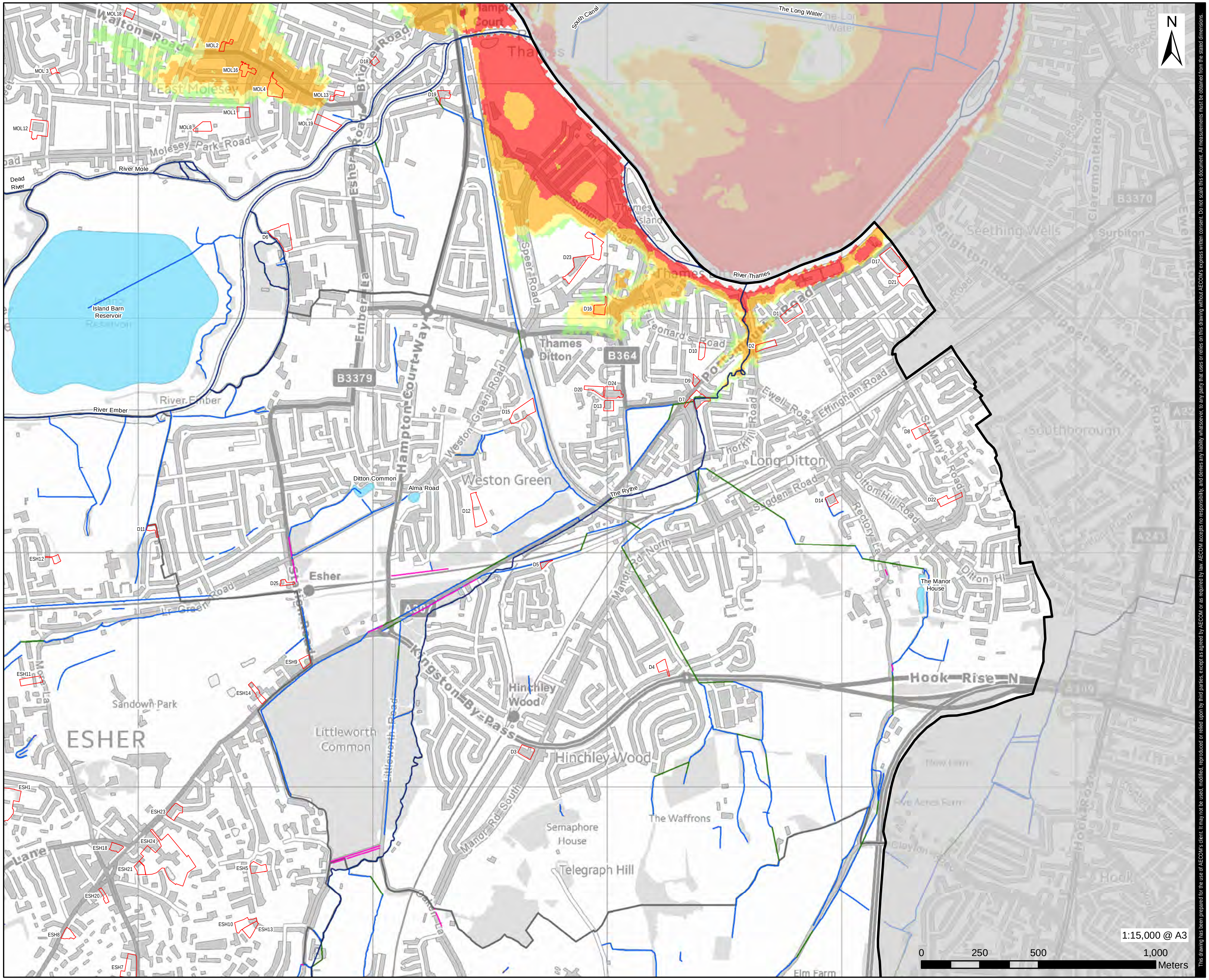
60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 6-2



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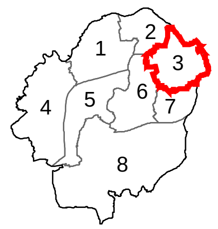
SETTLEMENT AREAS



LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

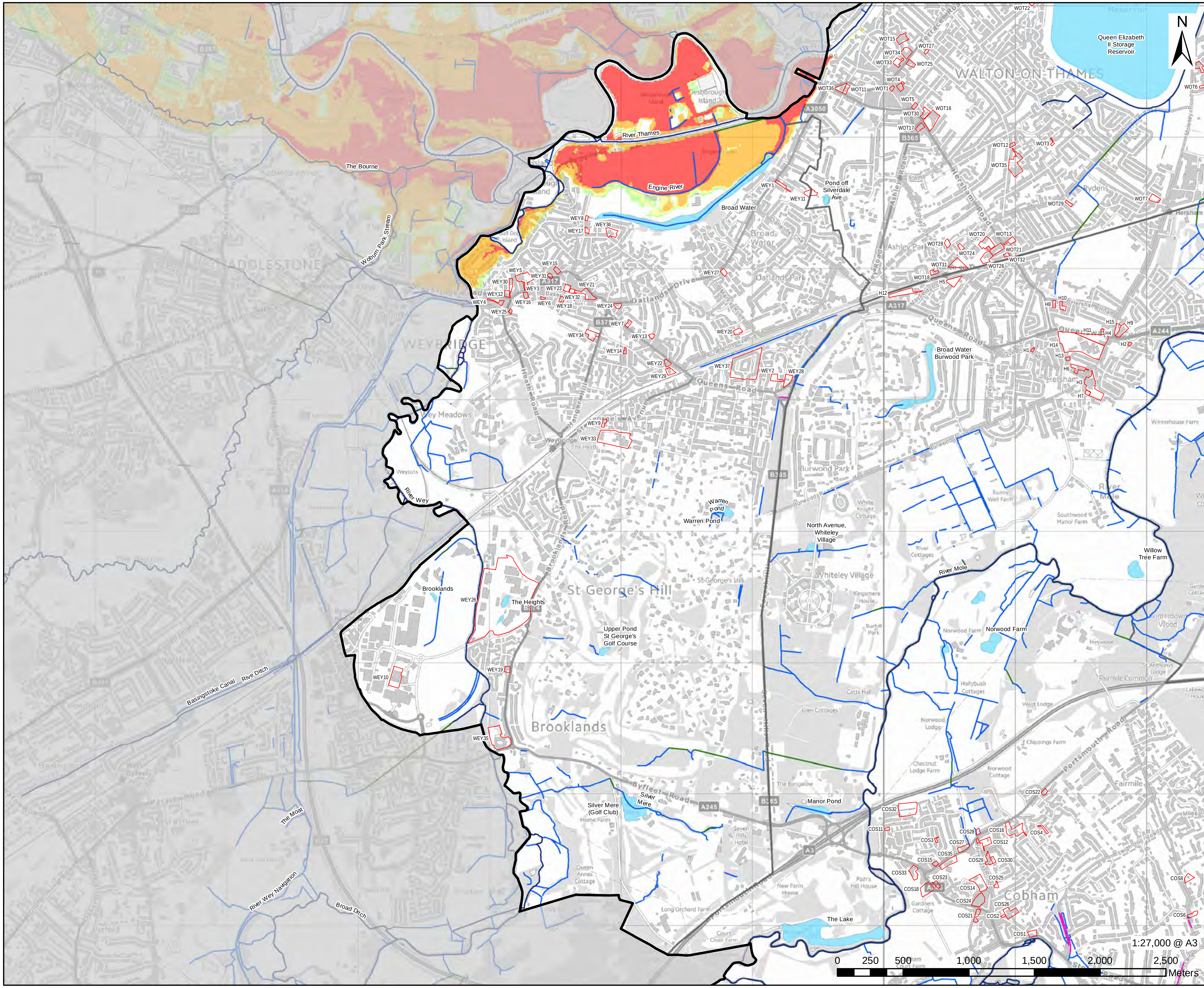
FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 6-3

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17



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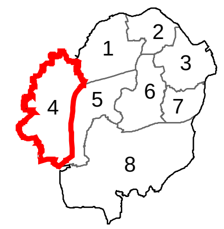
SETTLEMENT AREAS



LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 6-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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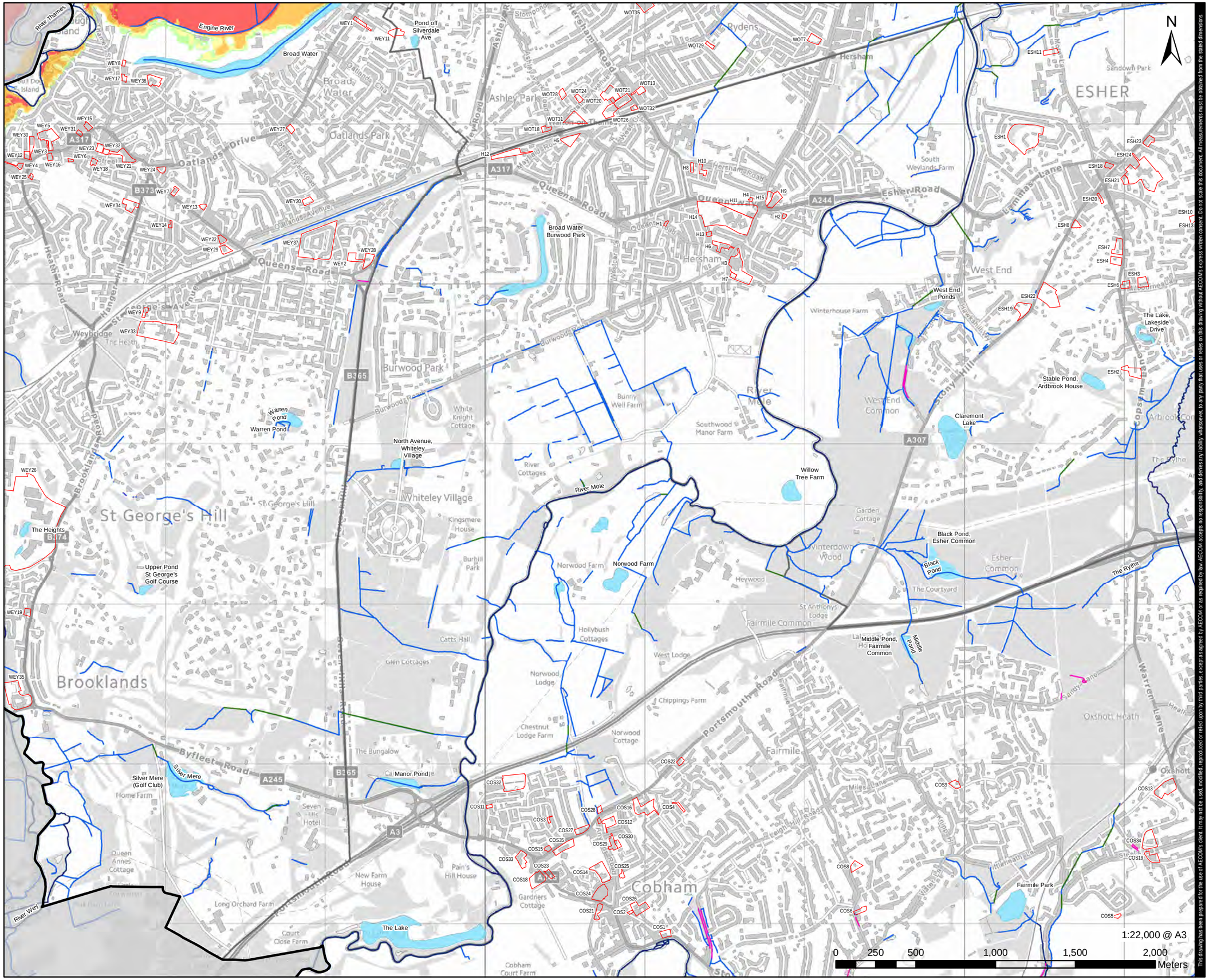

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 6-5

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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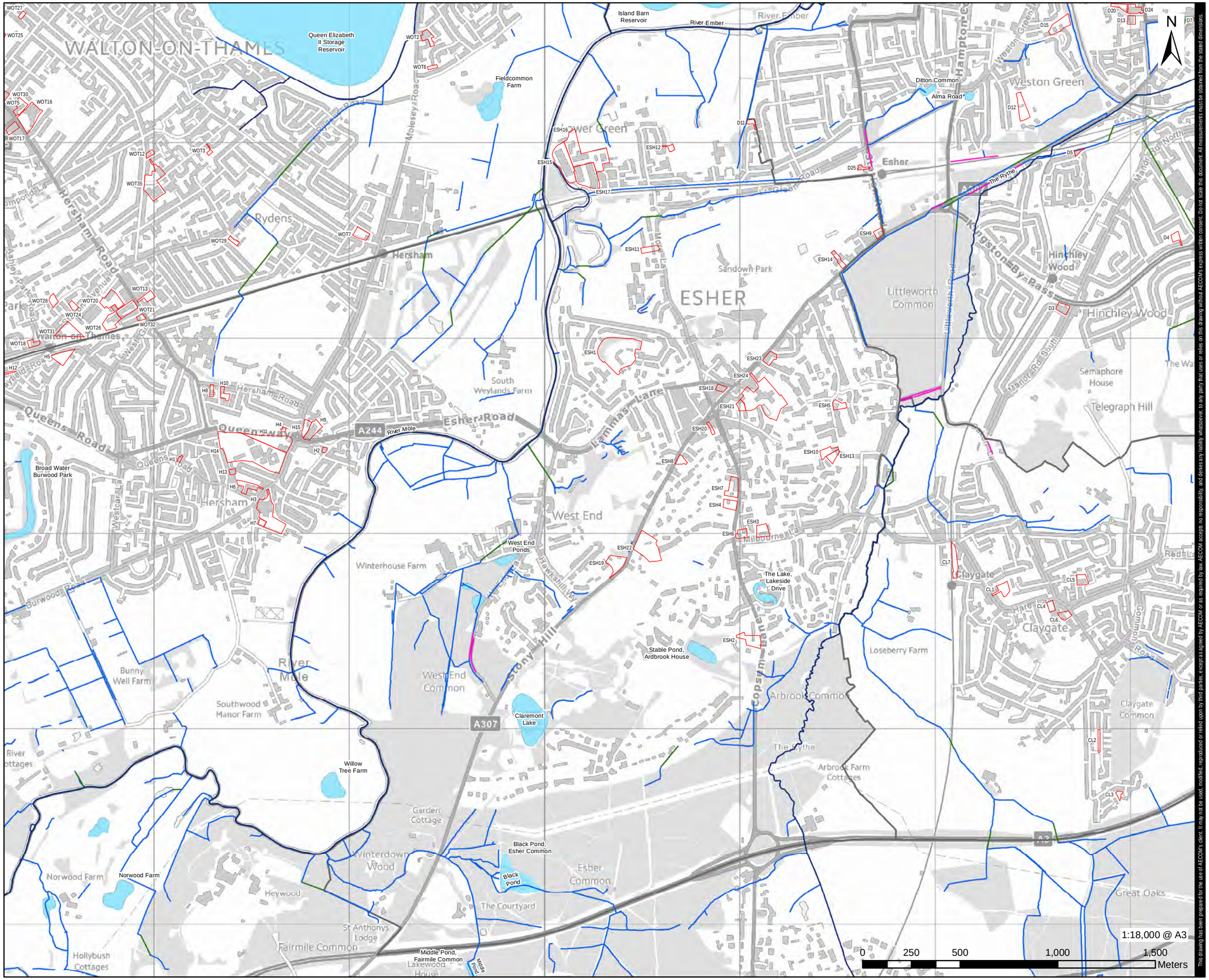

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

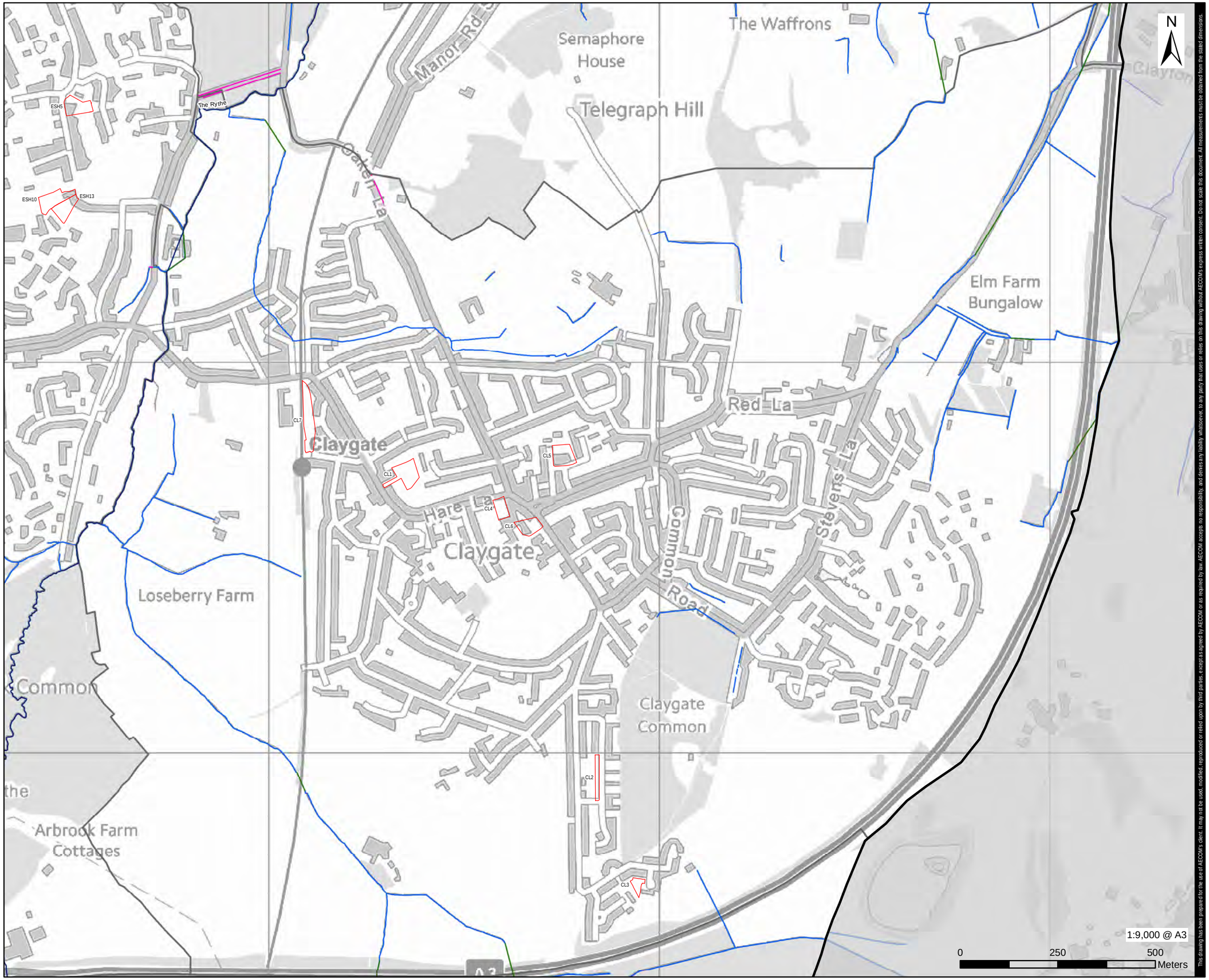
FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 6-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17



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LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 6-7

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Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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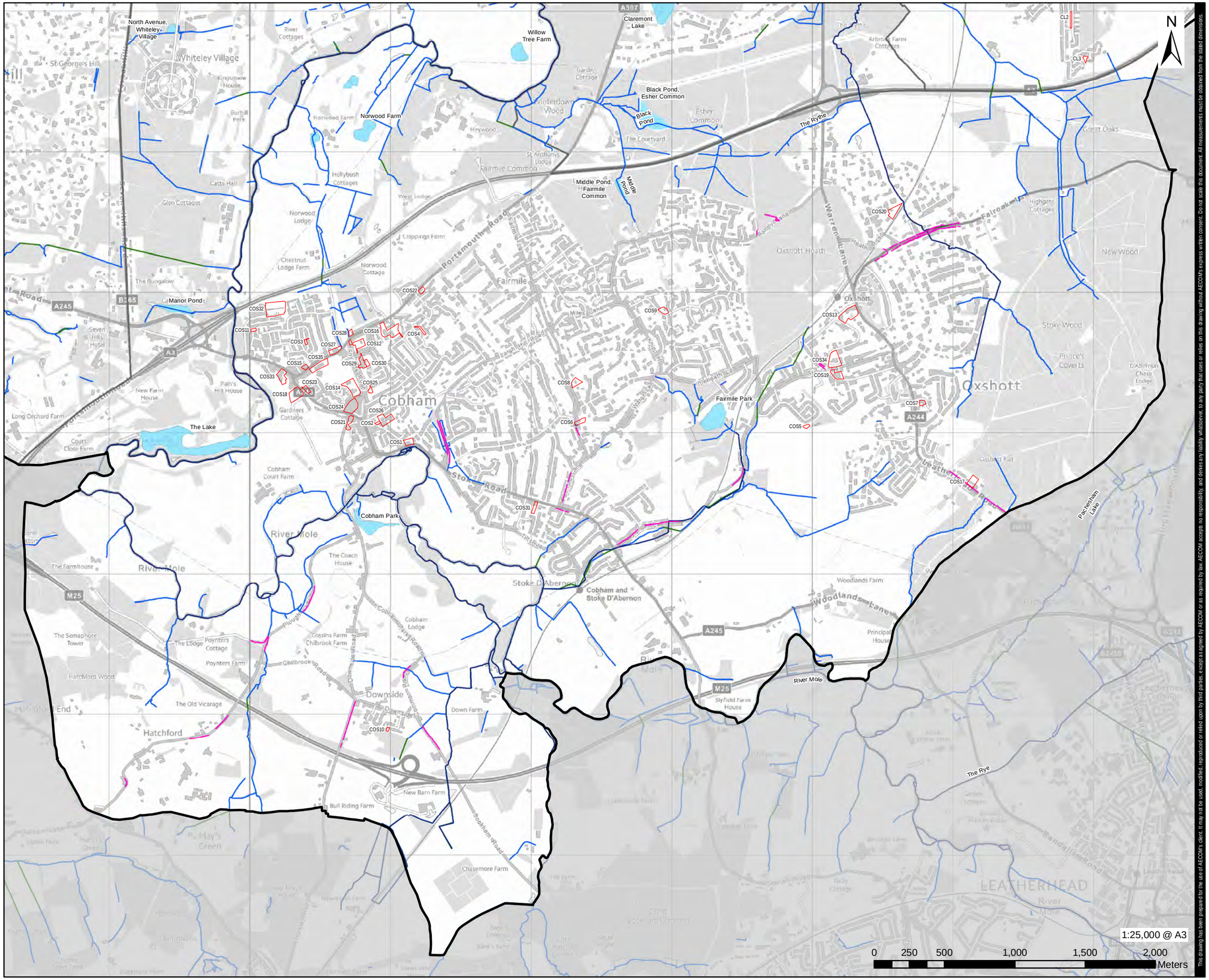

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Thames Dominated Hazard (1% AEP +81% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 6-8

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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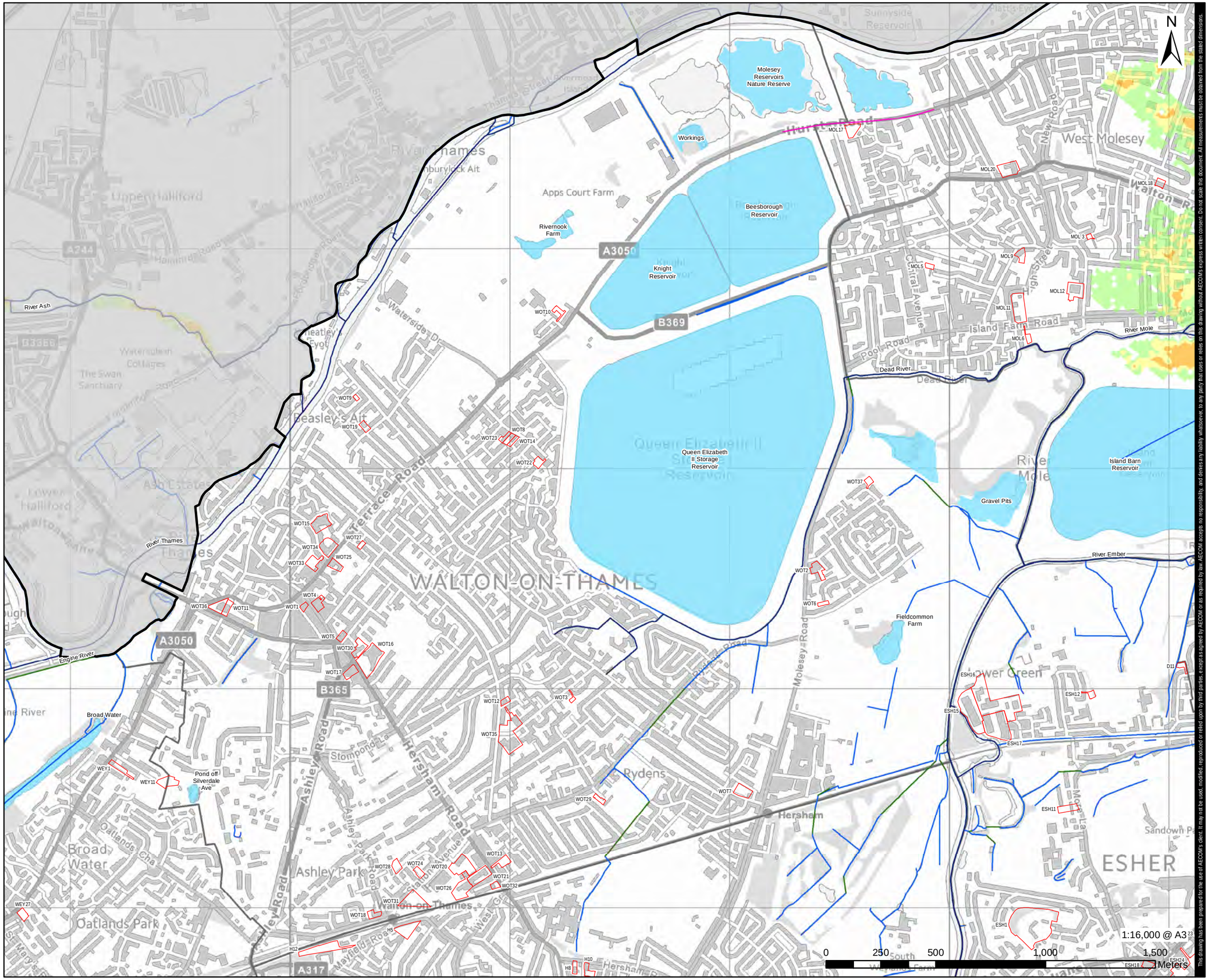

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 7-1

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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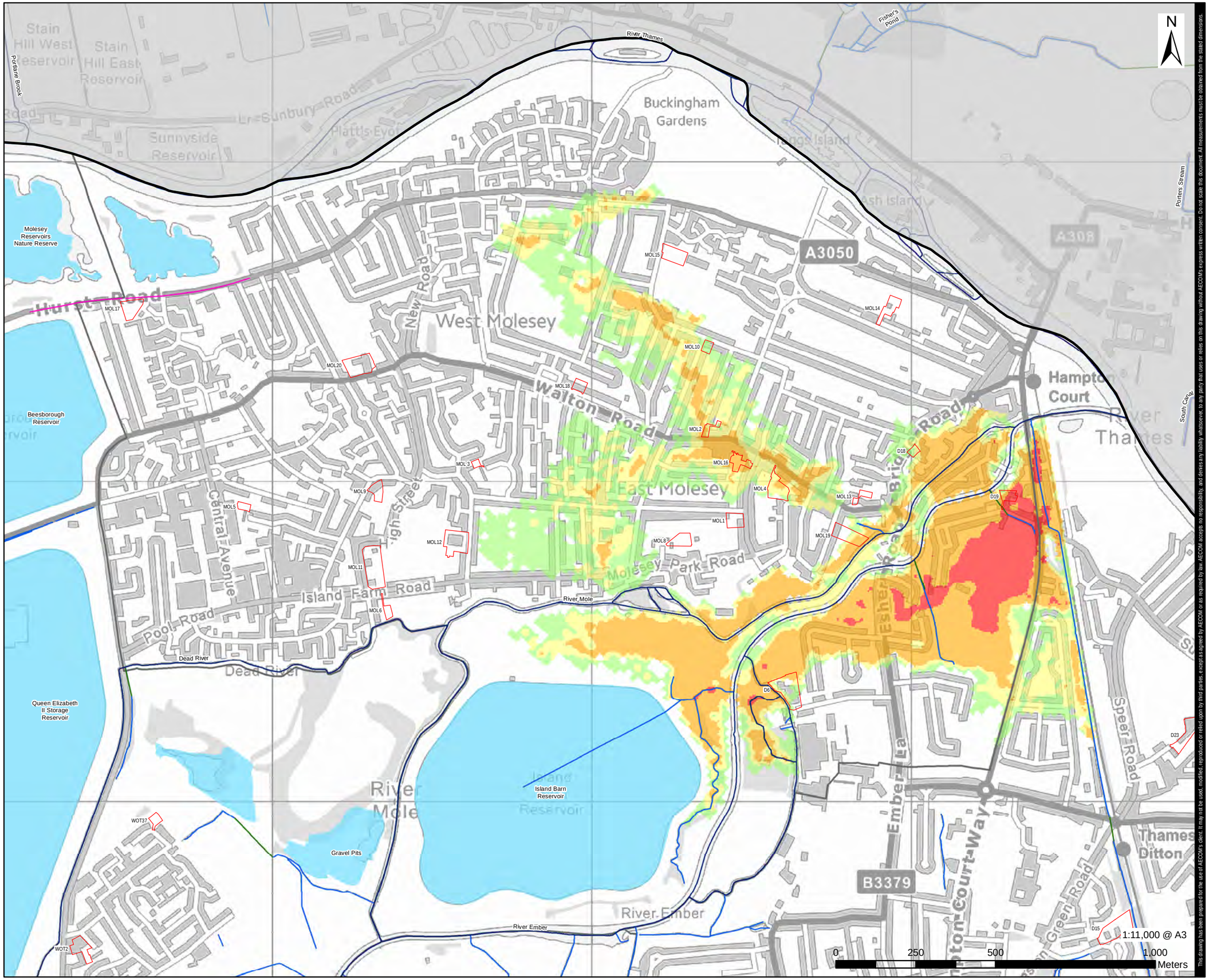

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SETTLEMENT AREAS

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- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 7-2

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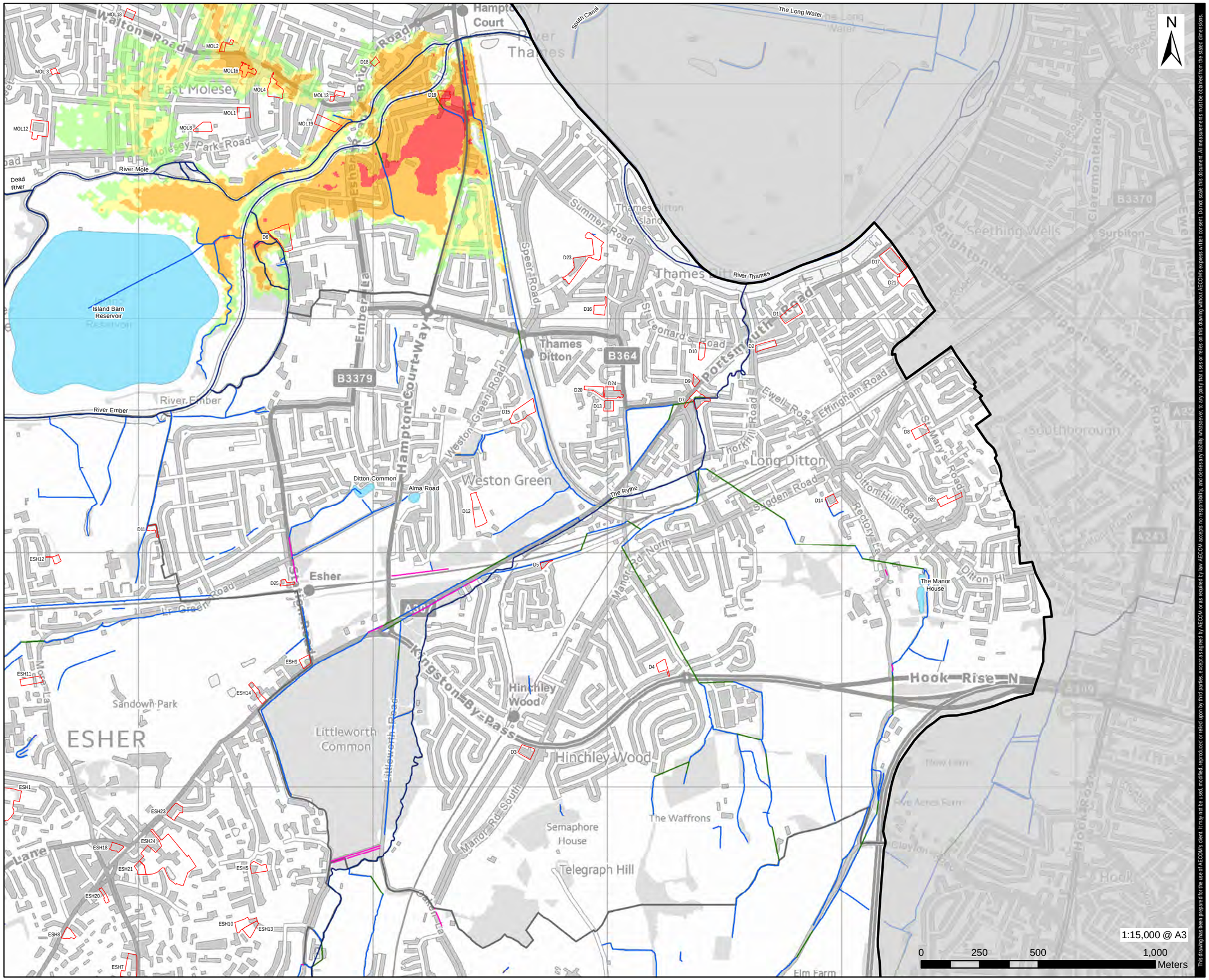

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LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 7-3

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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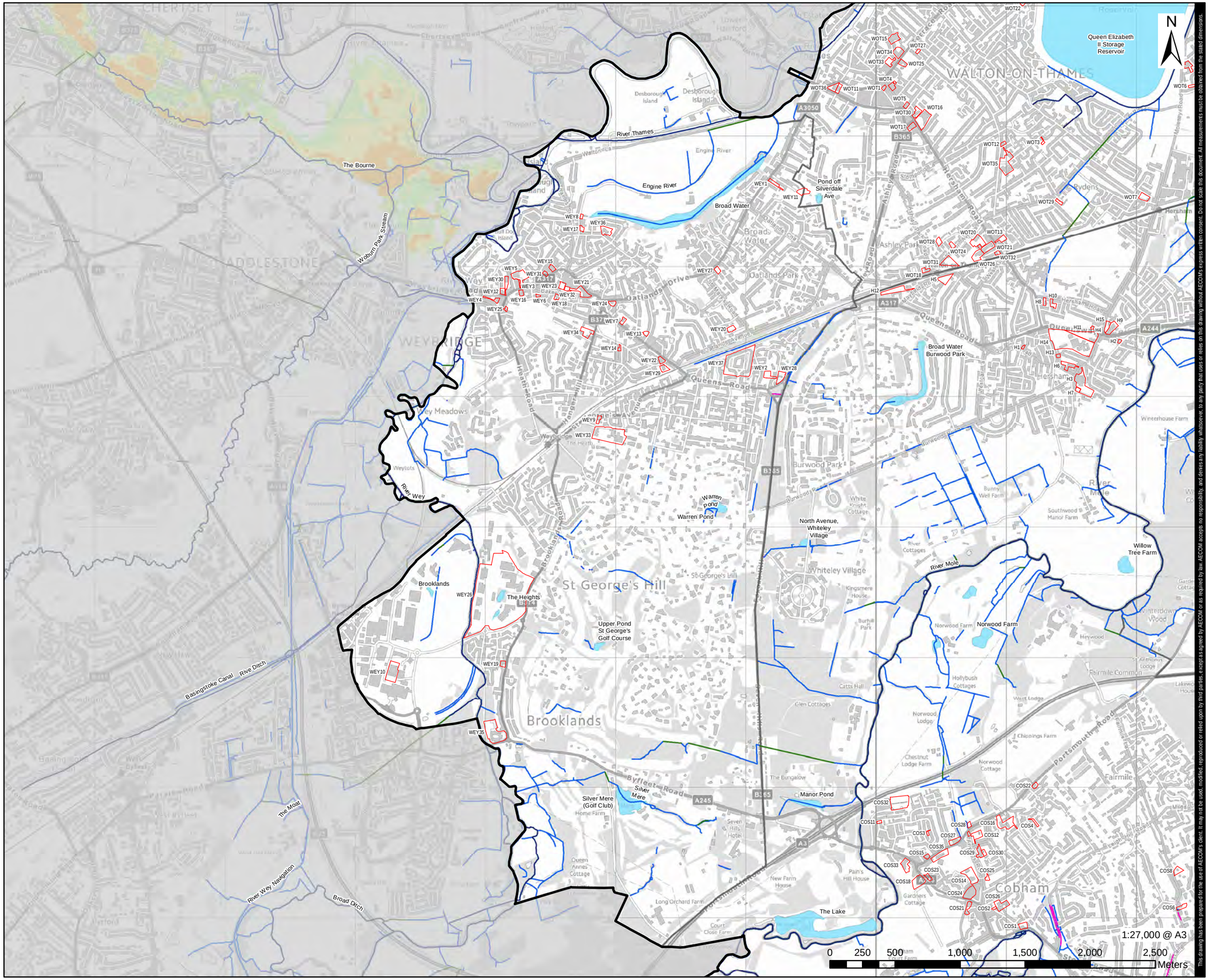

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SETTLEMENT AREAS

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Hazard Rating

- Low
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- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 7-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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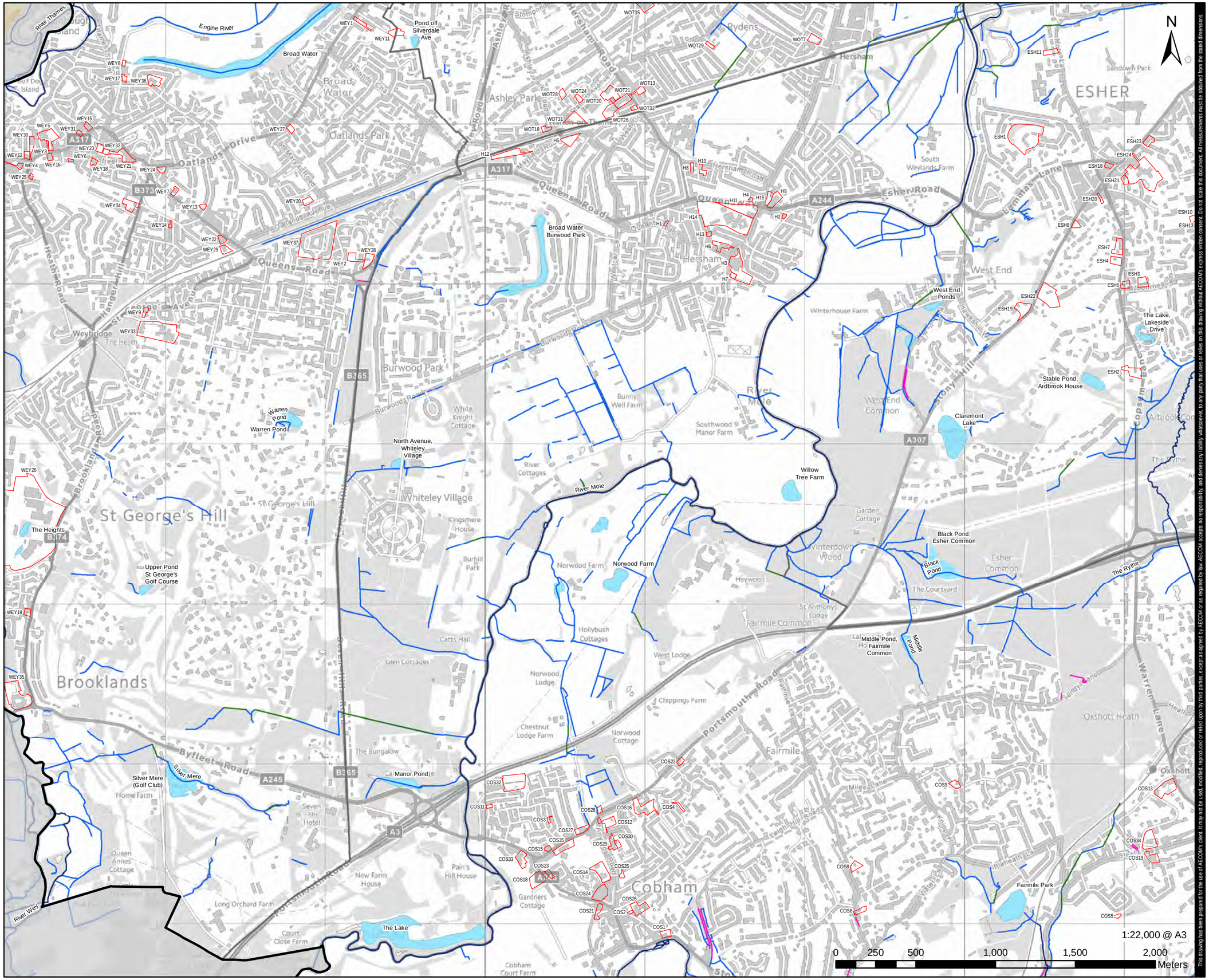

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Hazard Rating

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 7-5

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17

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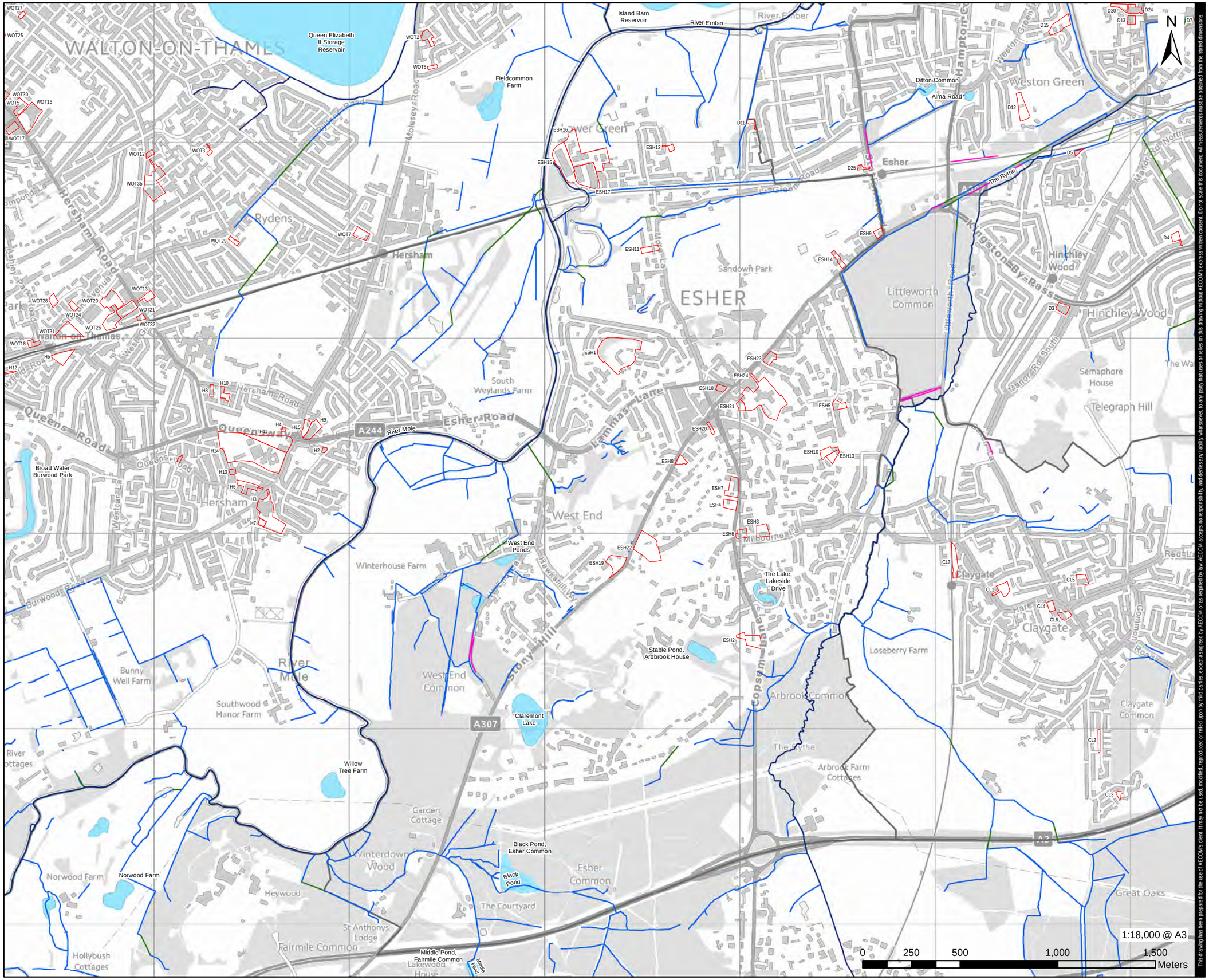

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SETTLEMENT AREAS

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- Surface Water Bodies

Hazard Rating

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- Moderate
- Significant
- Extreme

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ISSUE PURPOSE

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PROJECT NUMBER

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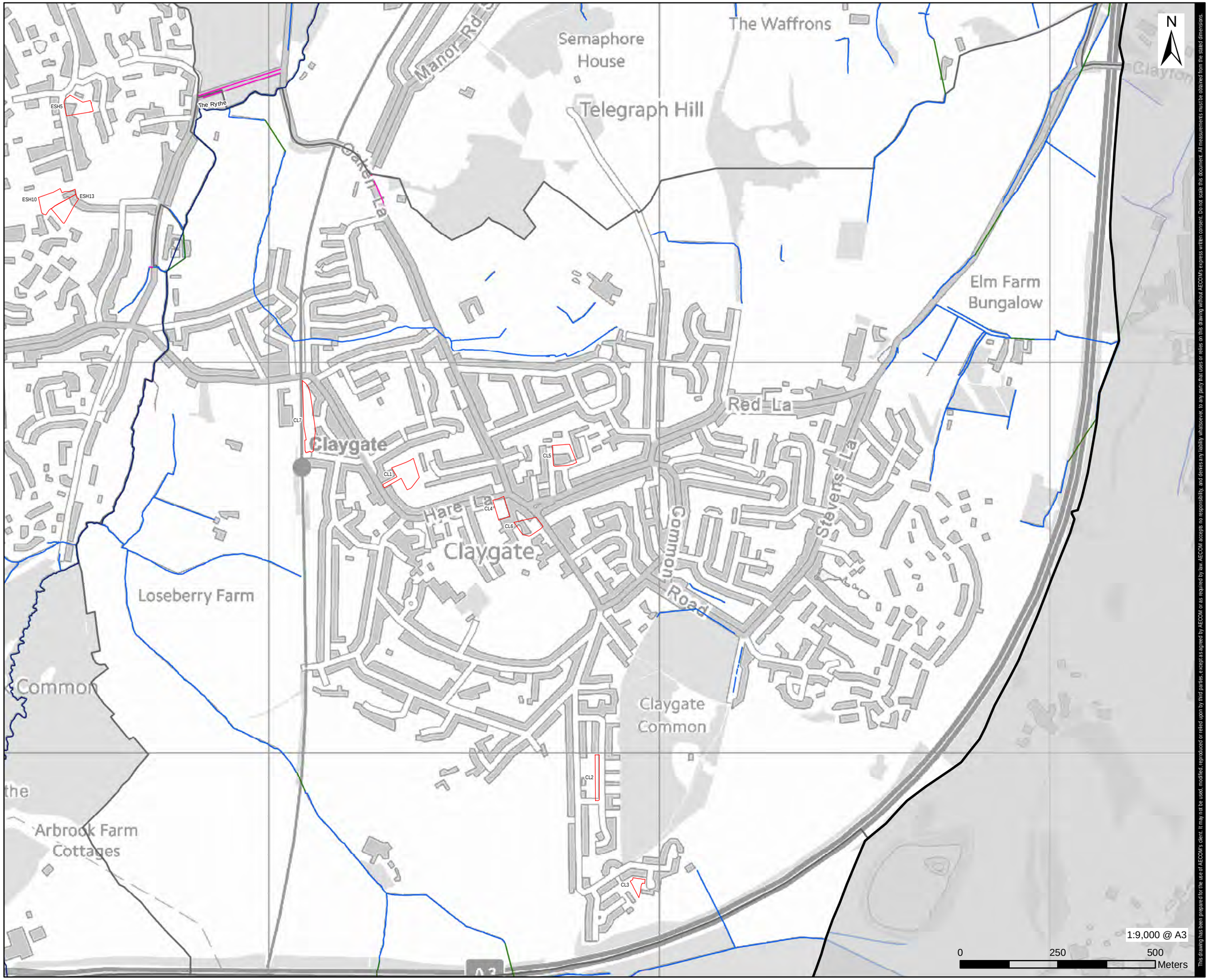
FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 7-6



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PROJECT

Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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

SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Tributary Dominated 2023 model during a 1% annual exceedence probability event (AEP) including an 81% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 7-7

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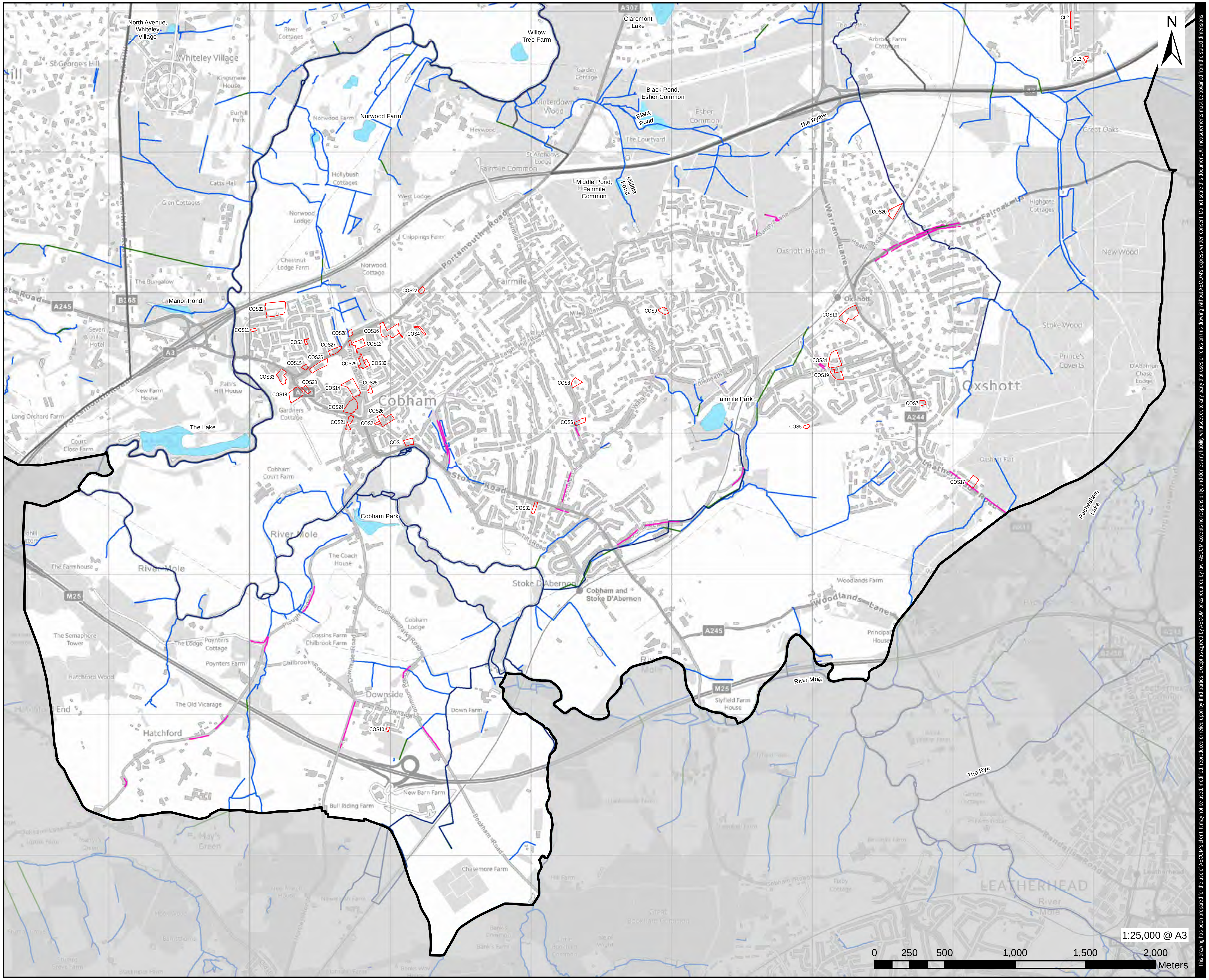
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-17



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www.aecom.com

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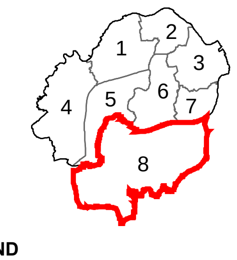

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Thames: Tributary Dominated 2023 model during a 1% annual exceedence probability event (AEP) including an 81% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

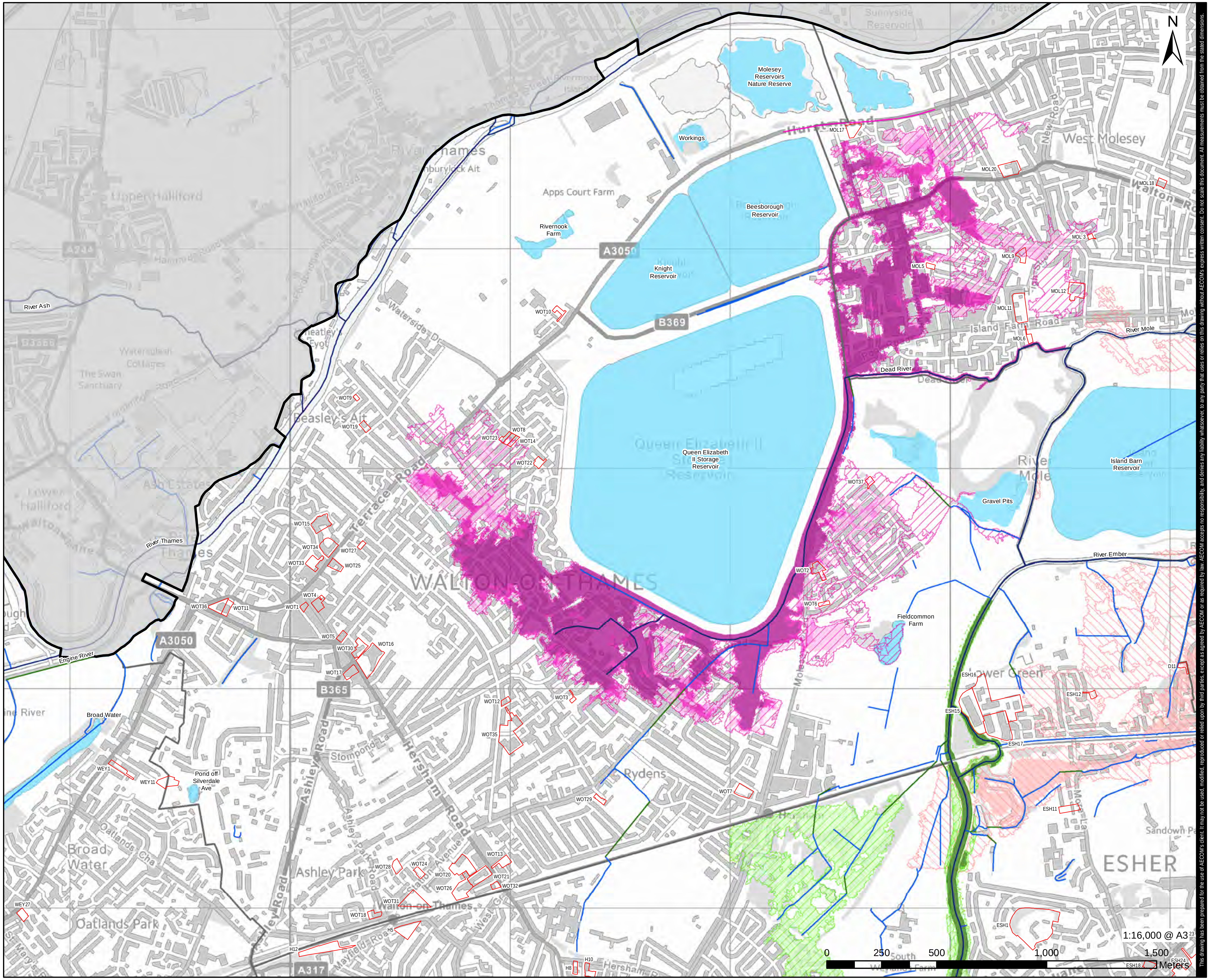
FIGURE TITLE

Lower Thames: Tributary Dominated Hazard (1% AEP +81% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 7-8

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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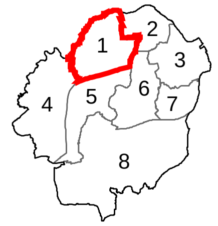

LEGEND

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

Lower Wey (2009 Model)
- 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 (2018 Model)
- 1% AEP
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Lower Mole (2009 Model)
- 1% AEP +20% CC
- 0.1% AEP

River Rythe (2016 Model)
- 1% AEP
- 1% AEP +20% CC
- 0.1% AEP

Dead River (2013/2017 Model)
- 1% AEP
- 1% AEP +20% CC
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

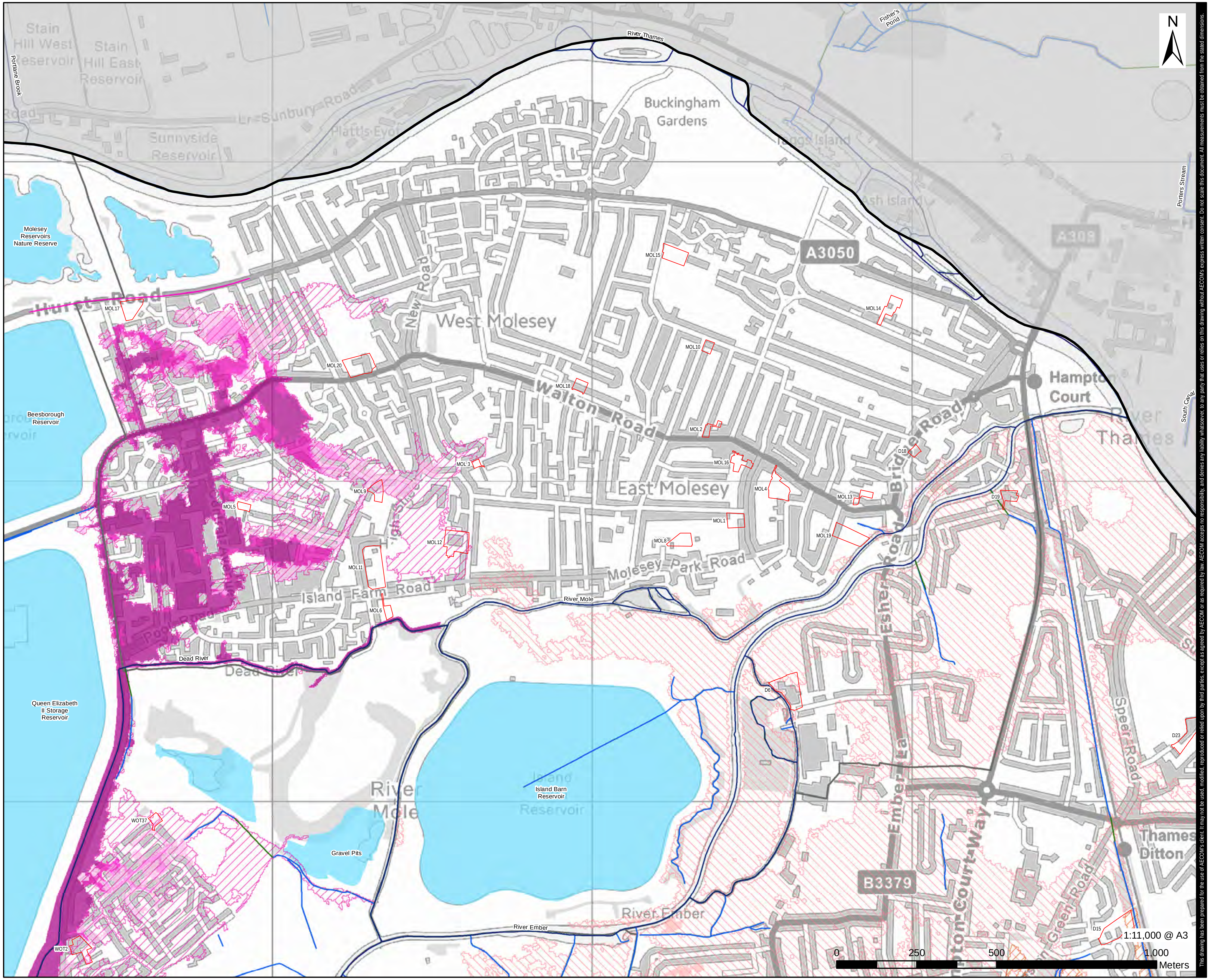
FIGURE TITLE

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

FIGURE NUMBER

Figure 8-1

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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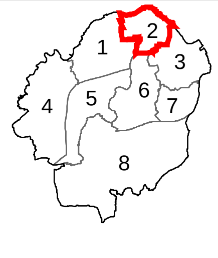

LEGEND

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

Lower Wey (2009 Model)
- 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 (2018 Model)
- 1% AEP
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Lower Mole (2009 Model)
- 1% AEP +20% CC
- 0.1% AEP

River Rythe (2016 Model)
- 1% AEP
- 1% AEP +20% CC
- 0.1% AEP

Dead River (2013/2017 Model)
- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Dead River, Lower Mole, Middle Mole, River Rythe and Lower Wey. Refer to the SFRA Report for further detail of the modelling studies used to define the extents.

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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) - East and West Molesey

FIGURE NUMBER

Figure 8-2

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SETTLEMENT AREAS

LEGEND

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

Lower Wey (2009 Model)
- 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 (2018 Model)
- 1% AEP
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Lower Mole (2009 Model)
- 1% AEP +20% CC
- 0.1% AEP

River Rythe (2016 Model)
- 1% AEP
- 1% AEP +20% CC
- 0.1% AEP

Dead River (2013/2017 Model)
- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Dead River, Lower Mole, Middle Mole, River Rythe and Lower Wey. Refer to the SFRA Report for further detail of the modelling studies used to define the extents.
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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) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 8-3

1:15,000 @ A3

0 250 500 1,000 Meters

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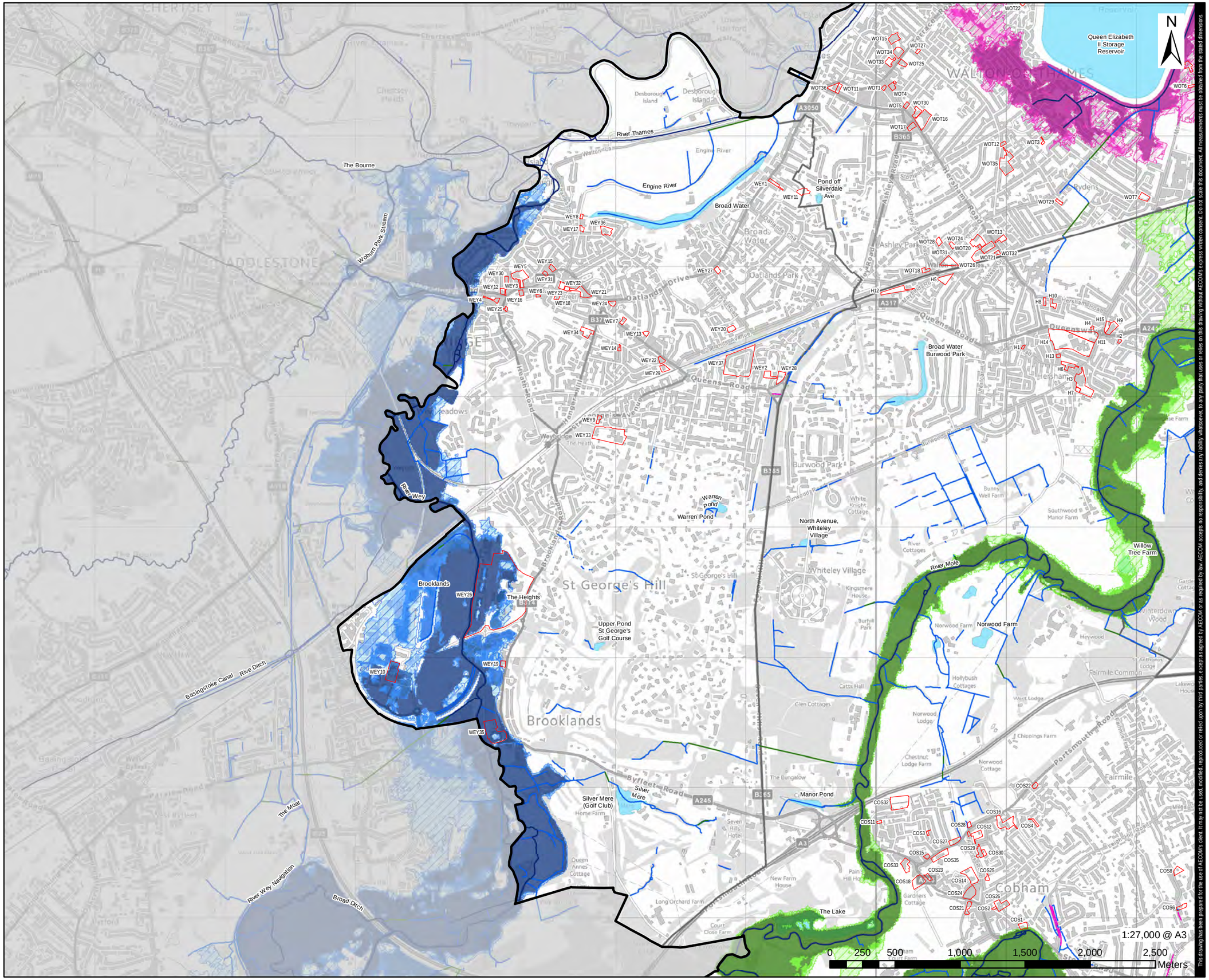

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SETTLEMENT AREAS

LEGEND

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

Lower Wey (2009 Model)
- 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 (2018 Model)
- 1% AEP
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Lower Mole (2009 Model)
- 1% AEP +20% CC
- 0.1% AEP

River Rythe (2016 Model)
- 1% AEP
- 1% AEP +20% CC
- 0.1% AEP

Dead River (2013/2017 Model)
- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Dead River, Lower Mole, Middle Mole, River Rythe and Lower Wey. 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

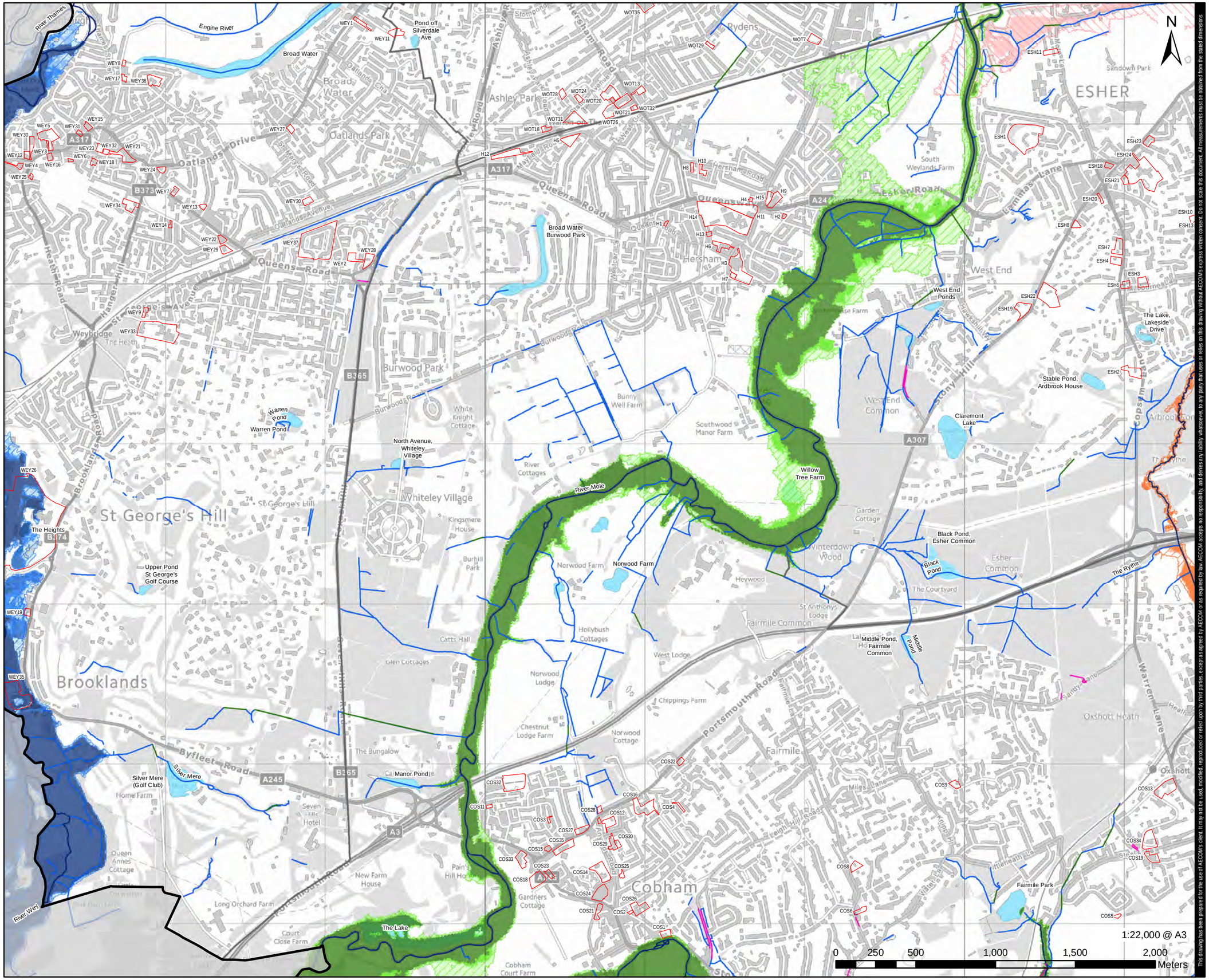
60565750

FIGURE TITLE

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

FIGURE NUMBER

Figure 8-4



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CONSULTANT

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Basingstoke, Hampshire
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SETTLEMENT AREAS

LEGEND

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

Lower Wey (2009 Model)

- ■ 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 (2018 Model)

- ■ 1% AEP
- ■ 1% AEP +25% CC
- ■ 1% AEP +35% CC
- ■ 1% AEP +70% CC
- ▨ 0.1% AEP

Lower Mole (2009 Model)

- ■ 1% AEP +20% CC
- ▨ 0.1% AEP

River Rythe (2016 Model)

- ■ 1% AEP
- ■ 1% AEP +20% CC
- ▨ 0.1% AEP

Dead River (2013/2017 Model)

- ■ 1% AEP
- ■ 1% AEP +20% CC
- ■ 1% AEP +25% CC
- ■ 1% AEP +35% CC
- ■ 1% AEP +70% CC
- ▨ 0.1% AEP

NOTES

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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) - Hersham

FIGURE NUMBER

Figure 8-5

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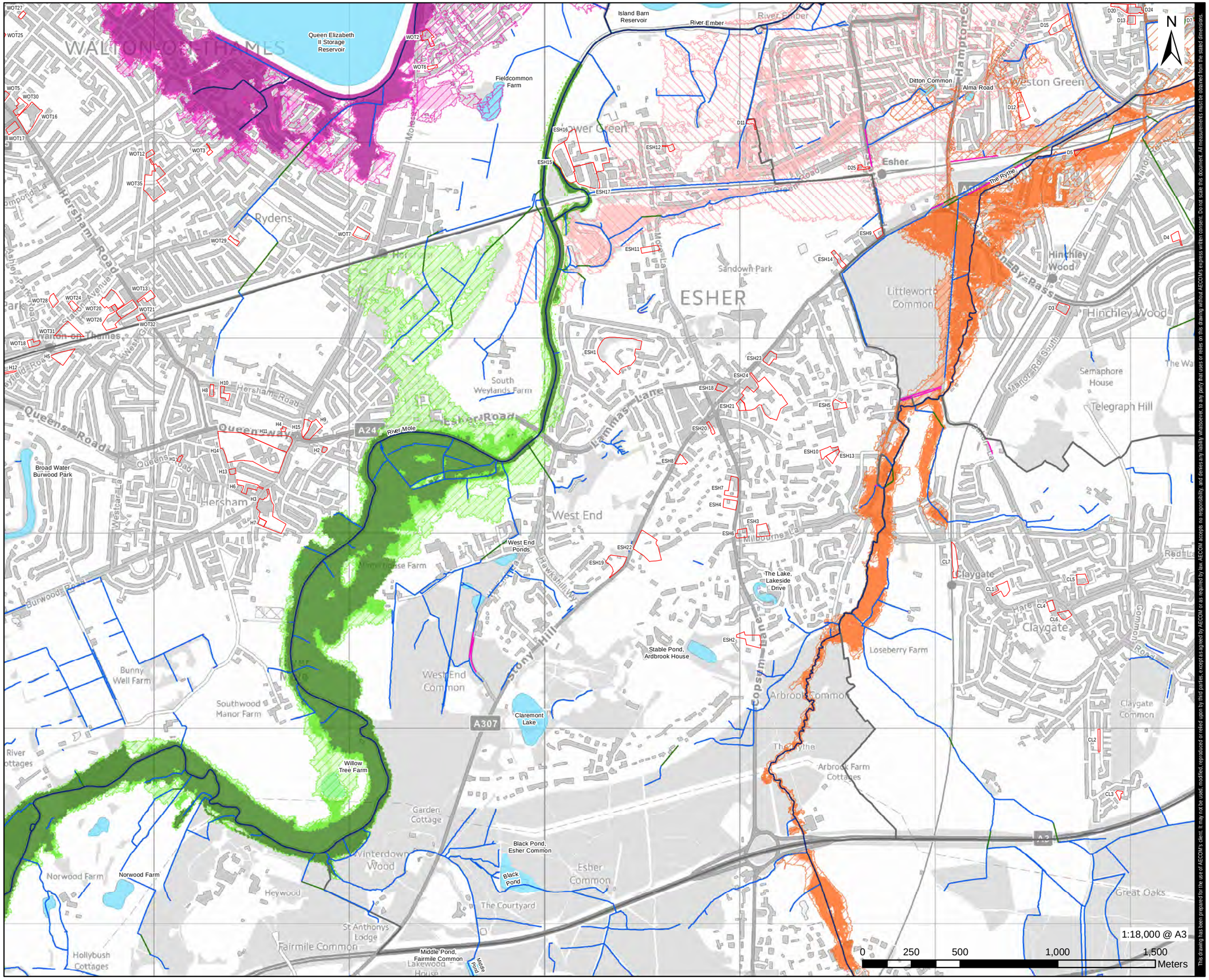

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Basingstoke, Hampshire
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SETTLEMENT AREAS

LEGEND

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

Lower Wey (2009 Model)
- 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 (2018 Model)
- 1% AEP
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

Lower Mole (2009 Model)
- 1% AEP +20% CC
- 0.1% AEP

River Rythe (2016 Model)
- 1% AEP
- 1% AEP +20% CC
- 0.1% AEP

Dead River (2013/2017 Model)
- 1% AEP
- 1% AEP +20% CC
- 1% AEP +25% CC
- 1% AEP +35% CC
- 1% AEP +70% CC
- 0.1% AEP

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

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

FIGURE NUMBER

Figure 8-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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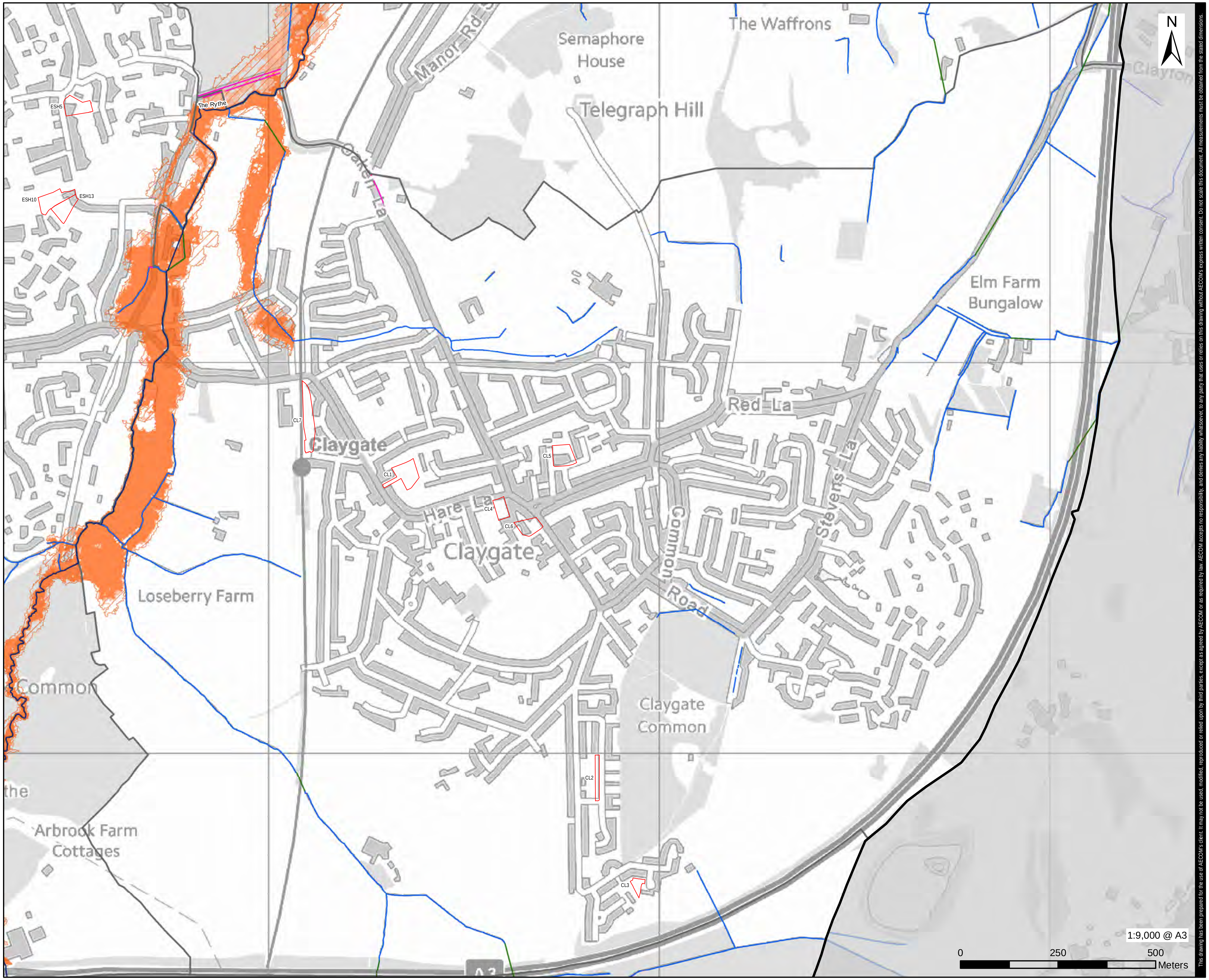

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SETTLEMENT AREAS

1 2 3 4 5 6 7 8

LEGEND

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- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch

Lower Wey (2009 Model)
- 1% AEP
- 1% AEP +10% CC
- 1% AEP +15% CC
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- 0.1% AEP

Dead River (2013/2017 Model)
- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Dead River, Lower Mole, Middle Mole, River Rythe and Lower Wey. 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) - Claygate

FIGURE NUMBER

Figure 8-7

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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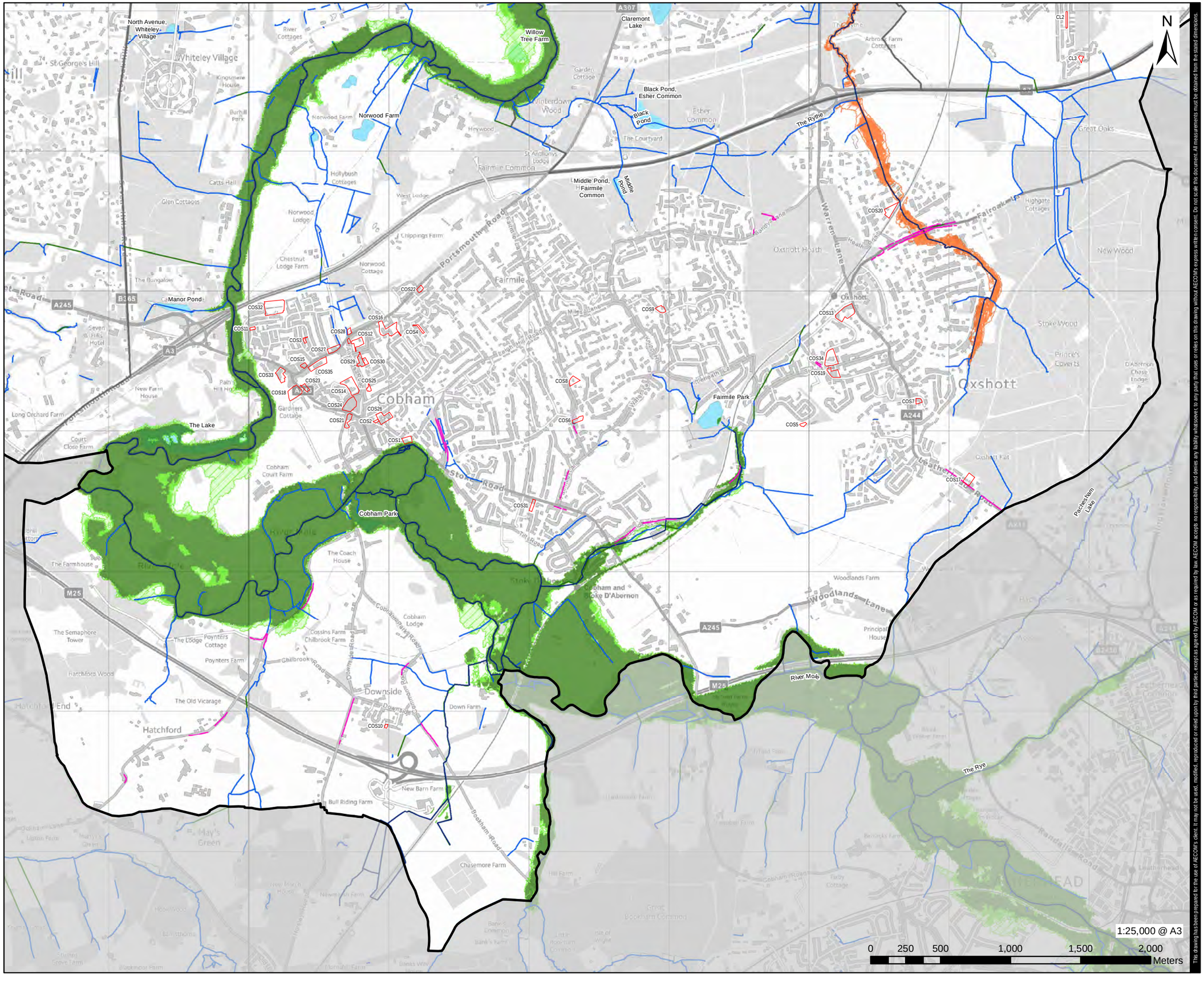

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CLIENT

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SETTLEMENT AREAS

LEGEND

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

Lower Wey (2009 Model)

- 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 (2018 Model)

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

Lower Mole (2009 Model)

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

River Rythe (2016 Model)

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

Dead River (2013/2017 Model)

- 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 the defended 1% annual exceedence probability (AEP) events including climate change allowances and 0.1% AEP for the Dead River, Lower Mole, Middle Mole, River Rythe and Lower Wey. Refer to the SFRA Report for further detail of the modelling studies used to define the extents.

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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) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 8-8

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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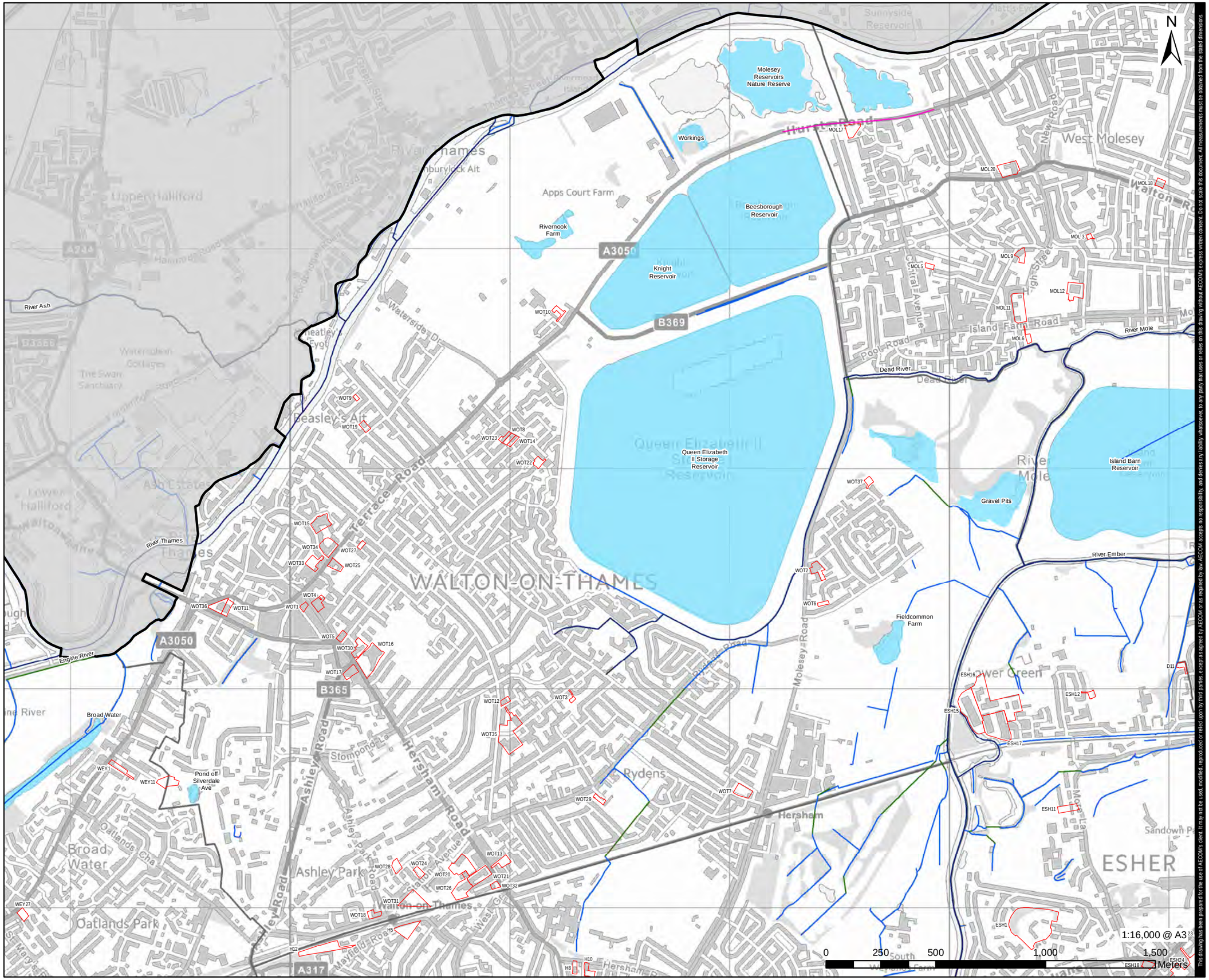

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual axceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 9-1

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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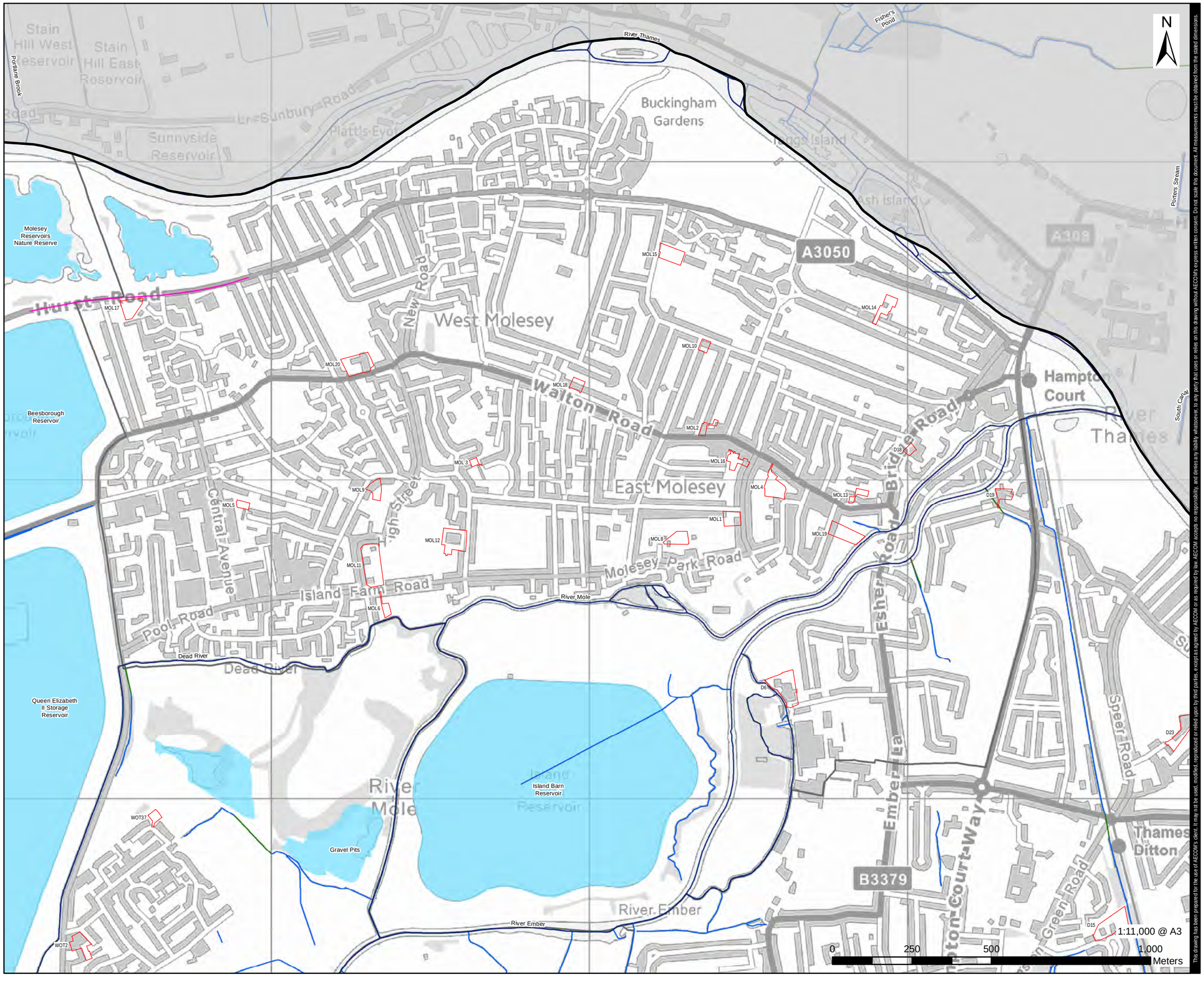

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 9-2

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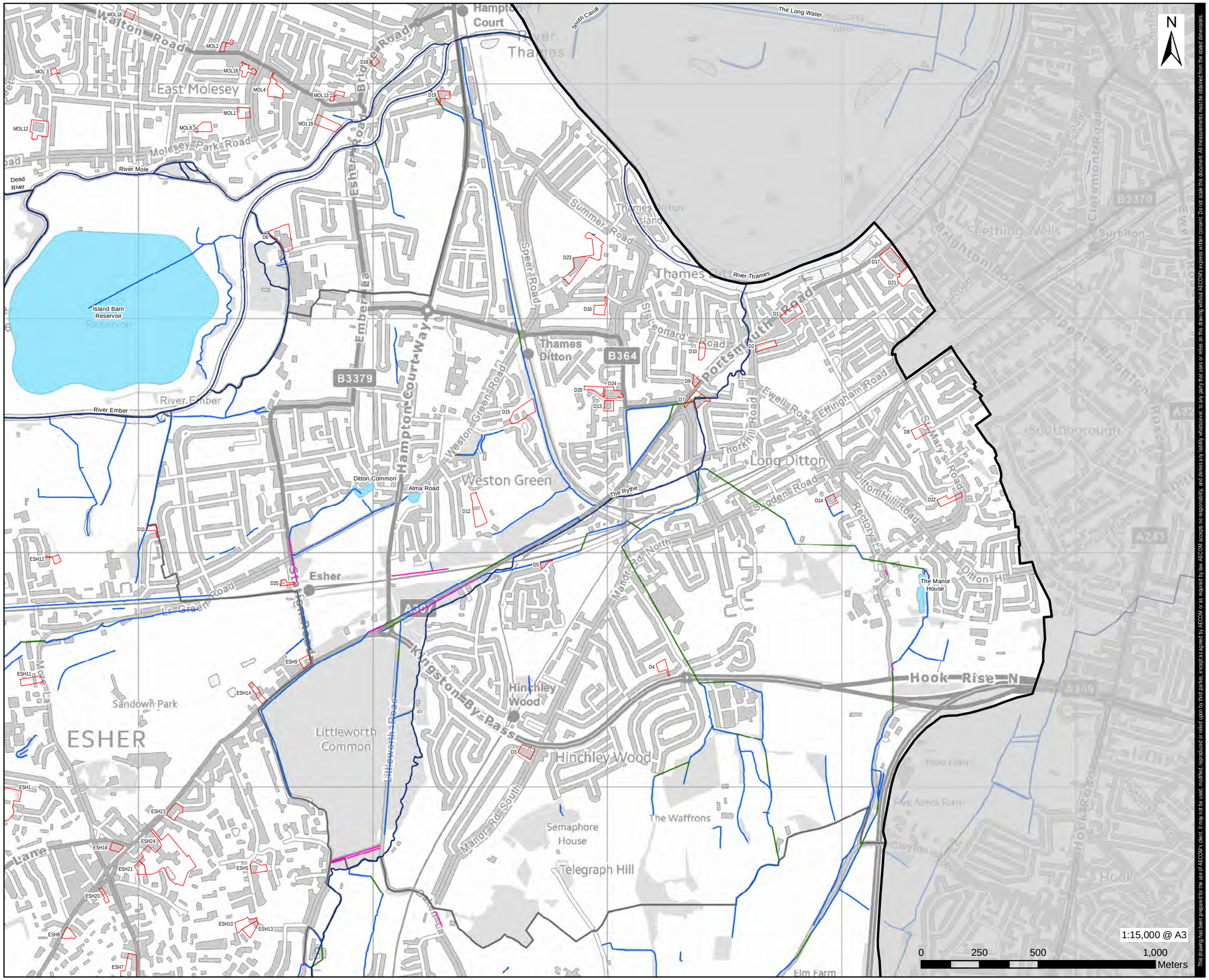

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- Settlement Areas
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 9-3

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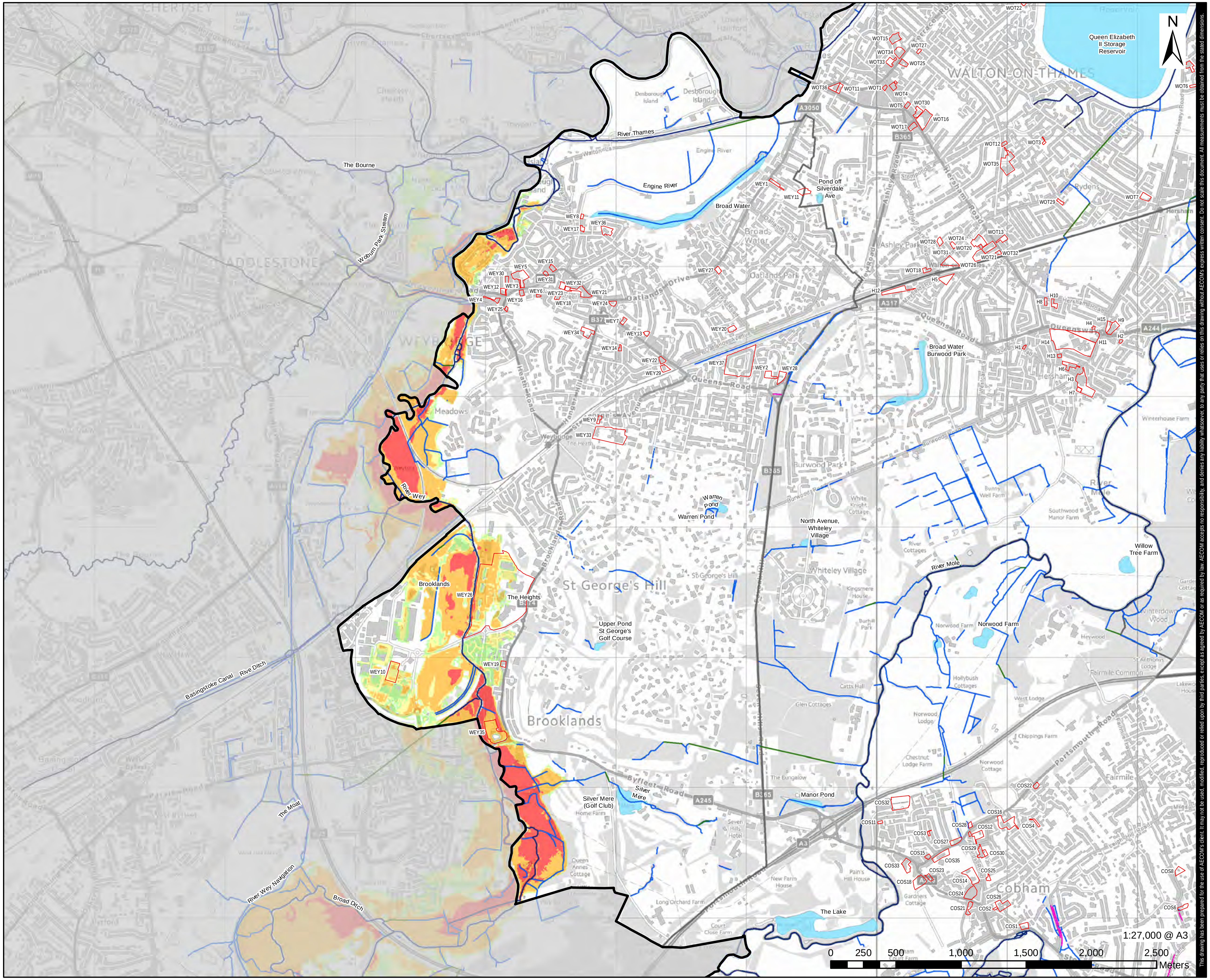

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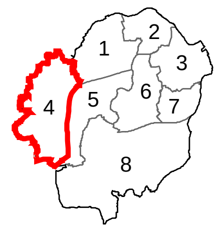

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 9-4

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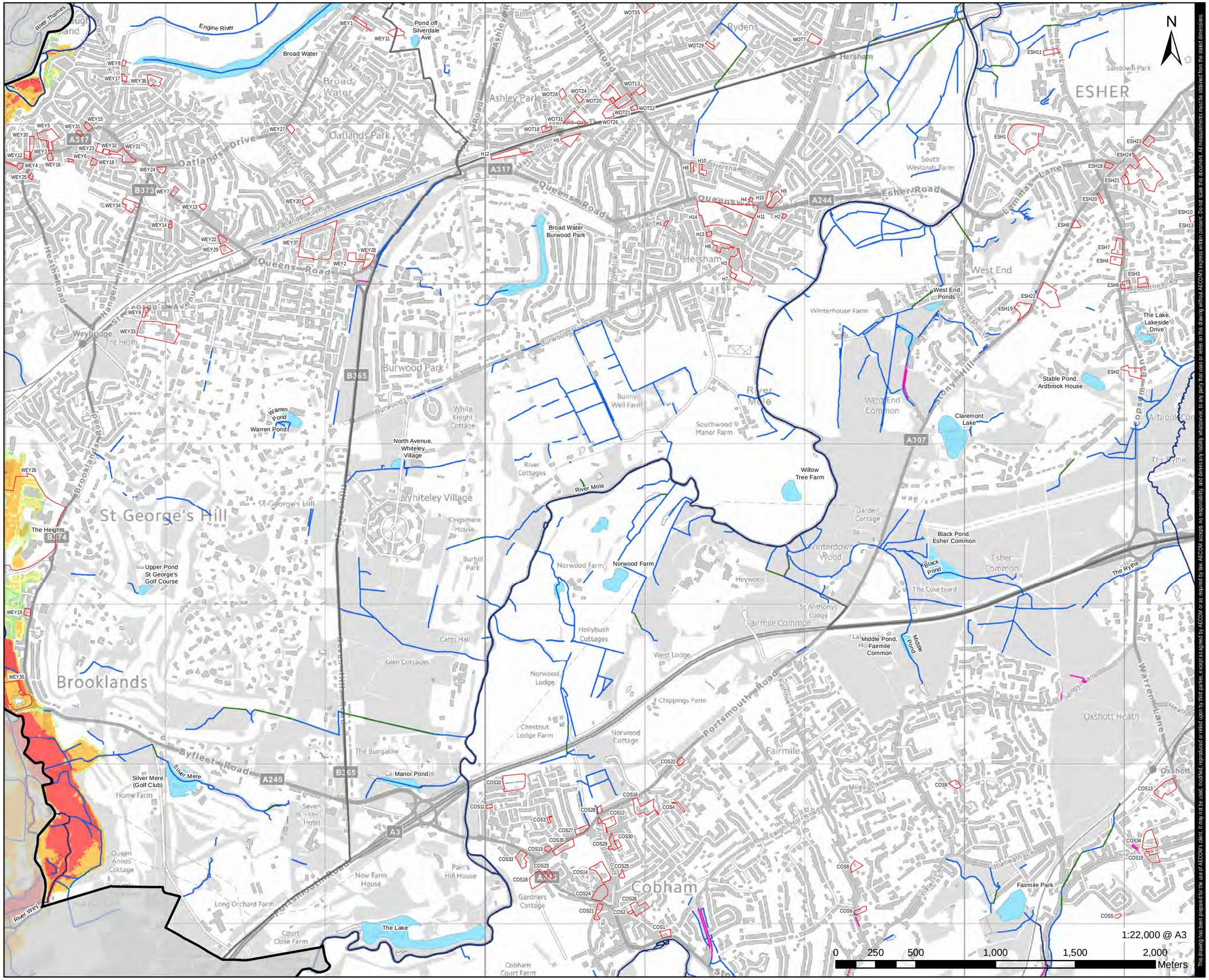

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 9-5

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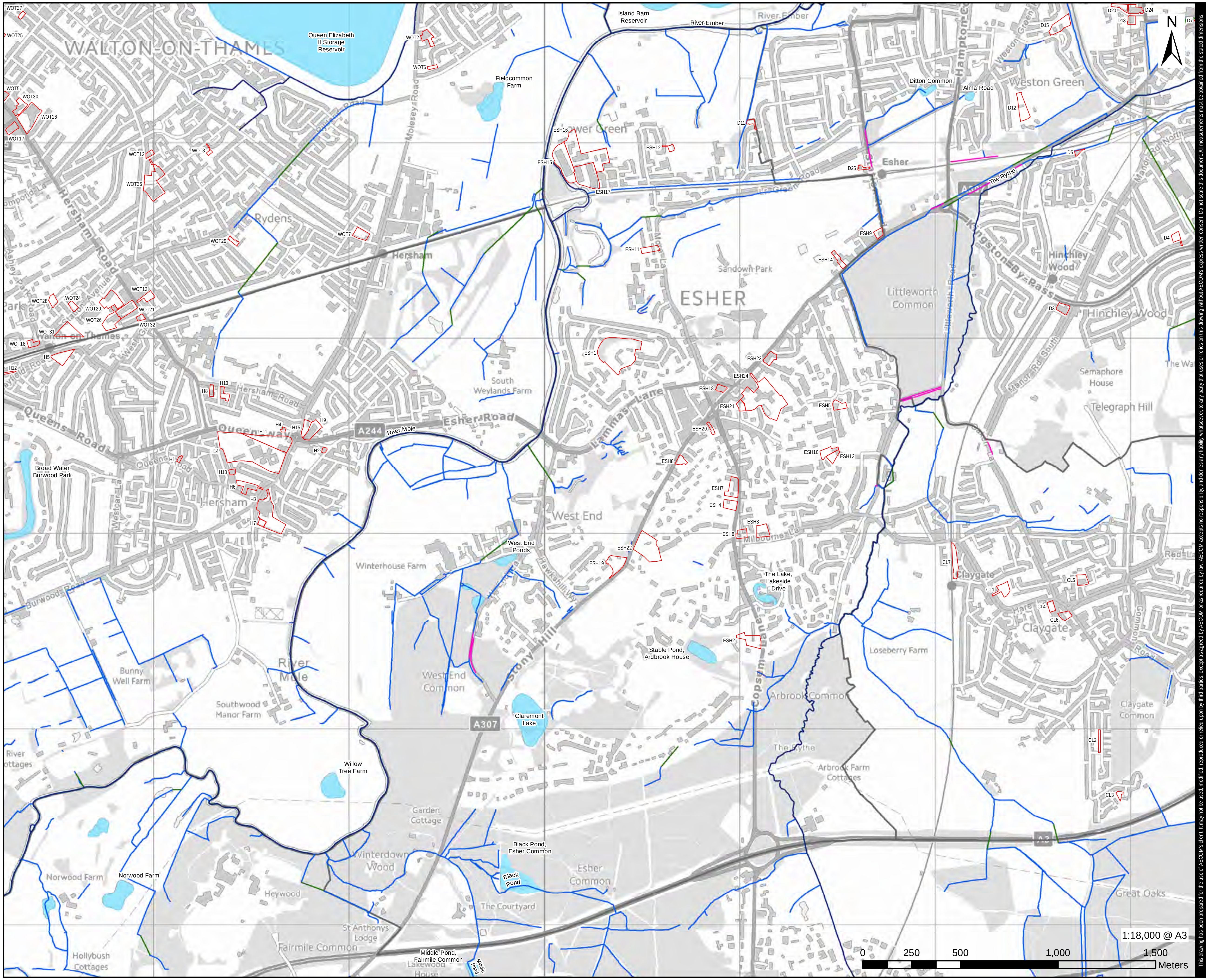

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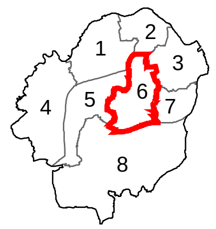

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 9-6

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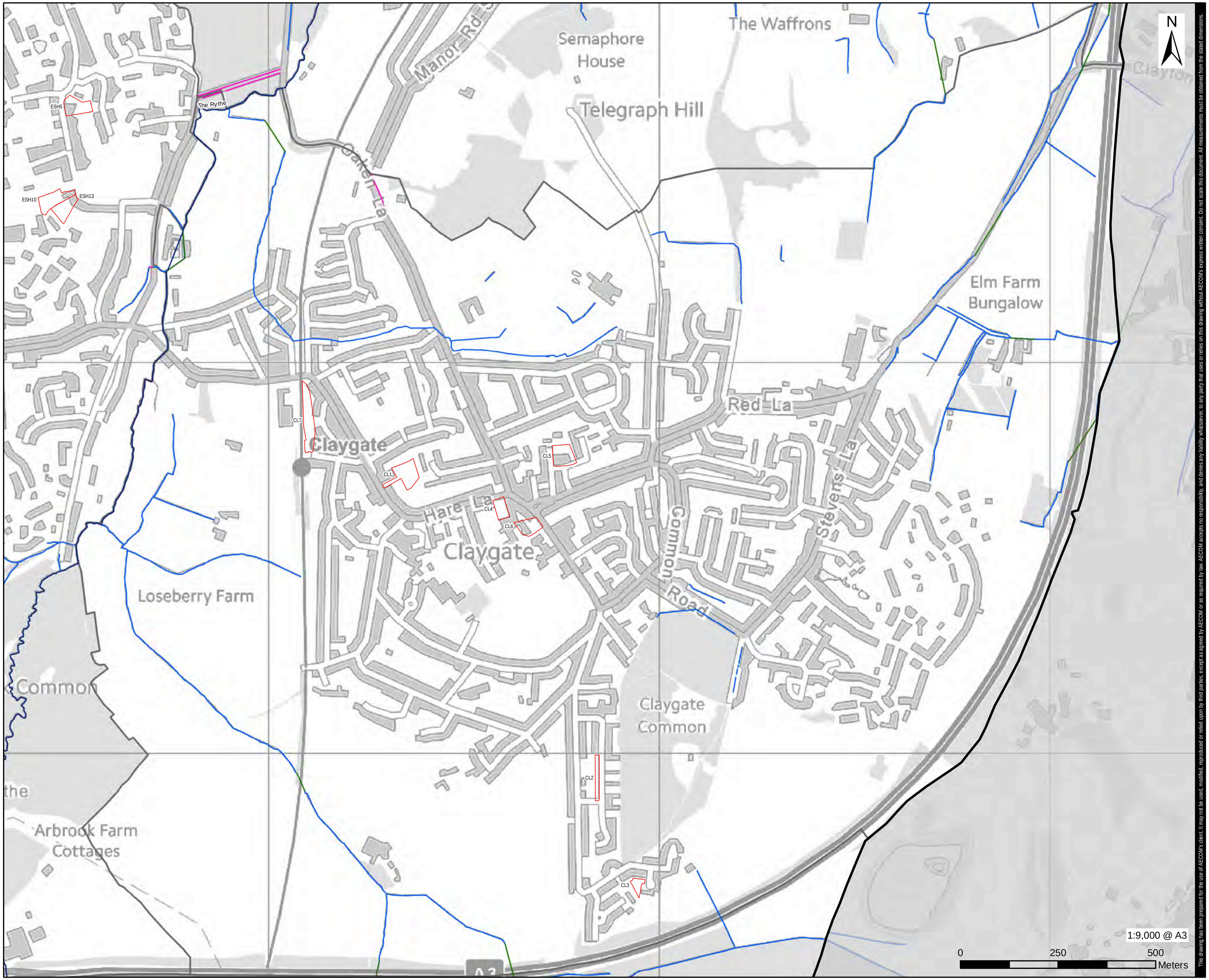

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual axceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 9-7

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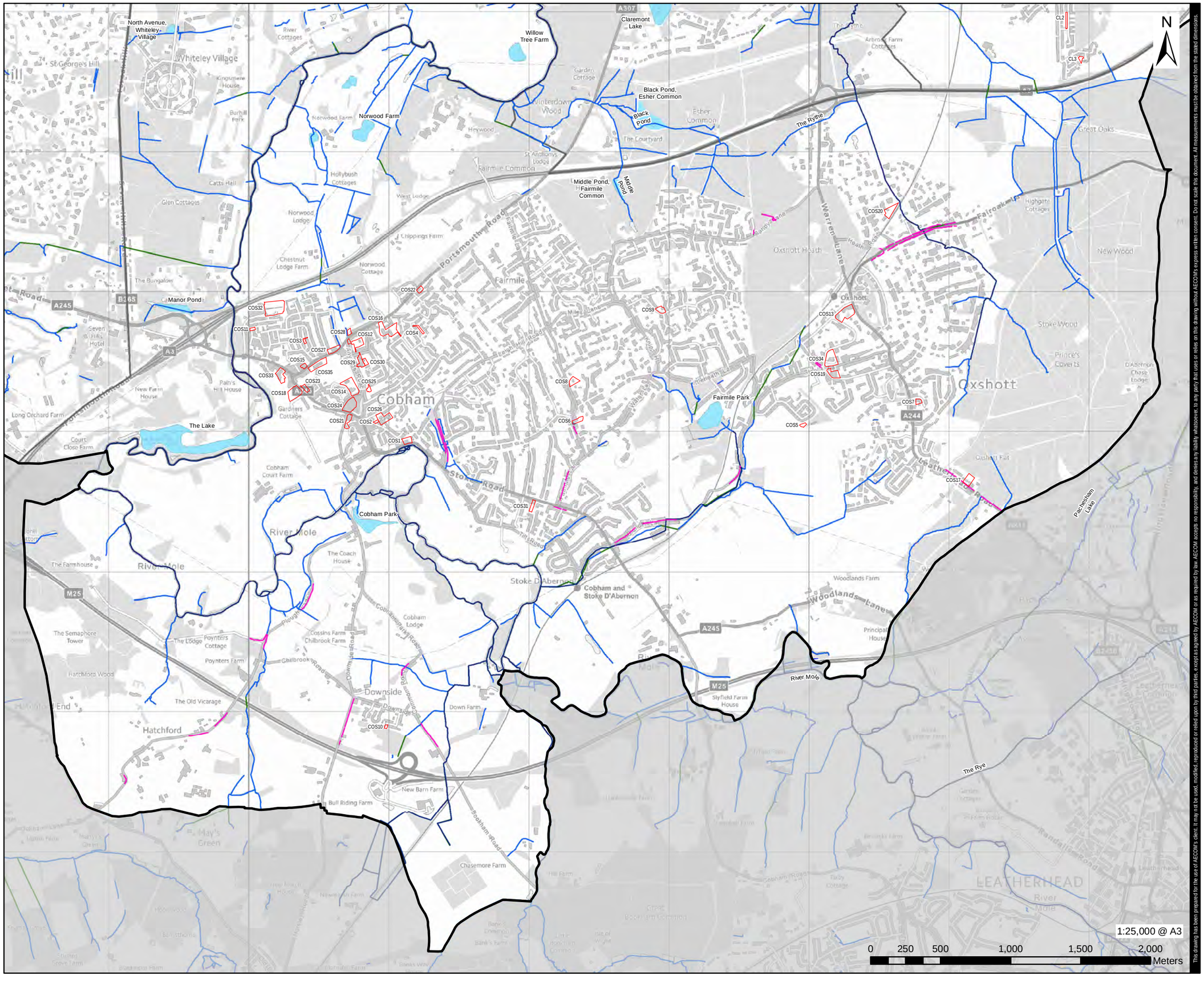

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LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Lower Wey Hazard (1% AEP +25% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 9-8

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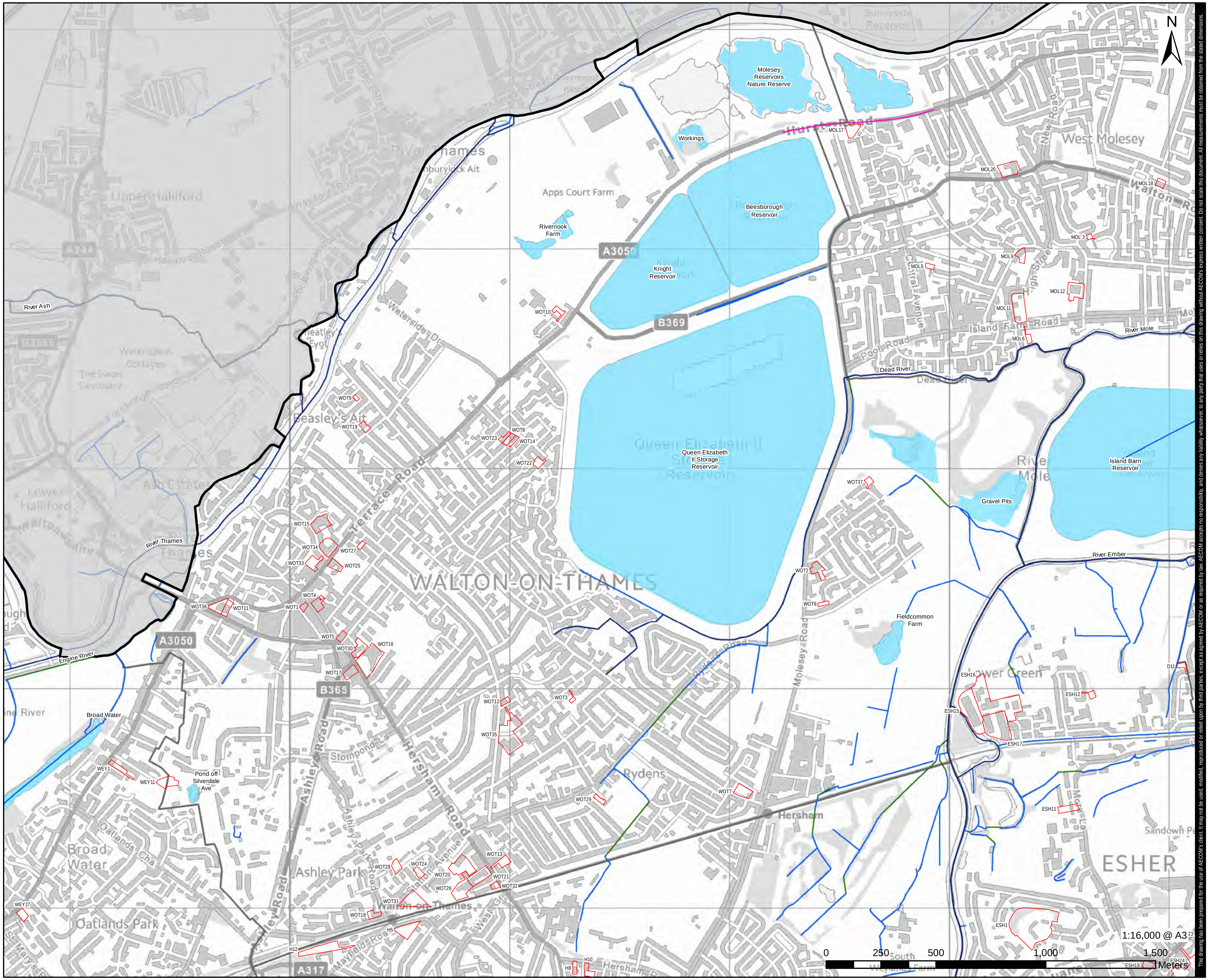

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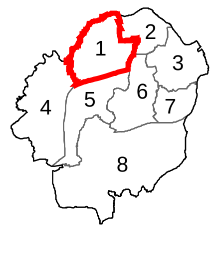

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual axceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.

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

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 10-1

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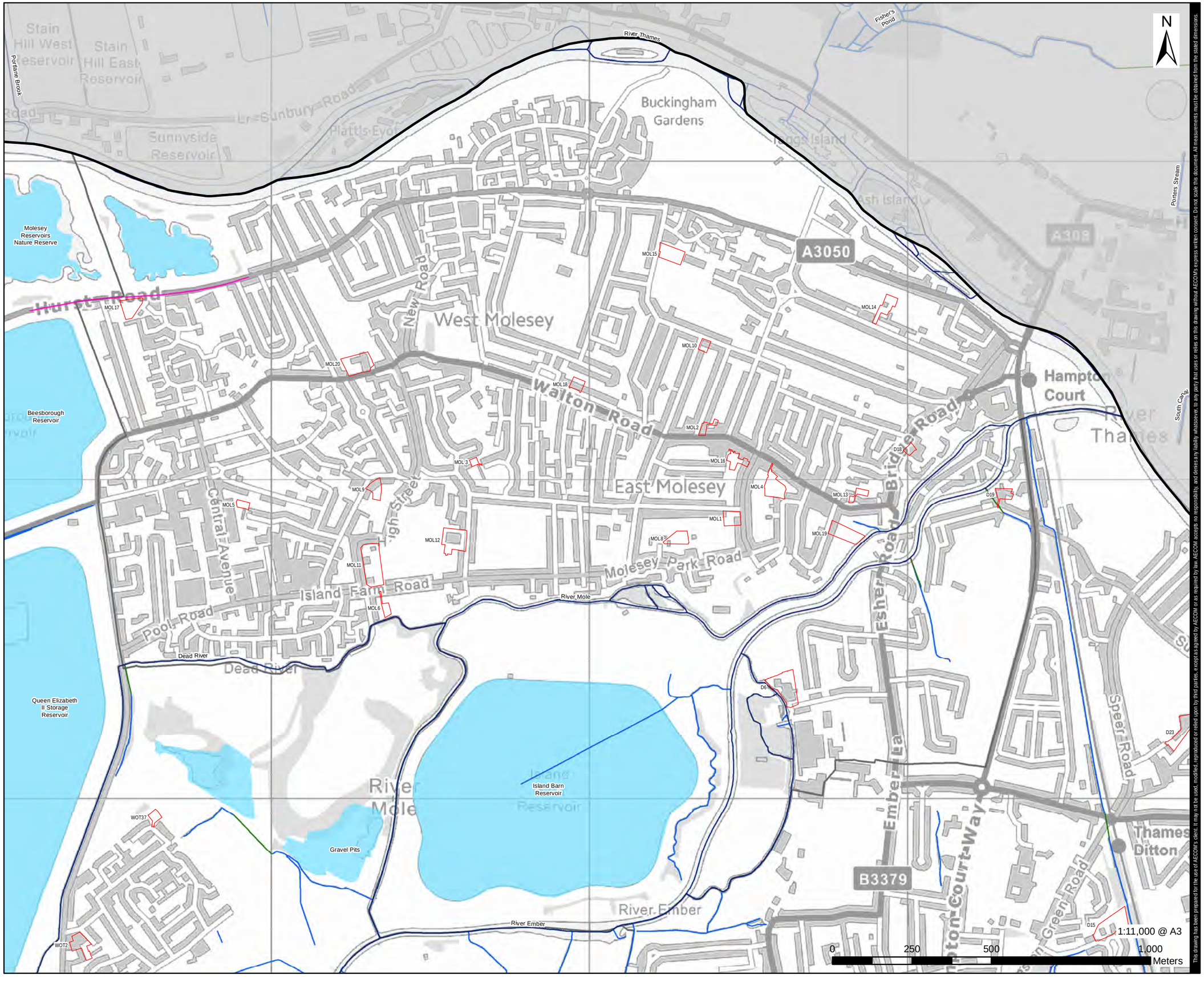

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- Elmbridge Borough Council Boundary
- Settlement Areas
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 10-2

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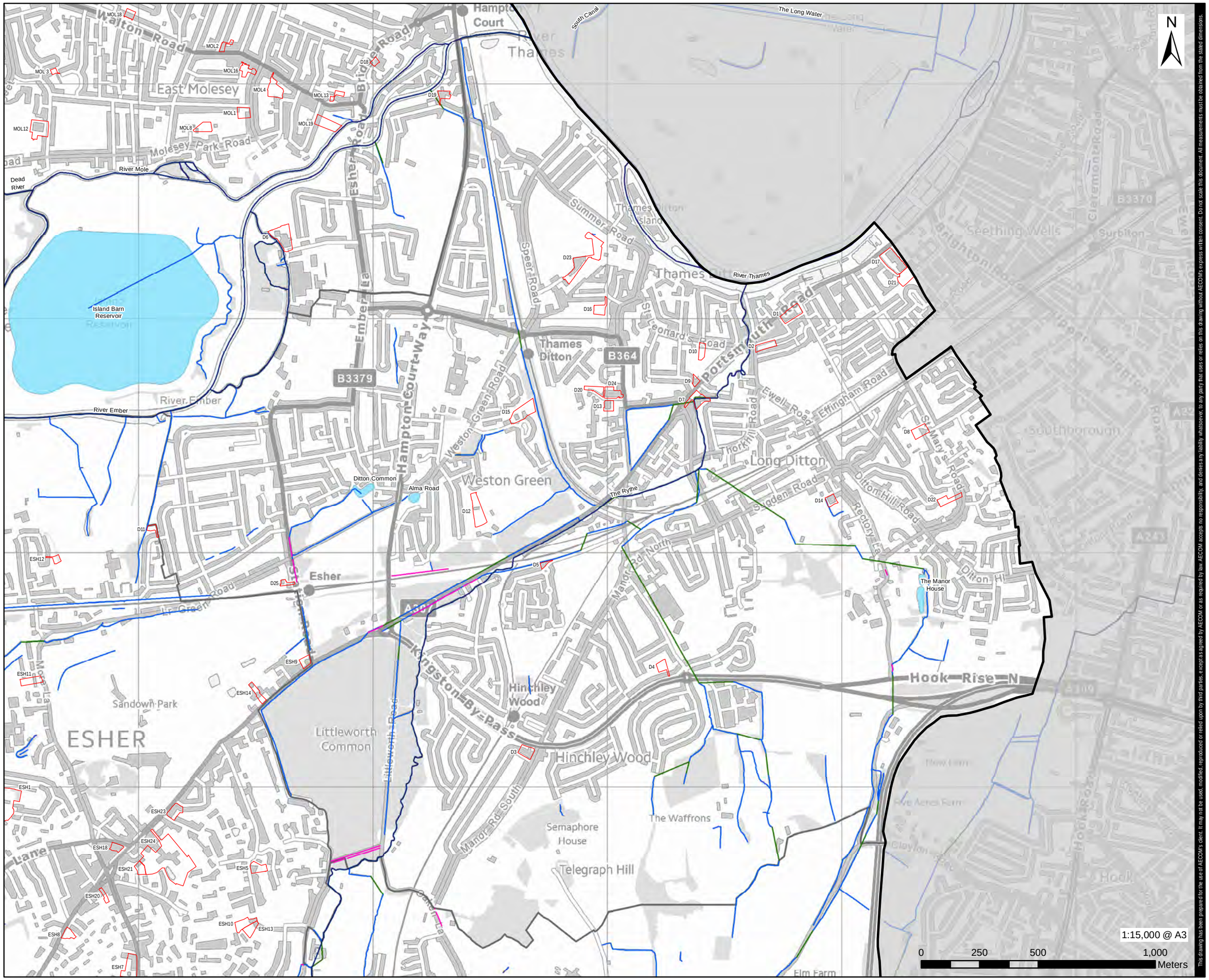

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www.aecom.com

SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Lower Wey 2009 model during a 1% annual exceedence probability event (AEP) including a 35% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 10-3

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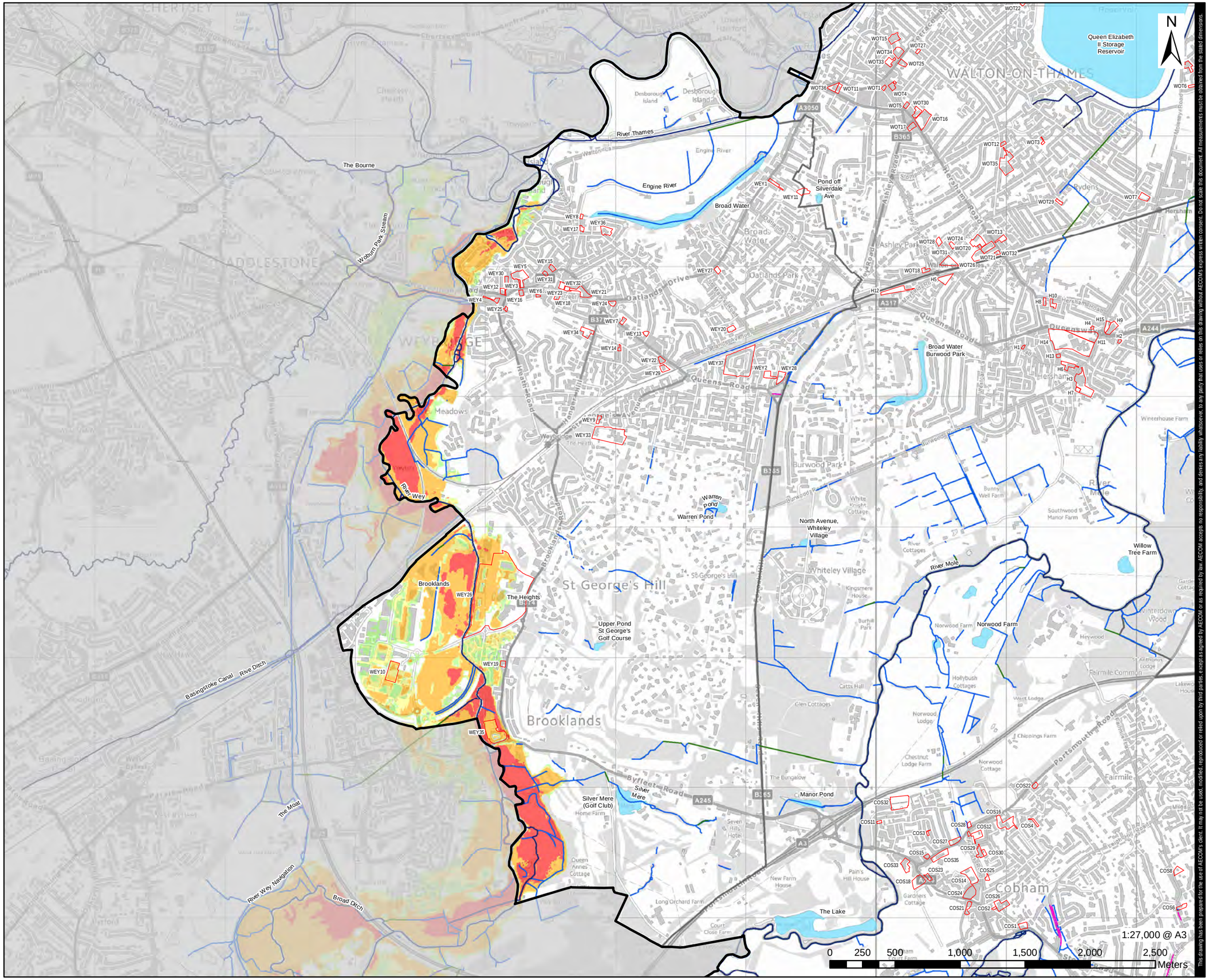

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SETTLEMENT AREAS

LEGEND

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- Settlement Areas
- Allocation Sites
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- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

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- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

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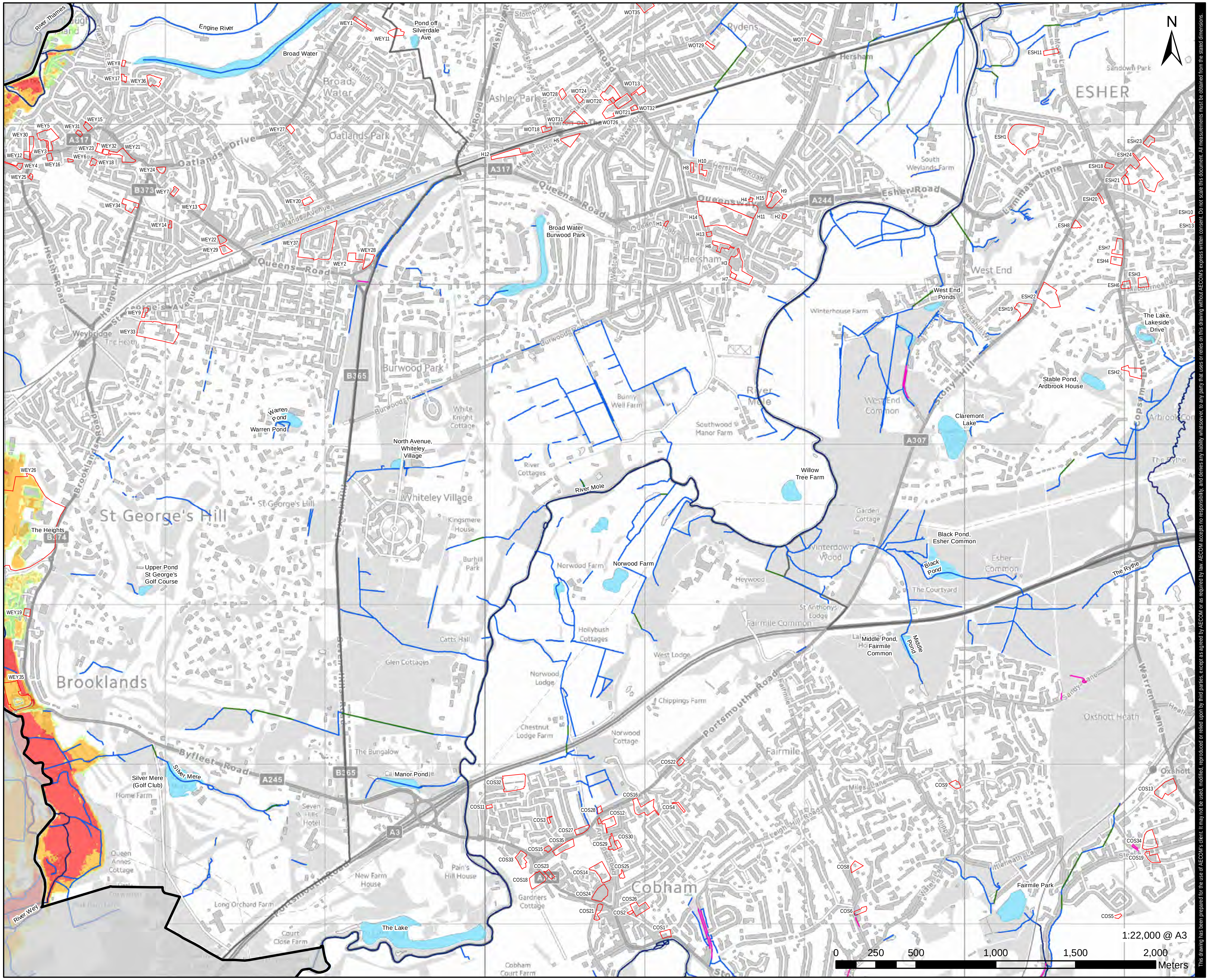
FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 10-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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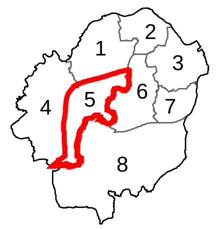

LEGEND

- Elmbridge Borough Council Boundary
- Settlement Areas
- Allocation Sites
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- Culverted Ordinary Watercourse
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Hazard Rating

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- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 10-5

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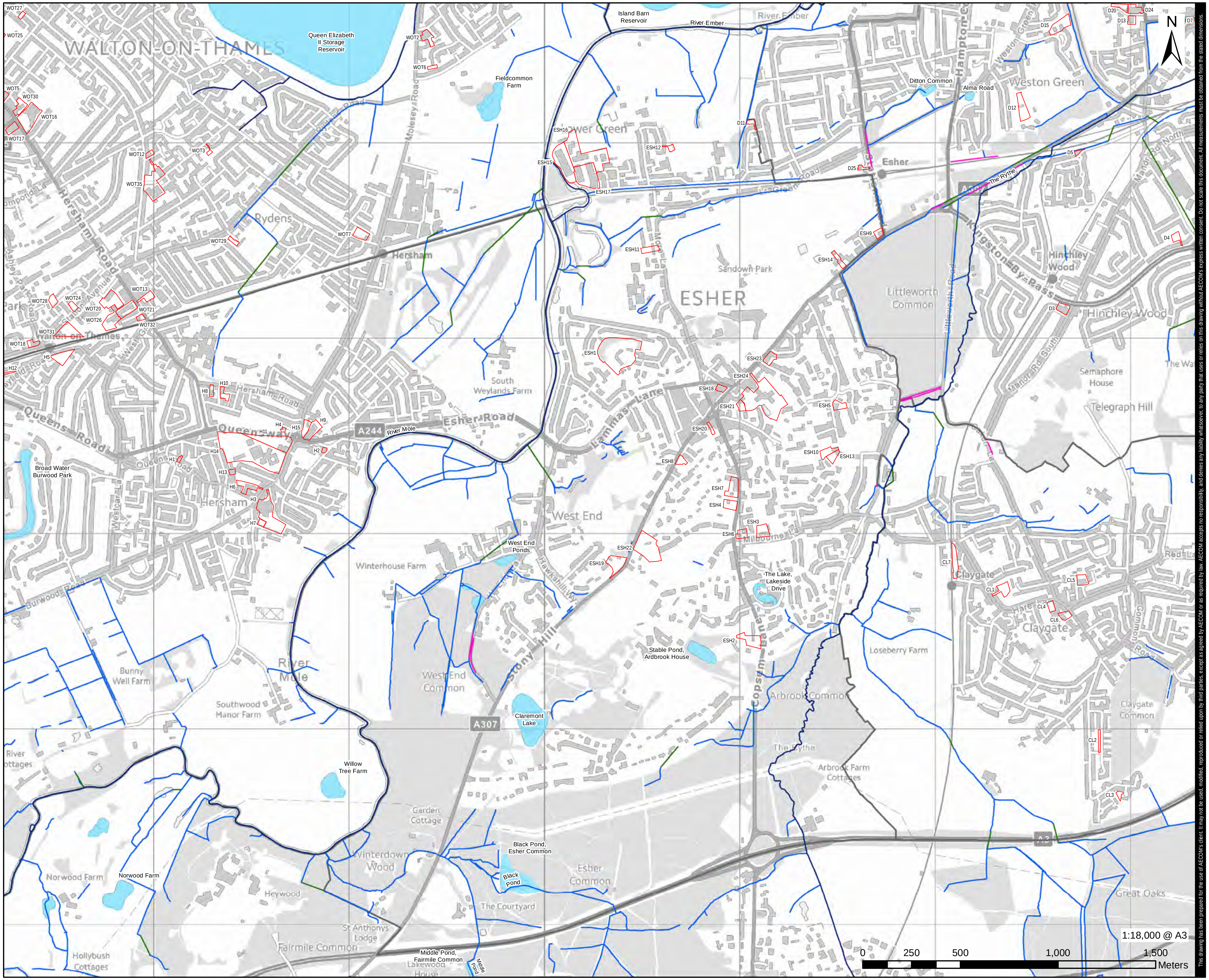

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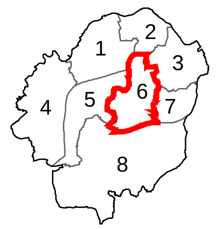

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 10-6

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- Settlement Areas
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Hazard Rating

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- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 10-7

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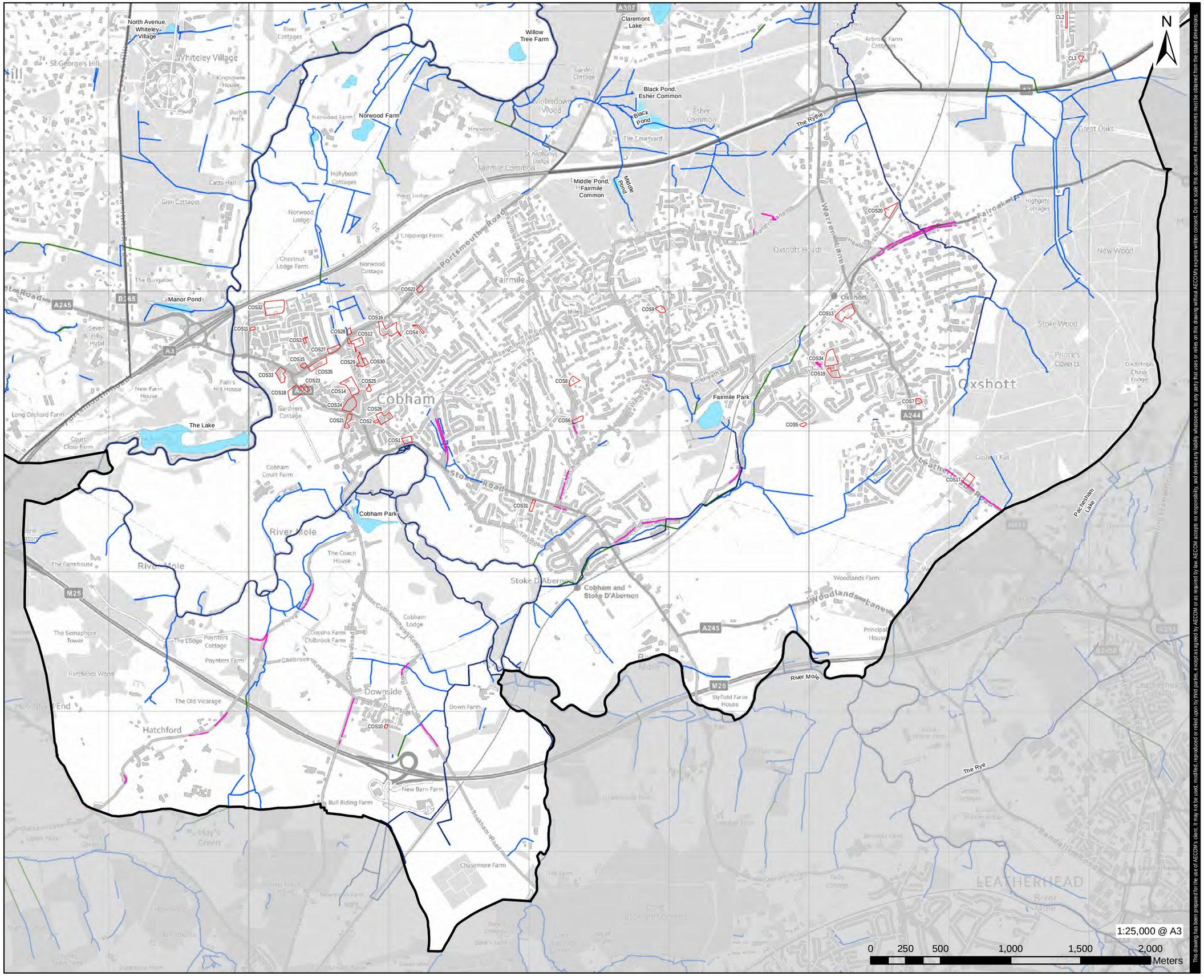

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- Culverted Ordinary Watercourse
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Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Wey Hazard (1% AEP +35% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 10-8

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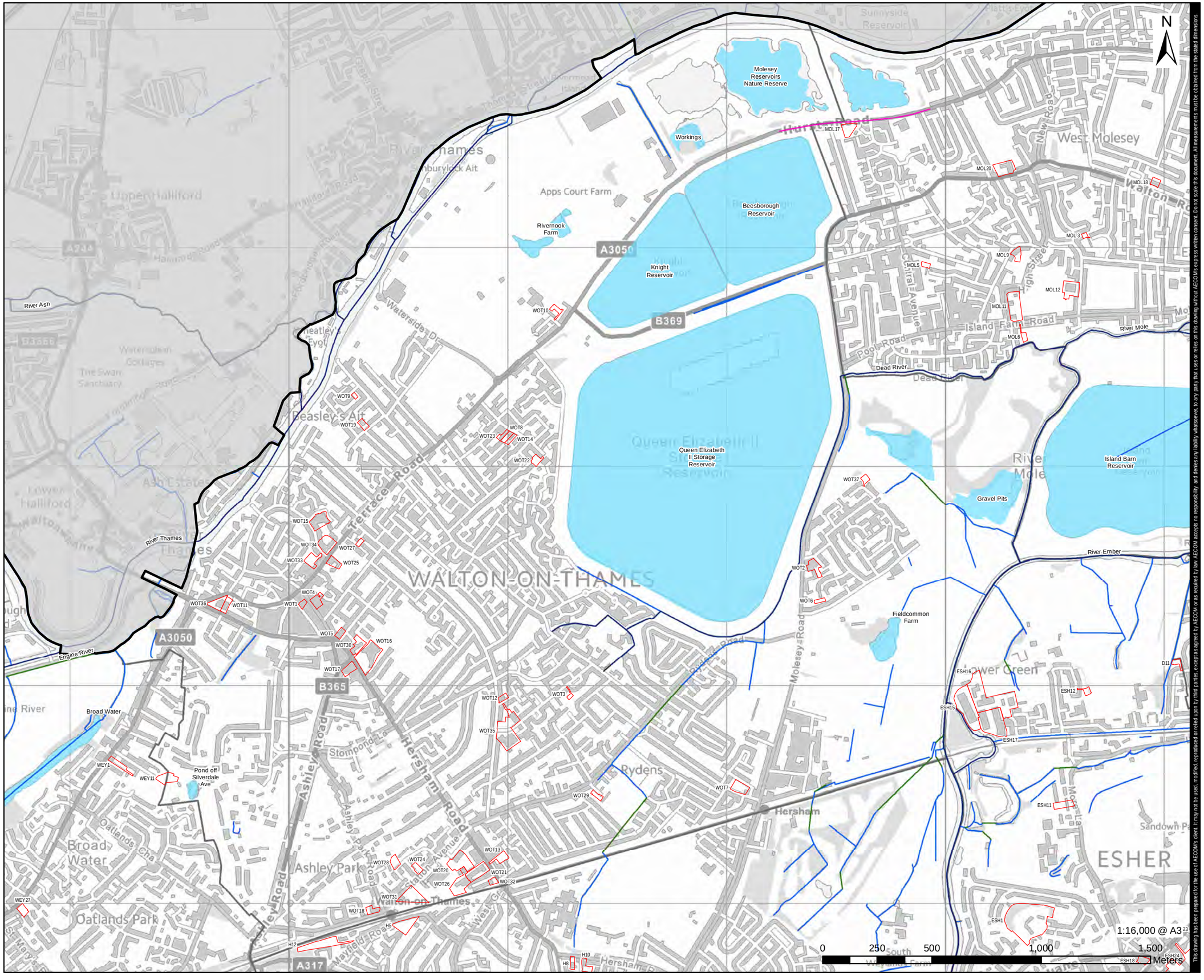

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- Settlement Areas
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- EA Main River
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Hazard Rating

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- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 11-1

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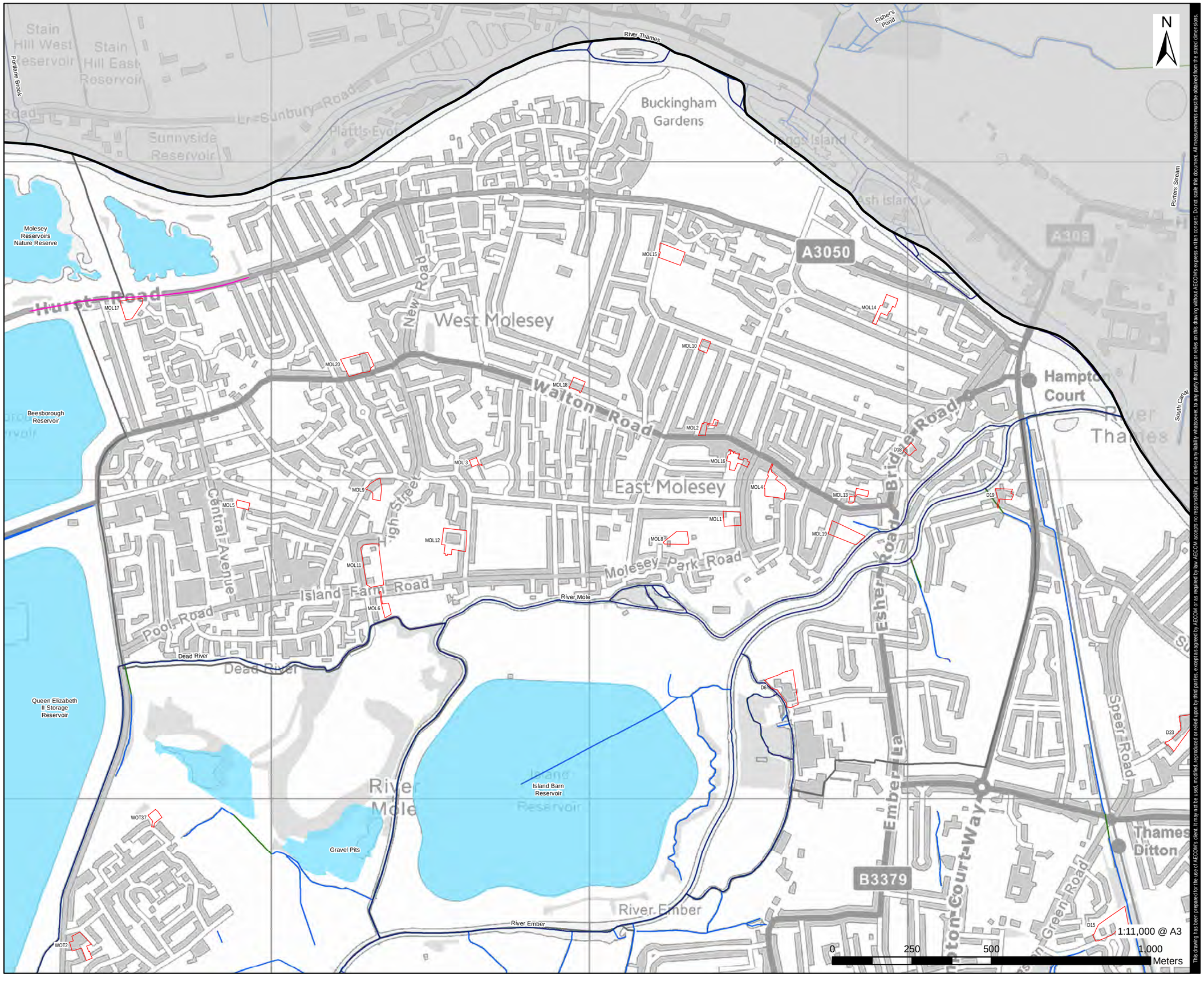

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Hazard Rating

- Low
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NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 11-2

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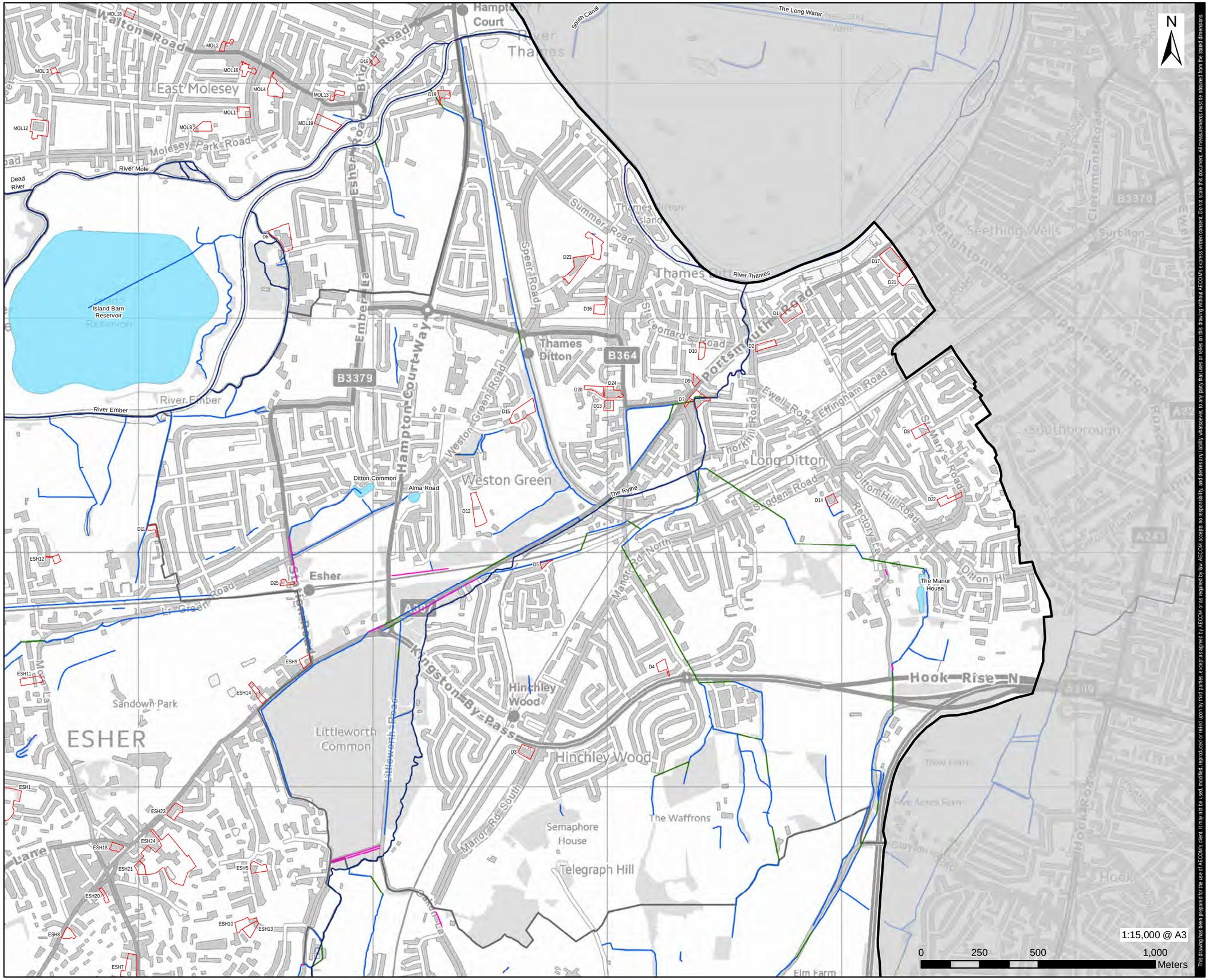

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 11-3

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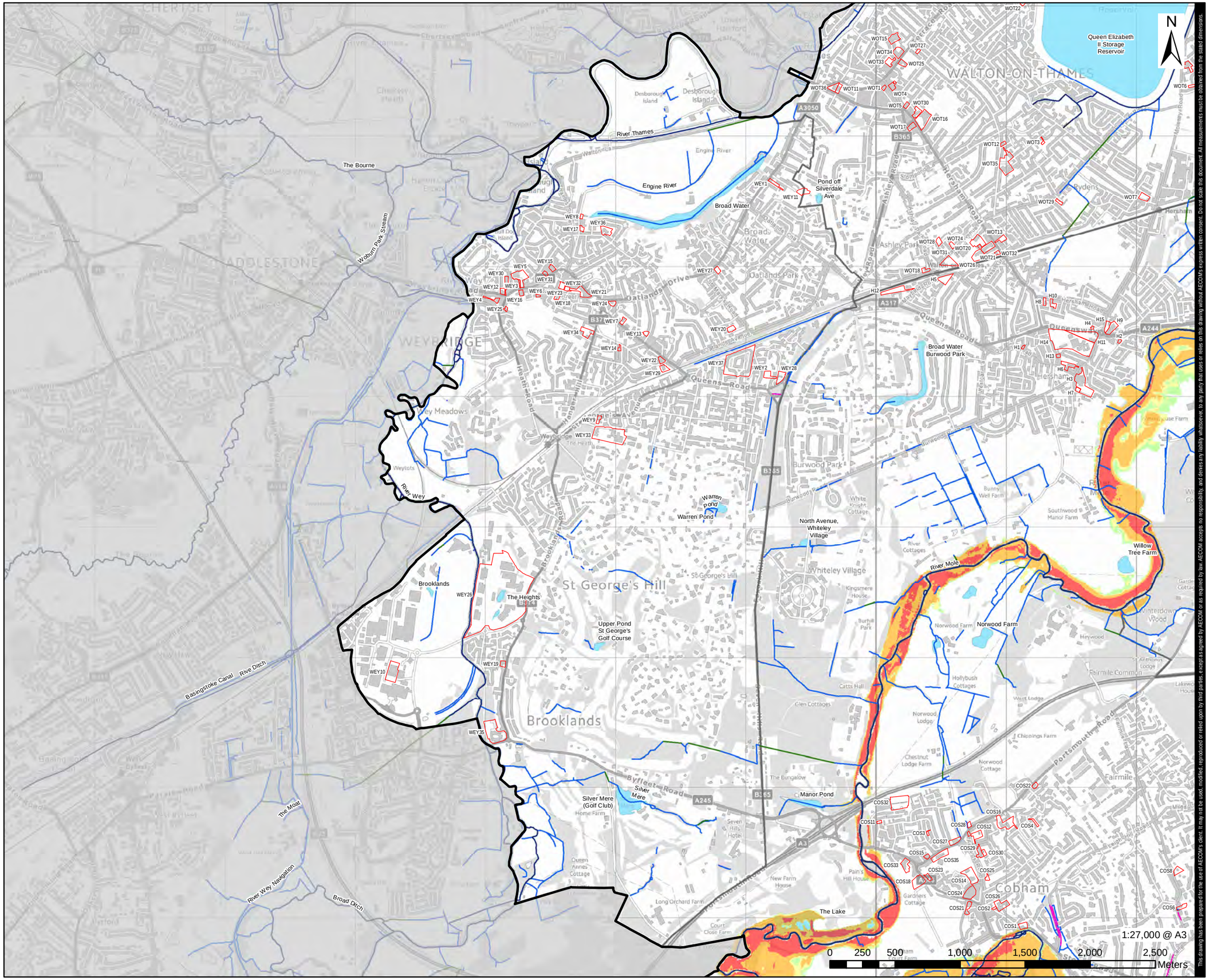

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FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 11-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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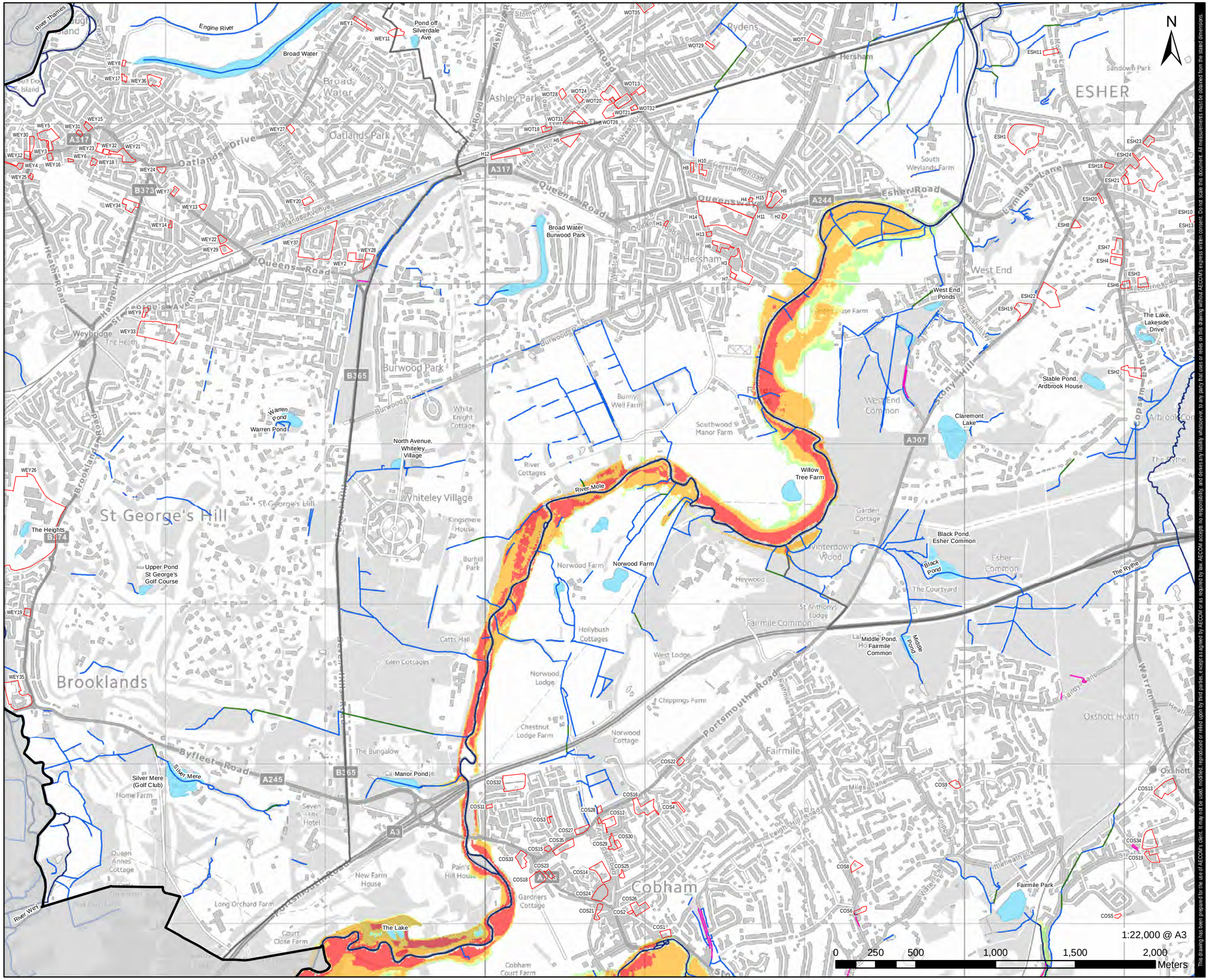

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Hazard Rating

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FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 11-5

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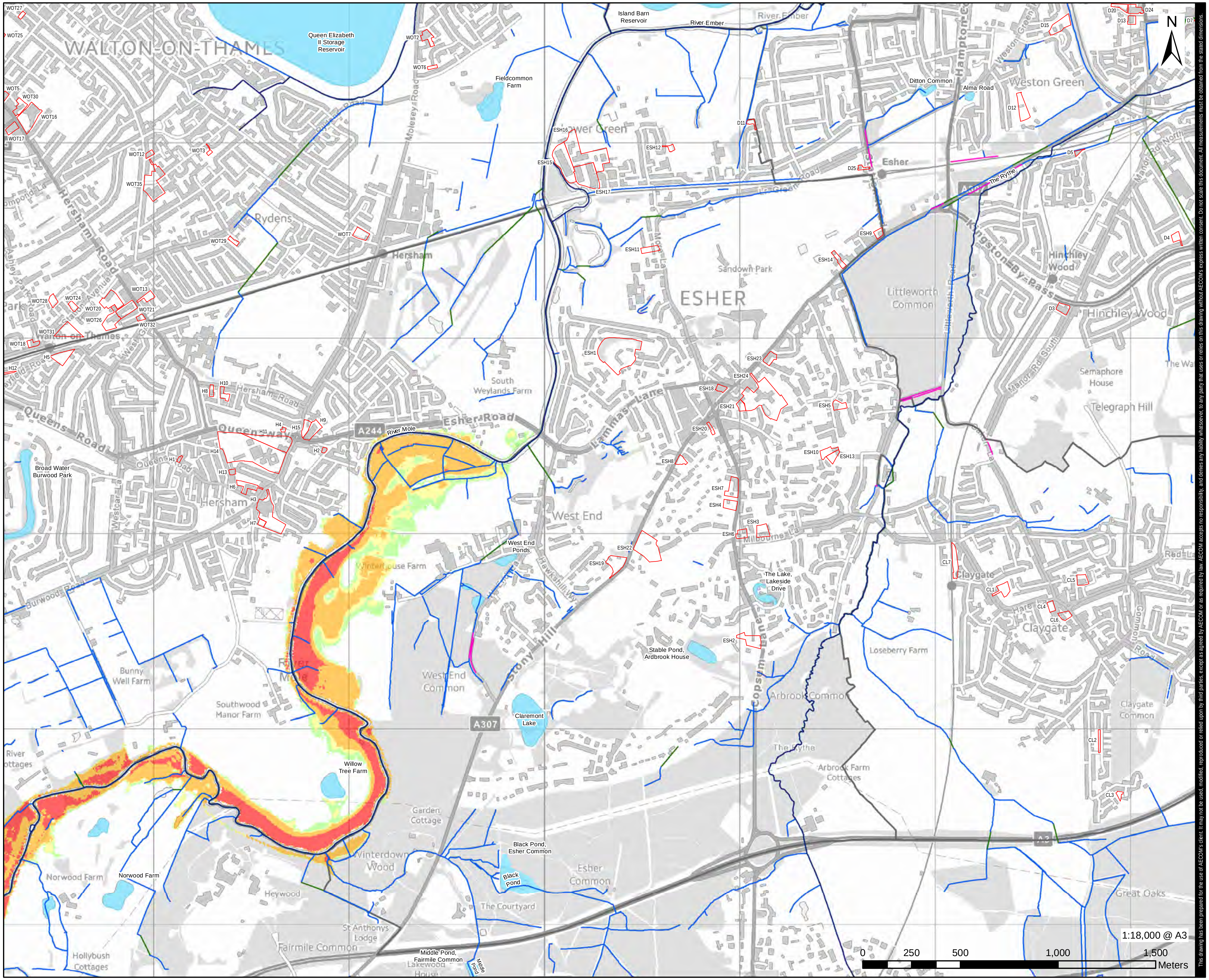

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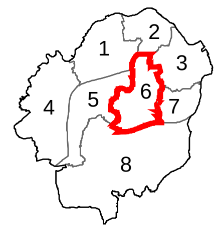

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Middle Mole 2018 model during a 1% annual exceedence probability event (AEP) including a 25% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 11-6

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LEGEND

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- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 11-7

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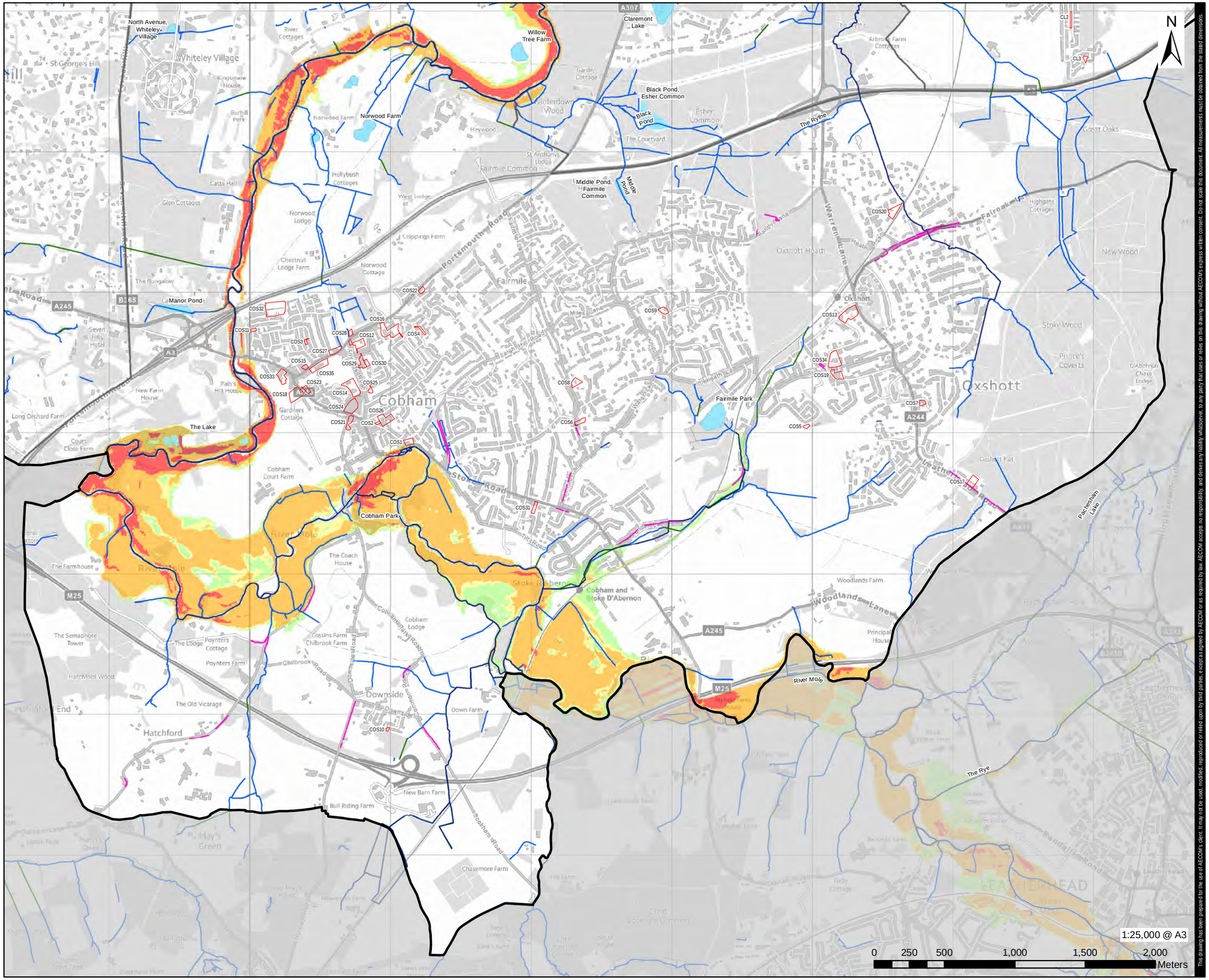

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Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Middle Mole Hazard (1% AEP +25% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 11-8

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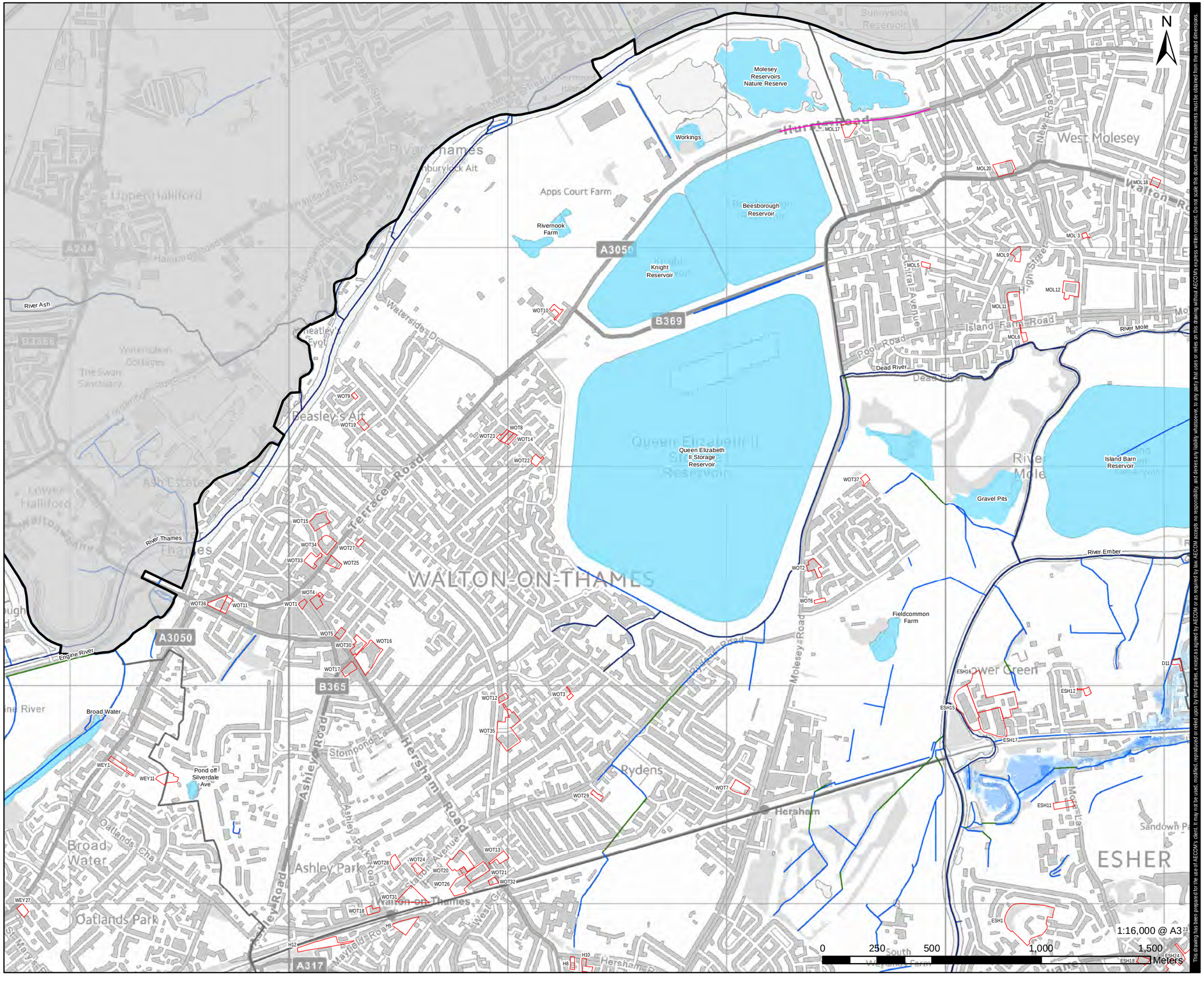

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- Surface Water Bodies

Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

1: This map shows the predicted flood depths for the Lower Mole 2009 model during a 1% annual exceedence probability event (AEP) including a 20% allowance of climate change. It should be noted that this extent has been clipped due to updated modelling available in the Dead River Area. Refer to the SFRA Report for further detail of the modelling study used to define the depth.
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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 12-1

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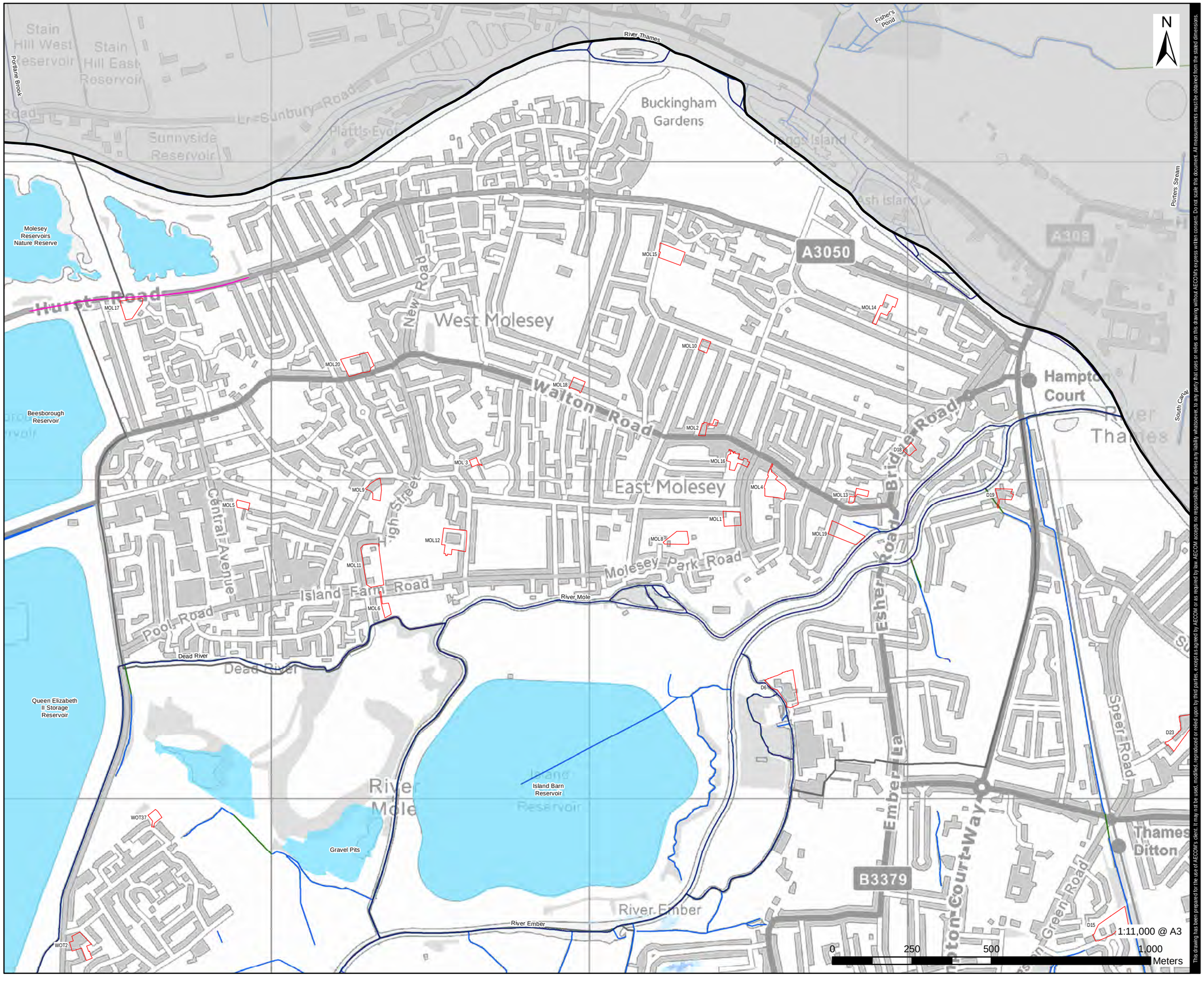

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Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

1: This map shows the predicted flood depths for the Lower Mole 2009 model during a 1% annual exceedence probability event (AEP) including a 20% allowance of climate change. It should be noted that this extent has been clipped due to updated modelling available in the Dead River Area. Refer to the SFRA Report for further detail of the modelling study used to define the depth.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 12-2

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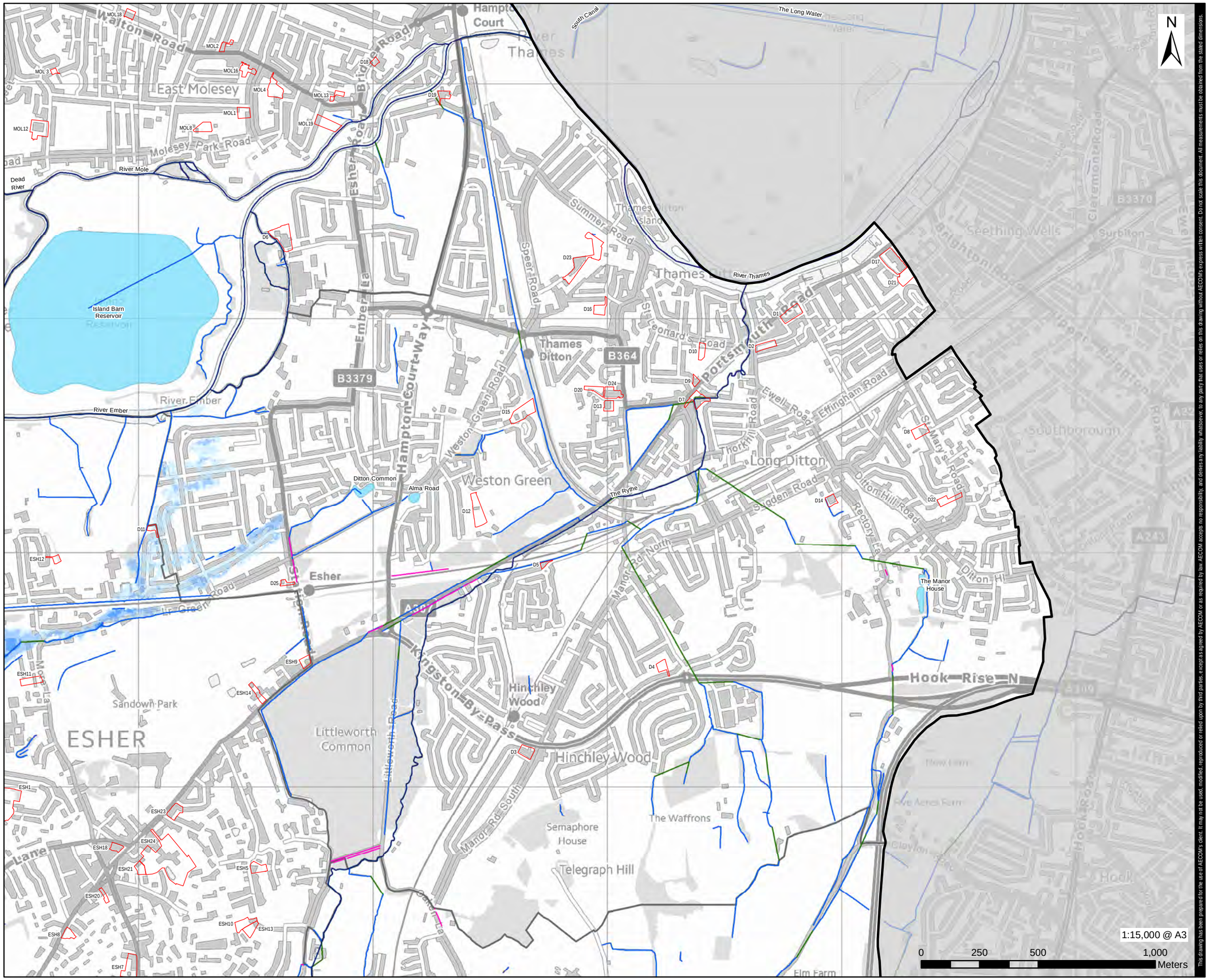

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Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

1: This map shows the predicted flood depths for the Lower Mole 2009 model during a 1% annual axceedence probability event (AEP) including a 20% allowance of climate change. It should be noted that this extent has been clipped due to updated modelling available in the Dead River Area. Refer to the SFRA Report for further detail of the modelling study used to define the depth.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 12-3

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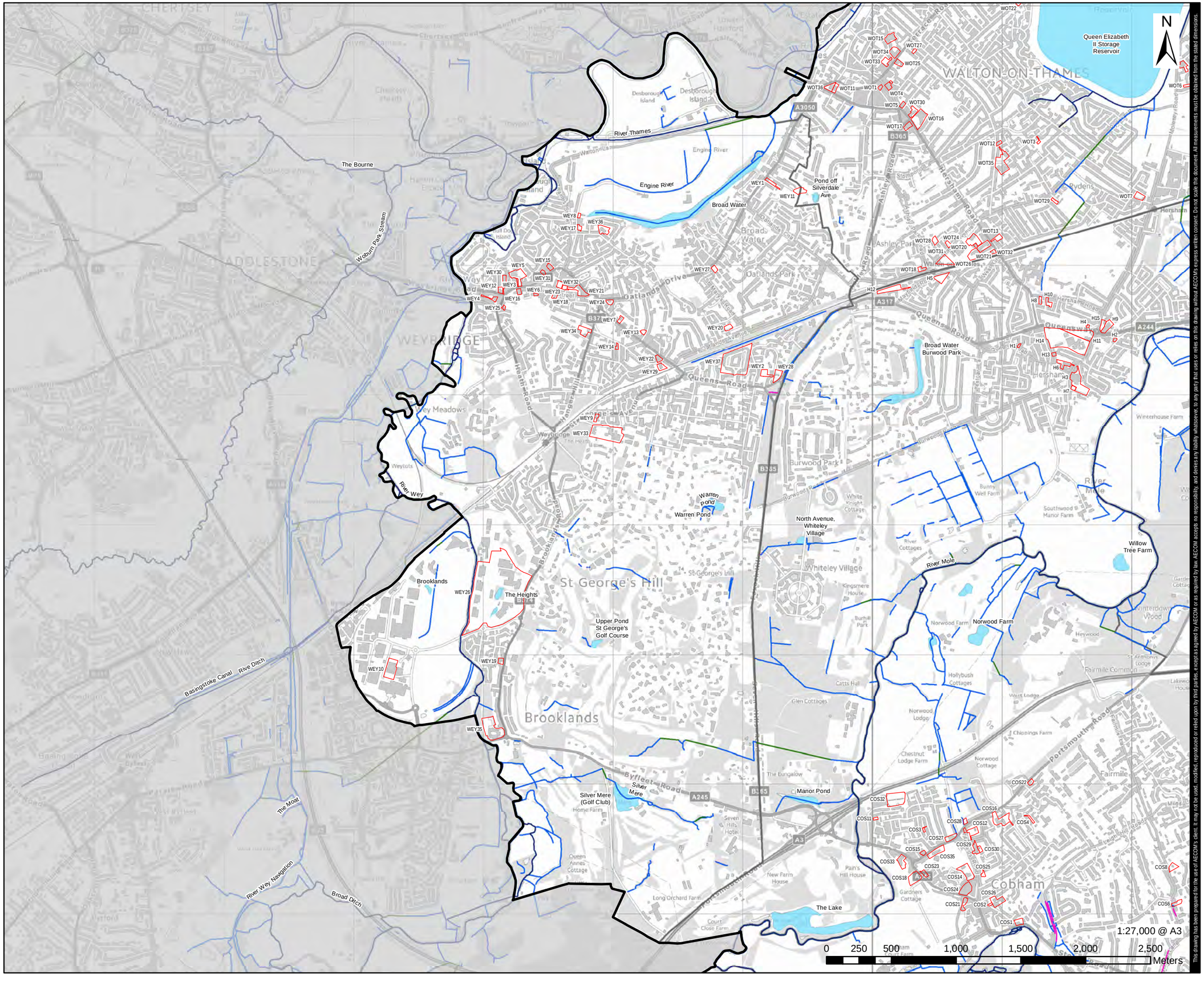

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- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

1: This map shows the predicted flood depths for the Lower Mole 2009 model during a 1% annual exceedence probability event (AEP) including a 20% allowance of climate change. It should be noted that this extent has been clipped due to updated modelling available in the Dead River Area. Refer to the SFRA Report for further detail of the modelling study used to define the depth.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 12-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-20

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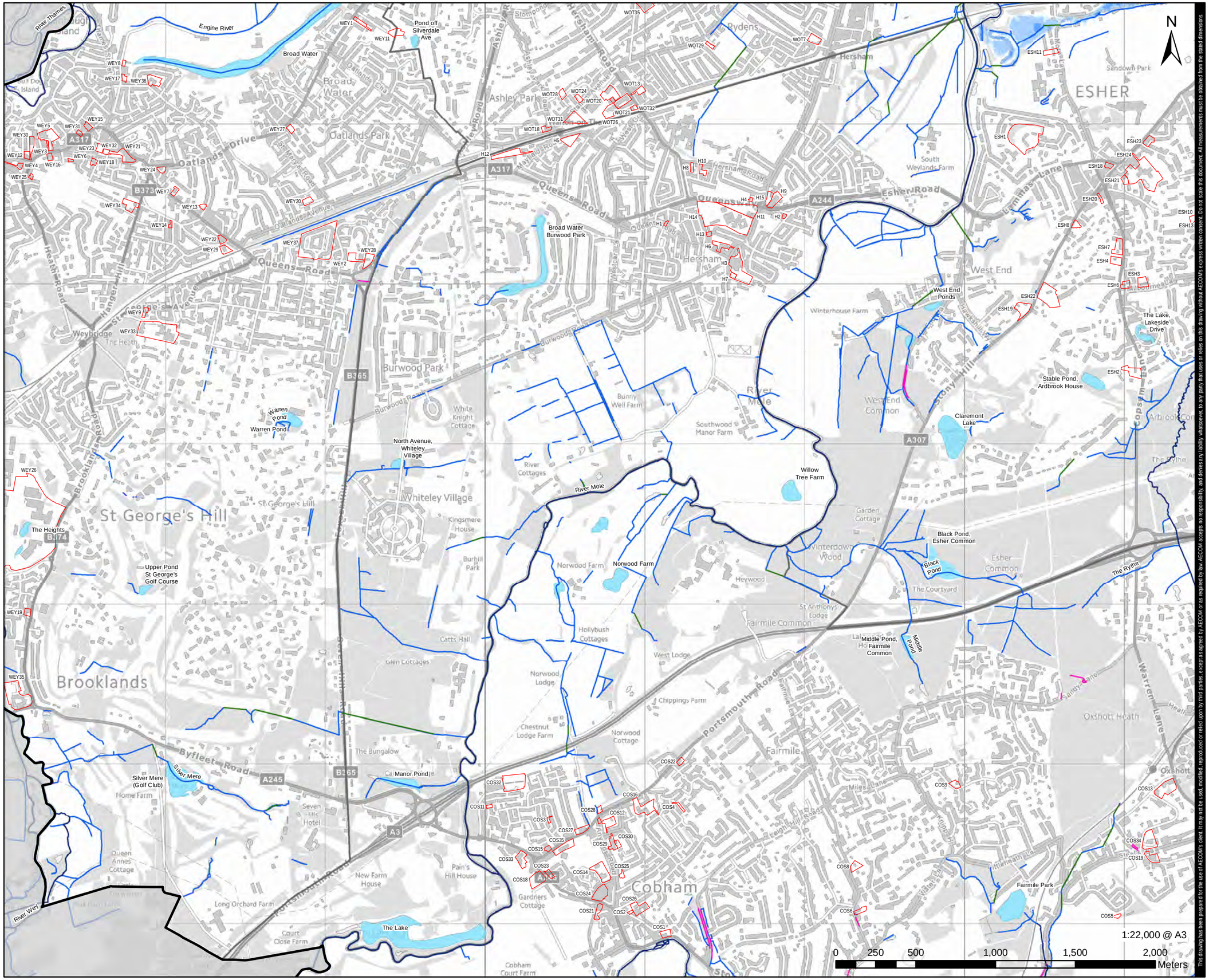

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- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 12-5

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-20

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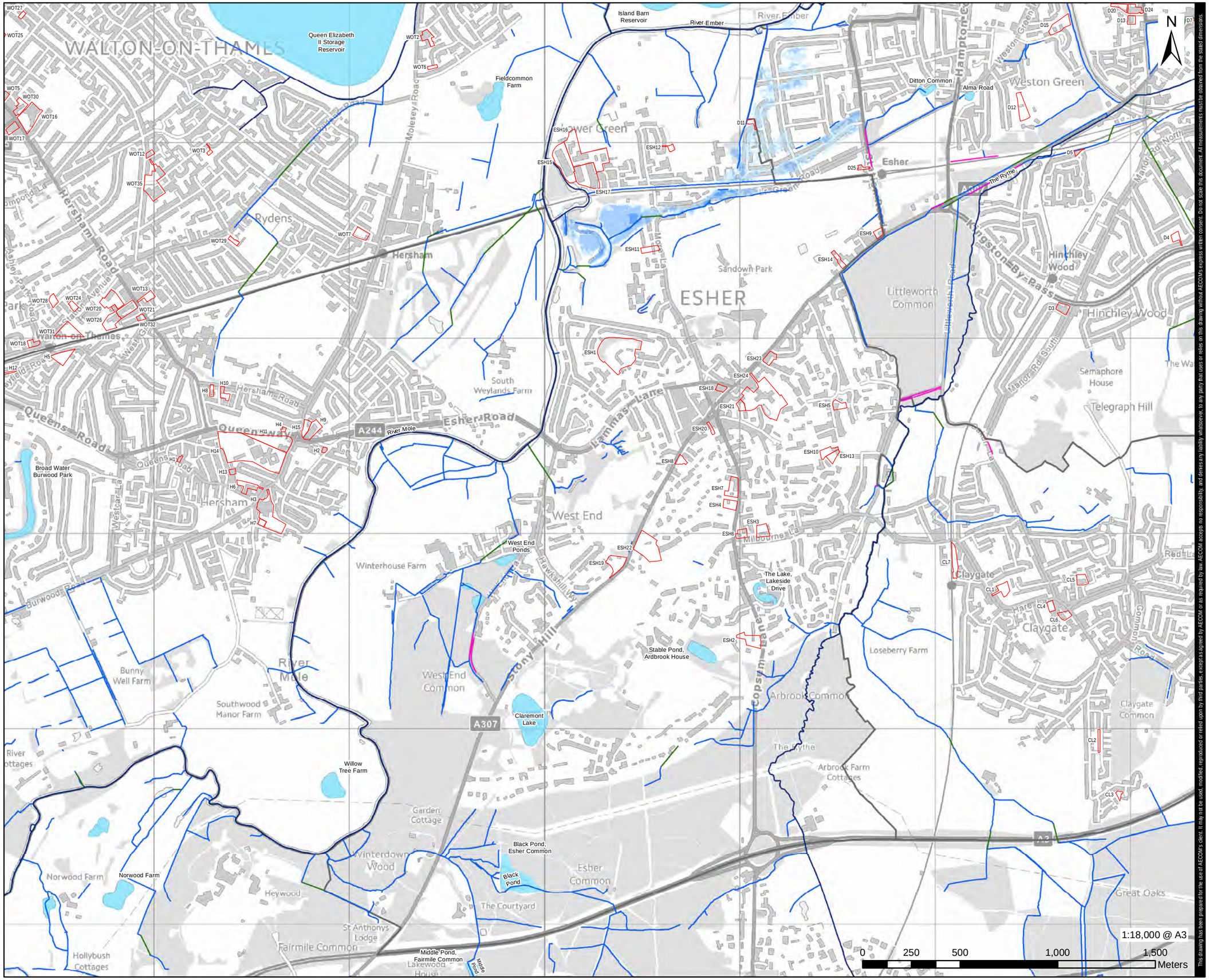

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Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 12-6

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Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

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ISSUE PURPOSE

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 12-7

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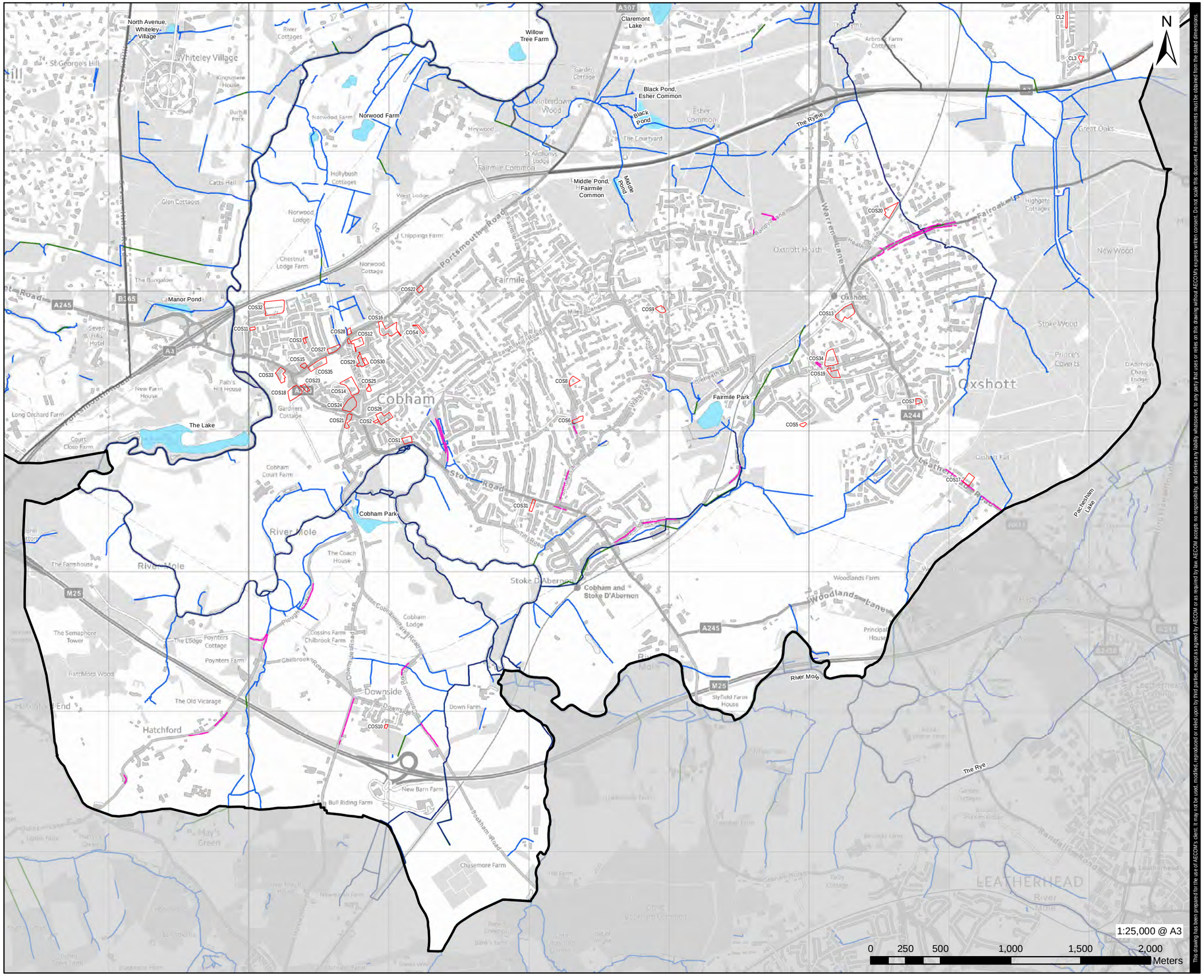

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Depth (m)

- 0 to 0.1
- 0.1 to 0.5
- 0.5 to 1
- 1 to 2
- 2 to 3
- 3<

NOTES

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FIGURE TITLE

Lower Mole Depth (1% AEP +20% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 12-8

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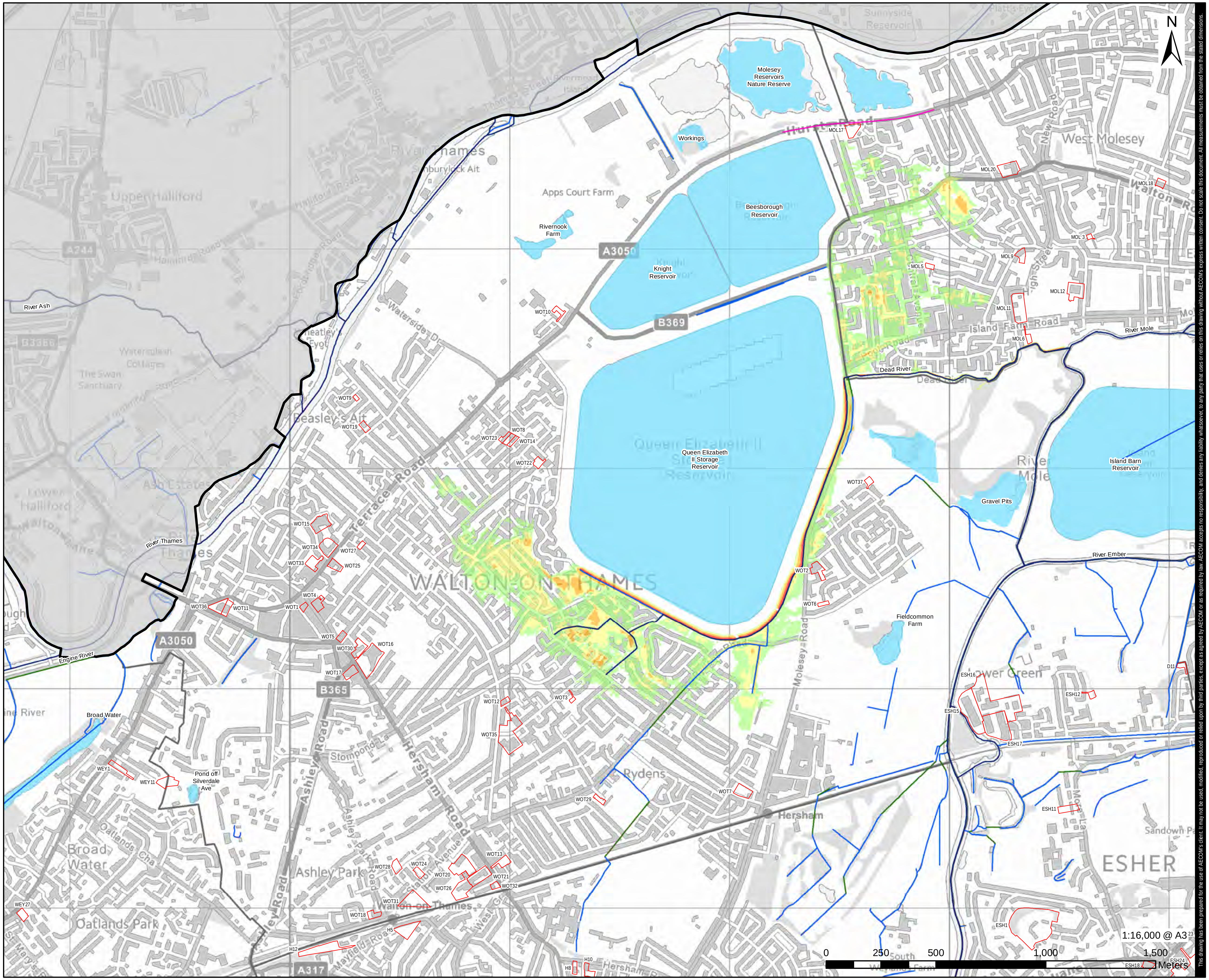

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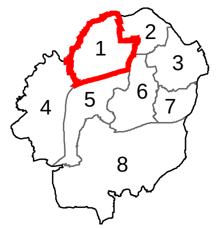

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the Dead River 2013 model during a 1% annual axceedence probability event (AEP) including a 20% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 13-1

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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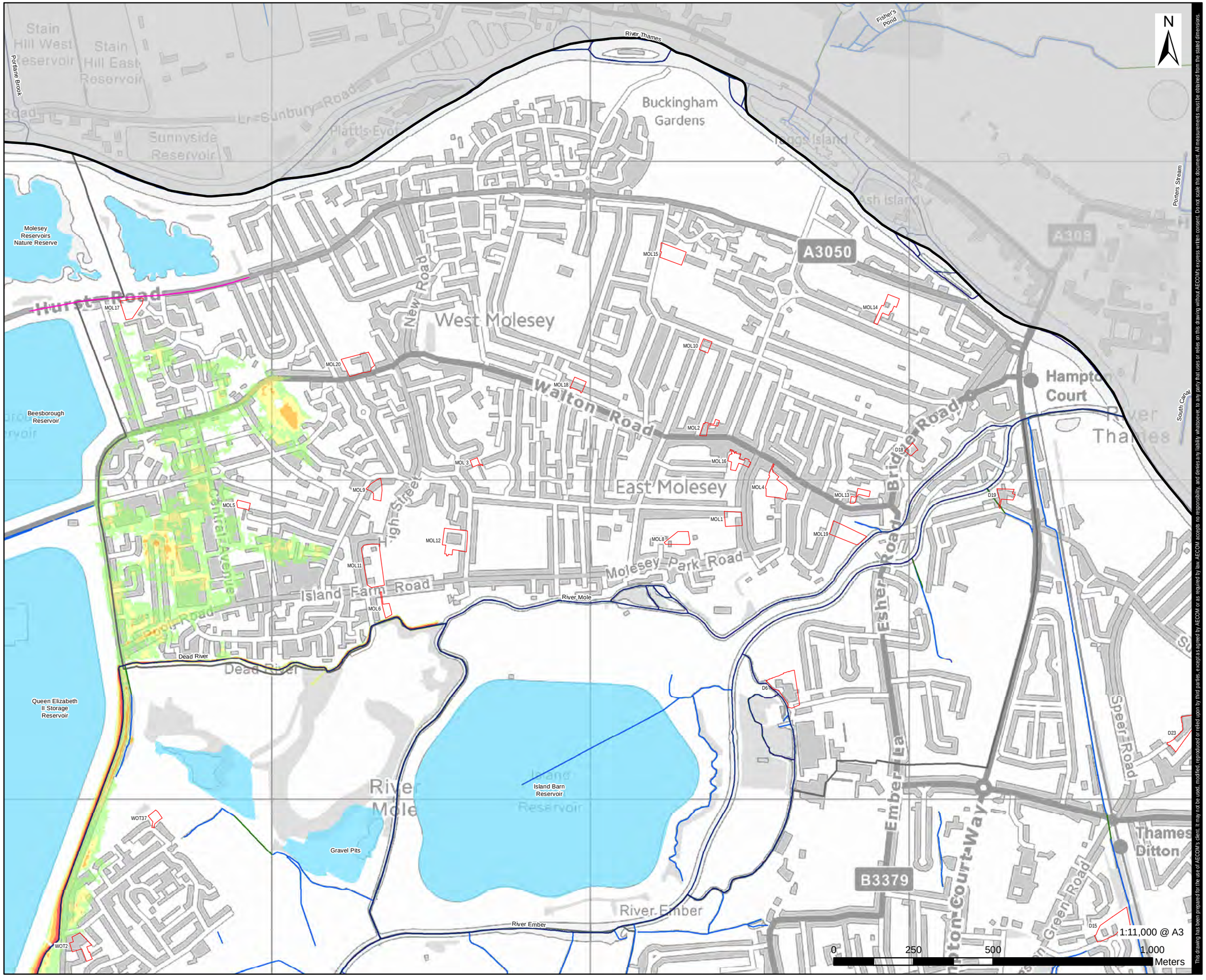

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
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Hazard Rating

- Low
- Moderate
- Significant
- Extreme

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 13-2

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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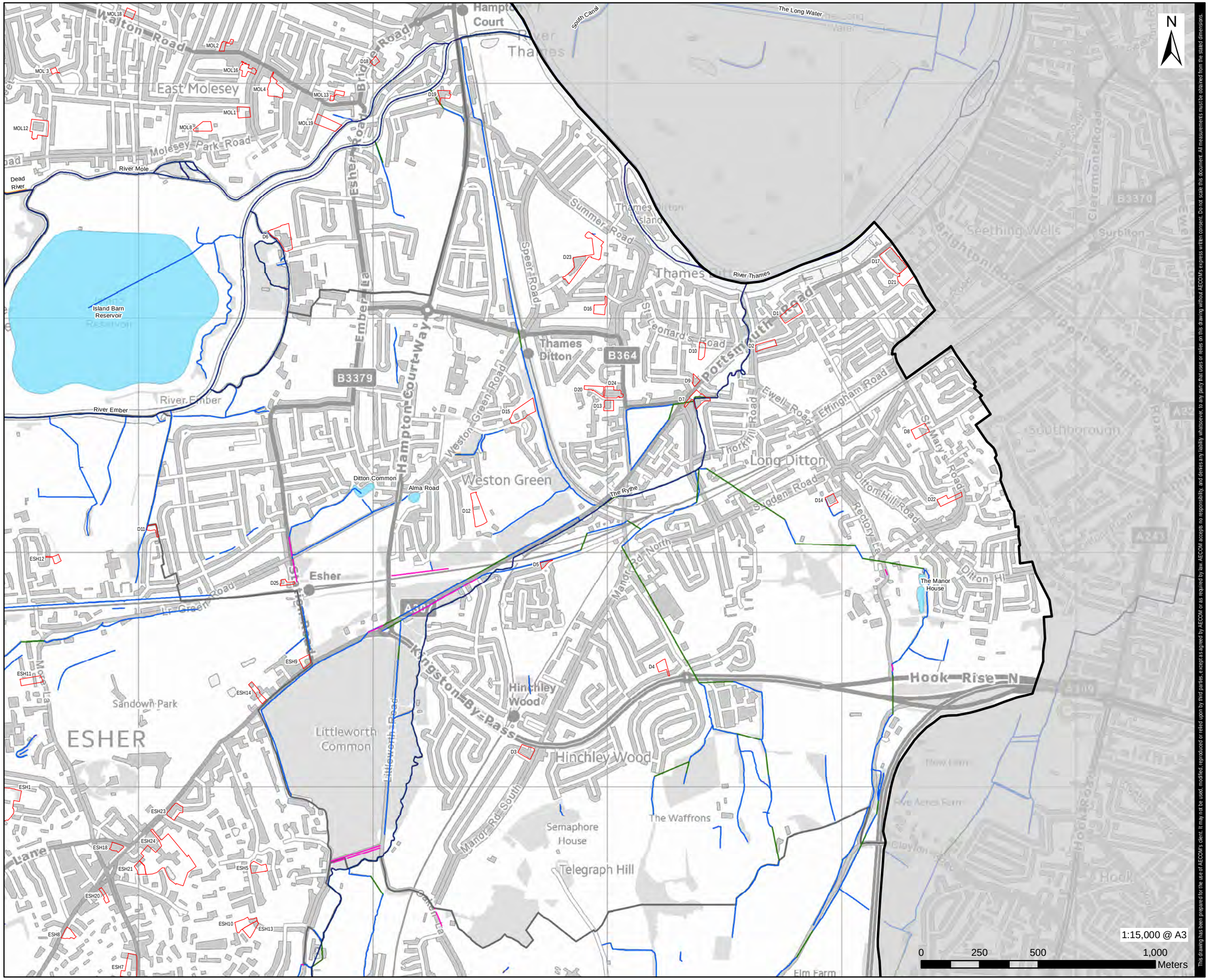

1:15,000 @ A3

0 250 500 1,000 Meters

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- Surface Water Bodies

Hazard Rating

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- Significant
- Extreme

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 13-3

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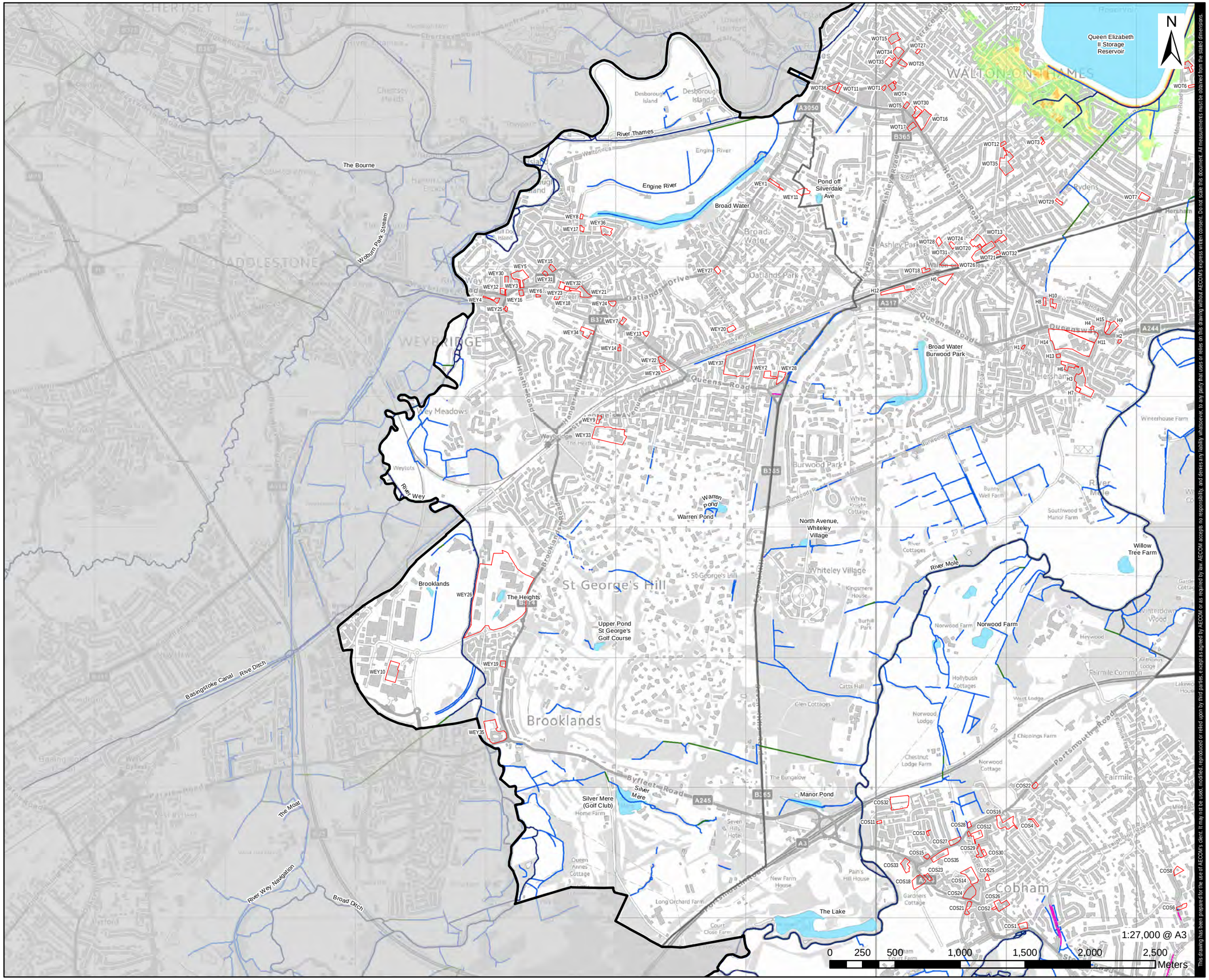

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SETTLEMENT AREAS

LEGEND

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- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

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- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 13-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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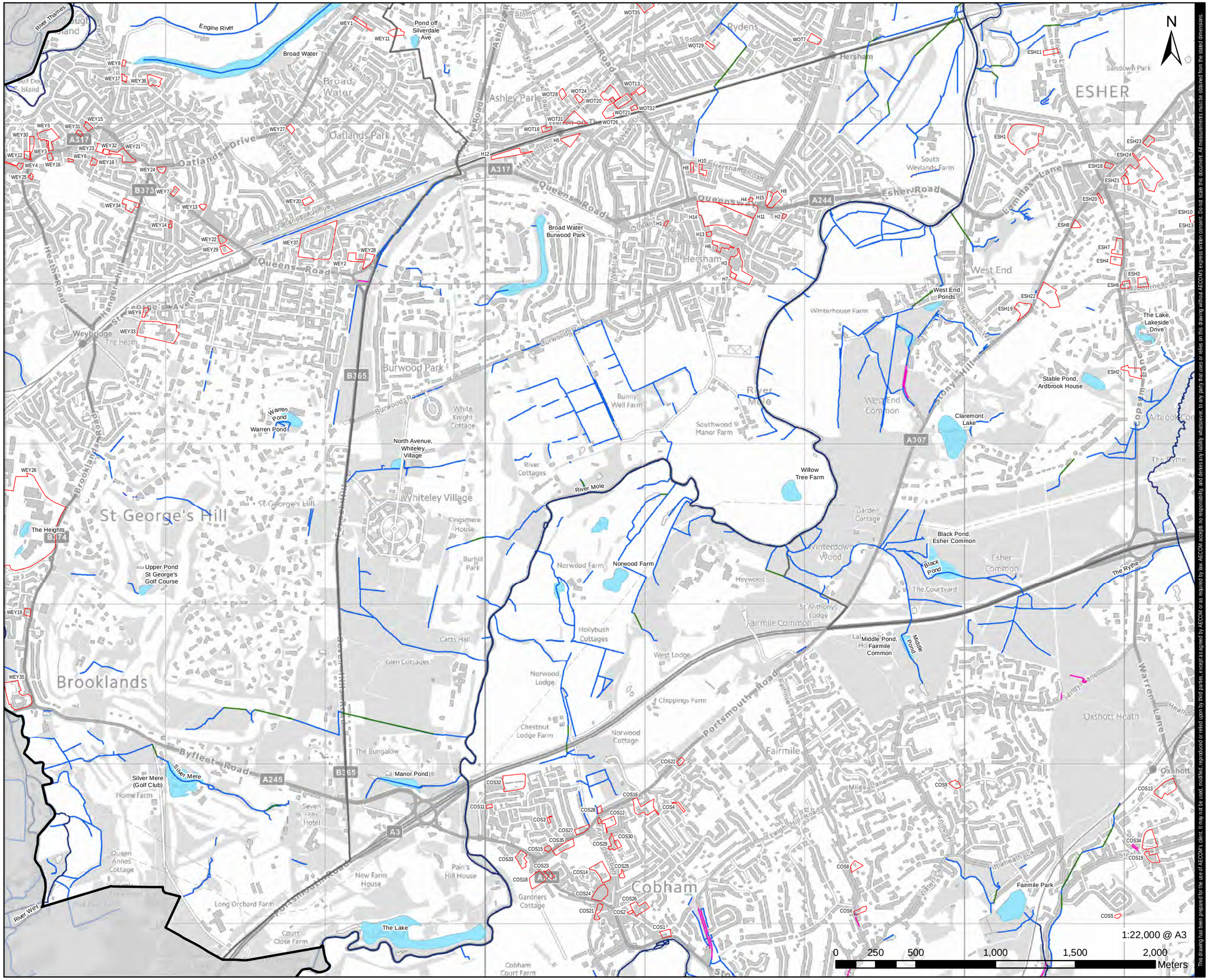

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Hazard Rating

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NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 13-5

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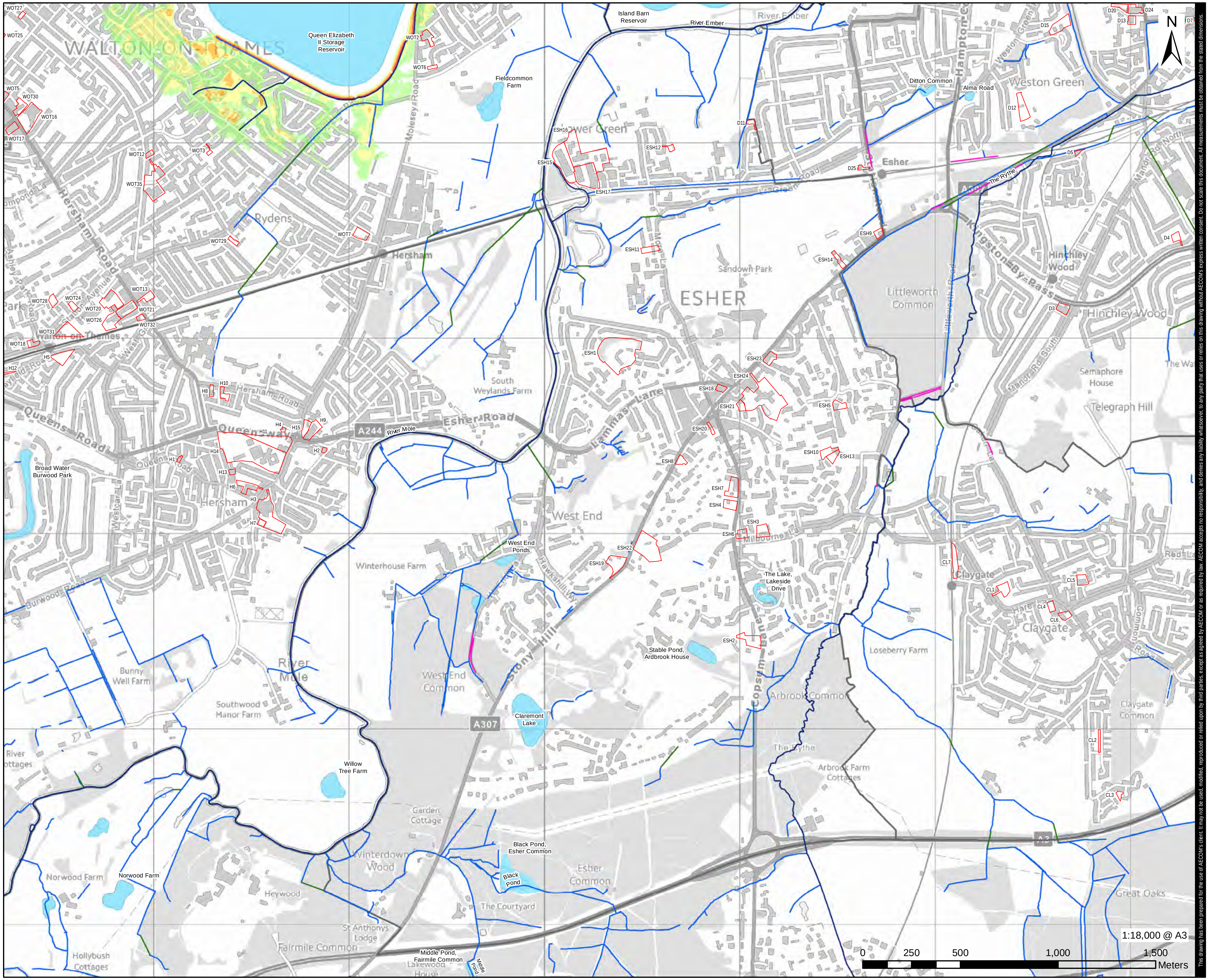

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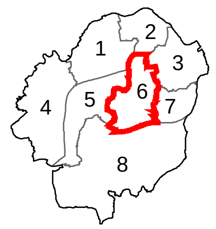

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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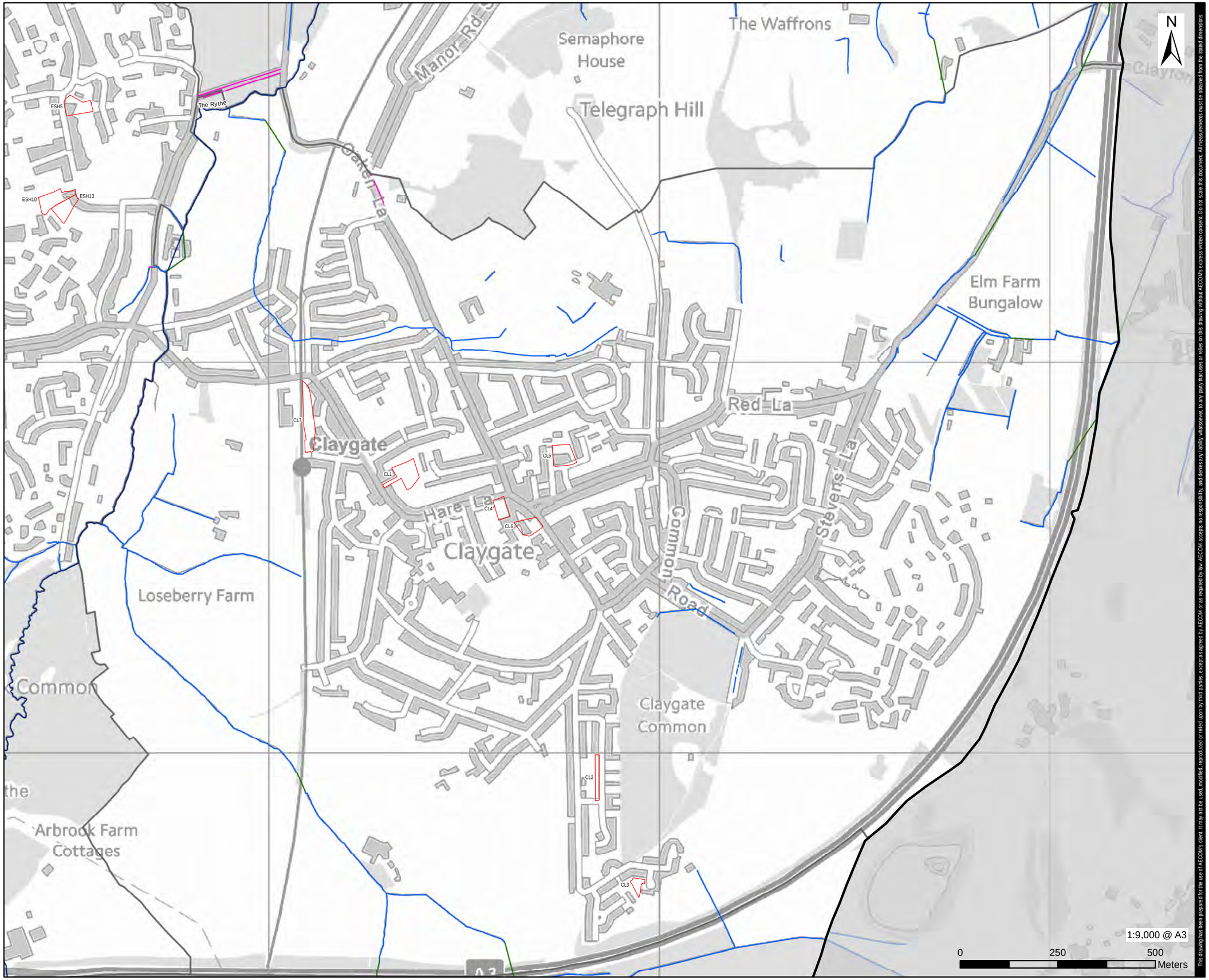
FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 13-6

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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LEGEND

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- Settlement Areas
- Allocation Sites
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- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 13-7

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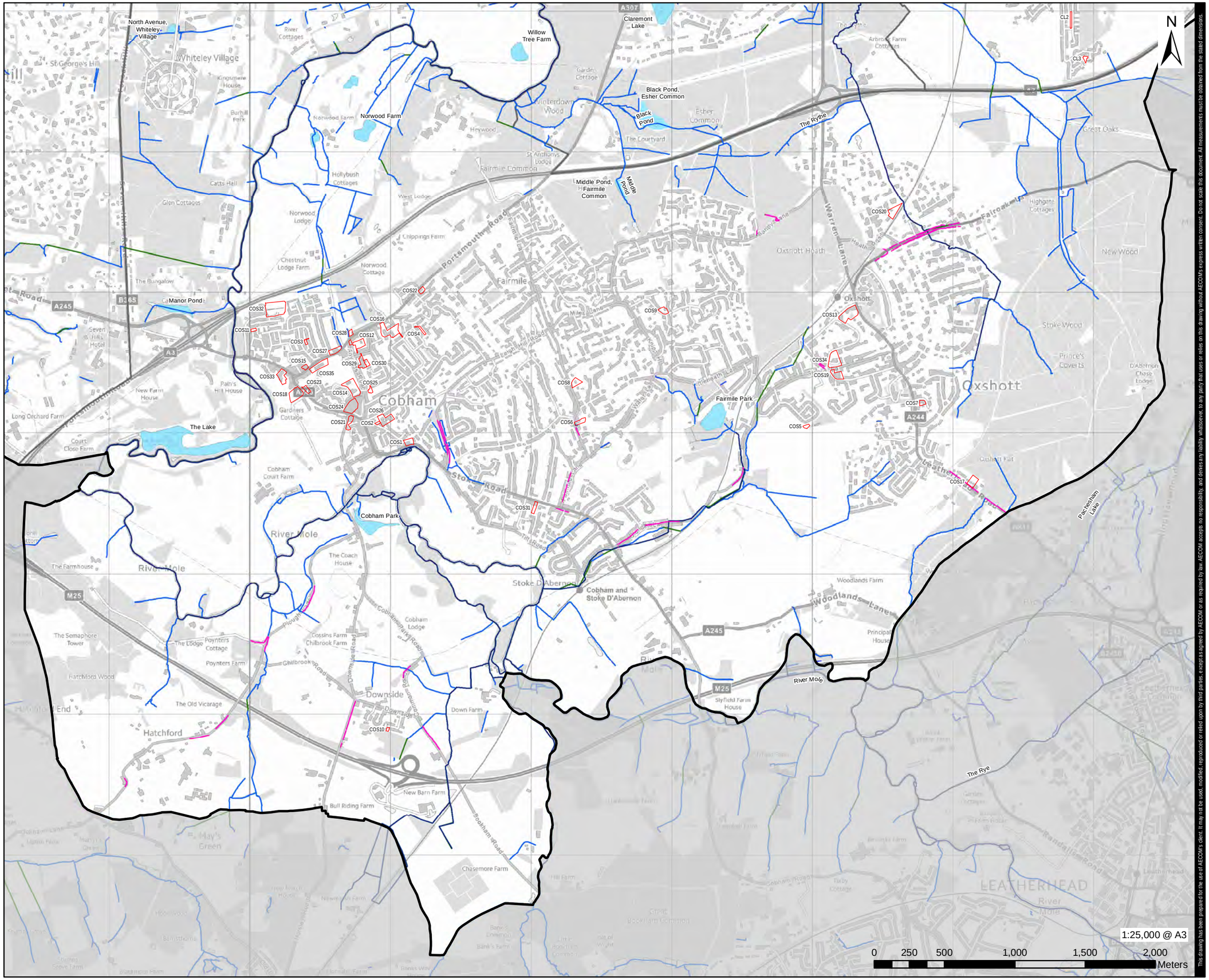

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SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Dead River Hazard (1% AEP +20% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 13-8

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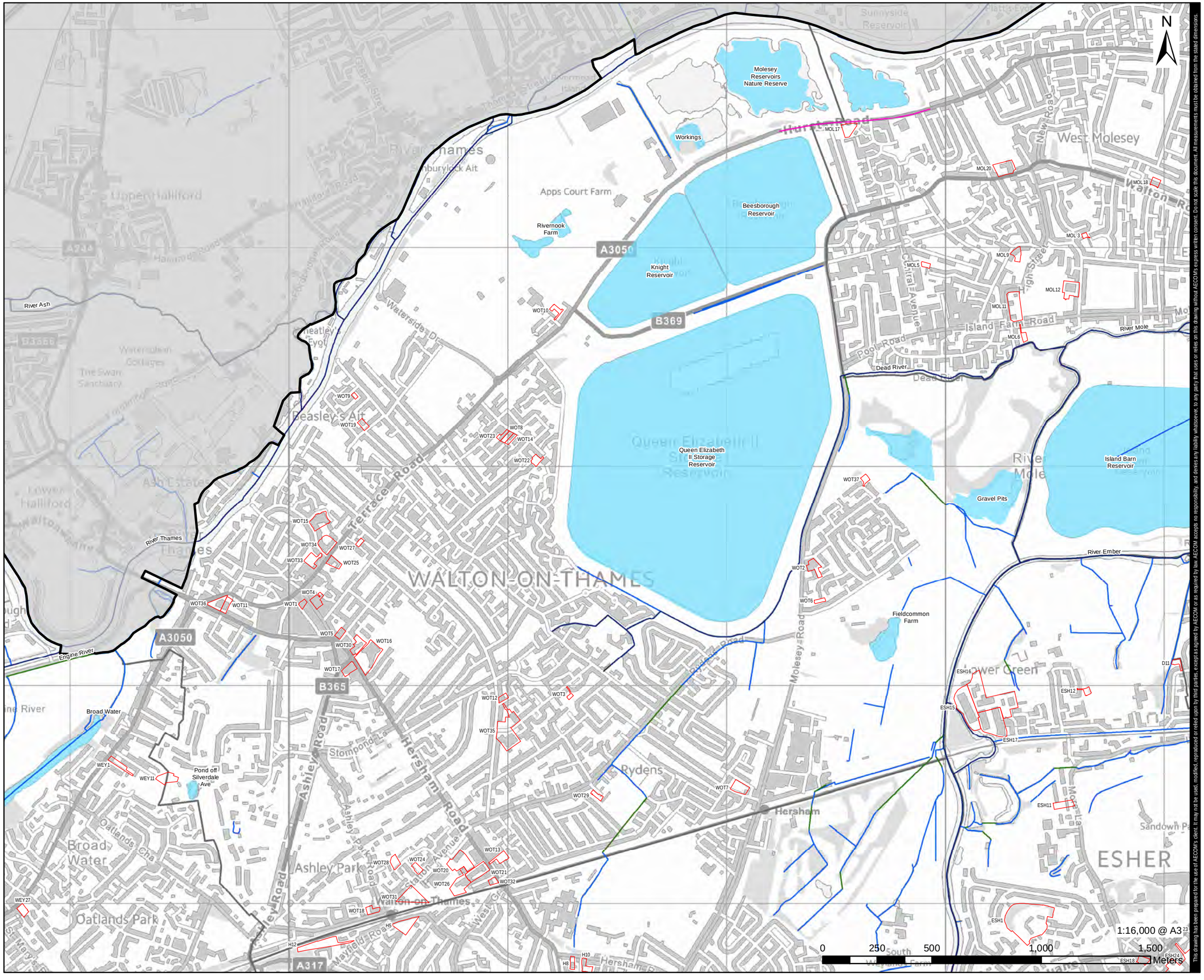

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SETTLEMENT AREAS

LEGEND

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NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Walton On Thames

FIGURE NUMBER

Figure 14-1

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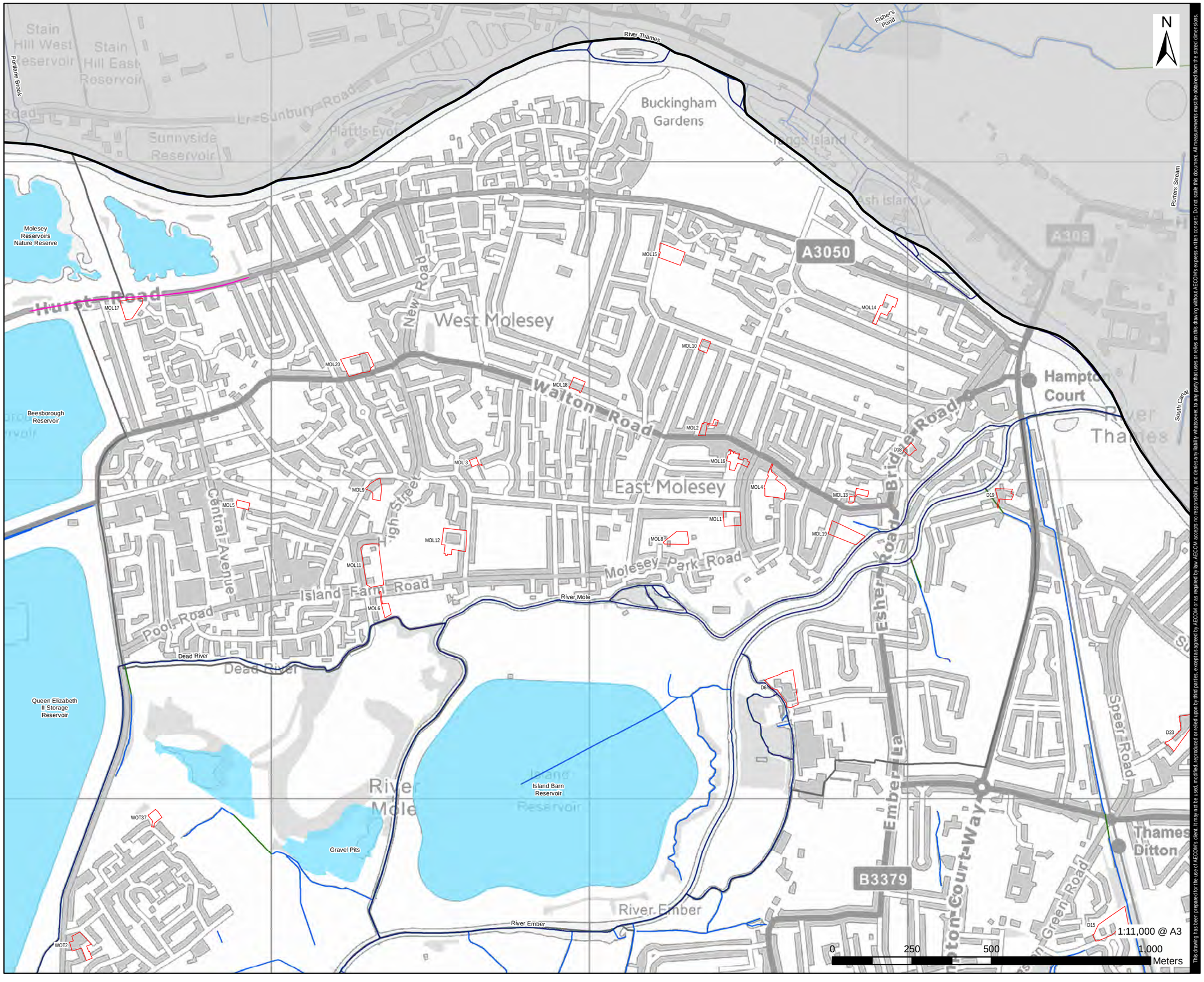

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

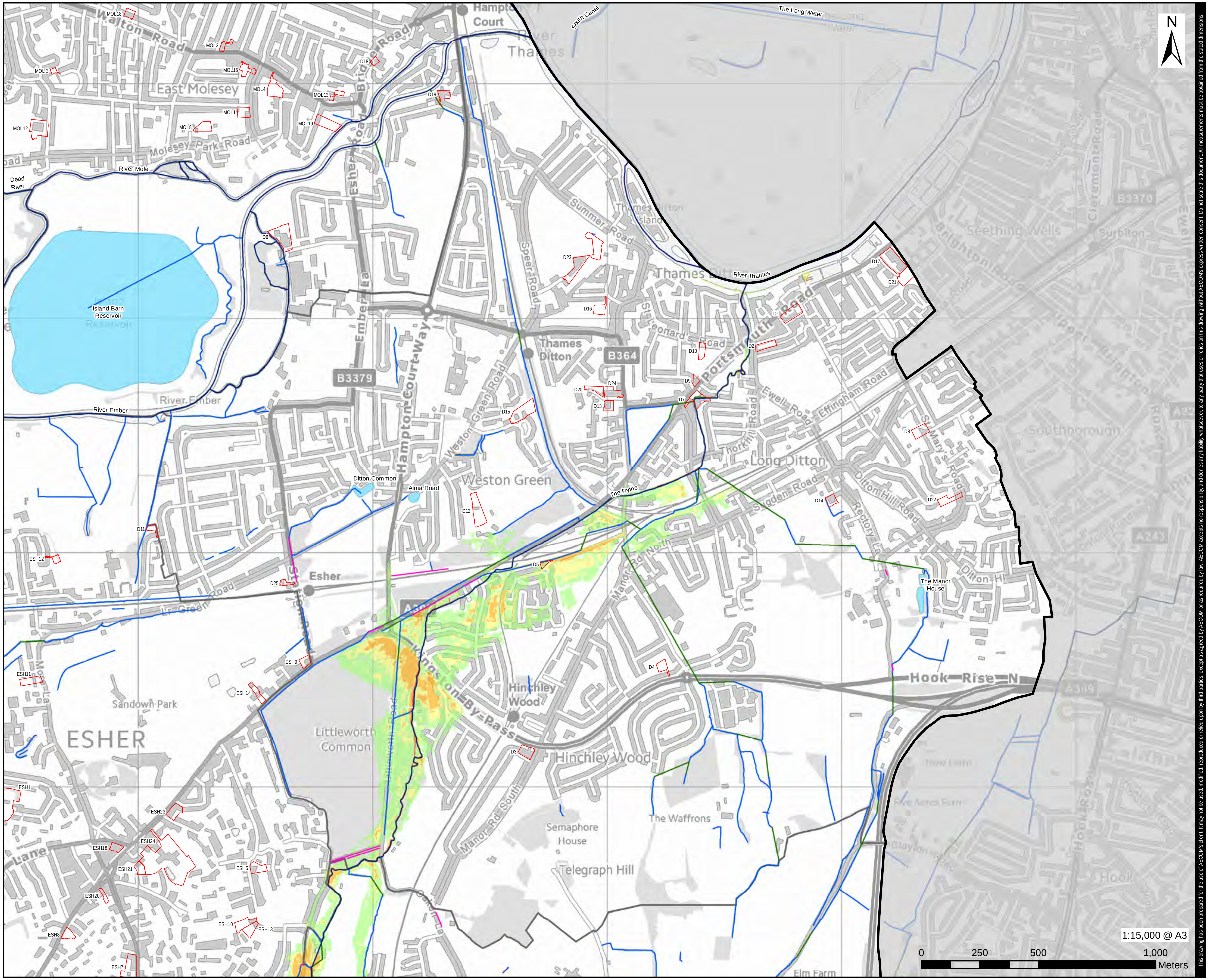
FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - East and West Molesey

FIGURE NUMBER

Figure 14-2

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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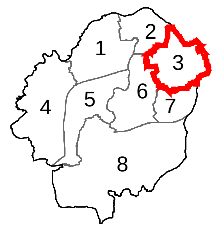

LEGEND

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

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FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 14-3

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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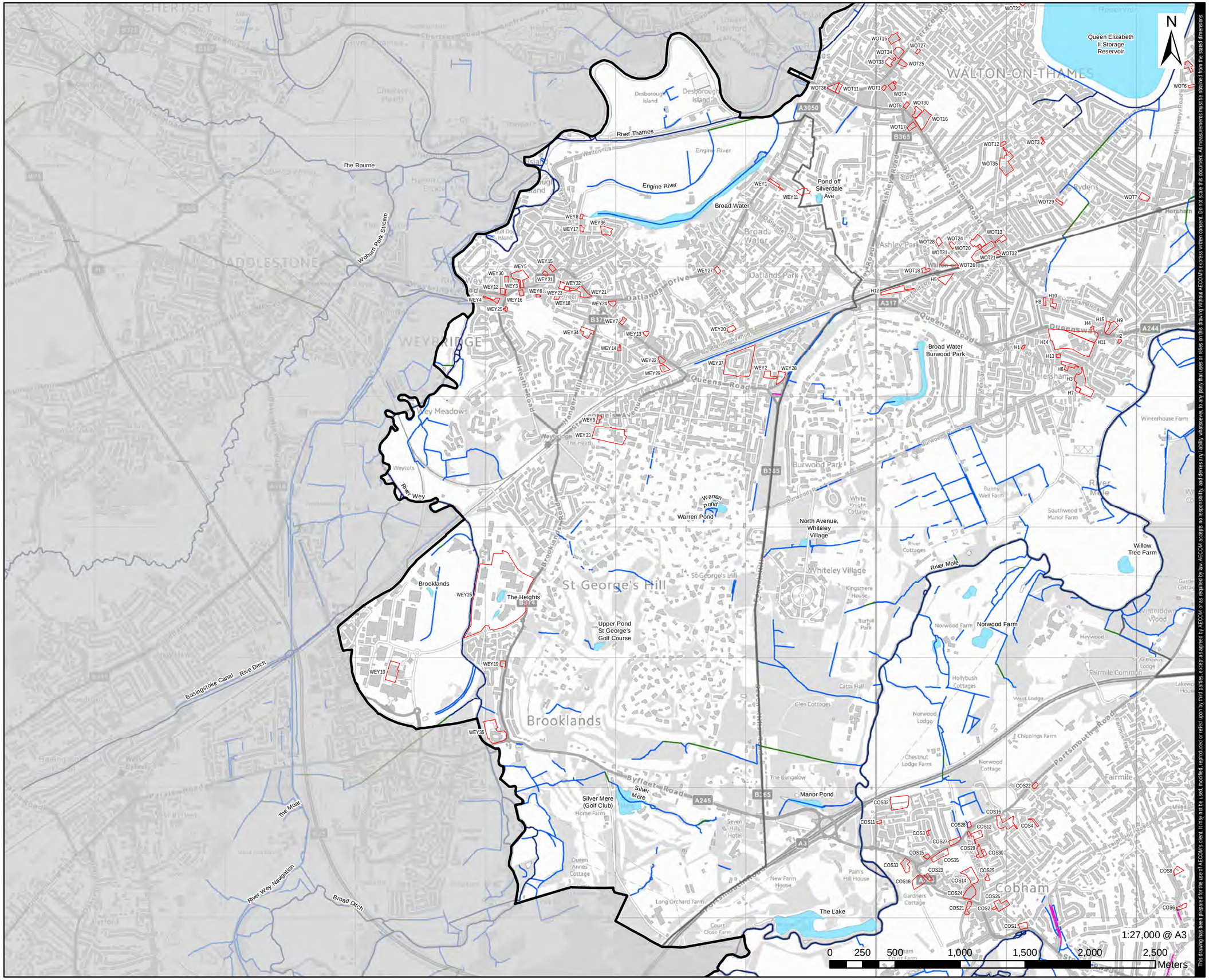

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PROJECT NUMBER

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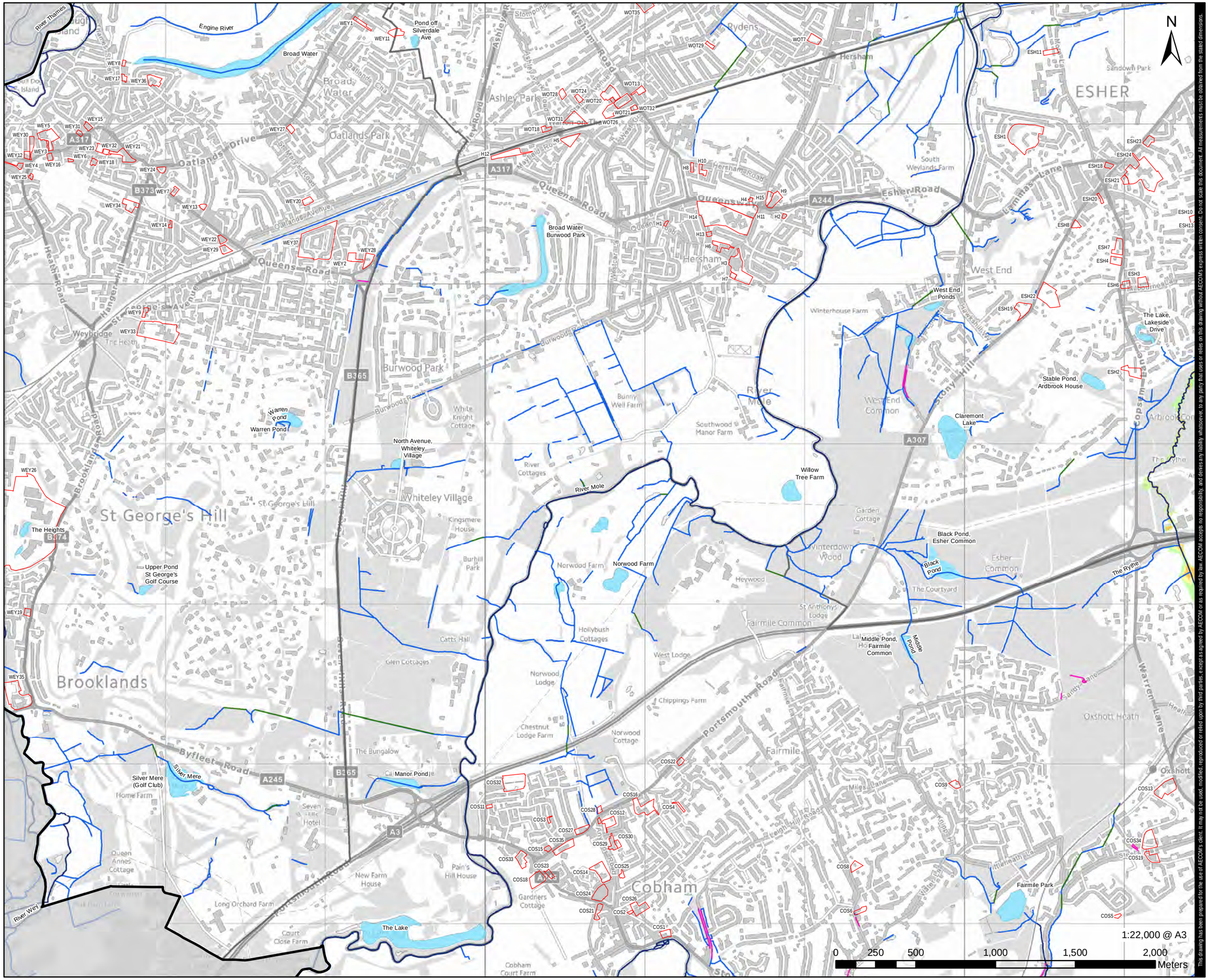
FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Weybridge

FIGURE NUMBER

Figure 14-4



Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16

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Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

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CONSULTANT

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www.aecom.com

SETTLEMENT AREAS

LEGEND

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

Hazard Rating

- 🟩 Low
- 🟨 Moderate
- 🟧 Significant
- 🟥 Extreme

NOTES

1: This map shows the predicted flood hazard for the River Rythe 2016 model during a 1% annual axceedence probability event (AEP) including a 20% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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

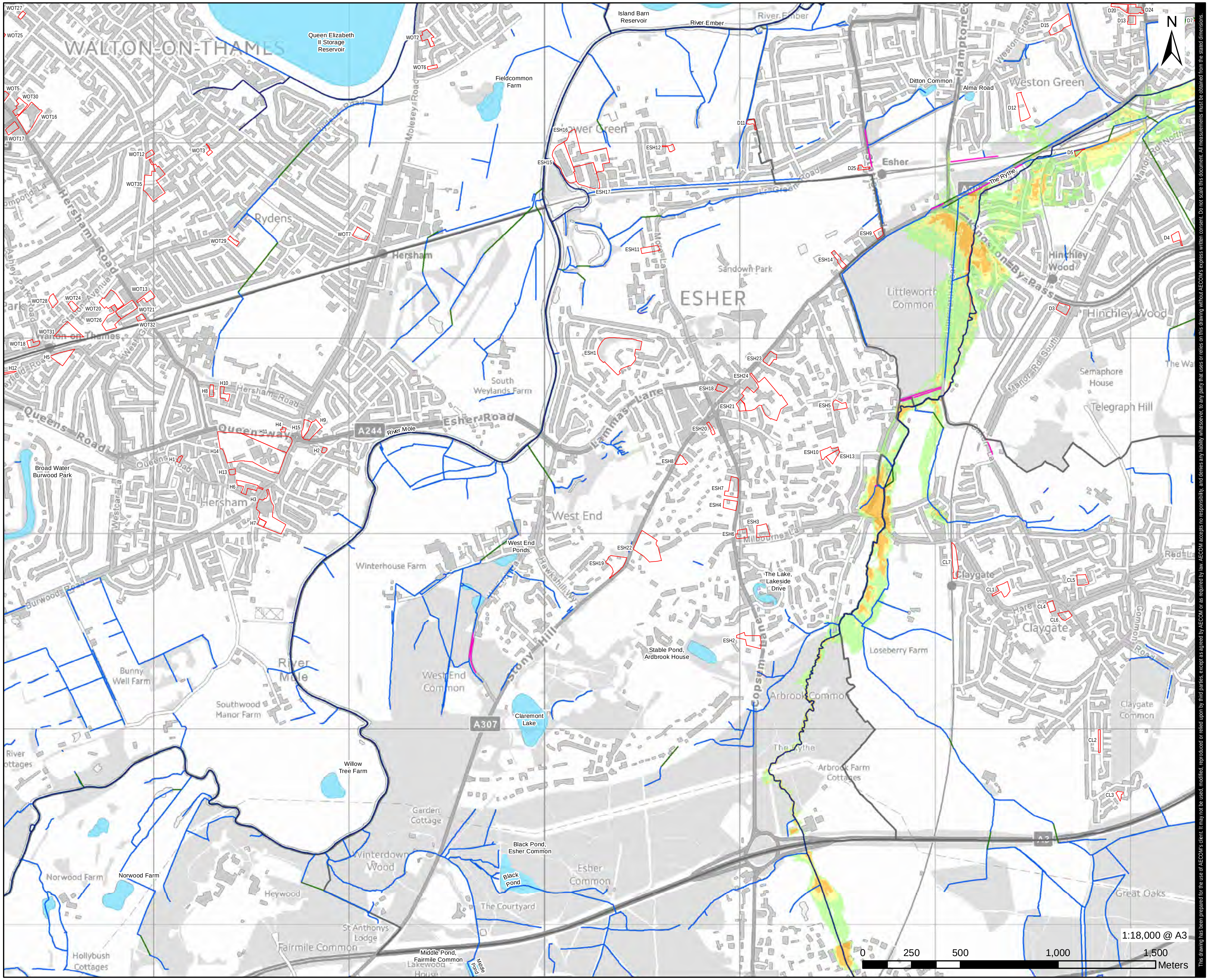
FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Hersham

FIGURE NUMBER

Figure 14-5

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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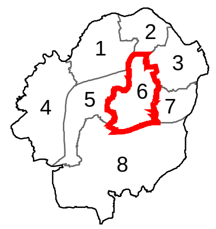
SETTLEMENT AREAS



LEGEND

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

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

1: This map shows the predicted flood hazard for the River Rythe 2016 model during a 1% annual axceedence probability event (AEP) including a 20% allowance of climate change. Refer to the SFRA Report for further detail of the modelling study used to define the hazard.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Esher

FIGURE NUMBER

Figure 14-6

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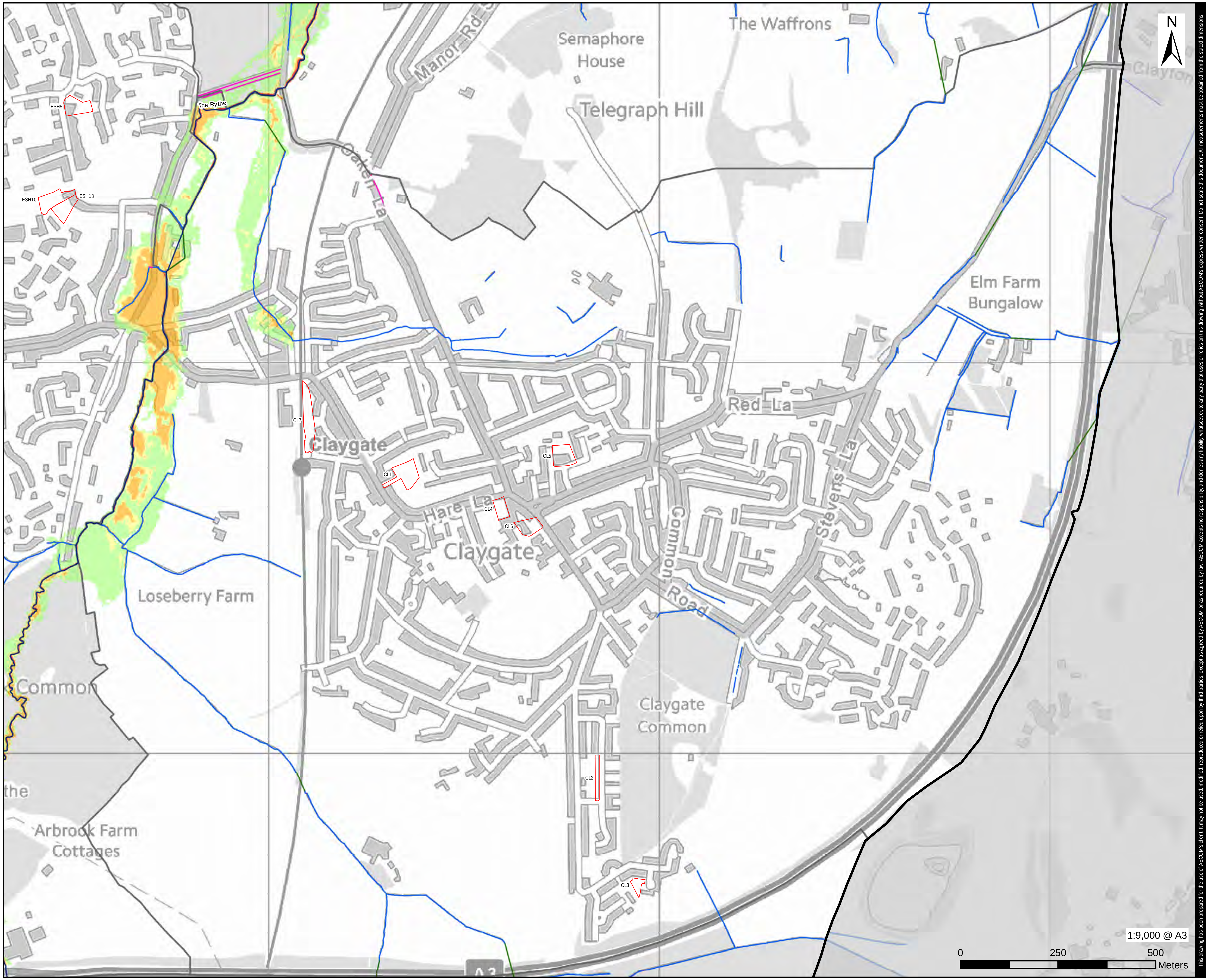

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- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Claygate

FIGURE NUMBER

Figure 14-7

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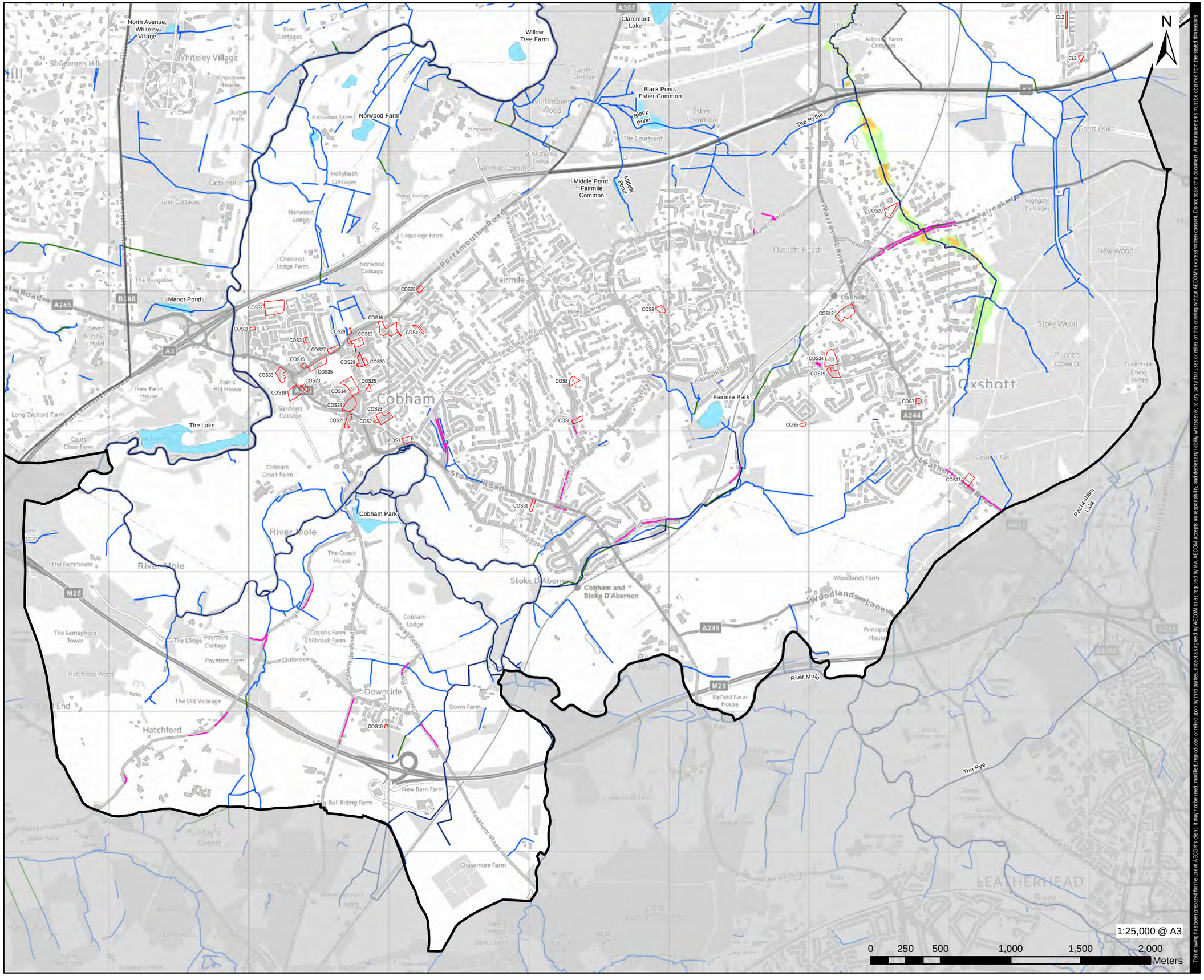

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- Settlement Areas
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
- Surrey County Council Highways Ditch
- Surface Water Bodies

Hazard Rating

- Low
- Moderate
- Significant
- Extreme

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

River Rythe Hazard (1% AEP +20% Climate Change Allowance) - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 14-8

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-20

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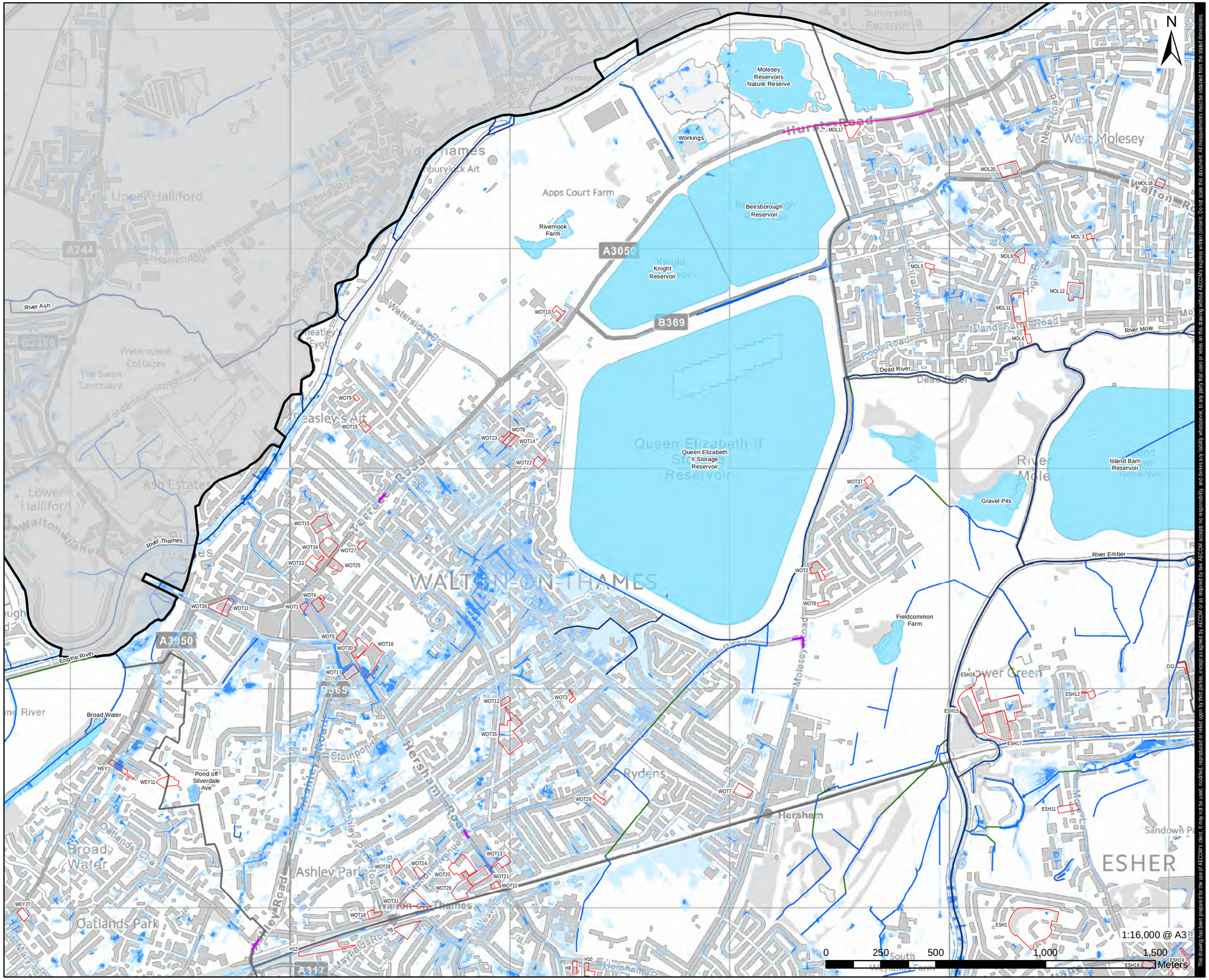

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LEGEND

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- Settlement Areas
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
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- Surface Water Bodies
- Surrey CC Wetspots

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.
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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.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - Walton On Thames

FIGURE NUMBER

Figure 15-1

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-20

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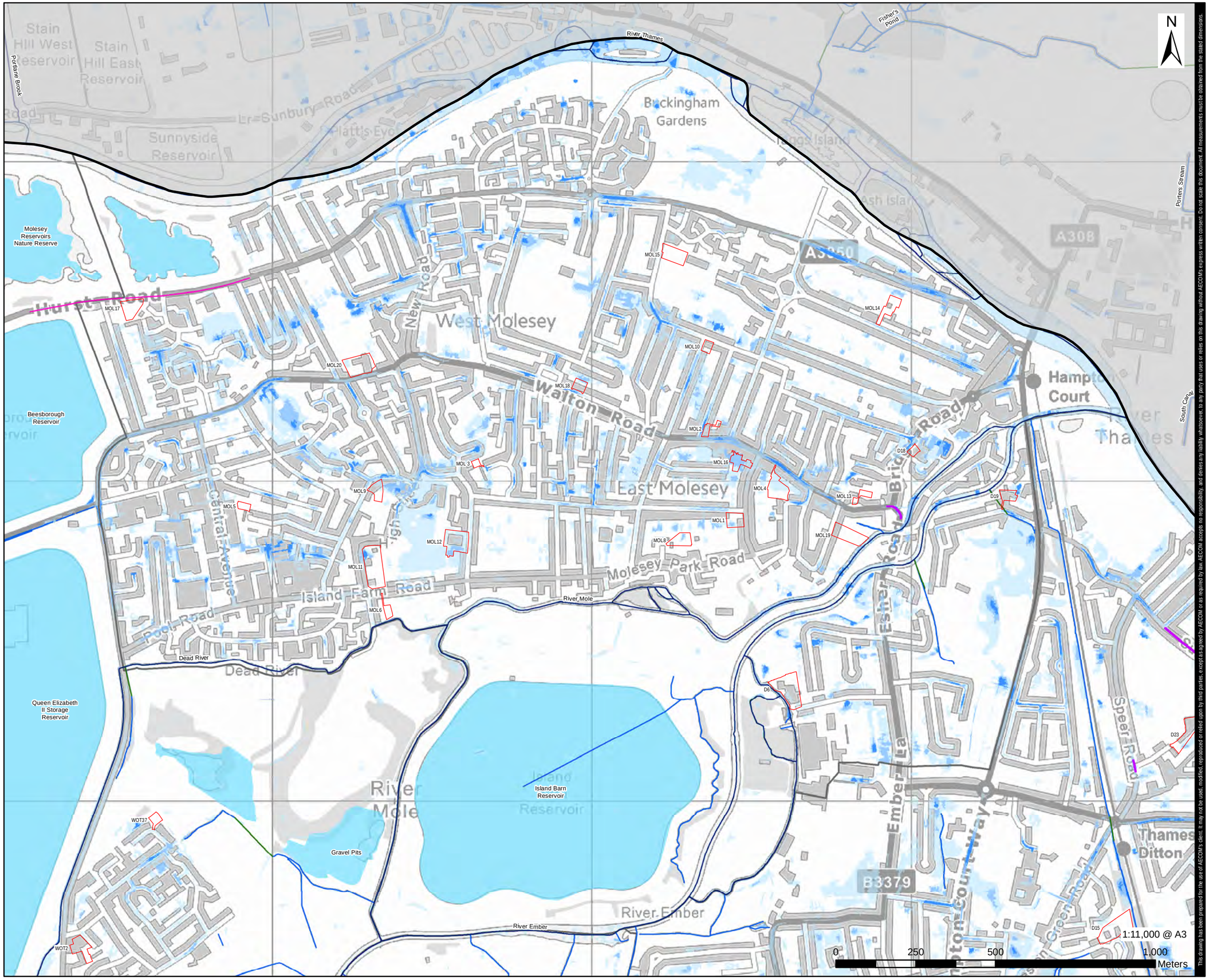

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- Settlement Areas
- Allocation Sites
- EA Main River
- Open Ordinary Watercourses
- Culverted Ordinary Watercourse
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- Surface Water Bodies
- Surrey CC Wetspots

Risk of Flooding from Surface Water

- High
- Medium
- Low

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - East and West Molesey

FIGURE NUMBER

Figure 15-2

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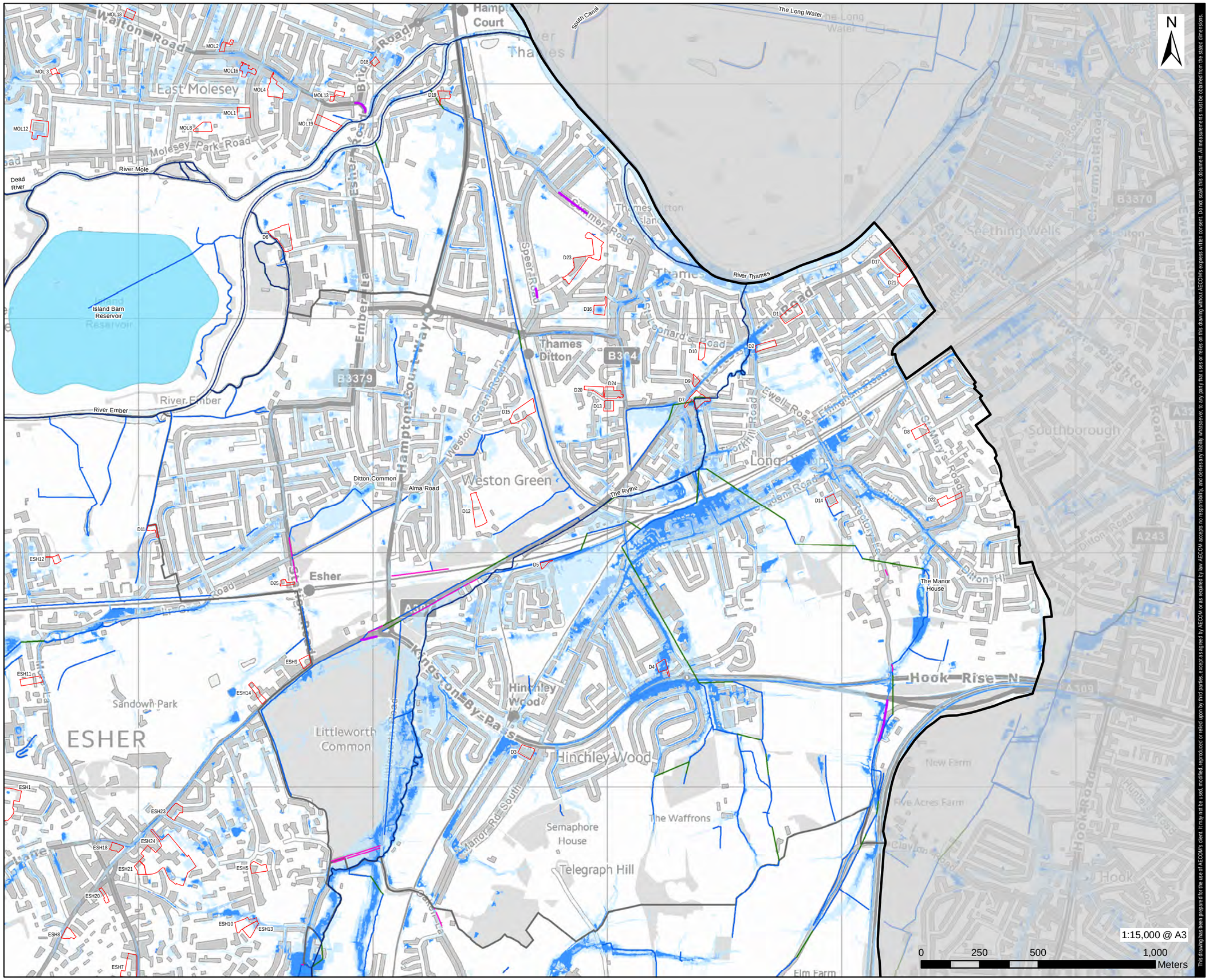

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council
- Settlement
- Allocation Sites
- EA Main River
- Open Ordinary
- Culverted Ordinary
- Surrey County Council Highways Ditch
- Surface Water Bodies
- Surrey CC Wetspots

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.
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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 15-3

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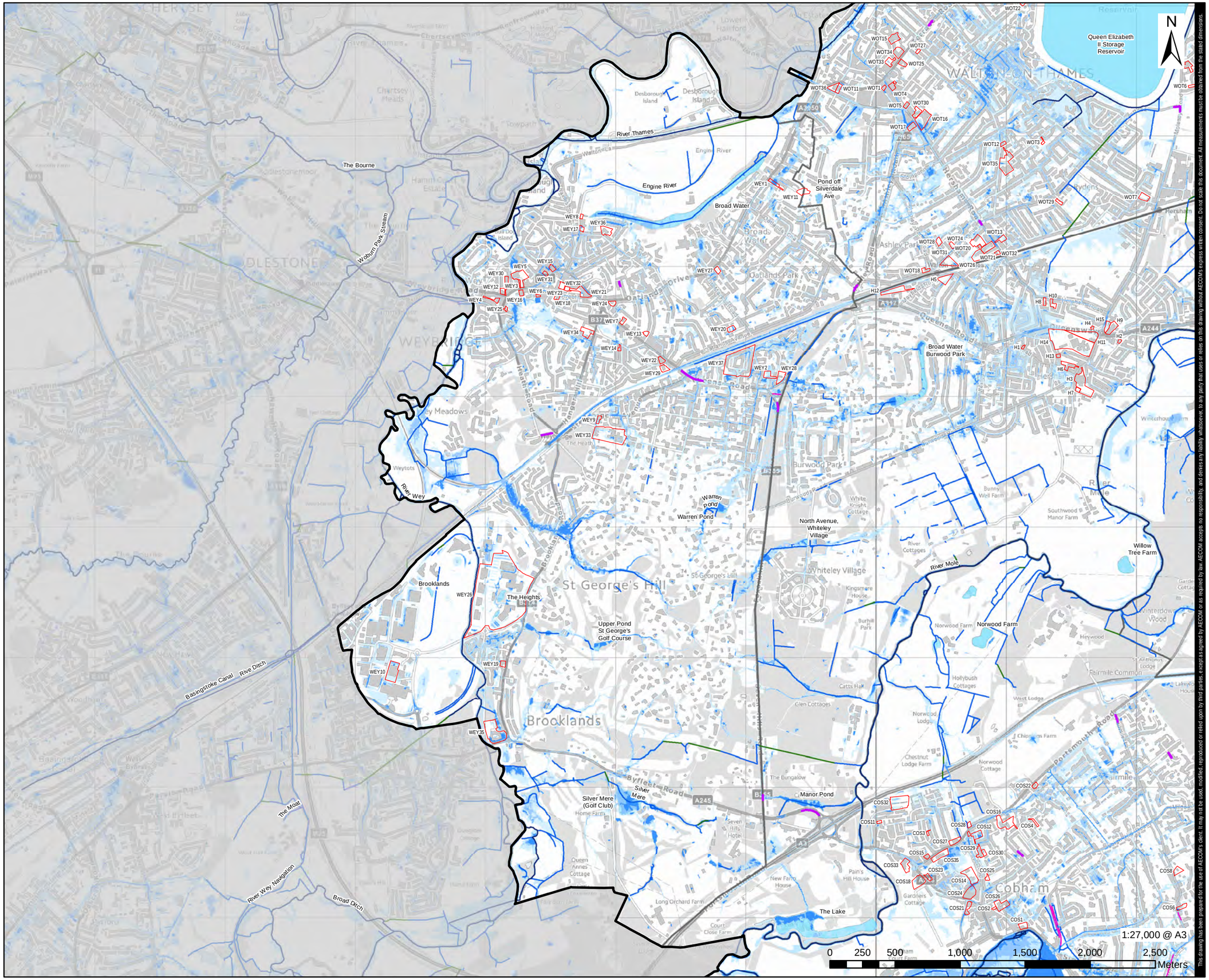

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LEGEND

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Risk of Flooding from Surface Water

- High
- Medium
- Low

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - Weybridge

FIGURE NUMBER

Figure 15-4

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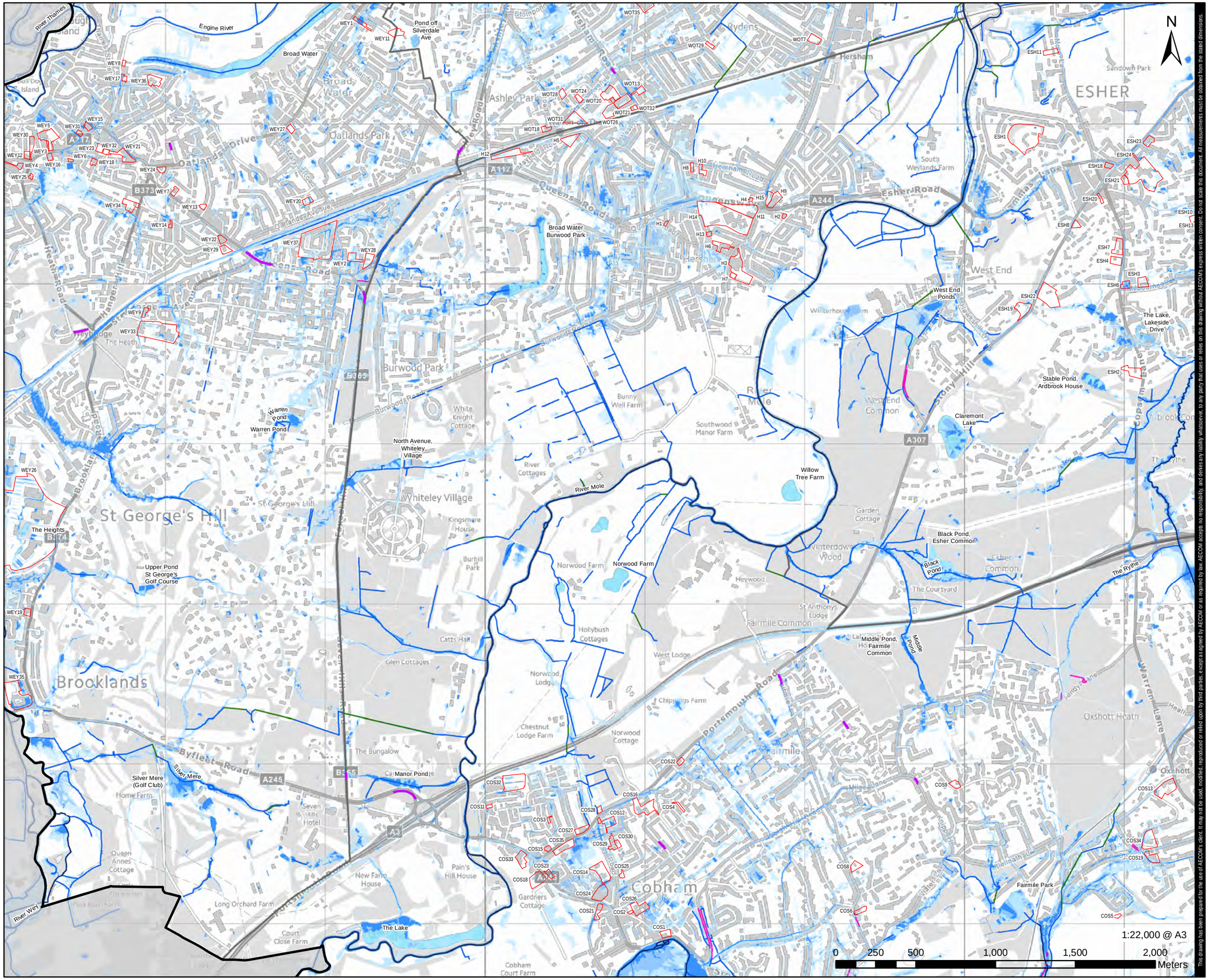

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Risk of Flooding from Surface Water

- High
- Medium
- Low

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - Hersham

FIGURE NUMBER

Figure 15-5

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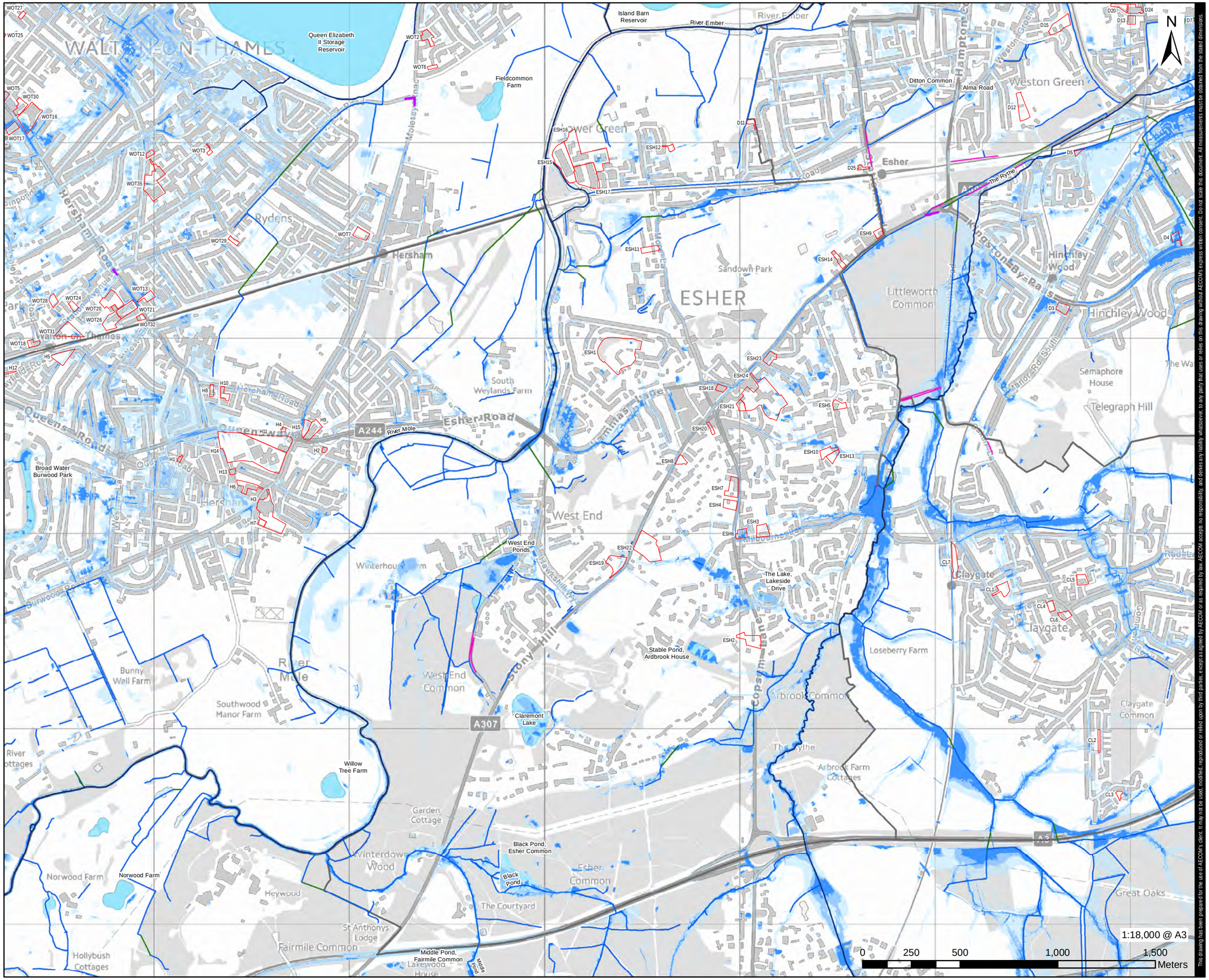

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Risk of Flooding from Surface Water

- High
- Medium
- Low

NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Risk of Flooding from Surface Water - Esher

FIGURE NUMBER

Figure 15-6

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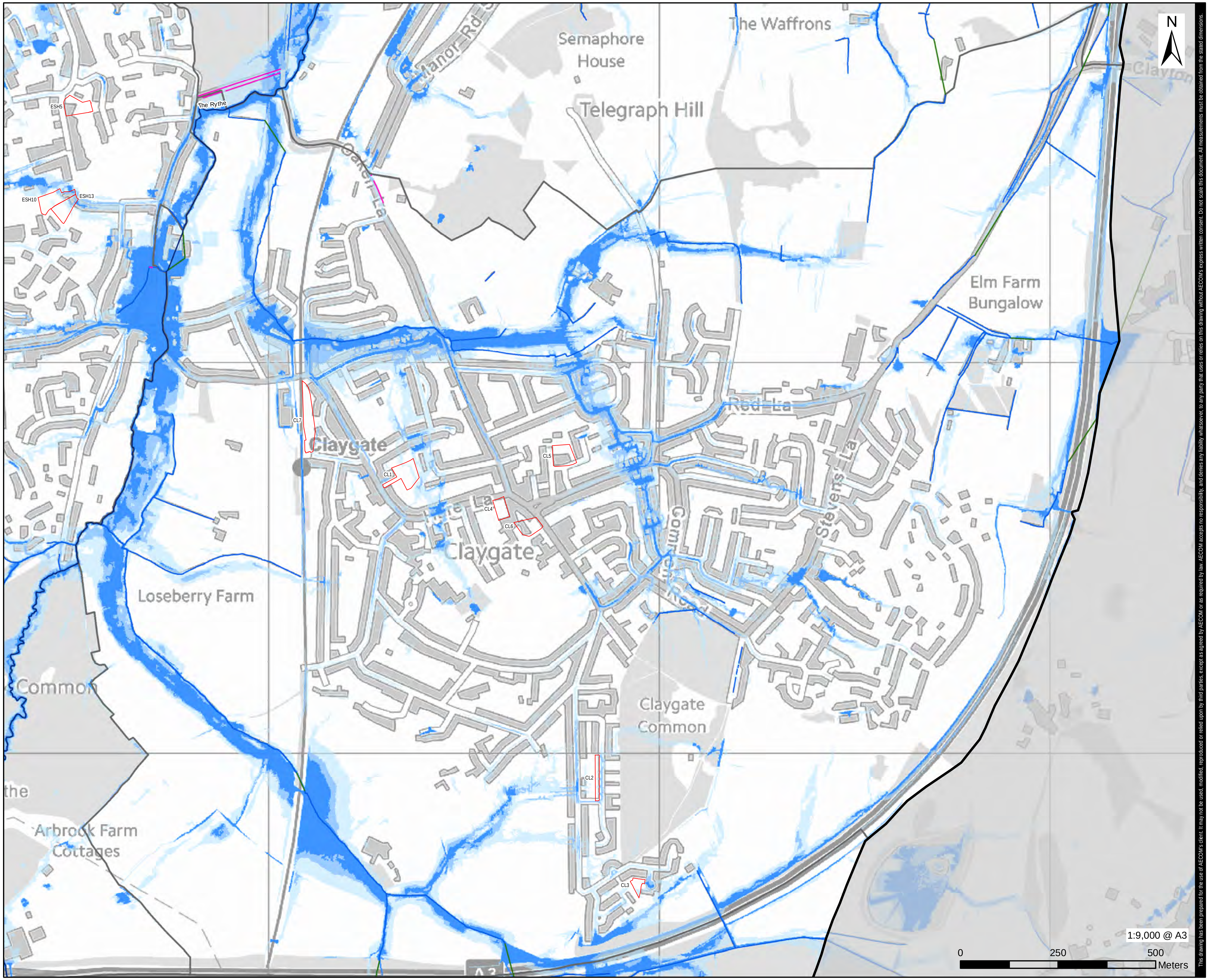

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PROJECT

Elmbridge Borough Council Level 2 Strategic Flood Risk Assessment

CLIENT

Elmbridge Borough Council

CONSULTANT

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RG21 7PP
www.aecom.com

SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council
- Settlement
- Allocation Sites
- EA Main River
- Open Ordinary
- Culverted Ordinary
- Surrey County Council Highways Ditch
- Surface Water Bodies
- Surrey CC Wetspots

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 (https://www.gov.uk/check-long-term-flood-risk).
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.
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

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - Claygate

FIGURE NUMBER

Figure 15-7

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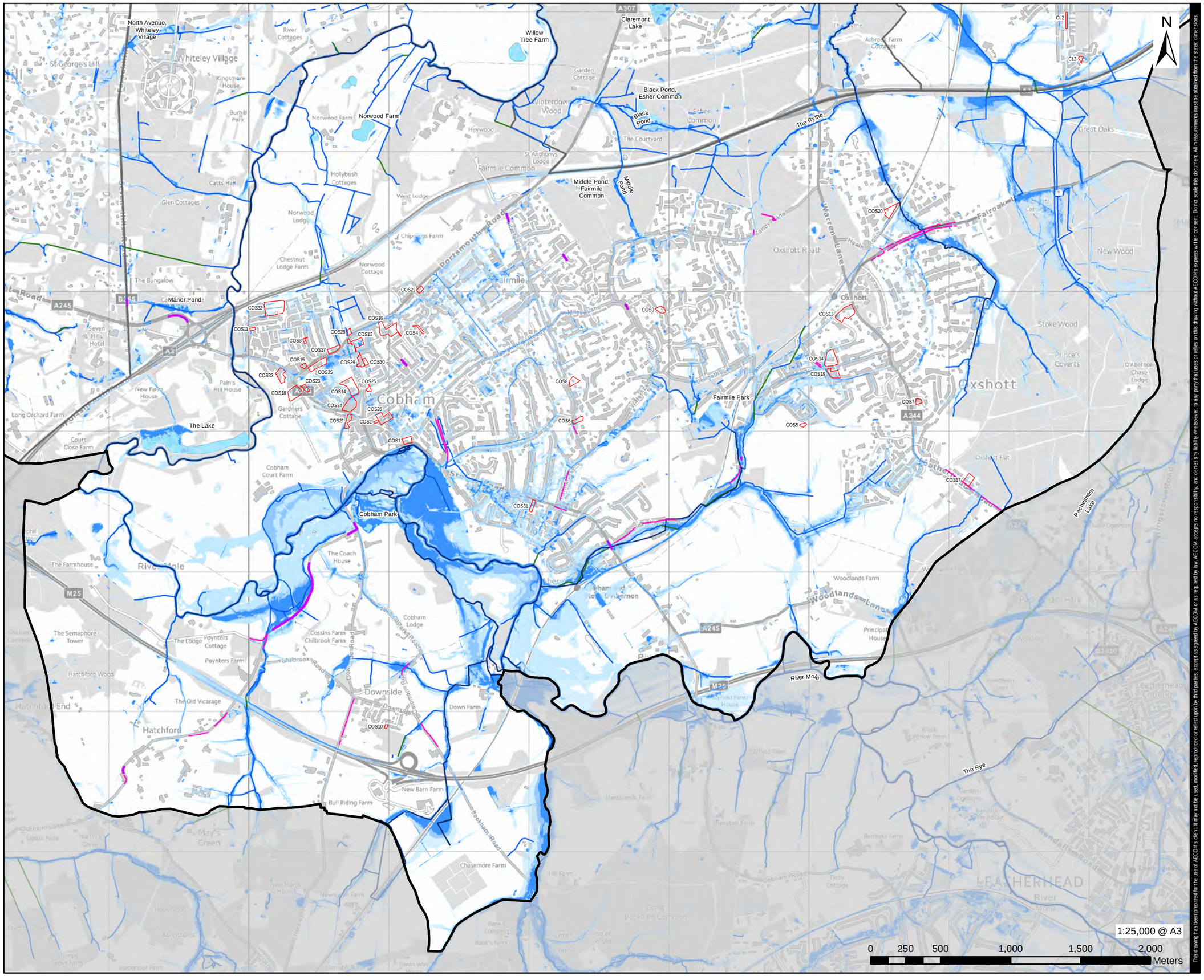

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SETTLEMENT AREAS

LEGEND

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Risk of Flooding from Surface Water - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 15-8

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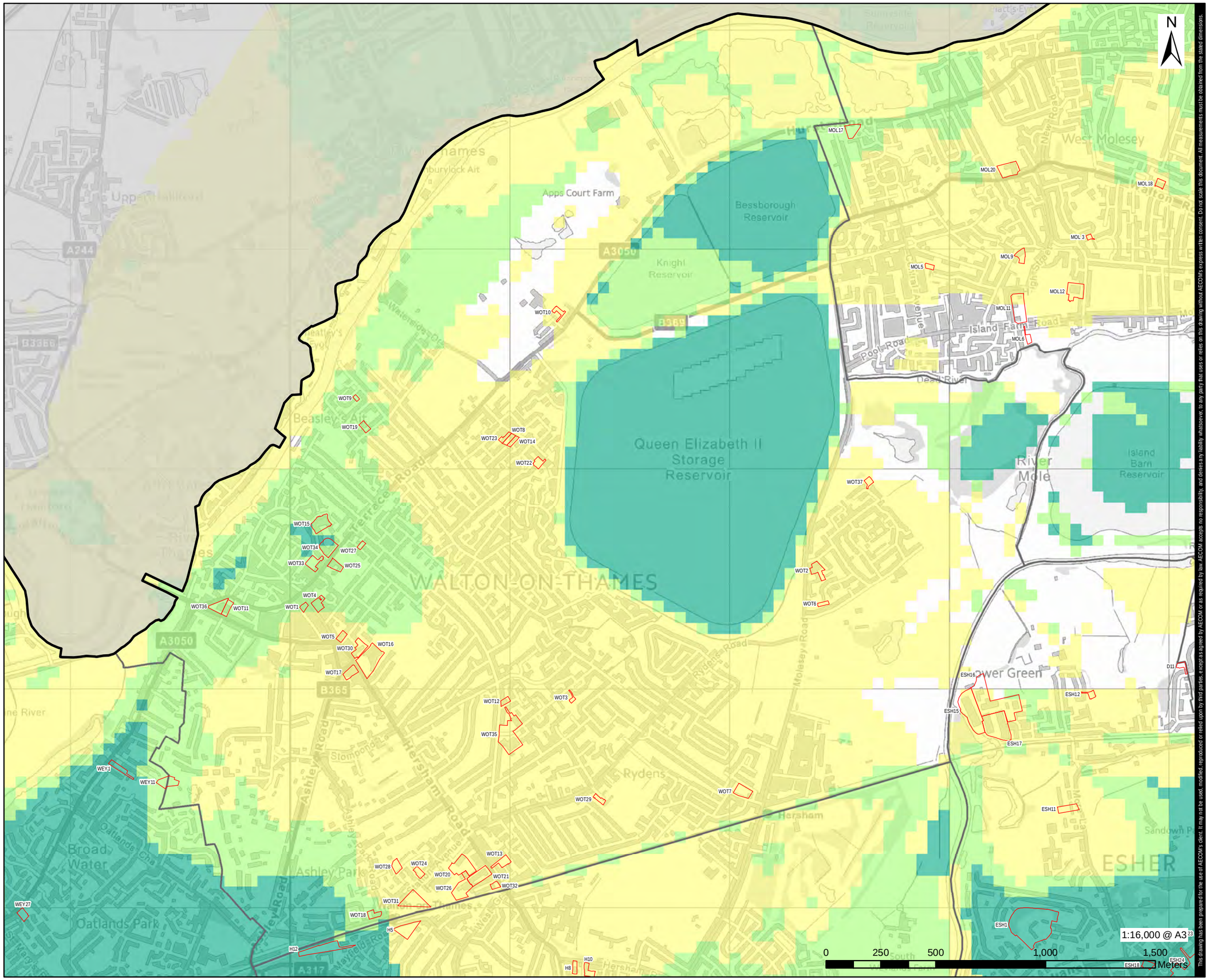

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
- Settlement
- Allocation Sites

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

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Susceptibility to Groundwater Flooding - Walton On Thames

FIGURE NUMBER

Figure 16-1

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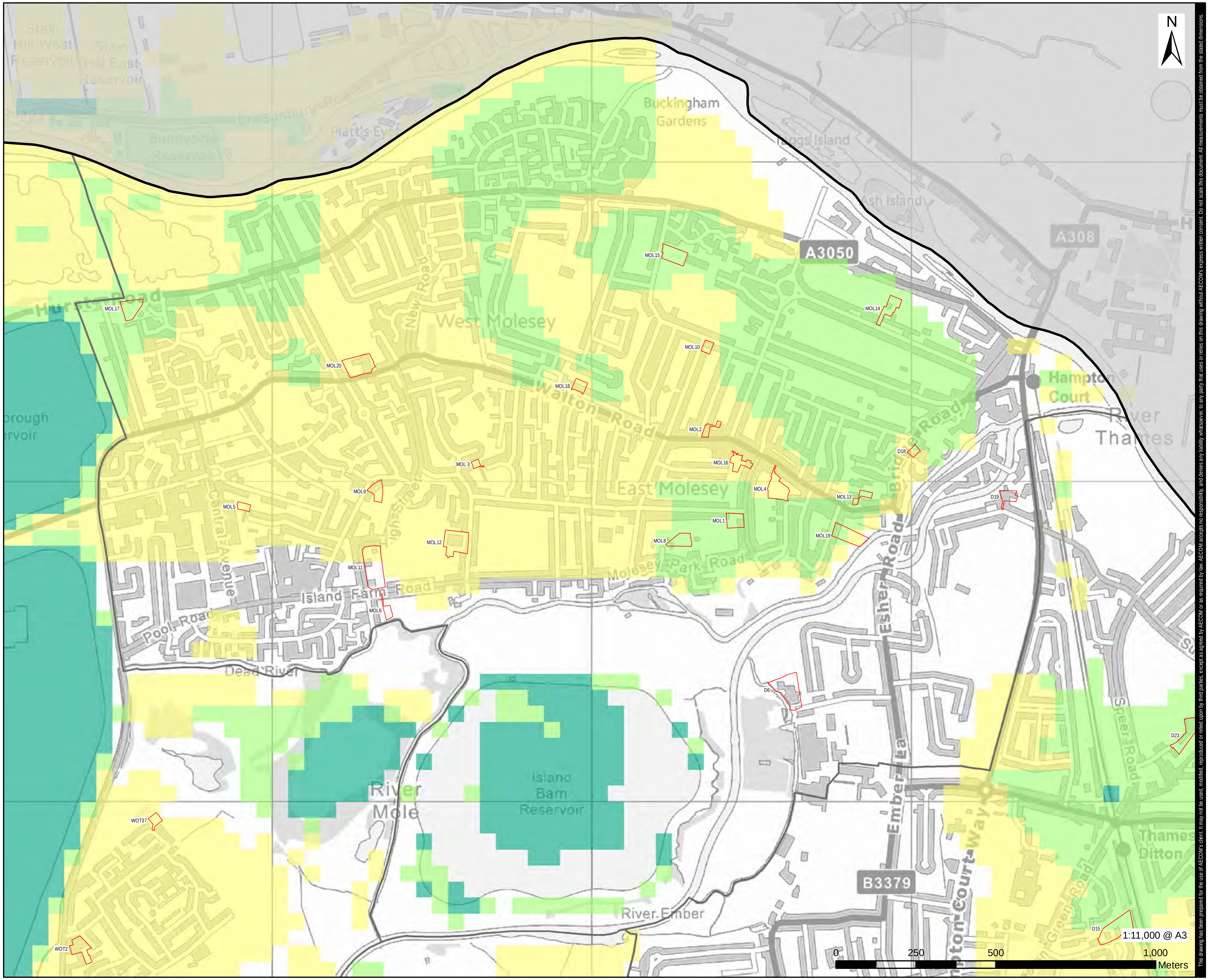

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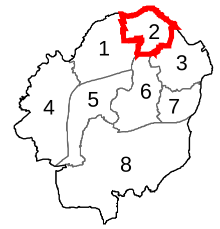

LEGEND

- Elmbridge Borough Council Boundary
- Settlement
- Allocation Sites

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Susceptibility to Groundwater Flooding - East and West Molesey

FIGURE NUMBER

Figure 16-2

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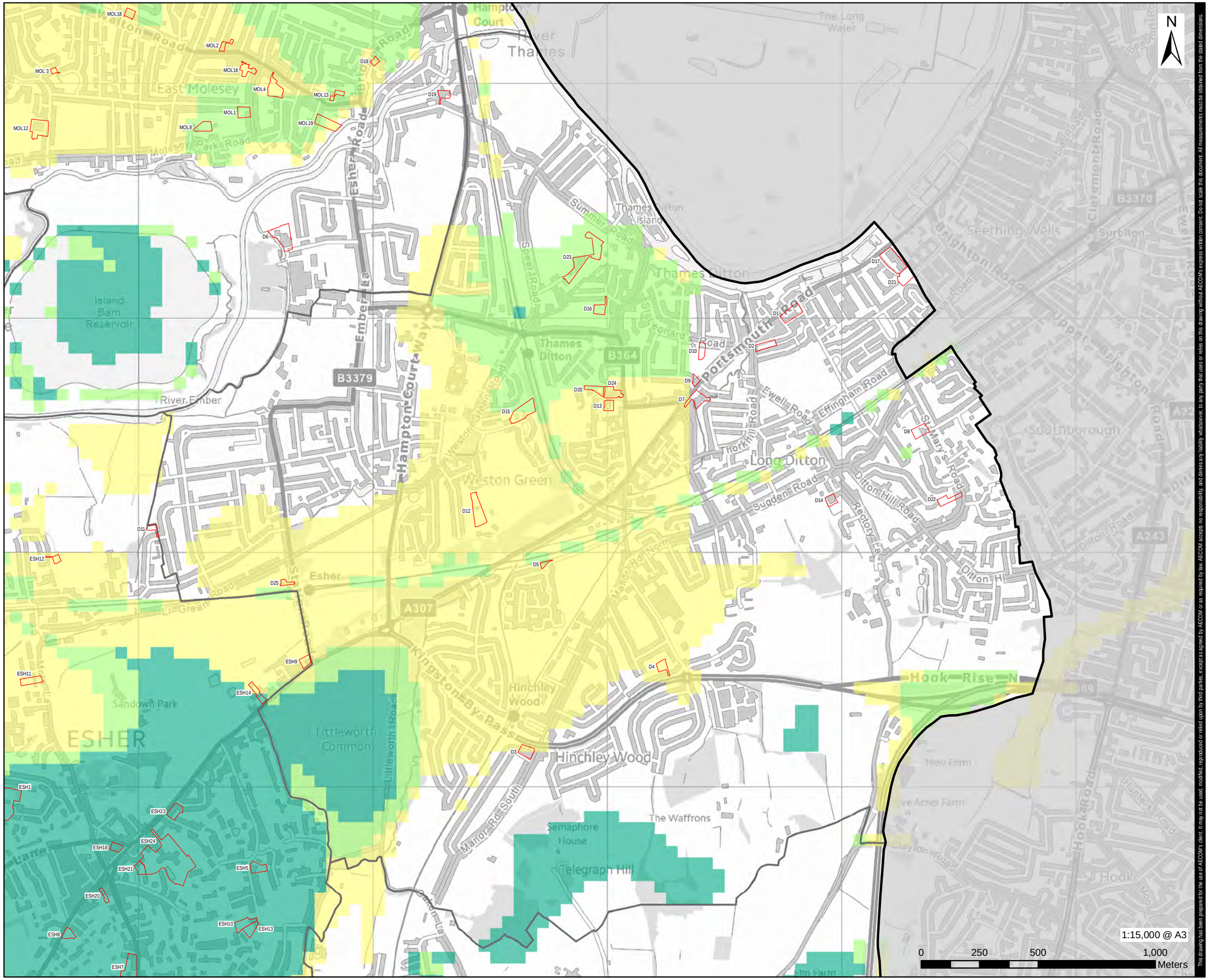

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SETTLEMENT AREAS

LEGEND

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- Settlement
- Allocation Sites

Susceptibility to Groundwater Flooding

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Susceptibility to Groundwater Flooding - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 16-3

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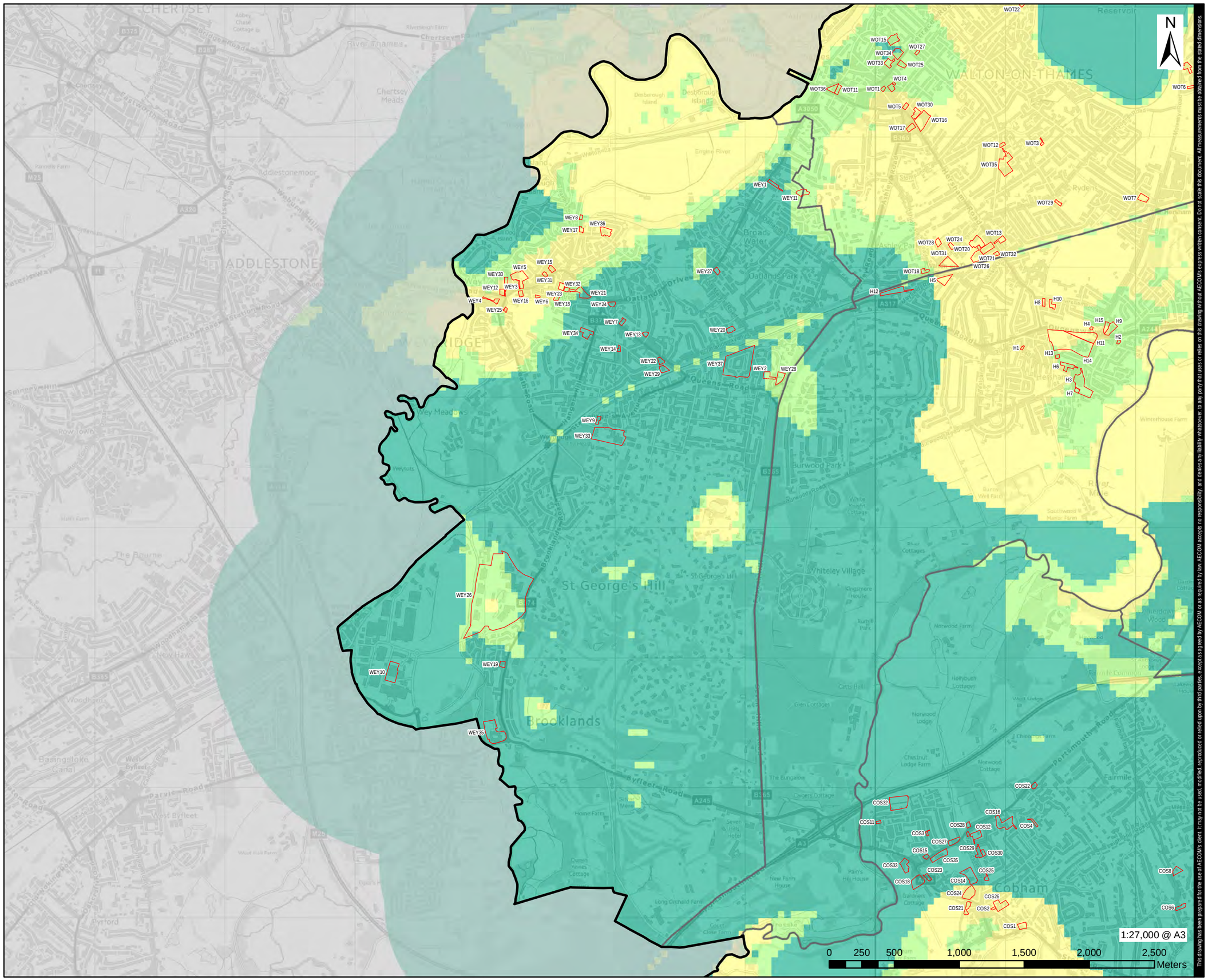

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SETTLEMENT AREAS

LEGEND

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- Settlement
- Allocation Sites

Susceptibility to Groundwater Flooding

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- Potential for groundwater flooding of property situated below ground level
- Potential for groundwater flooding to occur at surface

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Susceptibility to Groundwater Flooding - Weybridge

FIGURE NUMBER

Figure 16-4

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-02-12

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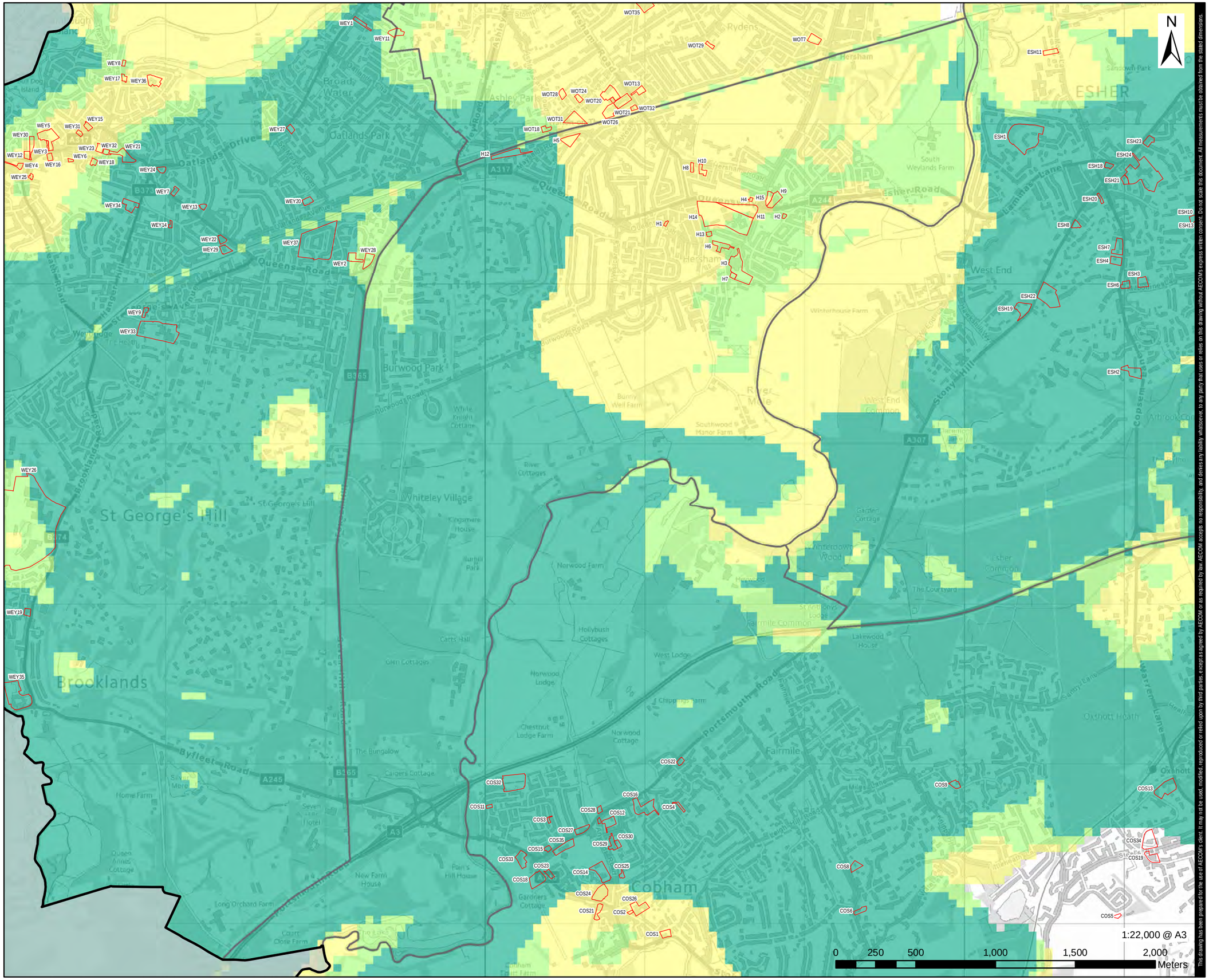

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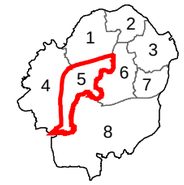

LEGEND

- Elmbridge Borough Council Boundary
- Settlement
- Allocation Sites

Susceptibility to Groundwater Flooding

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- Potential for groundwater flooding to occur at surface

NOTES

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Susceptibility to Groundwater Flooding - Hersham

FIGURE NUMBER

Figure 16-5

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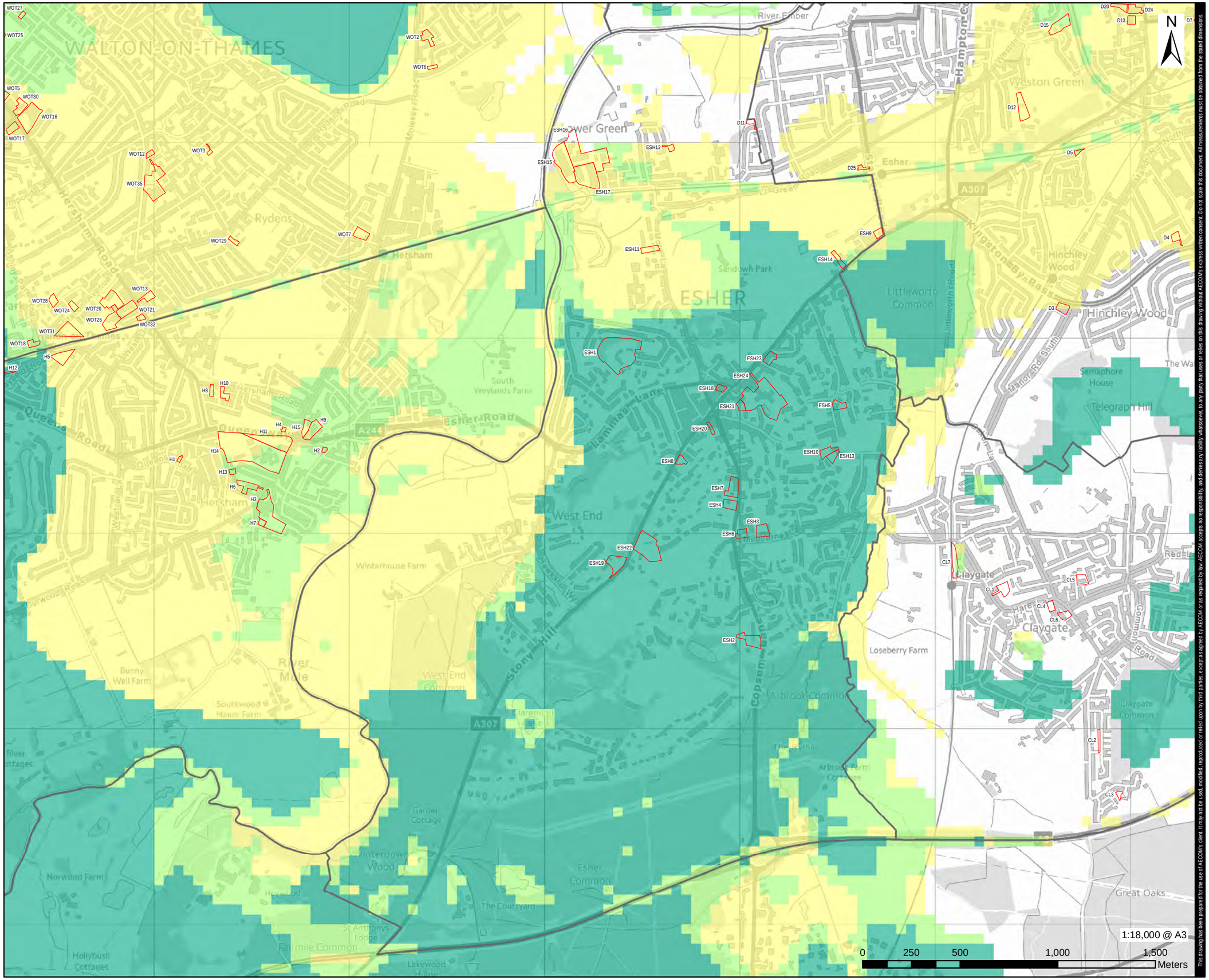

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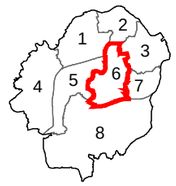

LEGEND

- Elmbridge Borough Council Boundary
- Settlement
- Allocation Sites

Susceptibility to Groundwater Flooding

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ISSUE PURPOSE

SFRA

PROJECT NUMBER

60565750

FIGURE TITLE

Susceptibility to Groundwater Flooding - Esher

FIGURE NUMBER

Figure 16-6

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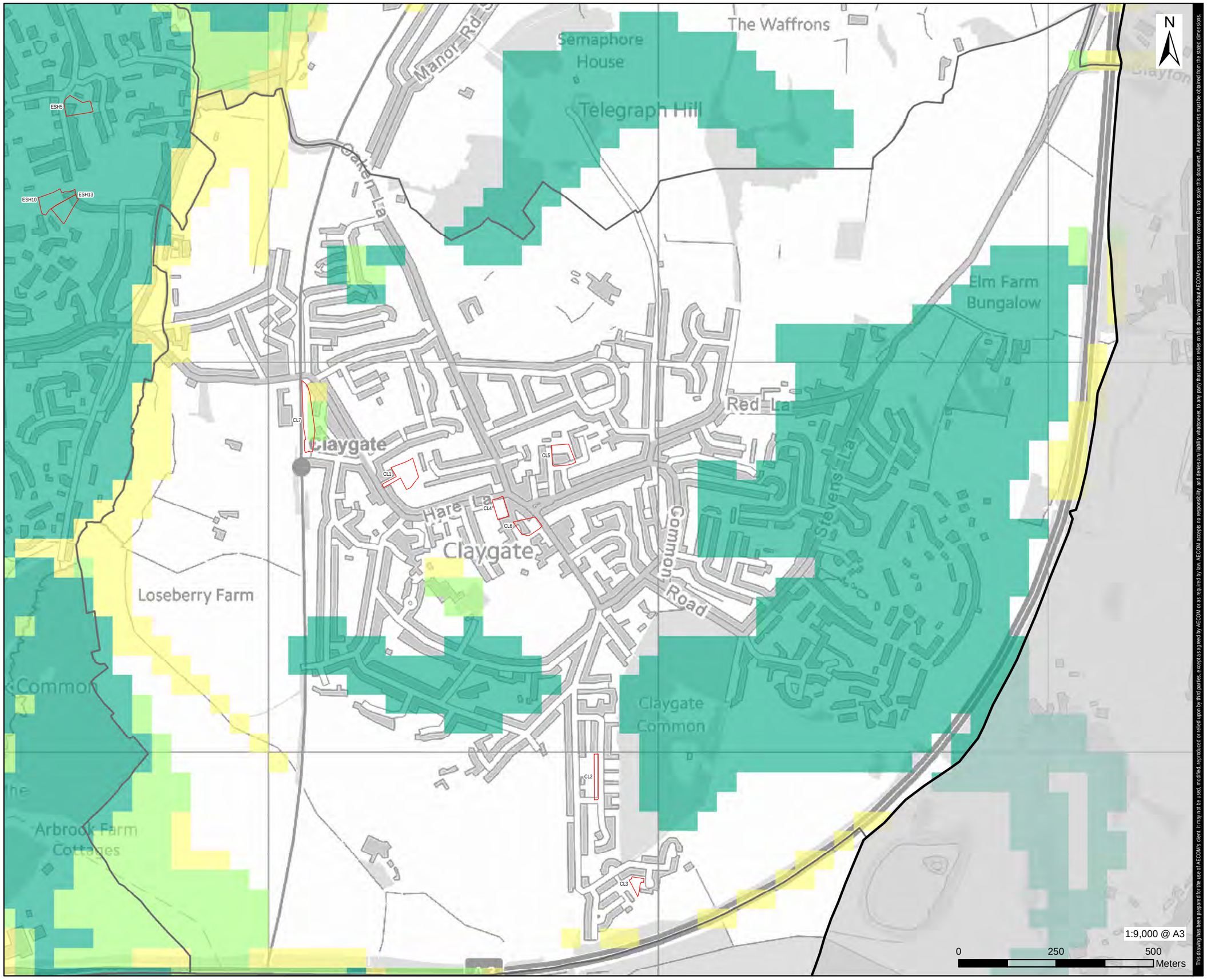

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SETTLEMENT AREAS

LEGEND

- Elmbridge Borough Council Boundary
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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Susceptibility to Groundwater Flooding - Claygate

FIGURE NUMBER

Figure 16-7

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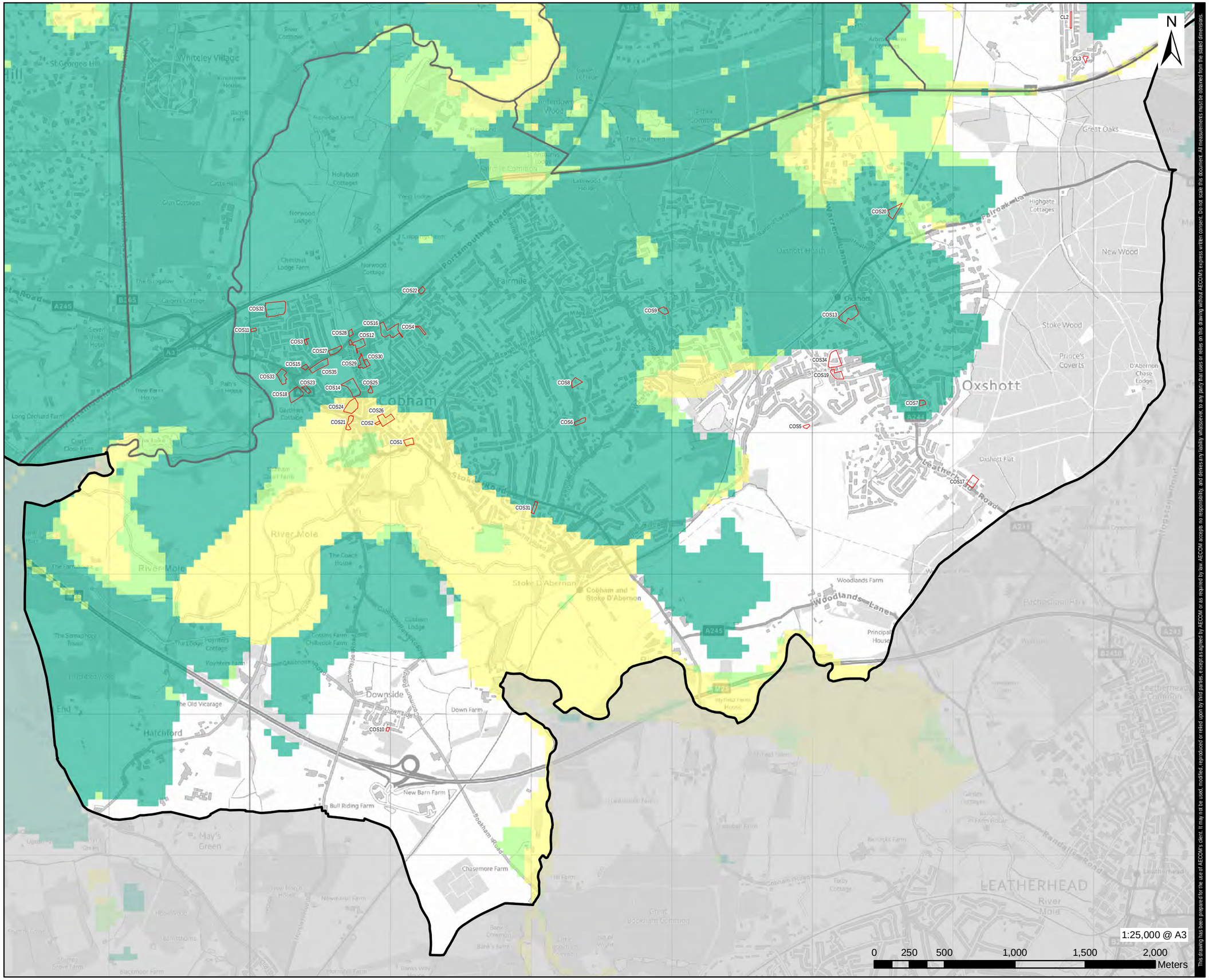

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SETTLEMENT AREAS

LEGEND

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FIGURE TITLE

Susceptibility to Groundwater Flooding - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 16-8

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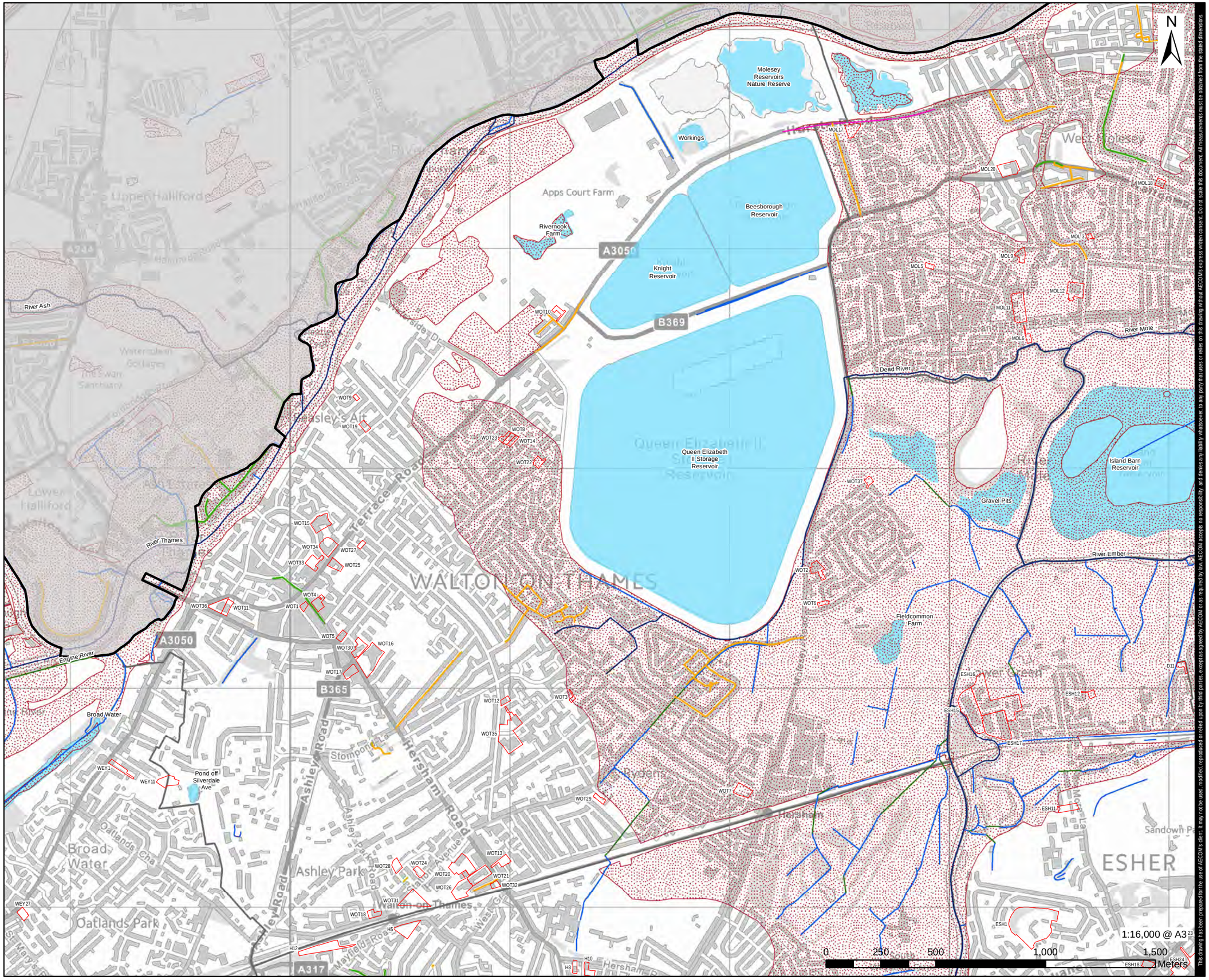

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SETTLEMENT AREAS

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

Historic Flood Records

- Historic Flood Outlines

Property Flood Roads

- Internal
- External

NOTES

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PROJECT NUMBER

60565750

FIGURE TITLE

Historic Records of Flooding - Walton On Thames

FIGURE NUMBER

Figure 17-1

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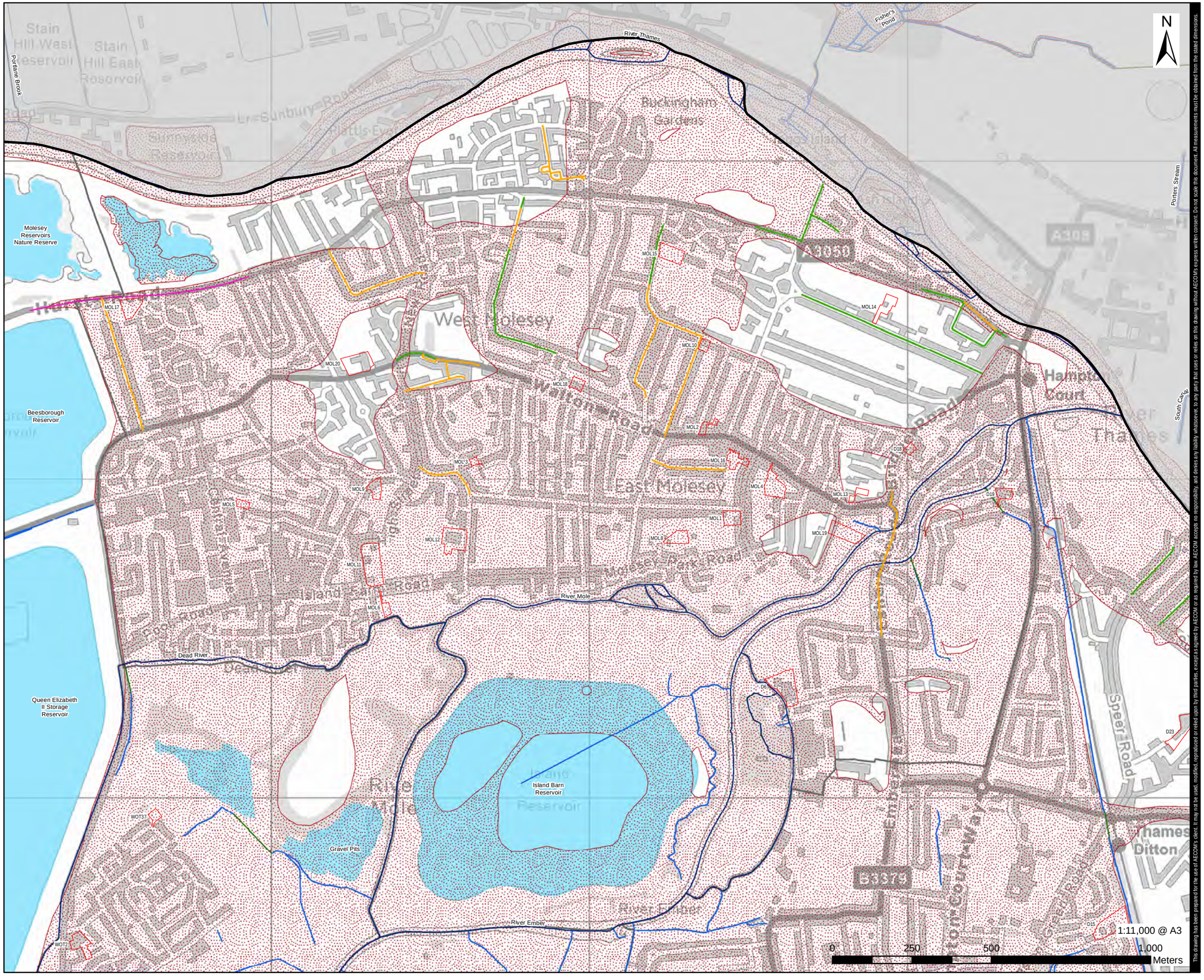

0 250 500 1,000 Meters

1:11,000 @ A3

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www.aecom.com

SETTLEMENT AREAS

LEGEND

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

Historic Flood Records

- Historic Flood Outlines

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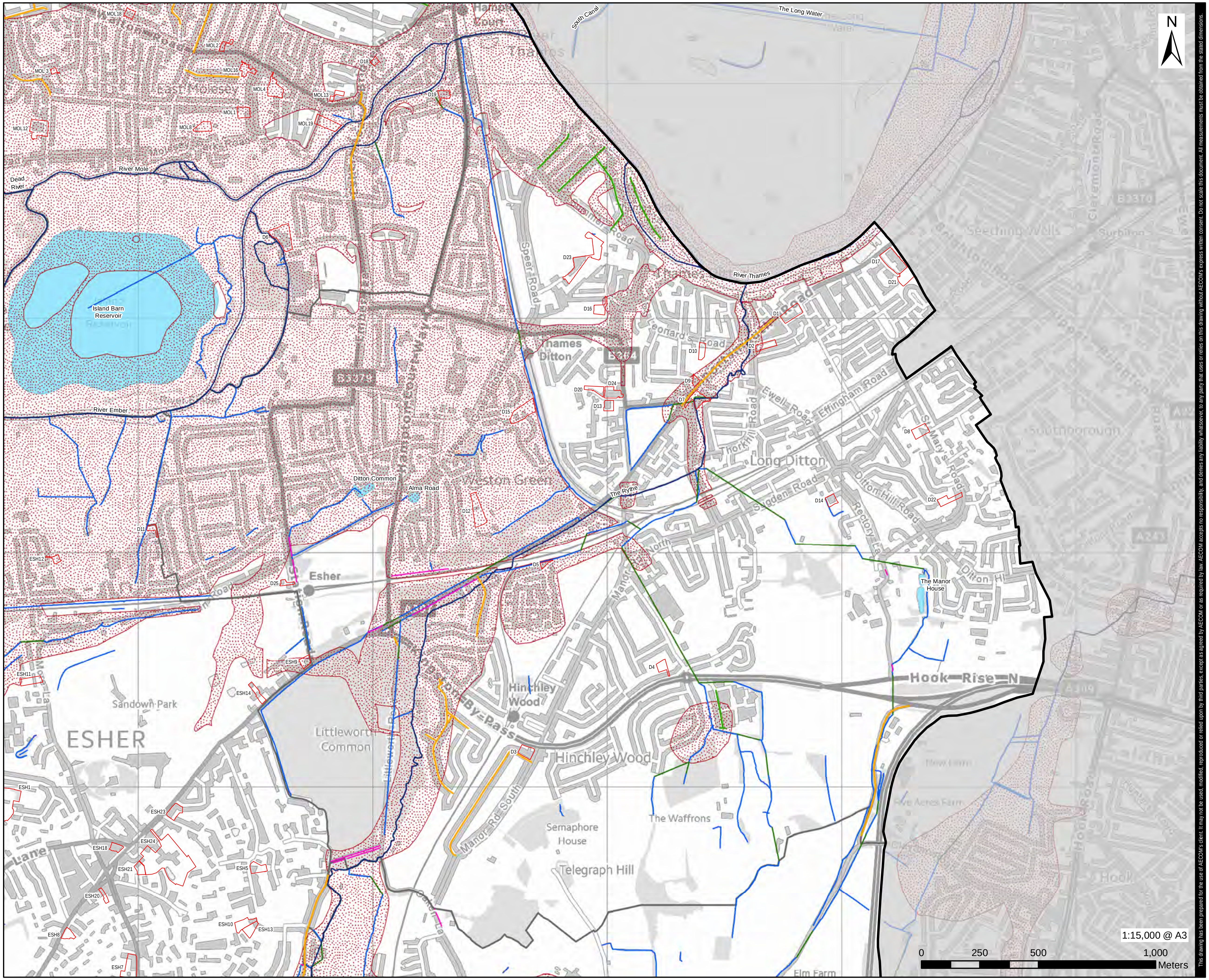
FIGURE TITLE

Historic Records of Flooding - East and West Molesey

FIGURE NUMBER

Figure 17-2



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SETTLEMENT AREAS

1 2 3 4 5 6 7 8

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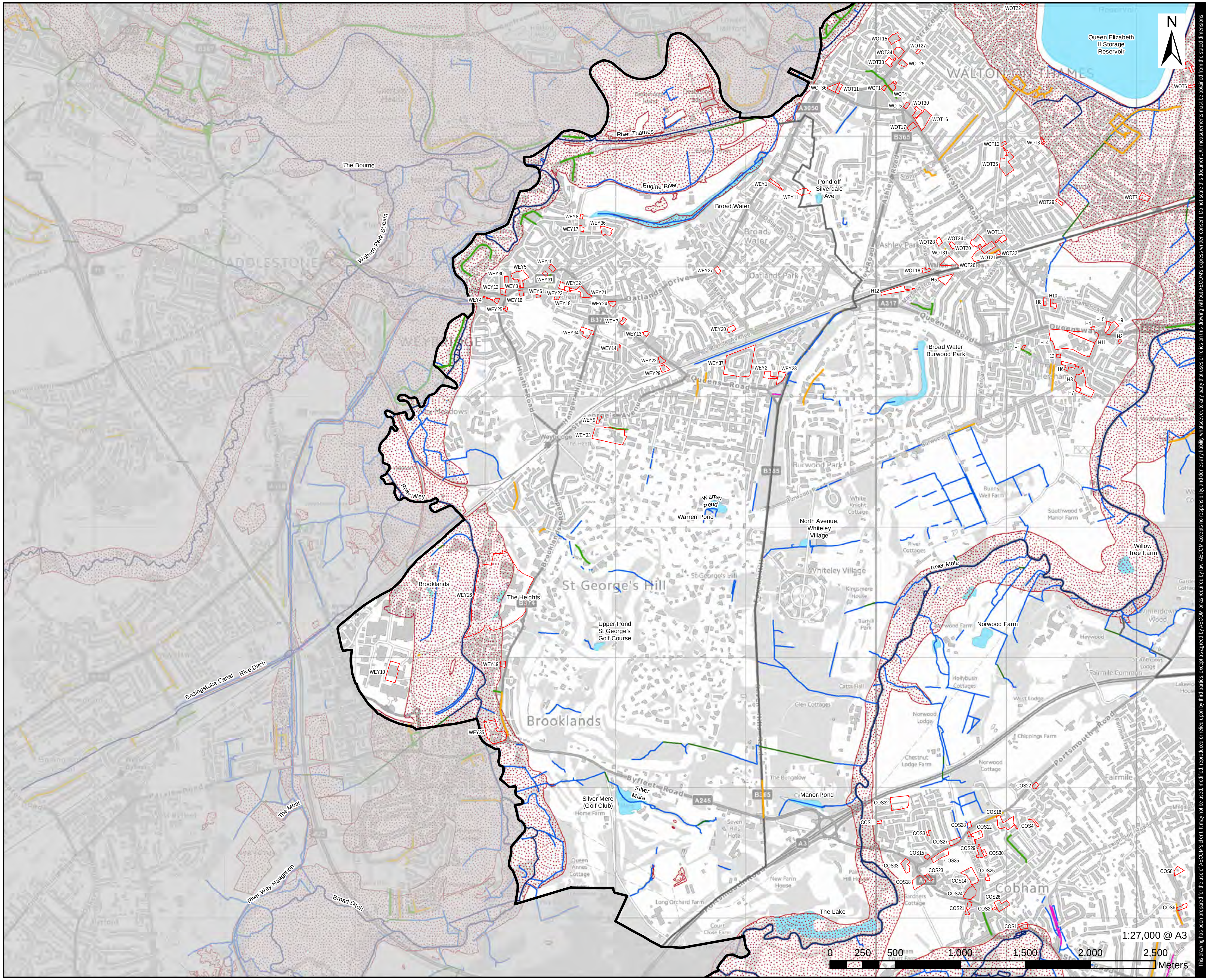
FIGURE TITLE

Historic Records of Flooding - Thames Ditton, Long Ditton, Hinchley Wood and Weston Green

FIGURE NUMBER

Figure 17-3

Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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SETTLEMENT AREAS

1 2 3 4 5 6 7 8

LEGEND

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Property Flood Roads

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FIGURE TITLE

Historic Records of Flooding - Weybridge

FIGURE NUMBER

Figure 17-4

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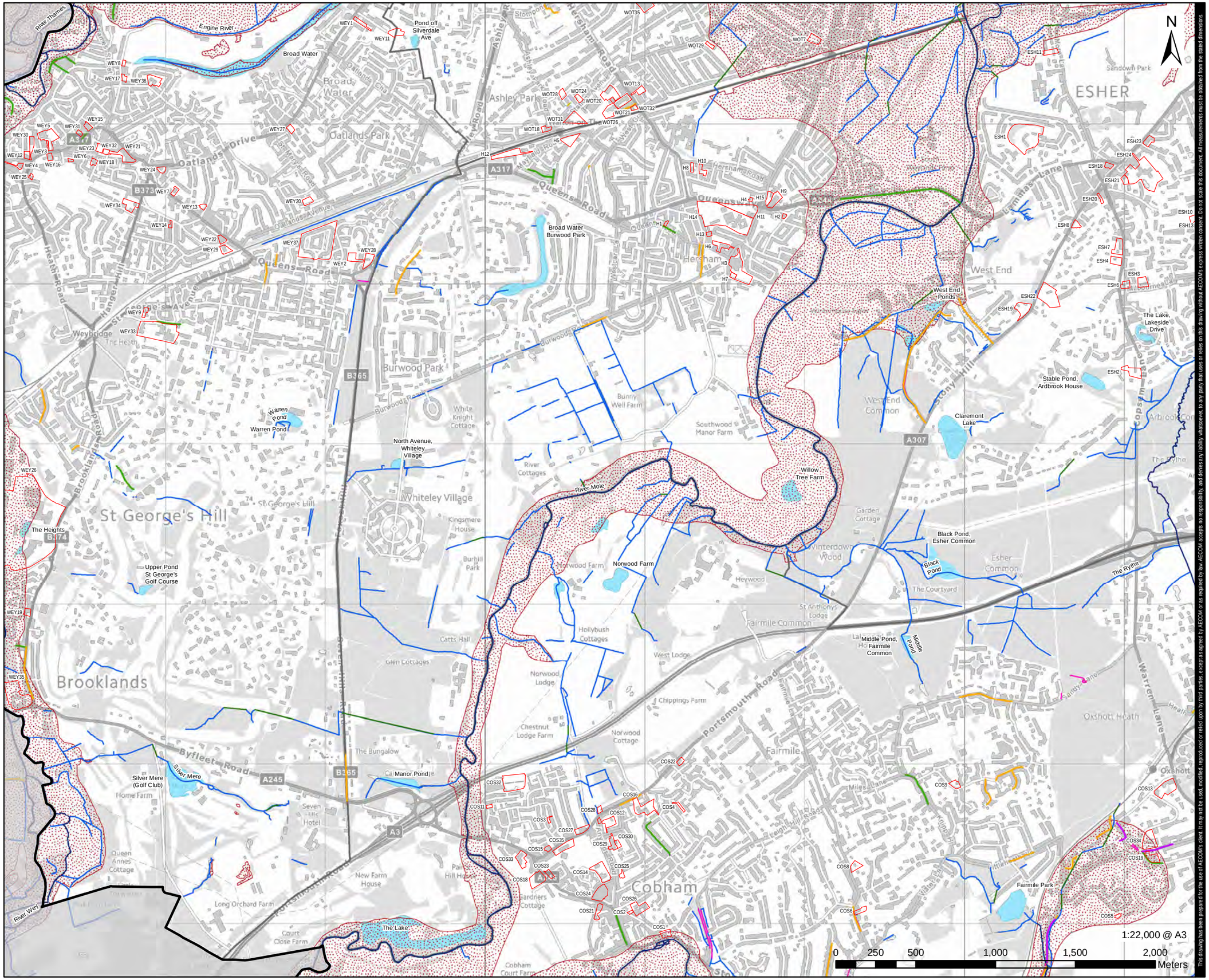
Revision: 1 Drawn: LL Checked: JS Approved: SL Date: 2024-04-16



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- Surface Water Bodies

Historic Flood Records

- Historic Flood Outlines

Property Flood Roads

- Internal
- External
- Unknown

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FIGURE TITLE

Historic Records of Flooding - Hersham

FIGURE NUMBER

Figure 17-5

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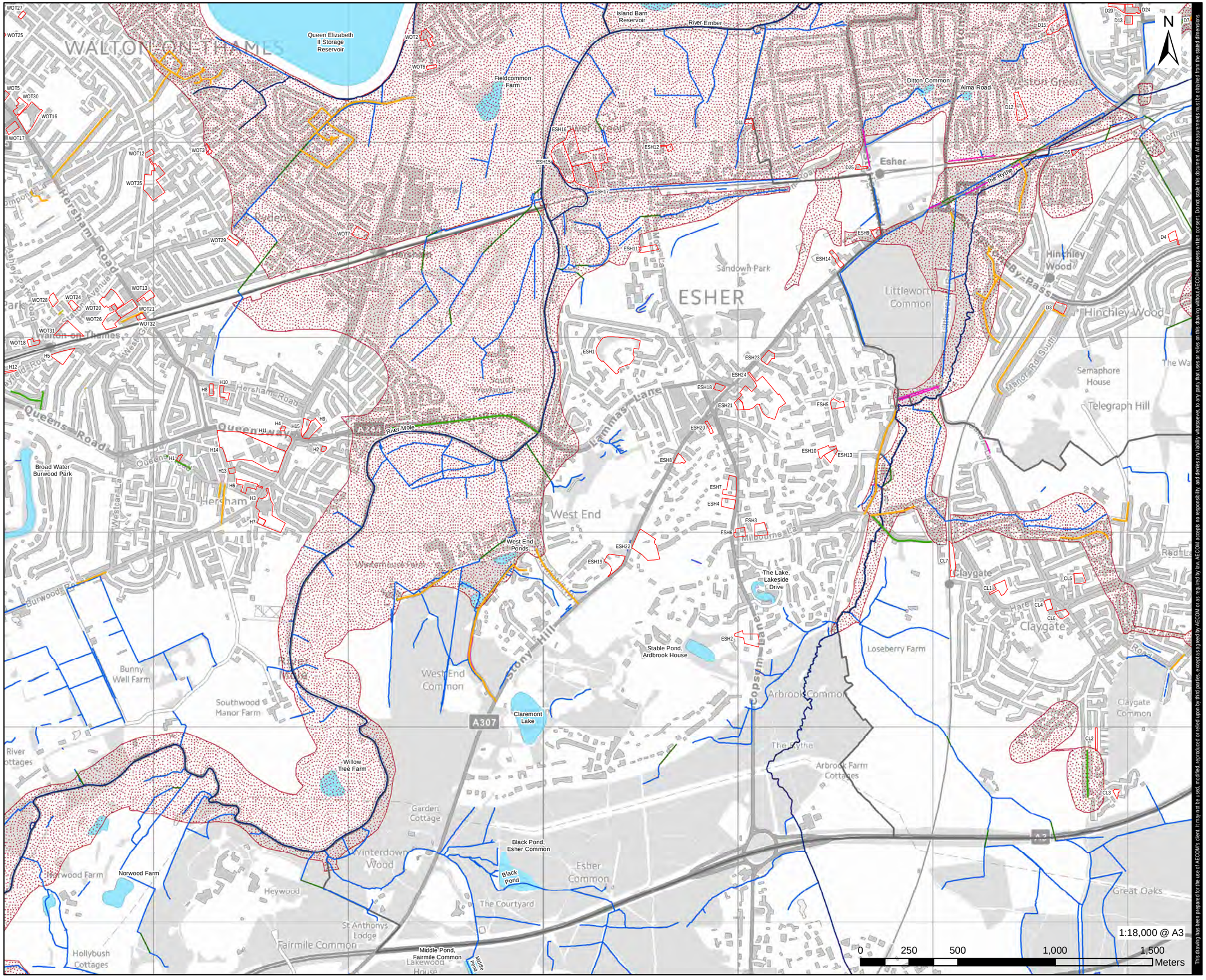

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Historic Flood Records

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Property Flood Roads

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FIGURE TITLE

Historic Records of Flooding - Esher

FIGURE NUMBER

Figure 17-6

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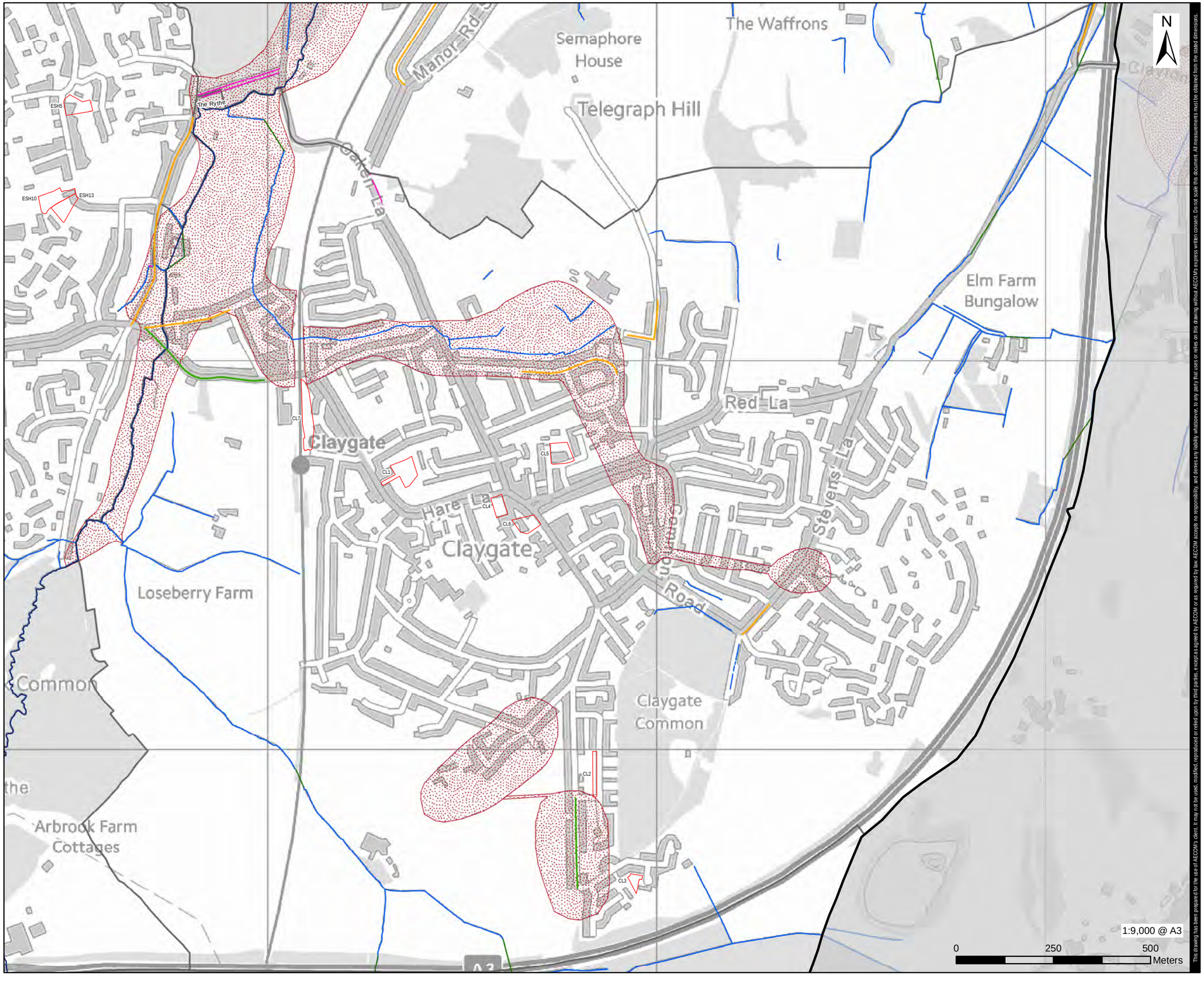

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ISSUE PURPOSE

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PROJECT NUMBER

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FIGURE TITLE

Historic Records of Flooding - Claygate

FIGURE NUMBER

Figure 17-7

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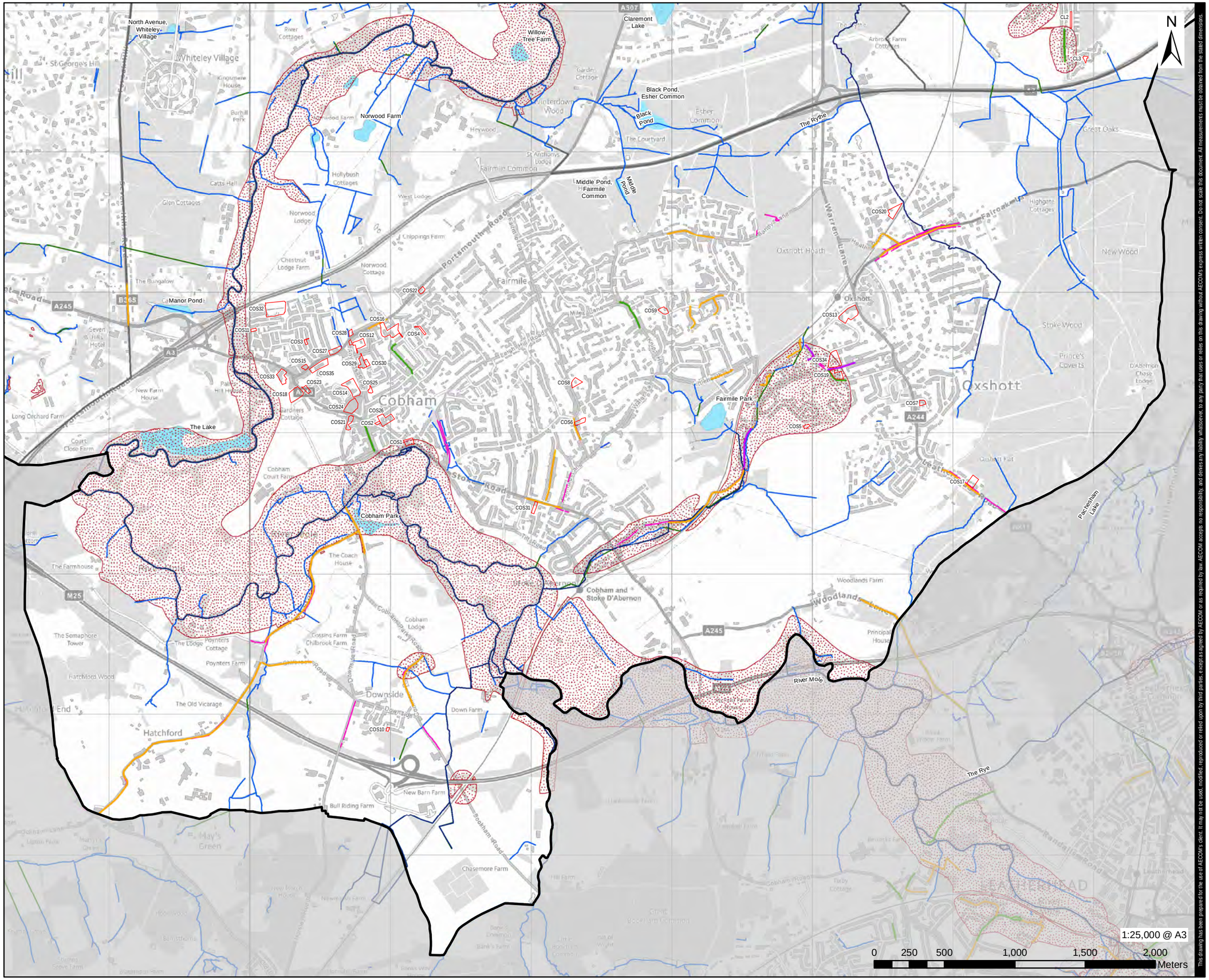

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ISSUE PURPOSE

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FIGURE TITLE

Historic Records of Flooding - Cobham, Oxshott, Stoke D'Abernon and Downside

FIGURE NUMBER

Figure 17-8

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