

Appendix 1 - SFRA Data Sources

Epsom and Ewell Borough Council (EEBC) / Surrey County Council (LLFA)

The following data is required from EEBC and the LLFA.

- The Epsom and Ewell borough boundary
- Localised drainage issues dataset
- Drainage channels
- Historical flooding records (river, multiple, surface water, groundwater, blocked gullies)
- Existing and proposed flood defences
- Funding for new/ proposed defences
- Surface water sustainable drainage systems and storage areas
- Natural Flood Management (NFM) data – pipeline, live or complete schemes
- Superficial aquifers
- Bedrock aquifers
- Town centre boundaries
- Flood Zones 3a and 3b extents (Functional Floodplain)
- Catchments / sub-catchments / Critical Drainage Areas
- Modelling from any water source
- Local Priority Areas / Development Opportunity Areas
- Information / comments from Regulation 19 consultation
- Site allocations
- Ordinary Watercourses

Environment Agency (EA)

The following data is required from the EA and will require formal data requests to be issued.

- River breach hazard ratings
- Modelled defence breach locations
- Fluvial flood hazard ratings
- Thames flood extents

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- NFM data – pipeline, live or complete schemes
- Main river model extent(s) – 1 in 100-year + climate change return periods

Thames Water (TWUL)

The following data is required from TWUL and will require formal data requests to be issued, which may require the signing of a data sharing agreement.

- Sewer flooding incident records
- A localised drainage issues dataset for the Epsom and Ewell Borough
- Sewer capacity dataset
- Any proposed locations for new sewerage infrastructure

British Geological Society (BGS)

The following data is required from the BGS and will require formal data requests to be issued, which may require the signing of a data sharing agreement.

- Groundwater flooding susceptibility - [Access details](#)

The following data is freely accessible via the BGS Data Portal and will be obtained and downloaded by the Metis project team on behalf of EEBC.

- Geology 625k
 - Bedrock - [Download](#)
 - Superficial - [Download](#)

DEFRA Data Portal

The following data is freely accessible via the DEFRA Data Portal and will be obtained and downloaded by the Metis project team on behalf of EEBC.

- Flood zone 2 - [Download](#)
- Flood zone 3 - [Download](#)
- Spatial flood defences (flood gates, flood walls, flood embankments, flood storage areas, pumps, barriers, any other structure) - [Download](#)
- Main River Network - [Download](#)
- Reduction in Risk of Flooding from Rivers and Sea due to defences - [Download](#)
- Historic flood map - [Download](#)

- Recorded flood outlines - [Download](#)
- Flood storage areas - [Download](#)
- Flood warning areas - [Download](#)
- Flood alert areas - [Download](#)
- Reservoir flood extents
 - Wet day - [Download](#)
 - Dry day - [Download](#)
- LIDAR Composite Digital Terrain Model (DTM) - 1m - [Download](#)
- Risk of flooding from surface water: Extent
 - 1 in 30yr - [Download](#)
 - 1 in 100yr - [Download](#)
 - 1 in 1000yr - [Download](#)
- Risk of flooding from surface water: Depth
 - 1 in 30yr - [Download](#)
 - 1 in 100yr - [Download](#)
 - 1 in 1000yr - [Download](#)
- Risk of flooding from surface water: Hazard
 - 1 in 30yr - [Download](#)
 - 1 in 100yr - [Download](#)
 - 1 in 1000yr - [Download](#)
- Risk of flooding from surface water: Velocity
 - 1 in 30yr - [Download](#)
 - 1 in 100yr - [Download](#)
 - 1 in 1000yr - [Download](#)
- Groundwater source protection zones - [Download](#)

Ordnance Survey (OS)

The following data is freely accessible via the OS Data Hub and will be obtained and downloaded by the Metis project team on behalf of EEBC.

- OS OpenMap - Local - [Download](#)

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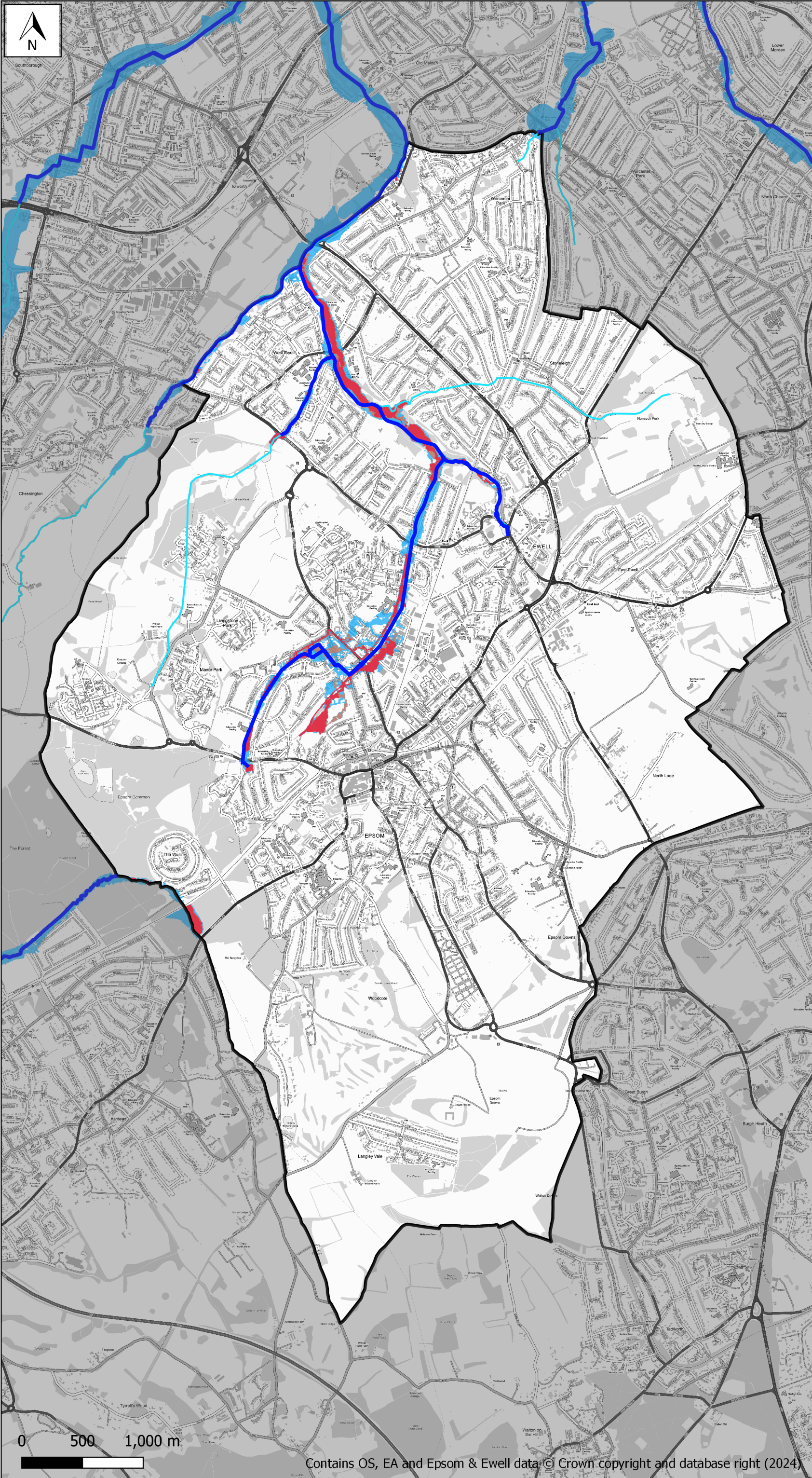
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Appendix 2 – Mapping

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Legend

- Borough Boundary
- Statutory Main River
- Ordinary Watercourse
- Flood Zones**
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b

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EPSOM & EWELL
BOROUGH COUNCIL

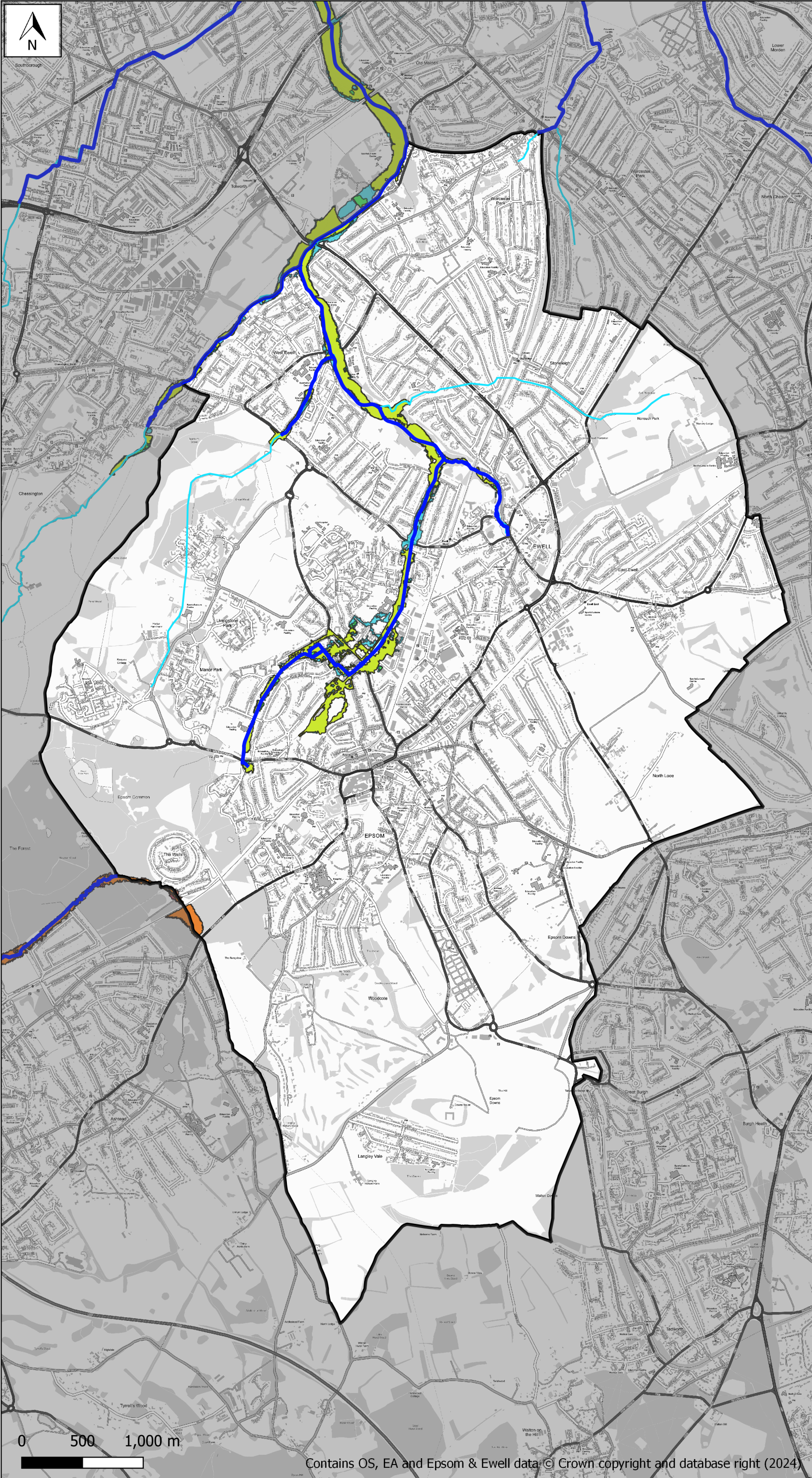
Project Title
**Epsom & Ewell Level 1 Strategic
Flood Risk Assessment**

Drawing Title
**Fluvial Flood Zones 2, 3a, and
3b**

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Drawing Number	Figure 1
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Legend

- Borough Boundary
- Statutory Main River
- Ordinary Watercourse
- Hogsmill River Flood Extents
- 1 in 100 year_25CC
- 1 in 100 year_35CC
- 1 in 100 year_70CC
- River Mole and Tributaries Flood Extents
- 1 in 100 year_25CC
- 1 in 100 year_35CC
- 1 in 100 year_70CC

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Epsom & Ewell Level 1 Strategic Flood Risk Assessment

Drawing Title

Main River Flood Extents (Hogsmill River and River Mole and Tributaries 1 in 100 year with climate change considerations)

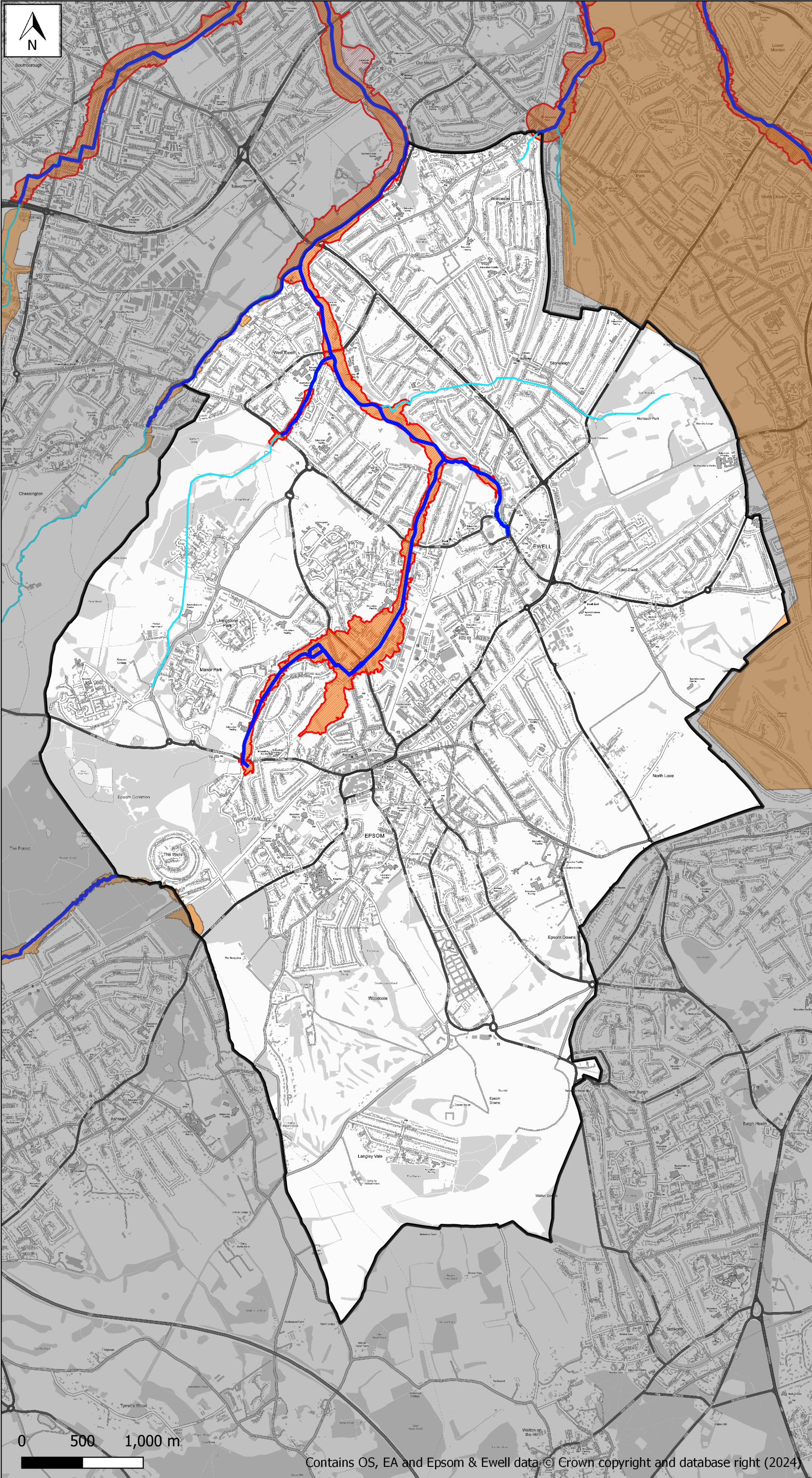
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Figure 2



Legend

-  Borough Boundary
-  Statutory Main River
-  Ordinary Watercourse
-  Flood Alert Areas
-  Flood Warning Areas

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Flood Risk Assessment

Drawing Title

Flood Alert and Flood Warning
Areas

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Figure 3



Legend

-  Borough Boundary
- Risk of Flooding from Reservoirs - Extent
-  Dry Day
-  Wet Day

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Epsom & Ewell Level 1
Strategic Flood Risk
Assessment

Drawing Title

Reservoir Flood Extent (dry-day
and wet-day scenarios)

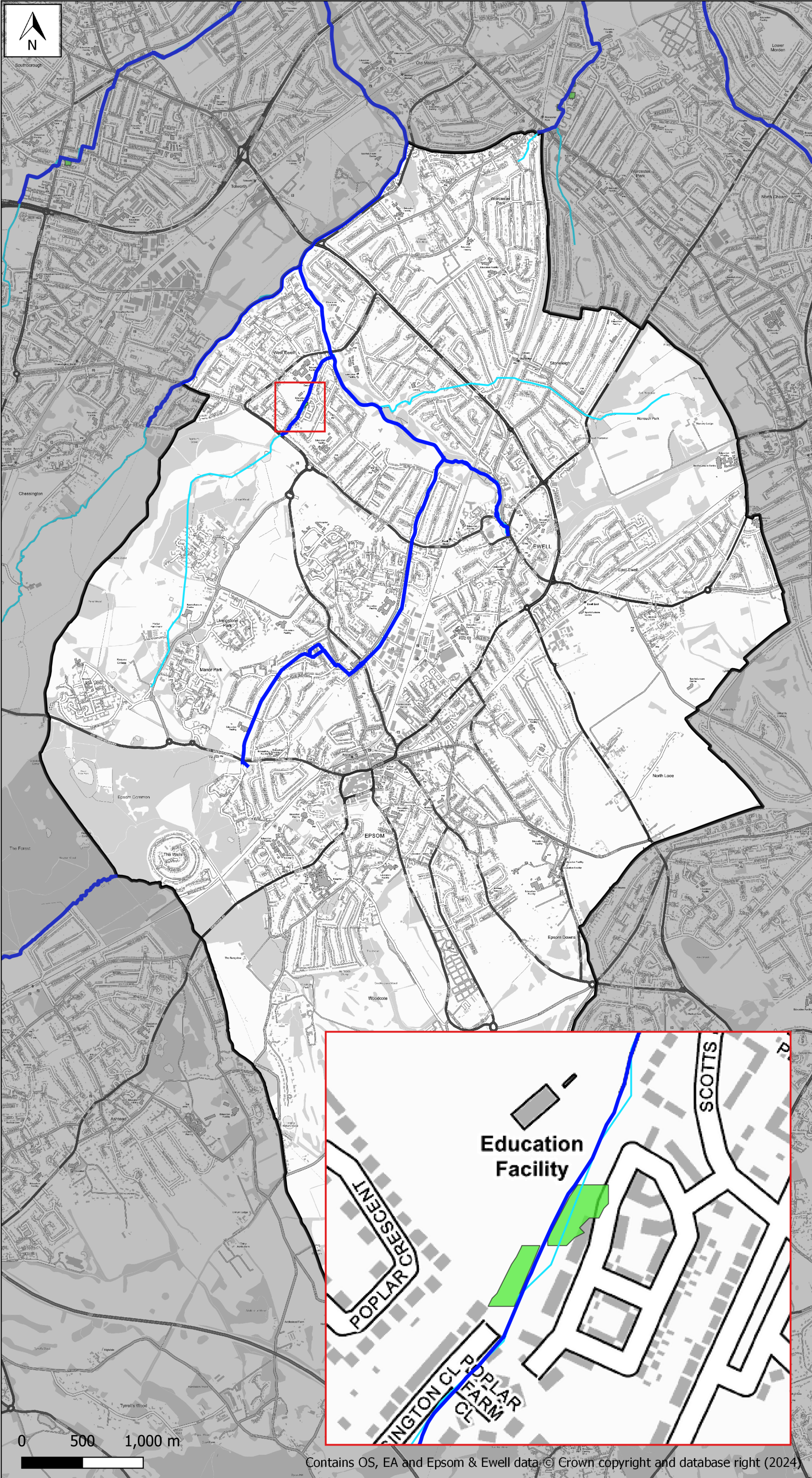
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Figure 4



Legend

-  Borough Boundary
-  Statutory Main River
-  Ordinary Watercourse
-  Reduction in Risk of Flooding from Rivers and Sea due to Defences

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Epsom & Ewell Level 1 Strategic Flood Risk Assessment

Drawing Title

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

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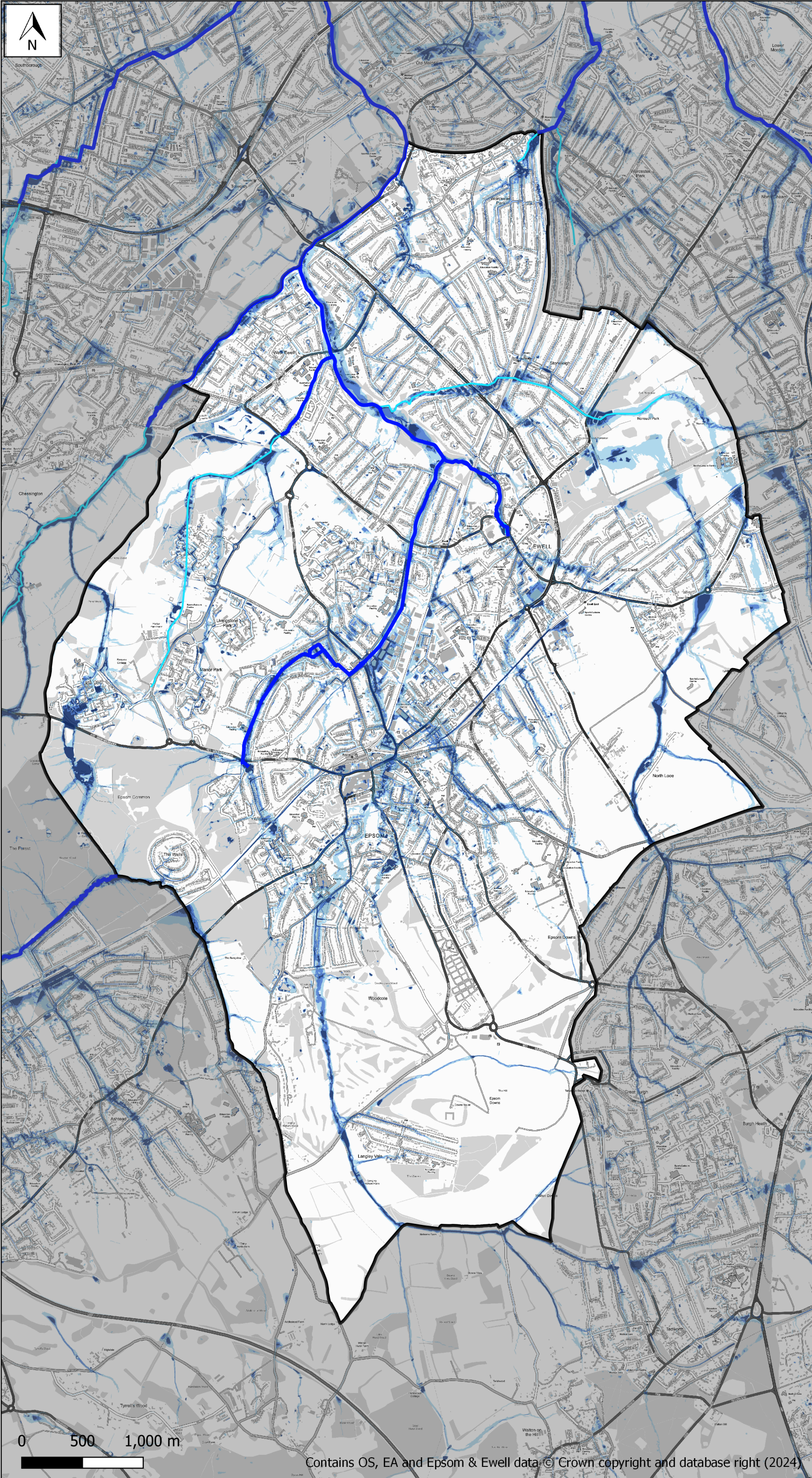
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Figure 5

0 500 1,000 m



Legend

- Borough Boundary
- Statutory Main River
- Ordinary Watercourse
- Risk of Flooding from Surface Water - Extent
- 1 in 30 year
- 1 in 100 year
- 1 in 1000 year

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Epsom & Ewell Level 1 Strategic
Flood Risk Assessment

Drawing Title

Surface Water Flood Extent

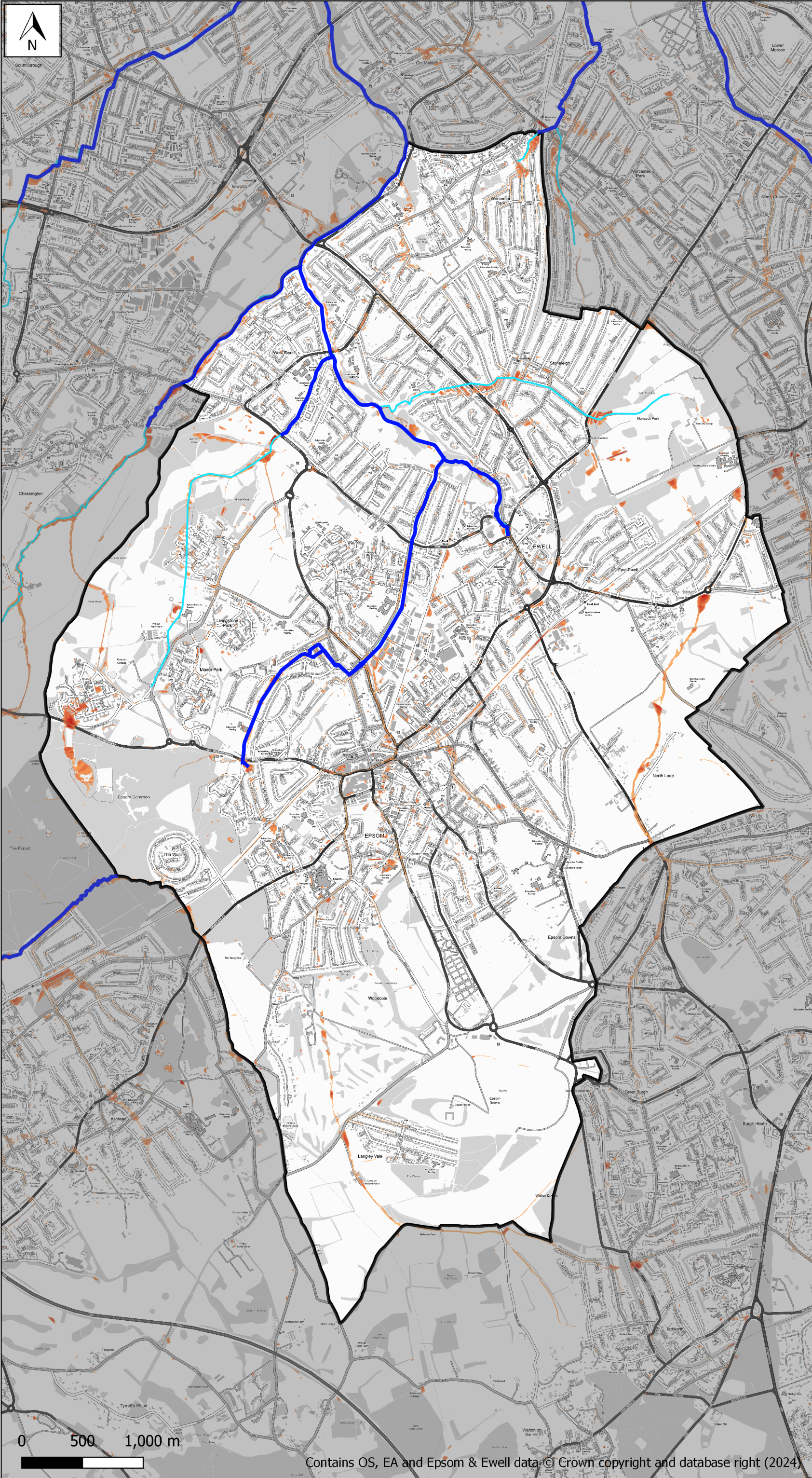
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Figure 6



Legend

-  Borough Boundary
 -  Statutory Main River
 -  Ordinary Watercourse
- Risk of Flooding from Surface Water - Depth (1 in 30 year)
-  0.00 - 0.15m
 -  0.15 - 0.30m
 -  0.30 - 0.60m
 -  0.60 - 0.90m
 -  0.90 - 1.20m
 -  > 1.20m

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Epsom & Ewell Level 1 Strategic Flood Risk Assessment

Drawing Title

Surface Water Flood Depth (1 in 30 year)

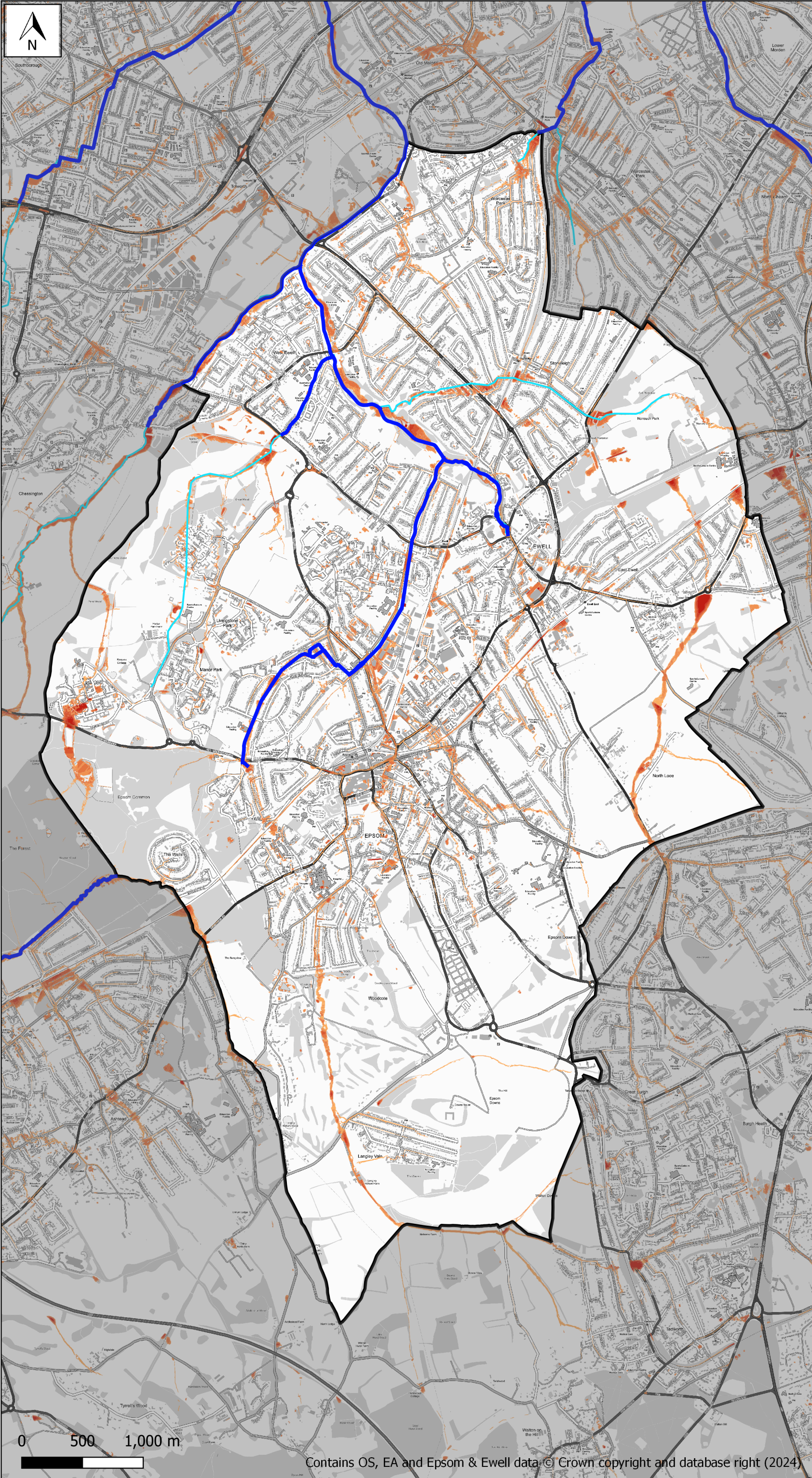
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Figure 7



Legend

- Borough Boundary
 - Statutory Main River
 - Ordinary Watercourse
- Risk of Flooding from Surface Water - Depth (1 in 100 year)
- 0.00 - 0.15m
 - 0.15 - 0.30m
 - 0.30 - 0.60m
 - 0.60 - 0.90m
 - 0.90 - 1.20m
 - > 1.20m

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Epsom & Ewell Level 1 Strategic Flood Risk Assessment

Drawing Title

Surface Water Flood Depth (1 in 100 year)

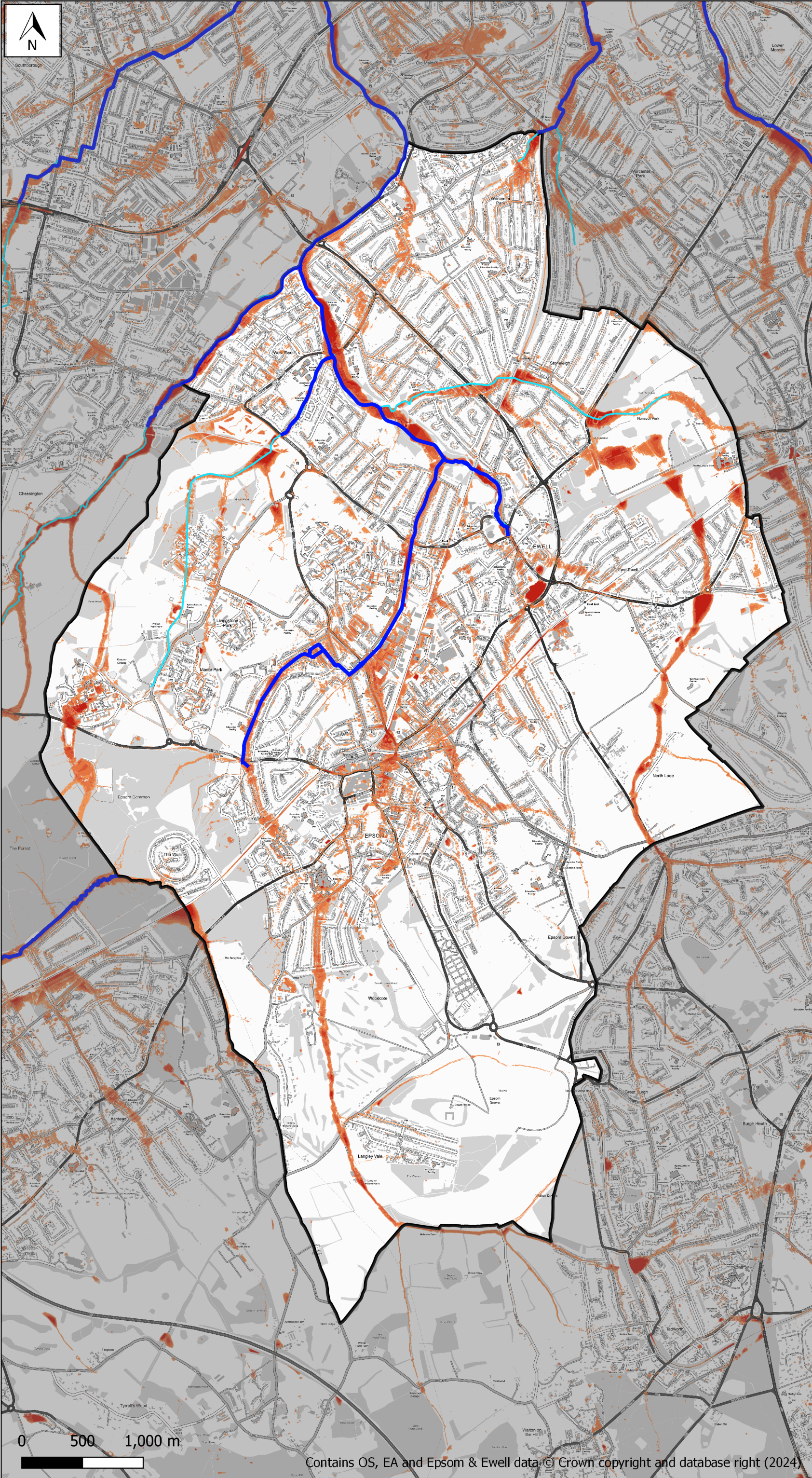
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Figure 8



Legend

- Borough Boundary
 - Statutory Main River
 - Ordinary Watercourse
- Risk of Flooding from Surface Water - Depth (1 in 1000 year)
- 0.00 - 0.15m
 - 0.15 - 0.30m
 - 0.30 - 0.60m
 - 0.60 - 0.90m
 - 0.90 - 1.20m
 - > 1.20m

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Epsom & Ewell Level 1 Strategic Flood Risk Assessment

Drawing Title

Surface Water Flood Depth (1 in 1000 year)

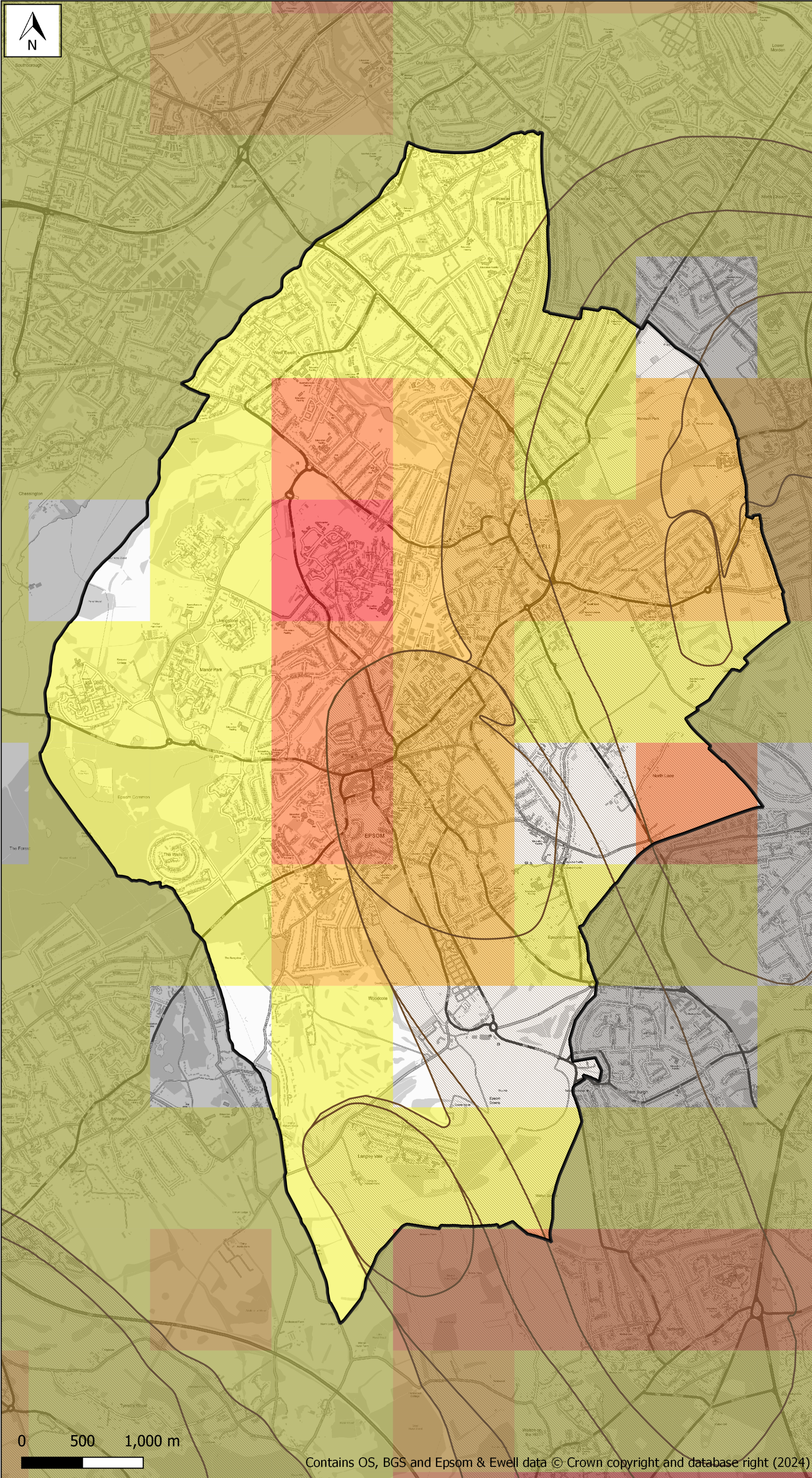
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Figure 9



Legend

-  Borough Boundary
-  Source Protection Zones
- Area Susceptibility to Groundwater Flooding**
-  < 25%
-  >= 25% < 50%
-  >= 50% < 75%
-  >= 75%

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Epsom & Ewell Level 1 Strategic
Flood Risk Assessment

Drawing Title

Area Susceptibility to
Groundwater Flooding and
Source Protection Zones

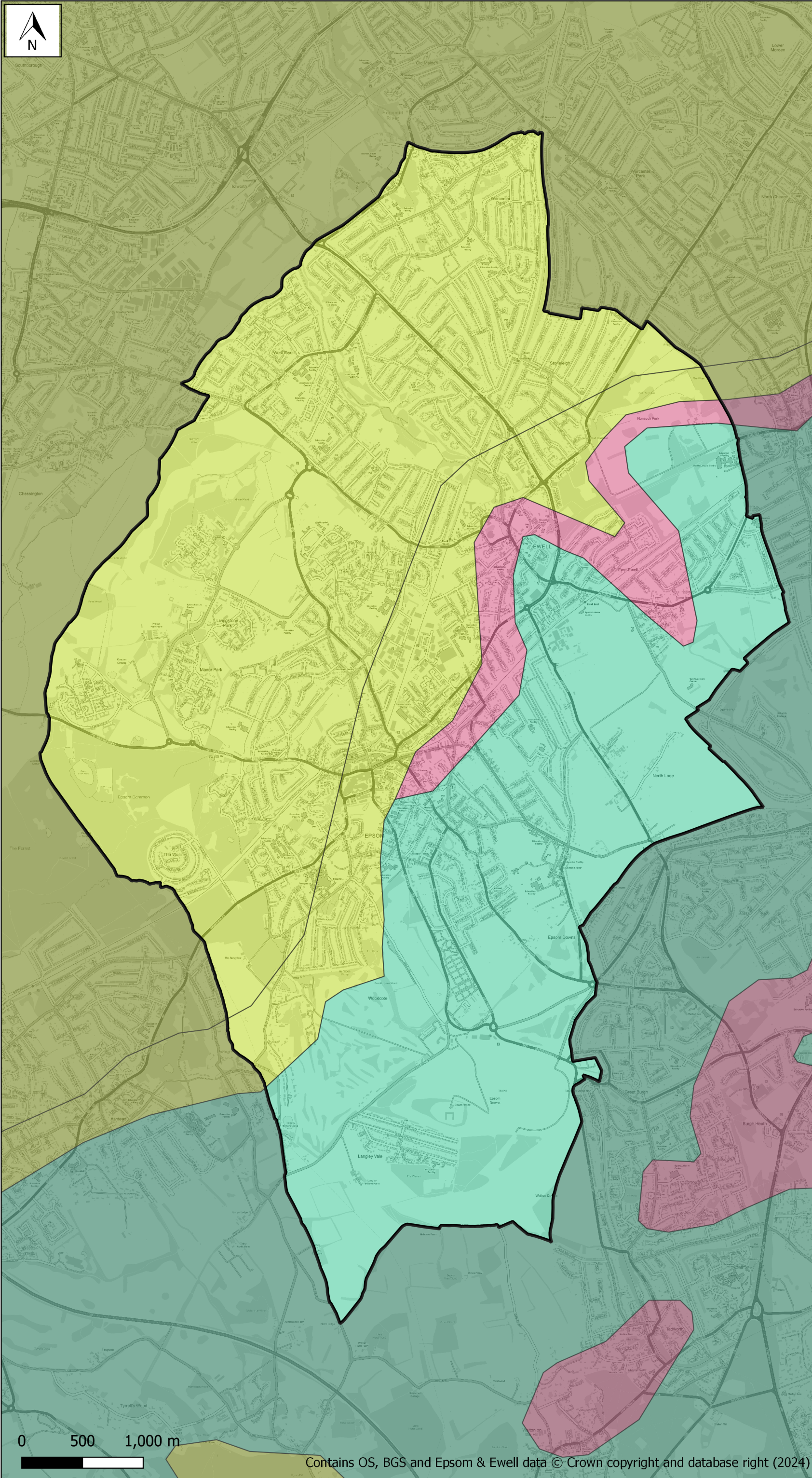
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Figure 10



Legend

- Borough Boundary
- Bedrock Geology
 - Chalk
 - Clay, Silt, Sand and Gravel
 - Sand, Silt and Clay

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Epsom & Ewell Level 1 Strategic
Flood Risk Assessment

Drawing Title

Bedrock Geology

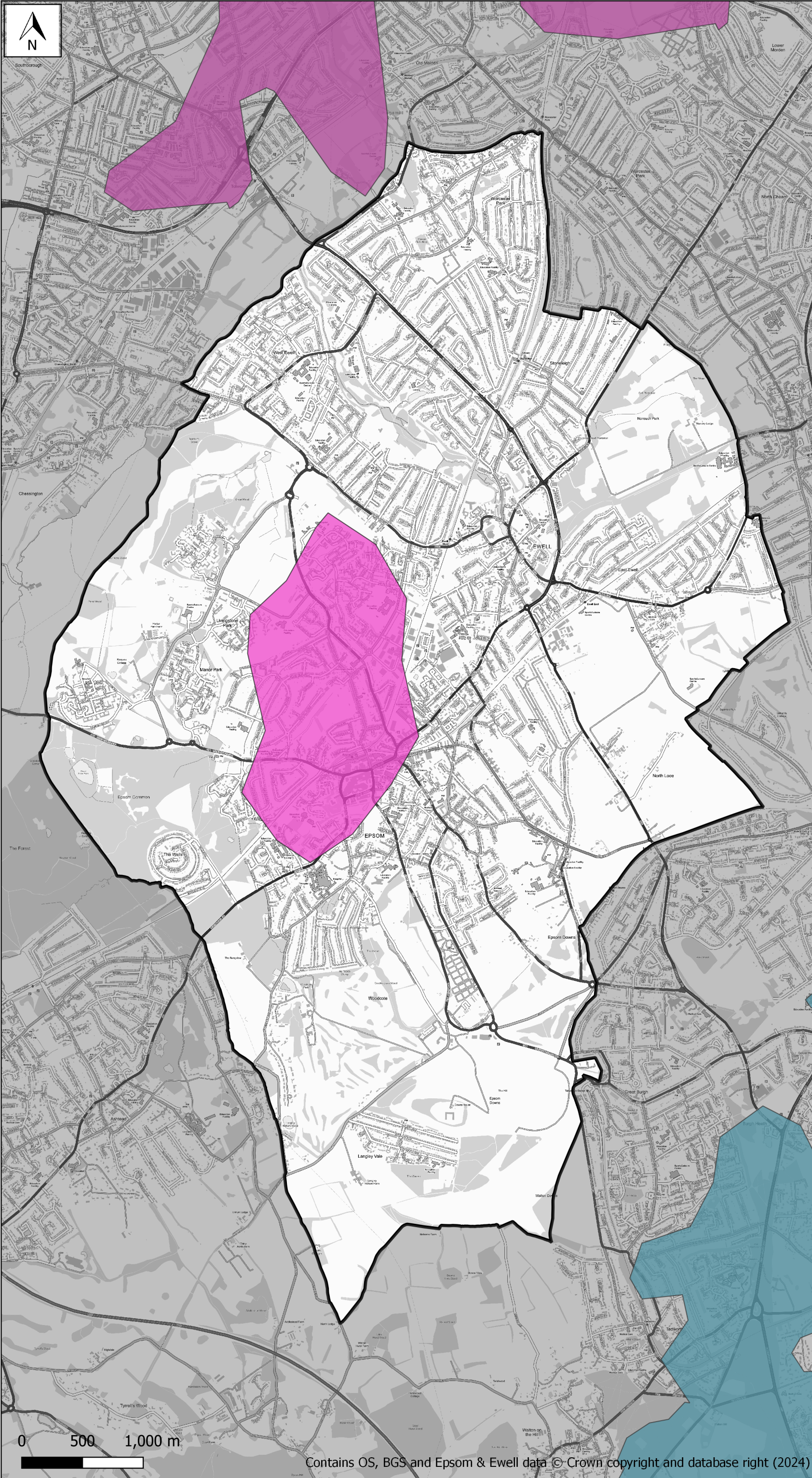
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Figure 11



Legend

-  Borough Boundary
-  Superficial Geology
-  Diamicton
-  Sand and Gravel

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Flood Risk Assessment

Drawing Title

Superficial Geology

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Figure 12

0 500 1,000 m



Legend

-  Borough Boundary
-  Statutory Main River
-  Ordinary Watercourse
-  Critical Drainage Areas

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Epsom & Ewell Level 1
Strategic Flood Risk
Assessment

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Epsom and Ewell Critical
Drainage Areas

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