

# Water Resource Management Plan 2019

Strategic Environmental Assessment  
Scoping Report: Volume 2

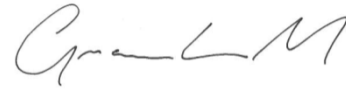
Project Number: 60344725

December 2016

Affinity Water,  
Tamblin Way,  
Hatfield,  
Hertfordshire,  
AL10 9EZ

Quality information

Prepared by



Graham McGrath

Checked by




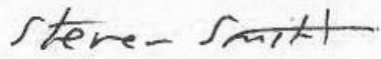
Alexander White

Approved by



Steven Smith

Revision History

Revision	Revision date	Details	Authorized	Name	Position
1	10 October 2016	1 <sup>st</sup> Draft		Alexander White	Associate Director
2	14 November 2016	Revised Draft for comment by Affinity Water		Steve Smith	Technical Director

**Prepared for:**

Affinity Water,  
Tamblin Way,  
Hatfield,  
Hertfordshire,  
AL10 9EZ

**Prepared by:**

AECOM  
63-77 Victoria Street  
St Albans  
Herts, AL1 3ER, United Kingdom  
T +44-1727-535000  
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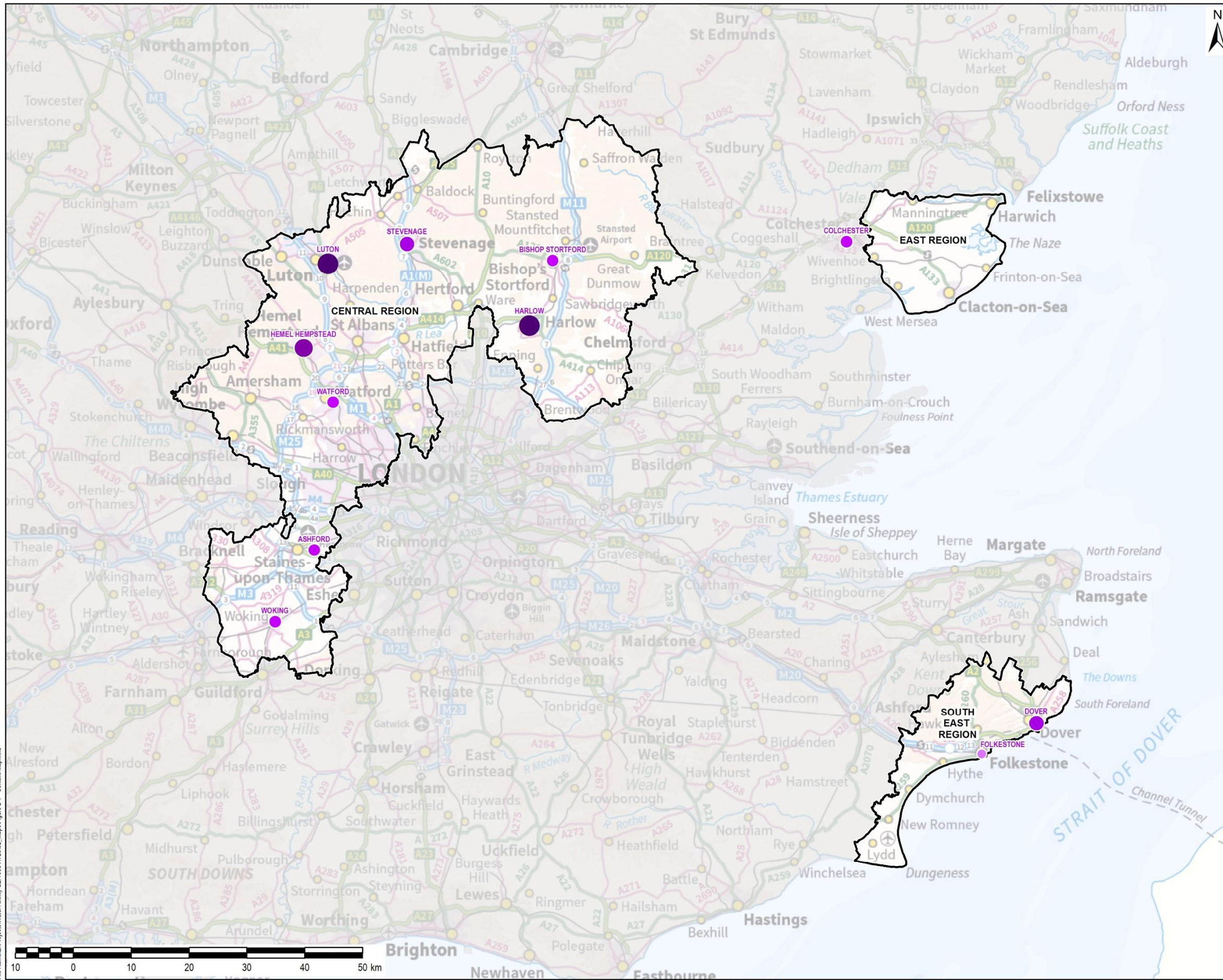
## 1. Introduction

AECOM has been commissioned to undertake the Strategic Environmental Assessment (SEA) of Affinity Water's draft Water Resource Management Plan (dWRMP2019).

The Scoping Report has been prepared for the purposes of meeting the requirements of the Environmental Assessment of Plans and Programmes Regulations 2004 (the 'SEA Regulations') and to facilitate consultation with relevant stakeholders, specifically regarding the scope and level of detail of information to be used in the assessment of the dWRMP2019.

The Scoping Report is composed of two volumes. Volume 1 provides further information on the SEA process and scoping information set out to meet the requirements of the SEA Regulations. Volume 2 (this report) includes specific figures referred to in the text of Volume 1. These documents should be read in conjunction.

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**LEGEND**

□ Affinity Water Regions

**Expected Growth in Dwelling per Settlement**

- < 2,500
- 2,501 - 5,000
- 5,001 - 7,500
- 7,501 - 10,000
- > 10,000

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Purpose of Issue  
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AFFINITY WATER

Project Title  
AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT

Drawing Title  
AFFINITY WATER OPERATING AREA AND MAIN AREAS OF HOUSING GROWTH

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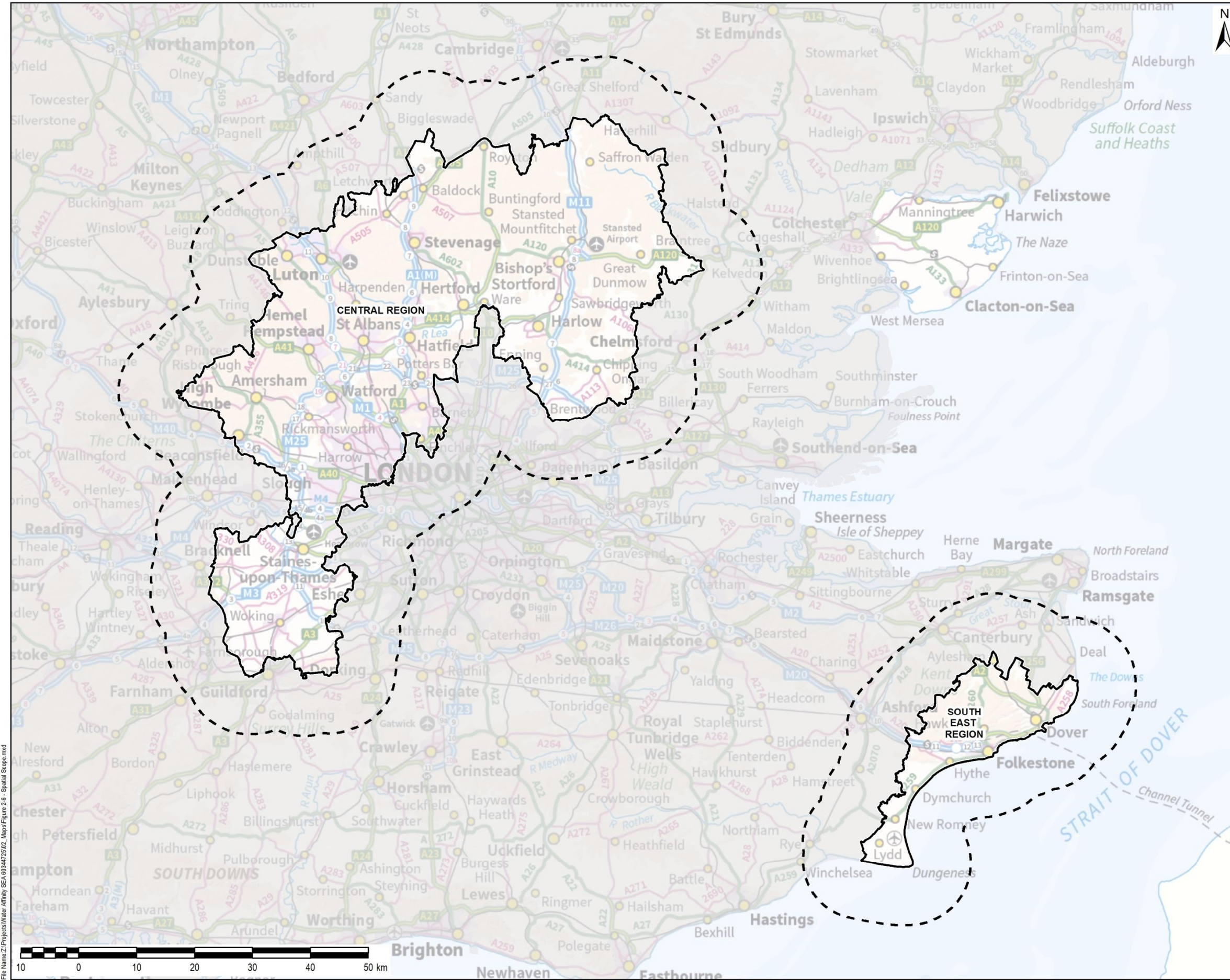
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Drawing Number  
**FIGURE 2.1**

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**01**

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- Affinity Water Regions
- Affinity Water Regions - 10km Buffer

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**STUDY AREA**

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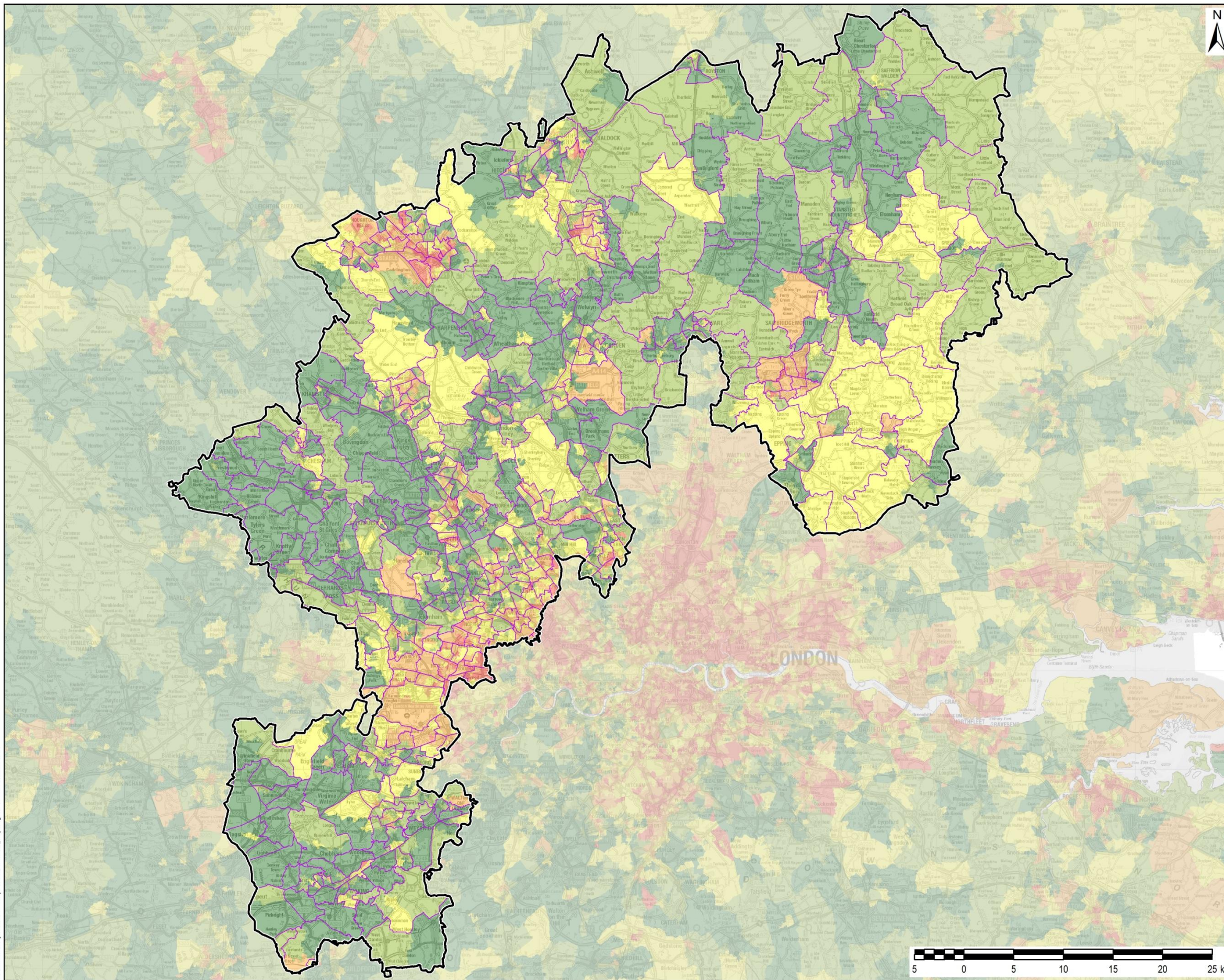
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**LEGEND**

- Affinity Water Regions
- Ward Boundary

**Indices of Multiple Deprivation by Lower Level Super Output Area (LLSOA)**

- 0 - 20% (Most Deprived)
- 20 - 40%
- 40 - 60%
- 60 - 80%
- 80 - 100% (Least Deprived)

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Drawing Title  
**INDEX OF MULTIPLE DEPRIVATION (2015) CENTRAL REGION**

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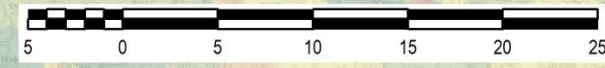
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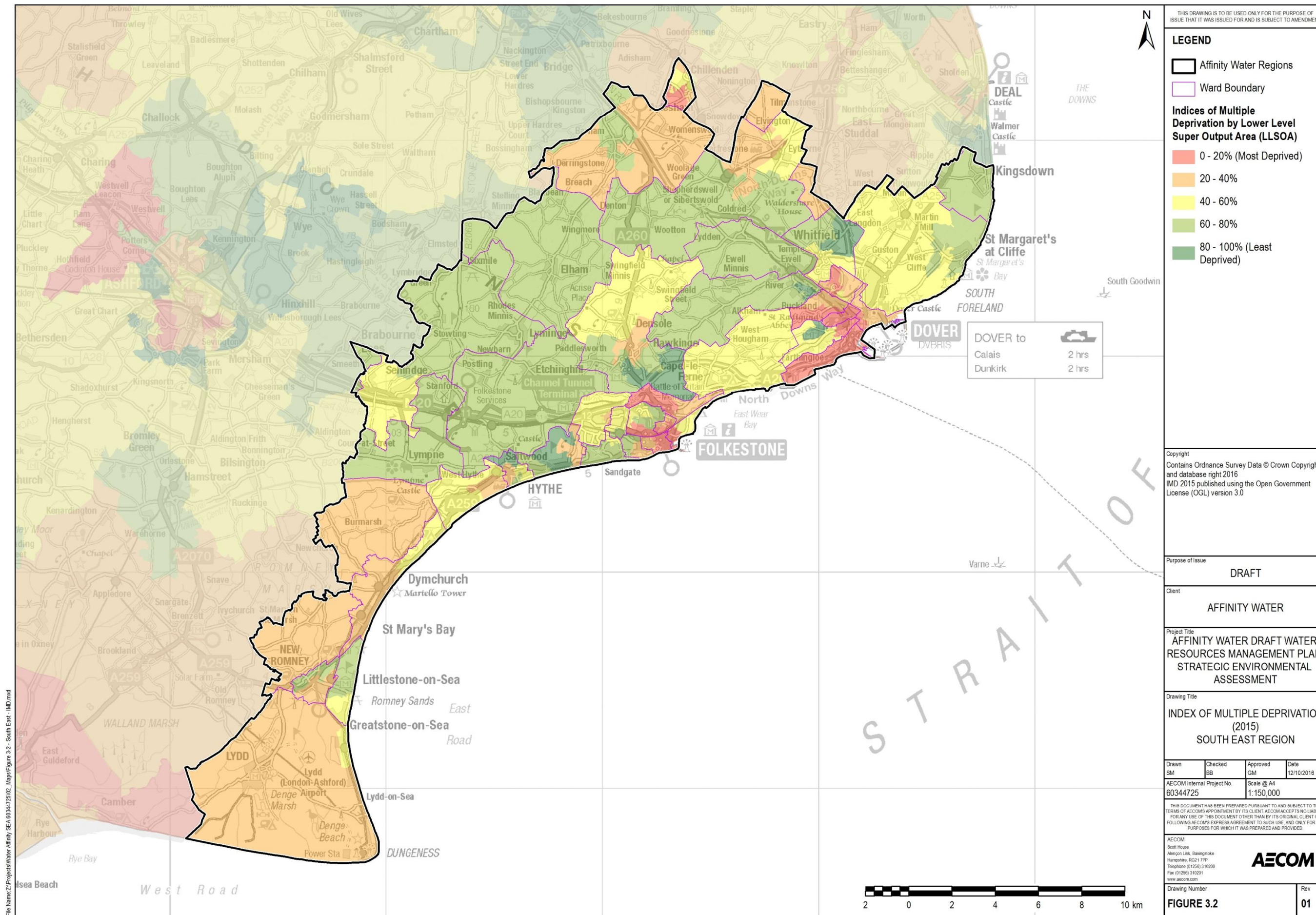
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**FIGURE 3.1**

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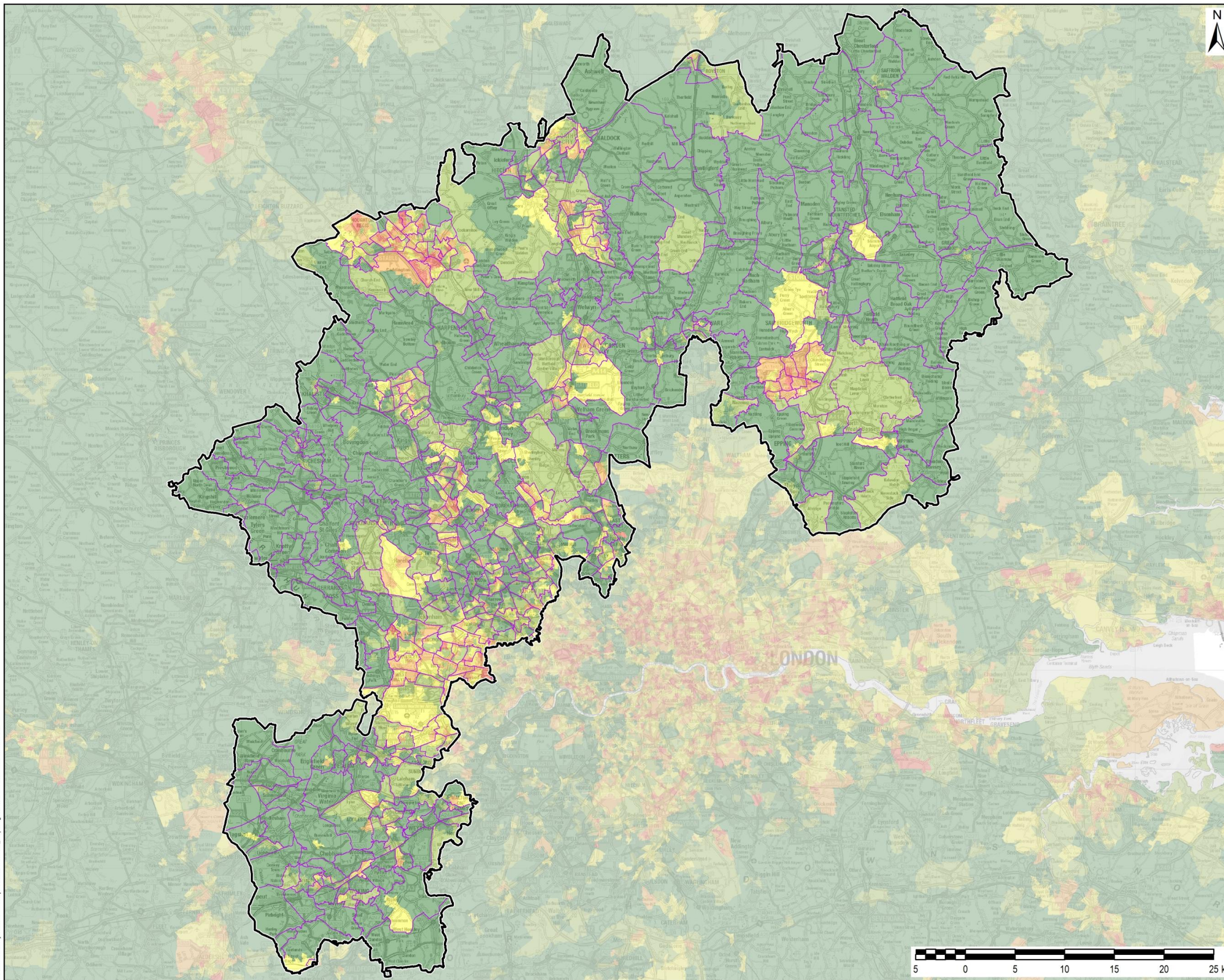


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**LEGEND**

Affinity Water Regions

Ward Boundary

**Health Deprivation and Disability by Lower Level Super Output Area (LLSOA)**

0 - 20% (Most Deprived)

20 - 40%

40 - 60%

60 - 80%

80 - 100% (Least Deprived)

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Drawing Title  
**HEALTH DEPRIVATION AND DISABILITY (2015) CENTRAL REGION**

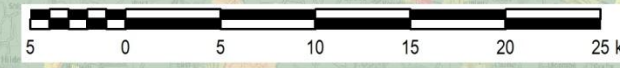
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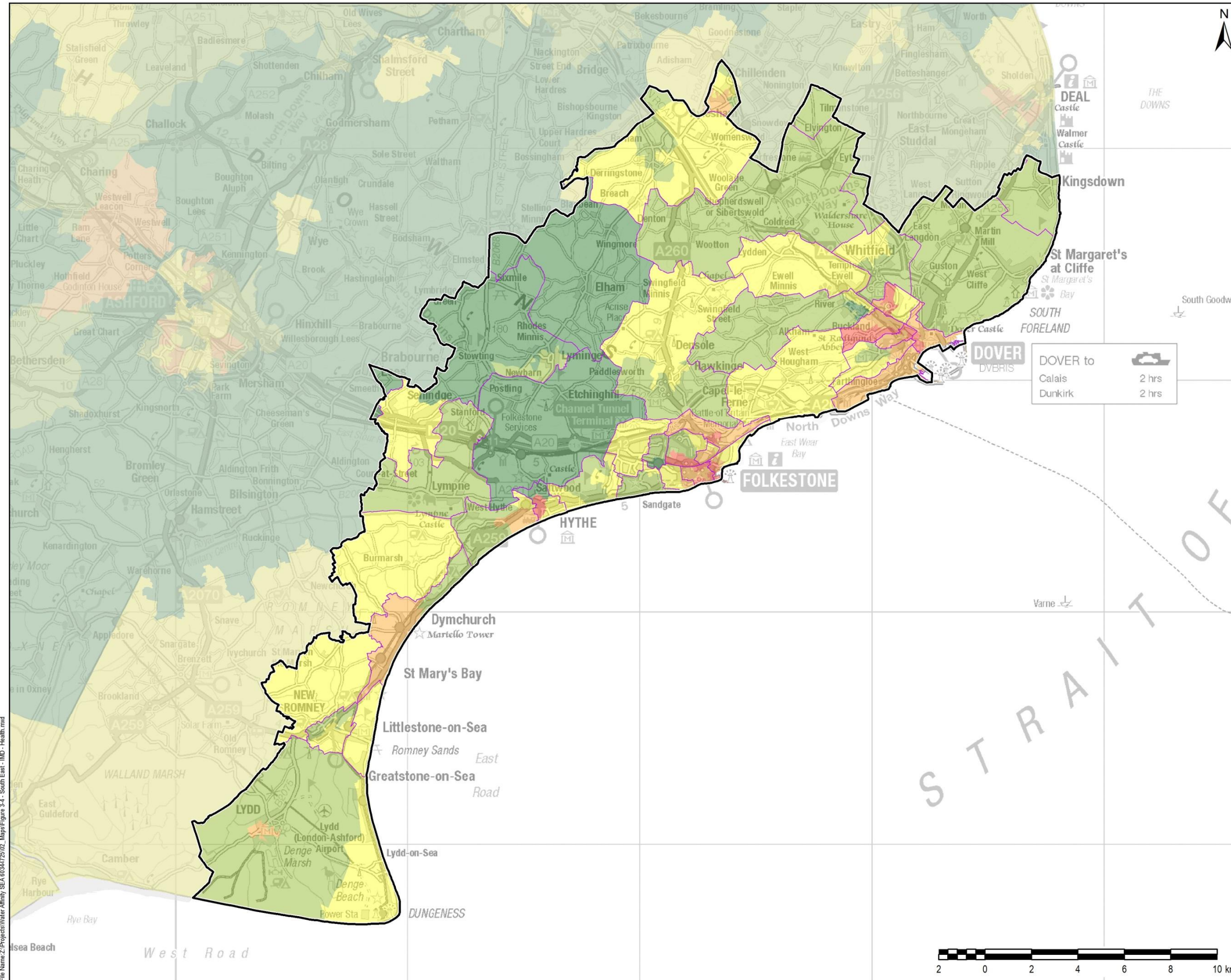
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Drawing Number <b>FIGURE 3.3</b>	Rev <b>01</b>
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**LEGEND**

- Affinity Water Regions
- Ward Boundary

**Health Deprivation and Disability by Lower Level Super Output Area (LLSOA)**

- 0 - 20% (Most Deprived)
- 20 - 40%
- 40 - 60%
- 60 - 80%
- 80 - 100% (Least Deprived)

DOVER to

Calais	2 hrs
Dunkirk	2 hrs

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**HEALTH DEPRIVATION AND DISABILITY (2015) SOUTH EAST REGION**

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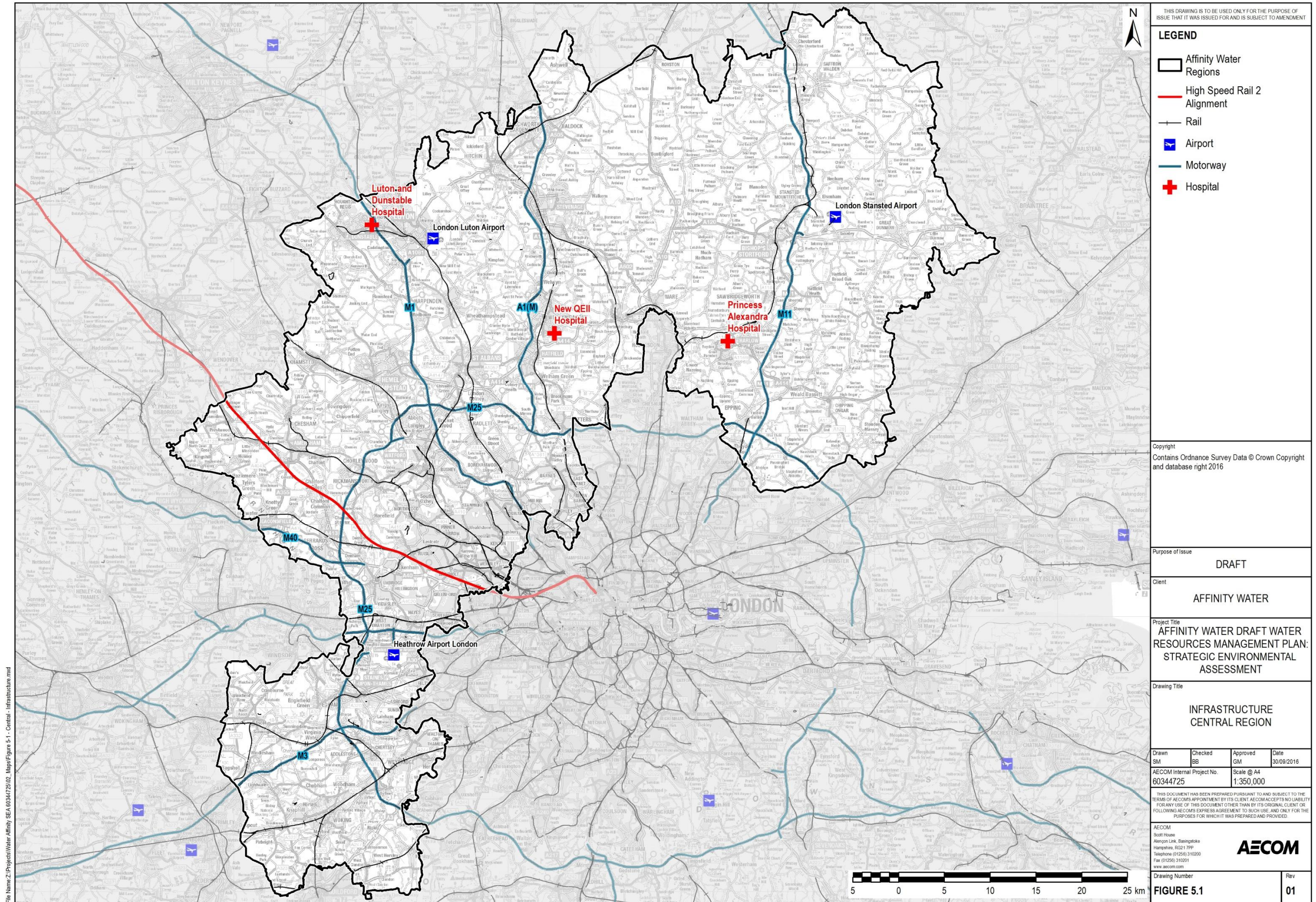
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Drawing Number <b>FIGURE 3.4</b>	Rev <b>01</b>
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- LEGEND**
- Affinity Water Regions
  - High Speed Rail 2 Alignment
  - Rail
  - ✈ Airport
  - Motorway
  - + Hospital

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Drawing Title  
**INFRASTRUCTURE CENTRAL REGION**

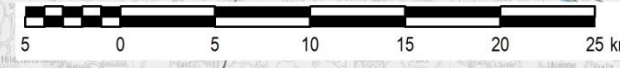
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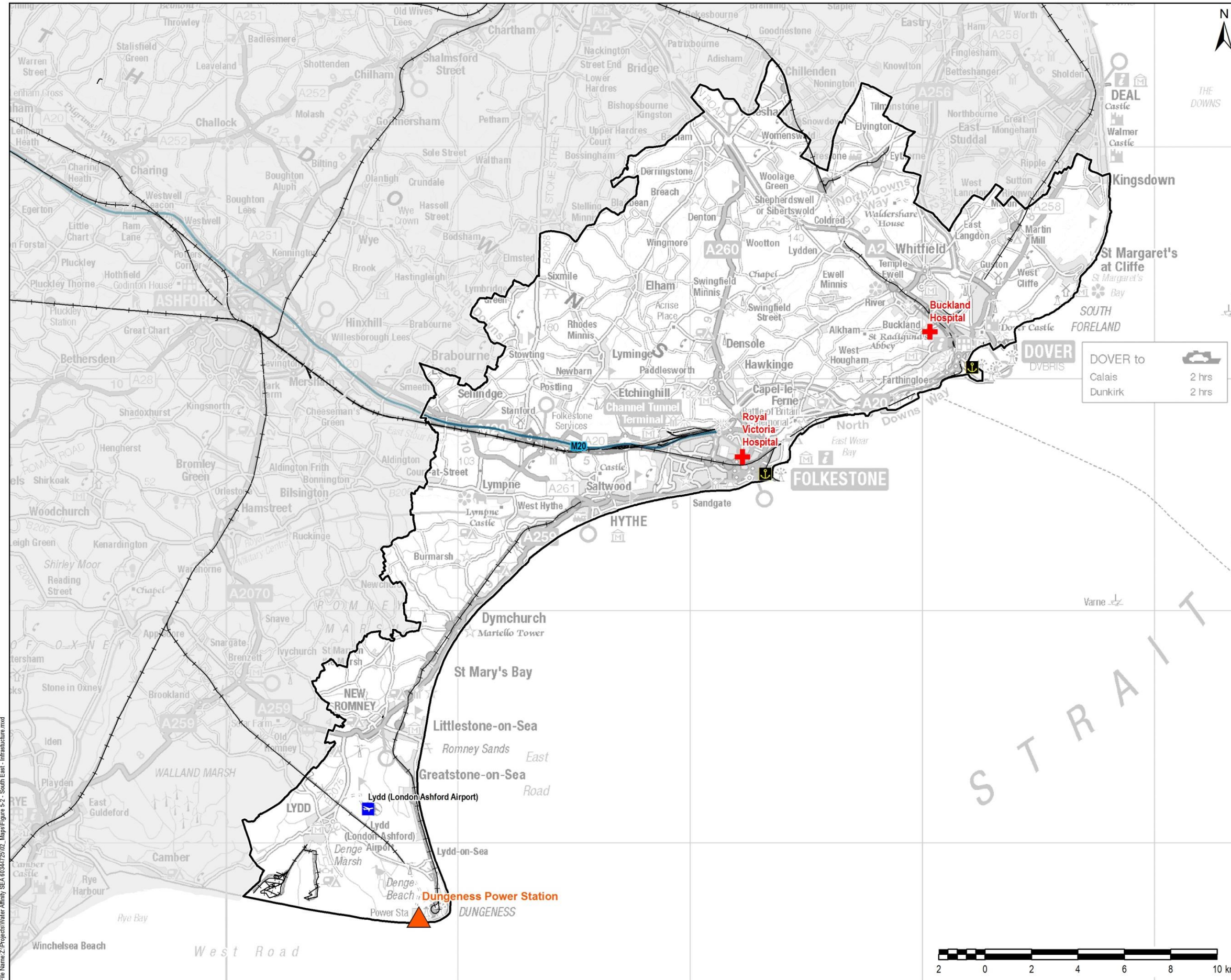
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**LEGEND**

- Affinity Water Regions
- Rail
- Airport
- Motorway
- Port
- Hospital

DOVER to  
Calais 2 hrs  
Dunkirk 2 hrs

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INFRASTRUCTURE SOUTH EAST REGION

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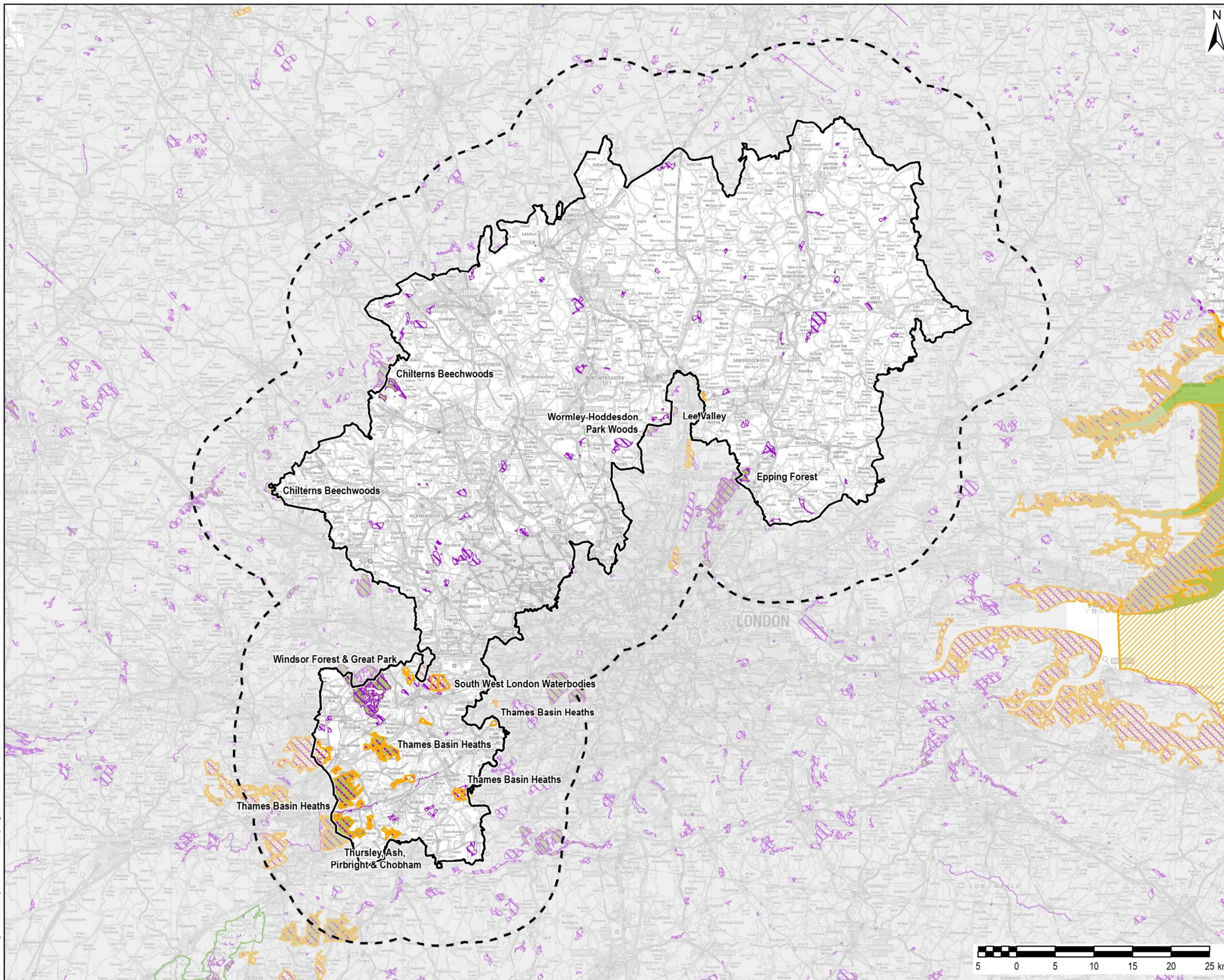
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FIGURE 5.2

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- LEGEND**
- Affinity Water Regions
  - Affinity Water Regions - 10km Buffer
  - Special Protection Area (SPA)
  - Site of Special Scientific Interest
  - National Parks
  - Special Area of Conservation (SAC)

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**BIODIVERSITY DESIGNATIONS CENTRAL REGION**

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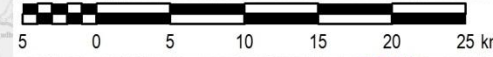
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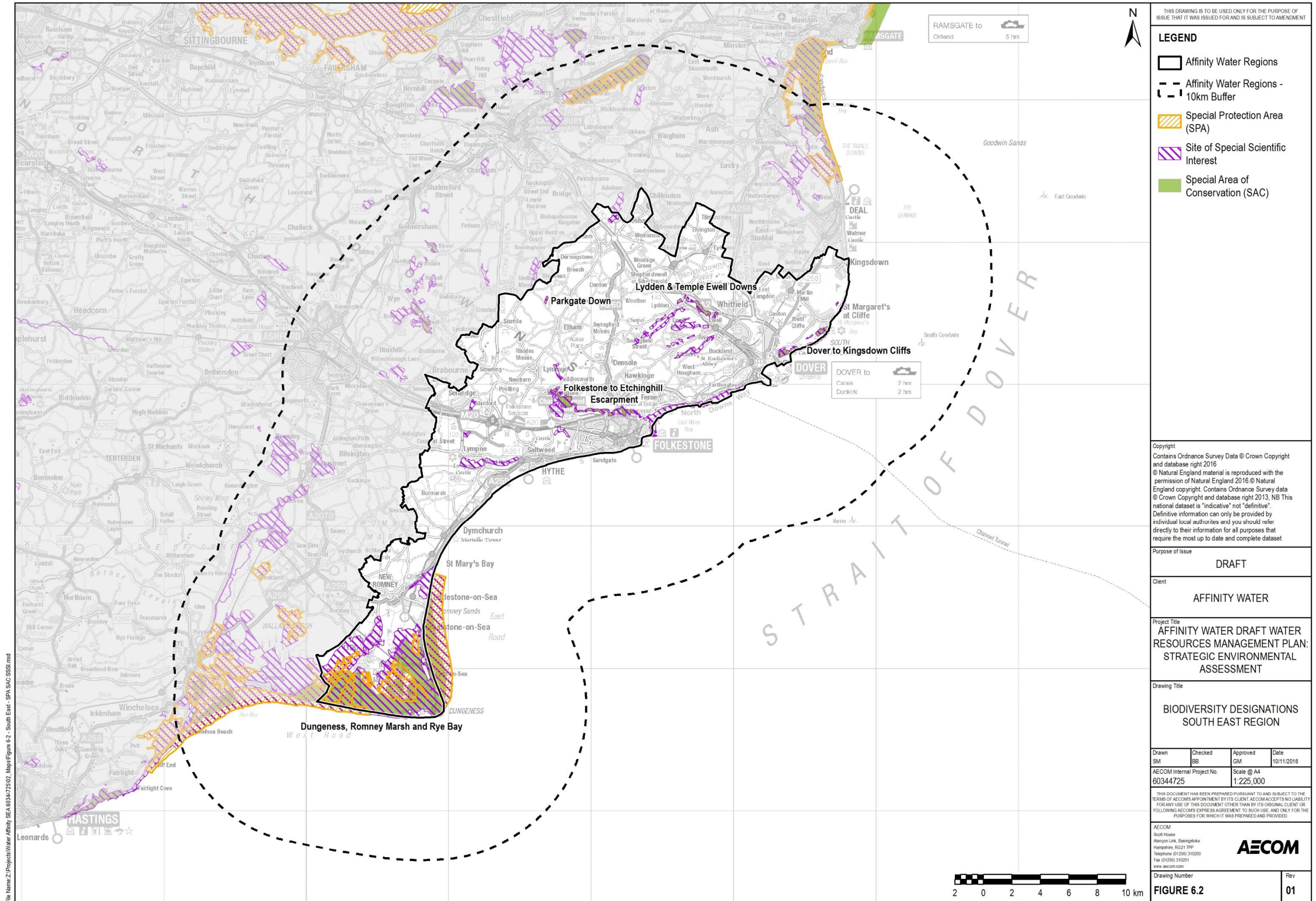


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**FIGURE 6.1**

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**LEGEND**

- Affinity Water Regions
- Affinity Water Regions - 10km Buffer
- Special Protection Area (SPA)
- Site of Special Scientific Interest
- Special Area of Conservation (SAC)

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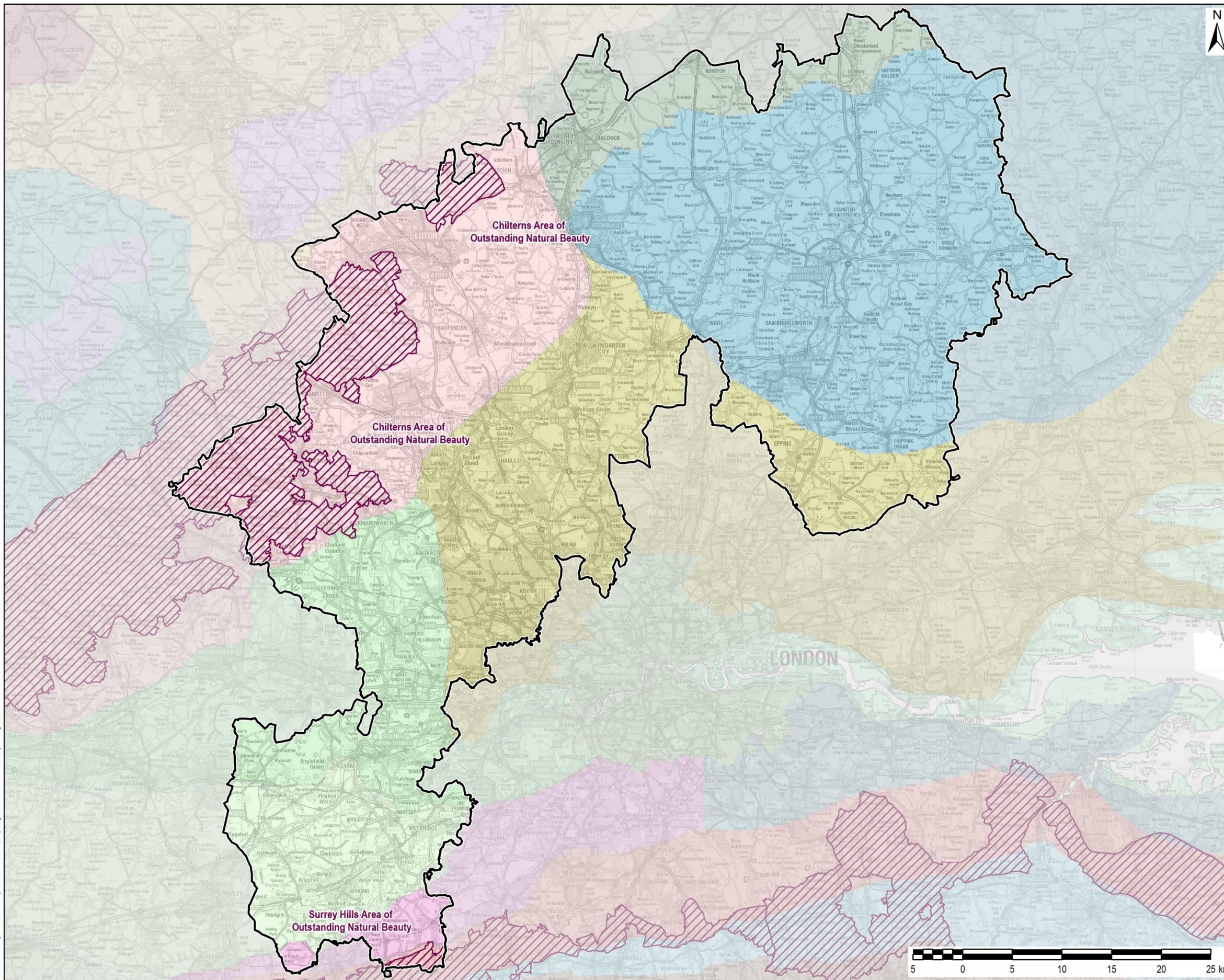
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**FIGURE 6.2**

Rev  
**01**



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LEGEND	
	Affinity Water Regions
	Area of Outstanding Natural Beauty
Character Areas	
	BEDFORDSHIRE AND CAMBRIDGESHIRE CLAYLANDS
	CHILTERNs
	EAST ANGLIAN CHALK
	NORTH DOWNS
	NORTHERN THAMES BASIN
	SOUTH SUFFOLK AND NORTH ESSEX CLAYLAND
	THAMES BASIN HEATHS
	THAMES BASIN LOWLANDS
	THAMES VALLEY

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Drawing Title  
**LANDSCAPE DESIGNATIONS CENTRAL REGION**

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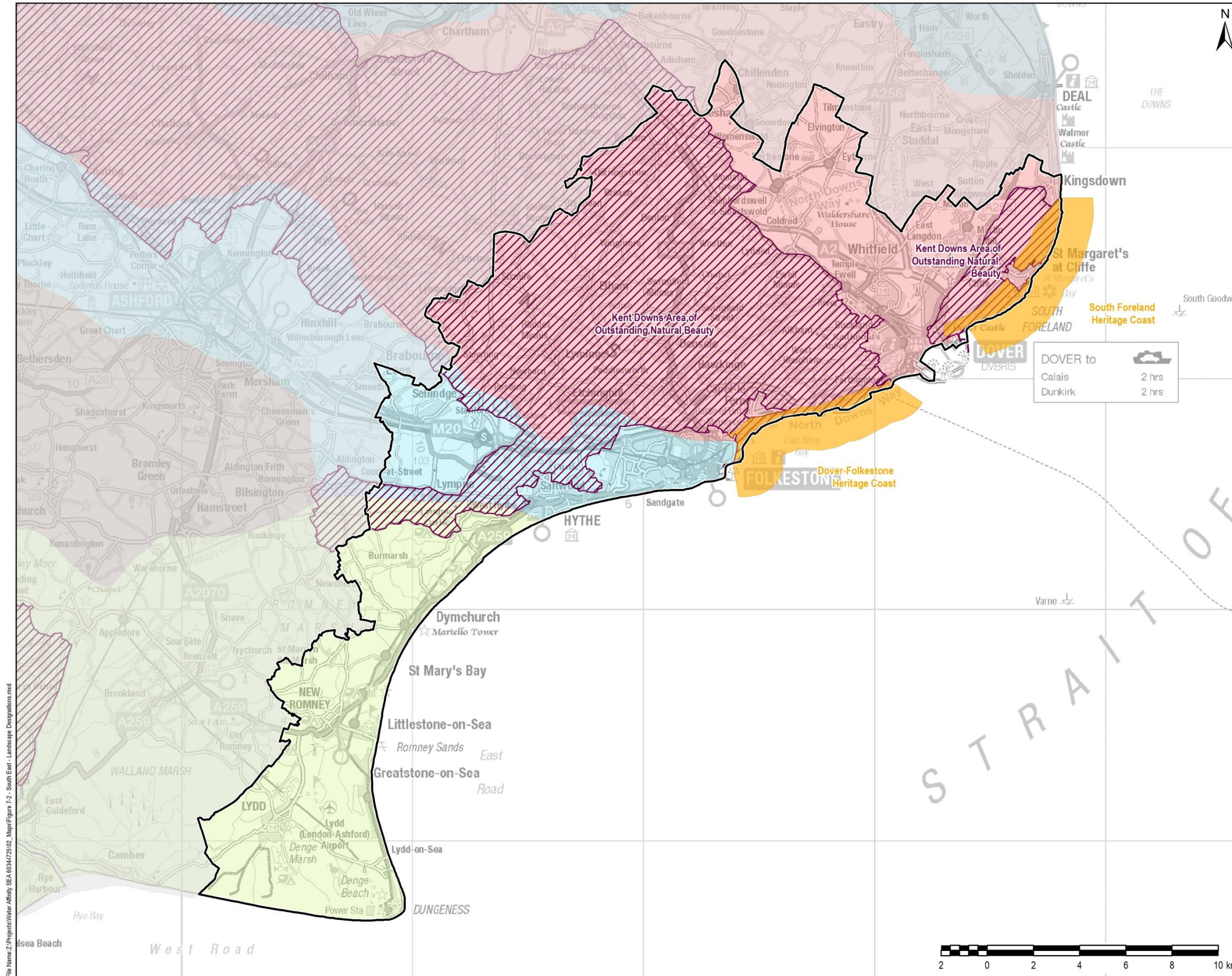
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**LEGEND**

- Affinity Water Regions
- Heritage Coasts
- Area of Outstanding Natural Beauty

**Character Areas**

- LOW WEALD
- NORTH DOWNS
- NORTH KENT PLAIN
- ROMNEY MARSHES
- WEALDEN GREENSAND

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**LANDSCAPE DESIGNATIONS SOUTH EAST REGION**

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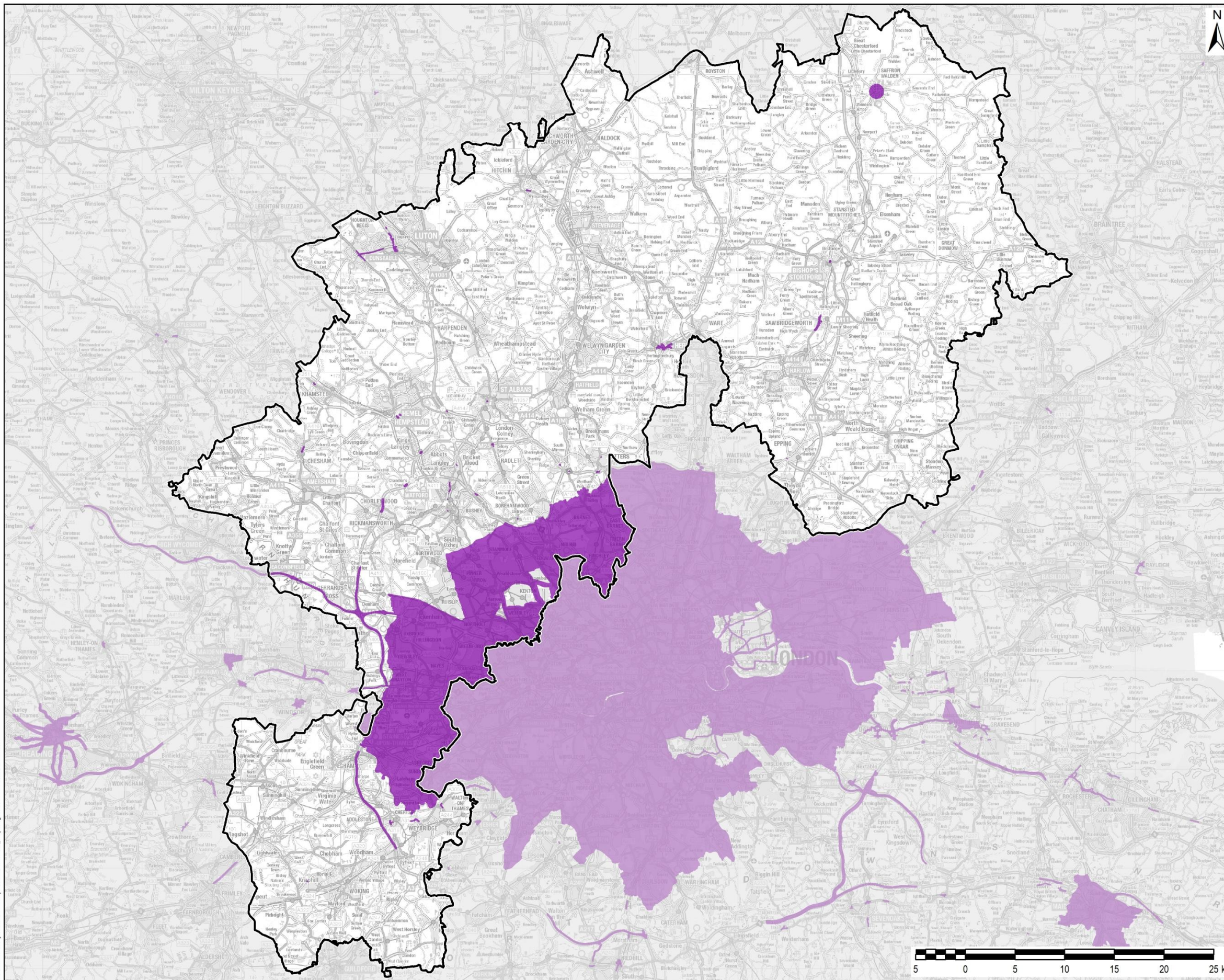
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**LEGEND**

- Affinity Water Regions
- Air Quality Management Areas

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 STRATEGIC ENVIRONMENTAL  
 ASSESSMENT**

Drawing Title  
**AIR QUALITY MANAGEMENT AREAS  
 CENTRAL REGION**

Drawn SM	Checked BB	Approved GM	Date 12/10/2016
AECOM Internal Project No. 60344725		Scale @ A4 1:350,000	

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Drawing Number <b>FIGURE 8.1</b>	Rev <b>01</b>
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File Name: Z:\Projects\Water Affinity\_SEA\_60344725\02\_Map\Figure 8-1\_Central\_AQMA.mxd



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**LEGEND**

- Affinity Water Regions
- Air Quality Management Areas

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Purpose of issue  
**DRAFT**

Client  
**AFFINITY WATER**

Project Title  
**AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT**

Drawing Title  
**AIR QUALITY MANAGEMENT AREAS SOUTH EAST REGION**

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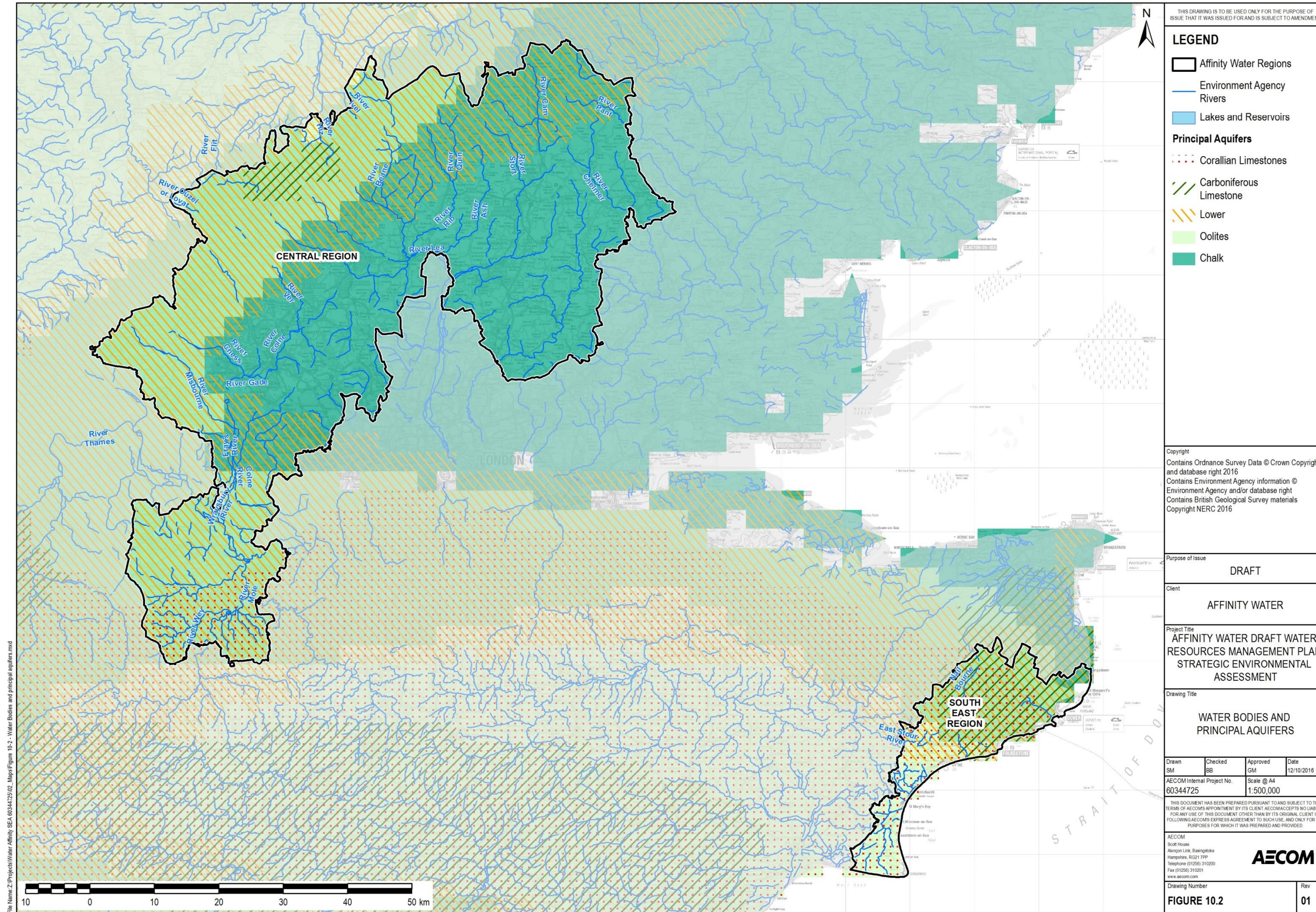
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Drawing Number <b>FIGURE 8.2</b>	Rev <b>01</b>
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**LEGEND**

- Affinity Water Regions
- Environment Agency Rivers
- Lakes and Reservoirs

**Principal Aquifers**

- Corallian Limestones
- Carboniferous Limestone
- Lower
- Oolites
- Chalk

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**AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT**

Drawing Title  
**WATER BODIES AND PRINCIPAL AQUIFERS**

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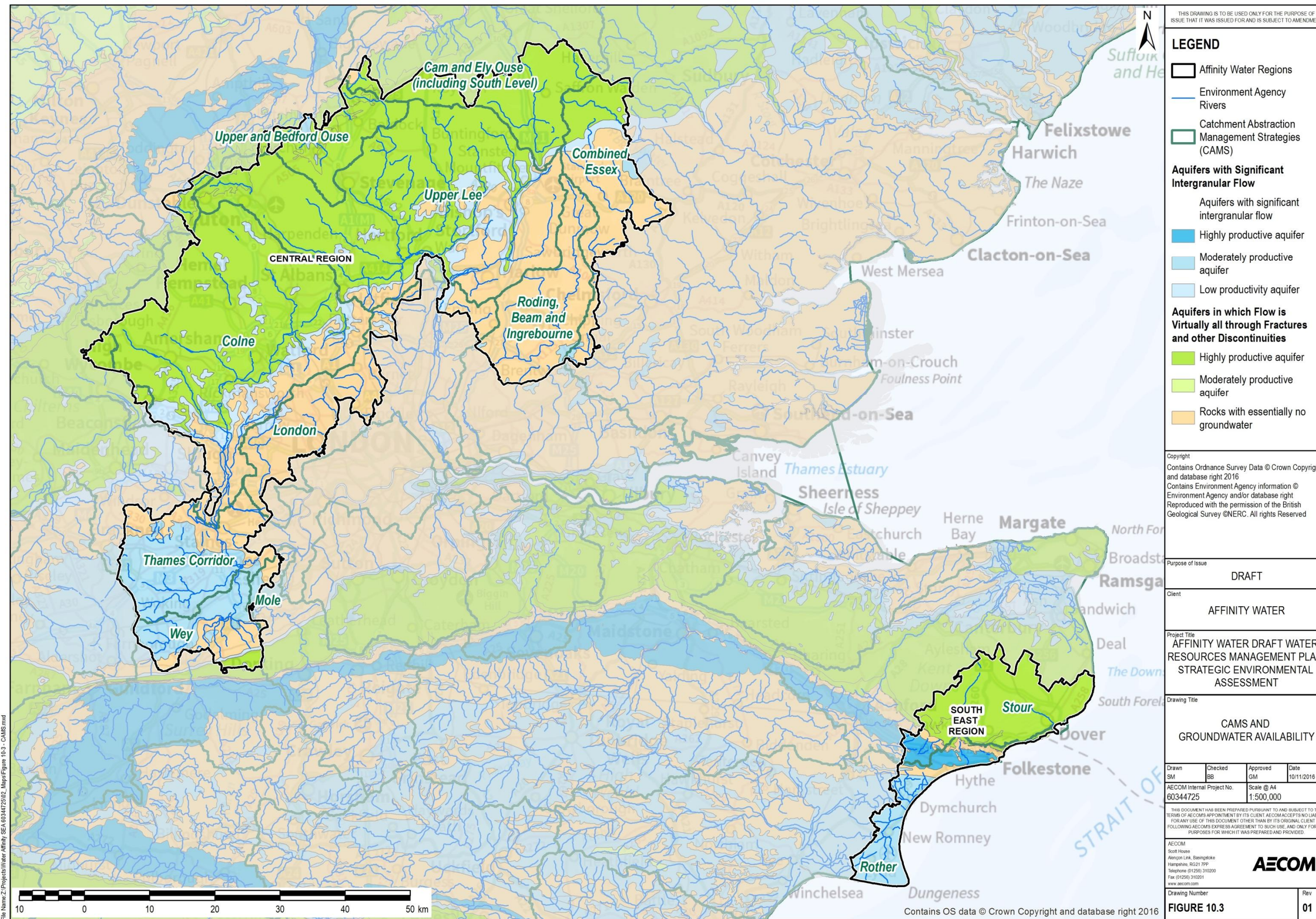
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Drawing Number  
**FIGURE 10.2**

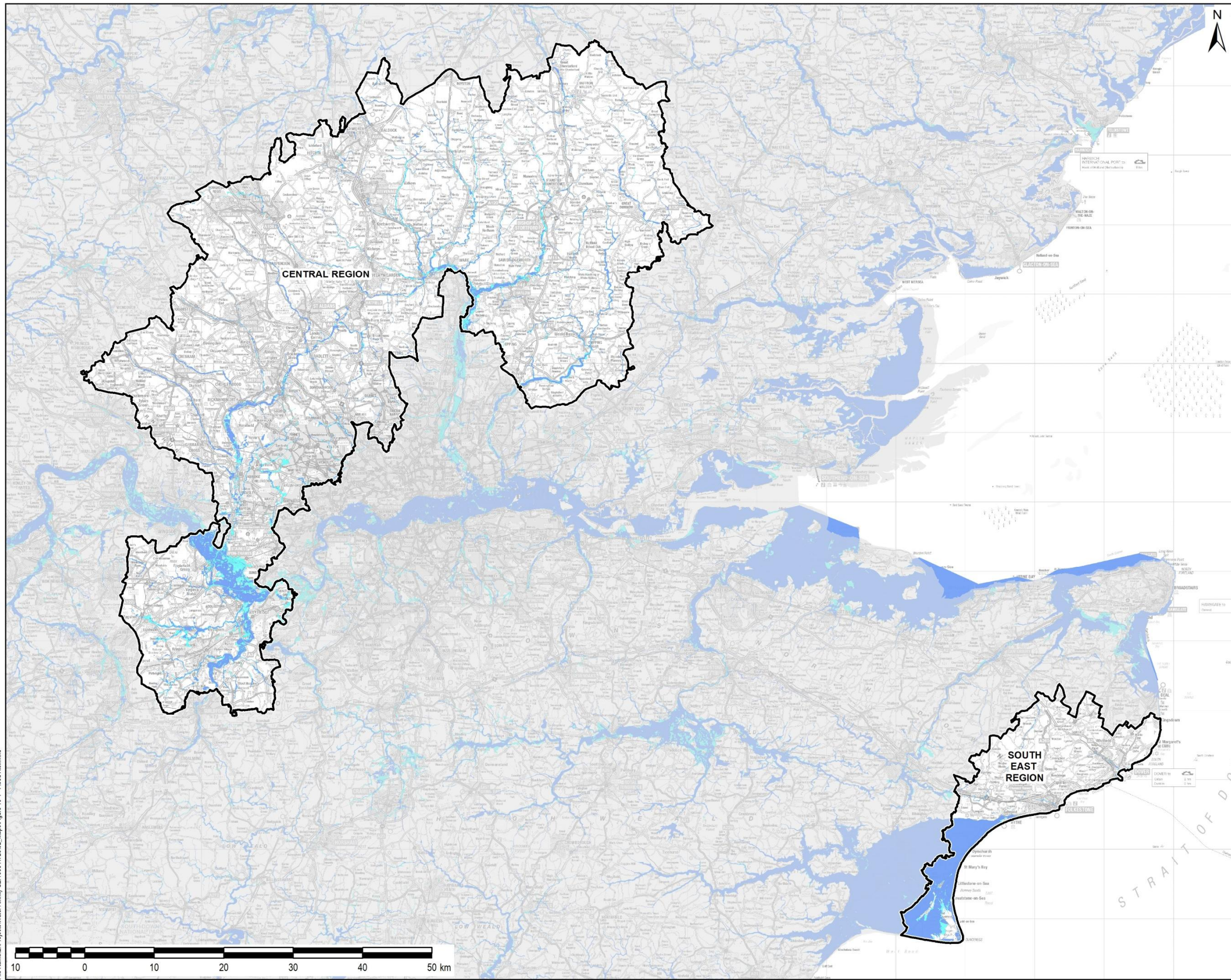
Rev  
**01**

File Name: Z:\Projects\Water Admin\SEA\_0304125102\_Maps\Figure 10-2 - Water Bodies and principal aquifers.mxd



File Name: Z:\Projects\Water Affinity SEA\60344725\02\_Maps\Figure 10.3 - CAMS.mxd

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**LEGEND**

- Affinity Water Regions
- Flood Zone 3
- Flood Zone 2

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**AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT**

Drawing Title  
**FLOOD RISK**

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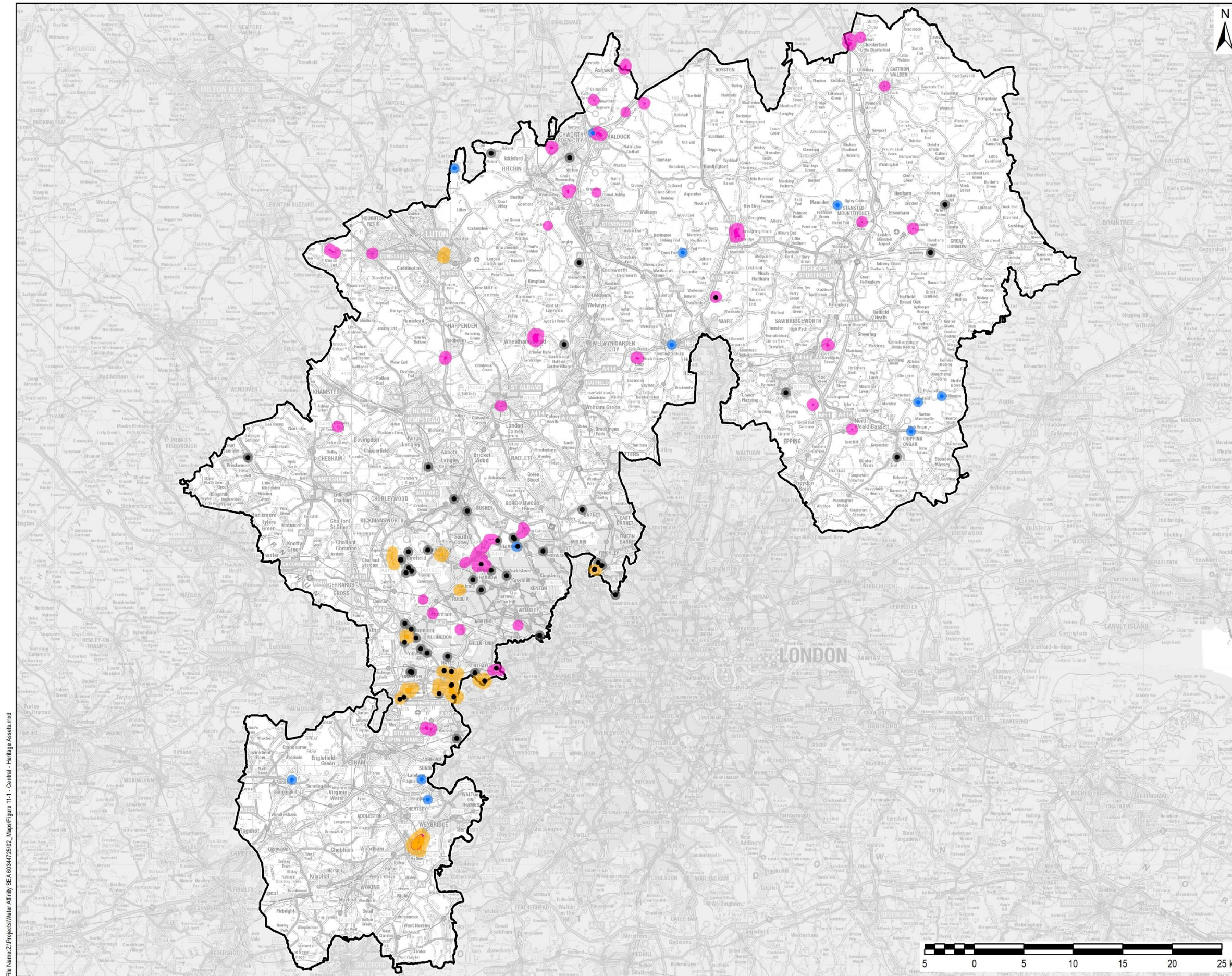
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Drawing Number  
**FIGURE 10.4**

Rev  
**01**

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- LEGEND**
- Affinity Water Regions
  - Heritage Assets at Risk - Listed Building
  - Heritage Assets at Risk - Listed Building - 500m Buffer
  - Heritage Assets at Risk - Place of Worship
  - Heritage Assets at Risk - Place of Worship - 500m Buffer
  - Heritage Assets at Risk - Scheduled Monument
  - Heritage Assets at Risk - Scheduled Monument - 500m Buffer
  - Heritage Assets at Risk - Conservation Area
  - Heritage Assets at Risk - Conservation Areas - 500m Buffer

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Client  
**AFFINITY WATER**

Project Title  
**AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT**

Drawing Title  
**HERITAGE ASSETS AT RISK CENTRAL REGION**

Drawn SM	Checked BB	Approved GM	Date 03/10/2016
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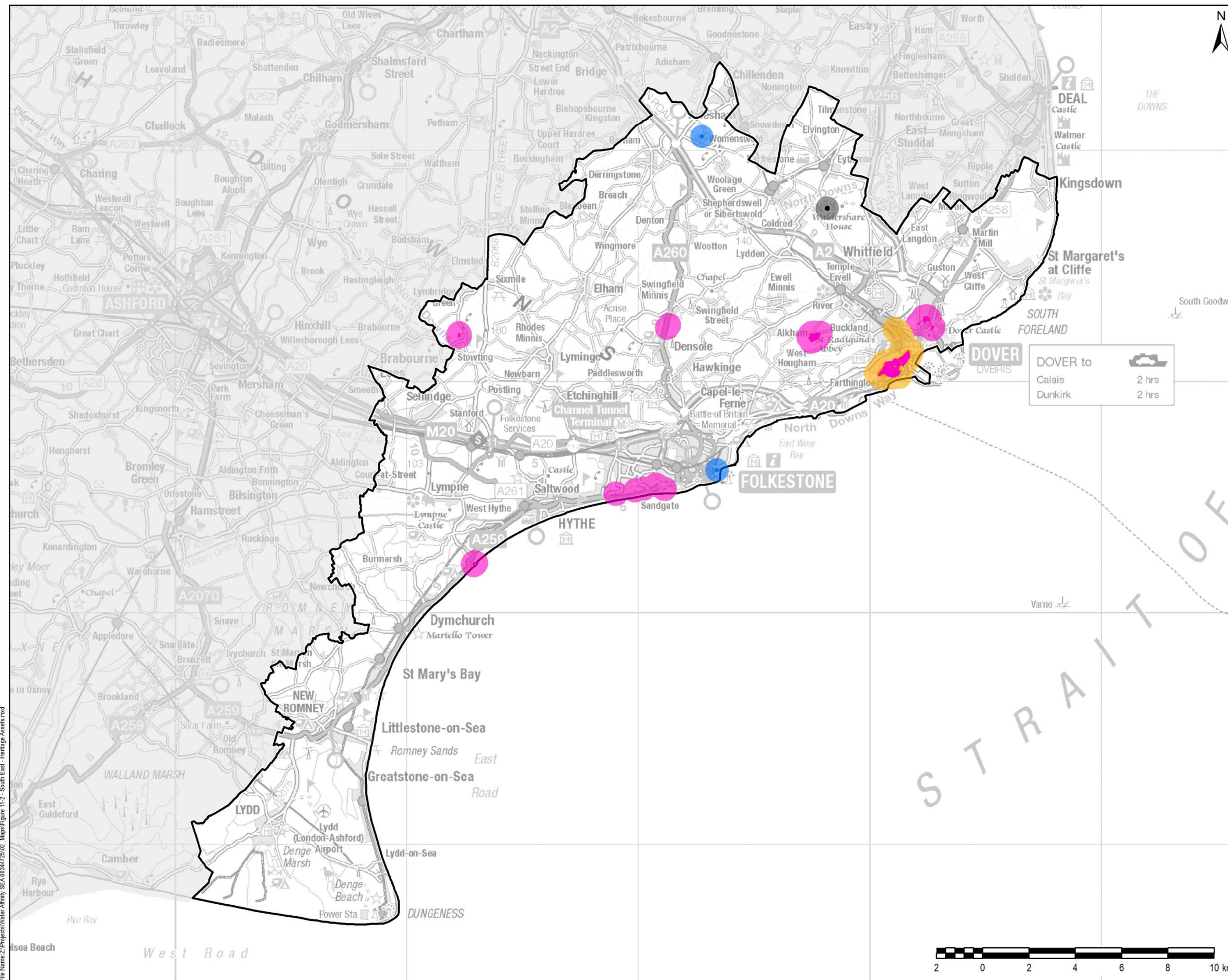
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Drawing Number  
**FIGURE 11.1**

Rev  
**01**

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**LEGEND**

- Affinity Water Regions
- Heritage Assets at Risk - Listed Building
- Heritage Assets at Risk - Listed Building - 500m Buffer
- Heritage Assets at Risk - Place of Worship
- Heritage Assets at Risk - Place of Worship - 500m Buffer
- Heritage Assets at Risk - Scheduled Monument
- Heritage Assets at Risk - Scheduled Monument - 500m Buffer
- Heritage Assets at Risk - Conservation Area
- Heritage Assets at Risk - Conservation Areas - 500m Buffer

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Purpose of issue: DRAFT

Client: AFFINITY WATER

Project Title: AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT

Drawing Title: HERITAGE ASSETS AT RISK SOUTH EAST REGION

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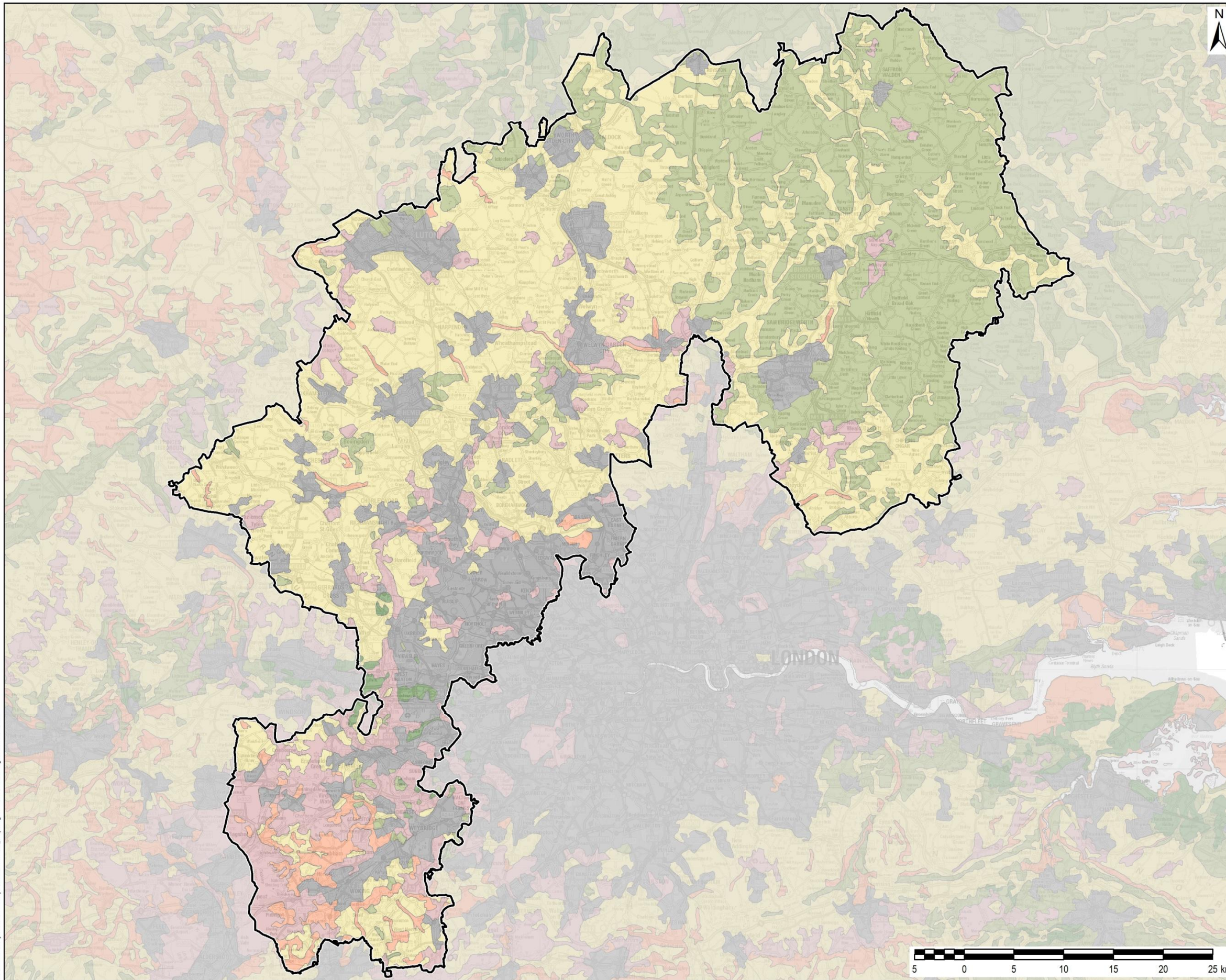
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Drawing Number: FIGURE 11.2 Rev: 01

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- LEGEND**
- Affinity Water Regions
  - Agricultural Land Classification**
  - Grade 1
  - Grade 2
  - Grade 3
  - Grade 4
  - Grade 5
  - Non Agricultural
  - Urban

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Project Title  
**AFFINITY WATER DRAFT WATER RESOURCES MANAGEMENT PLAN: STRATEGIC ENVIRONMENTAL ASSESSMENT**

Drawing Title  
**AGRICULTURAL LAND CLASSIFICATION CENTRAL REGION**

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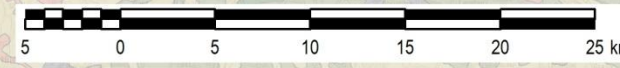
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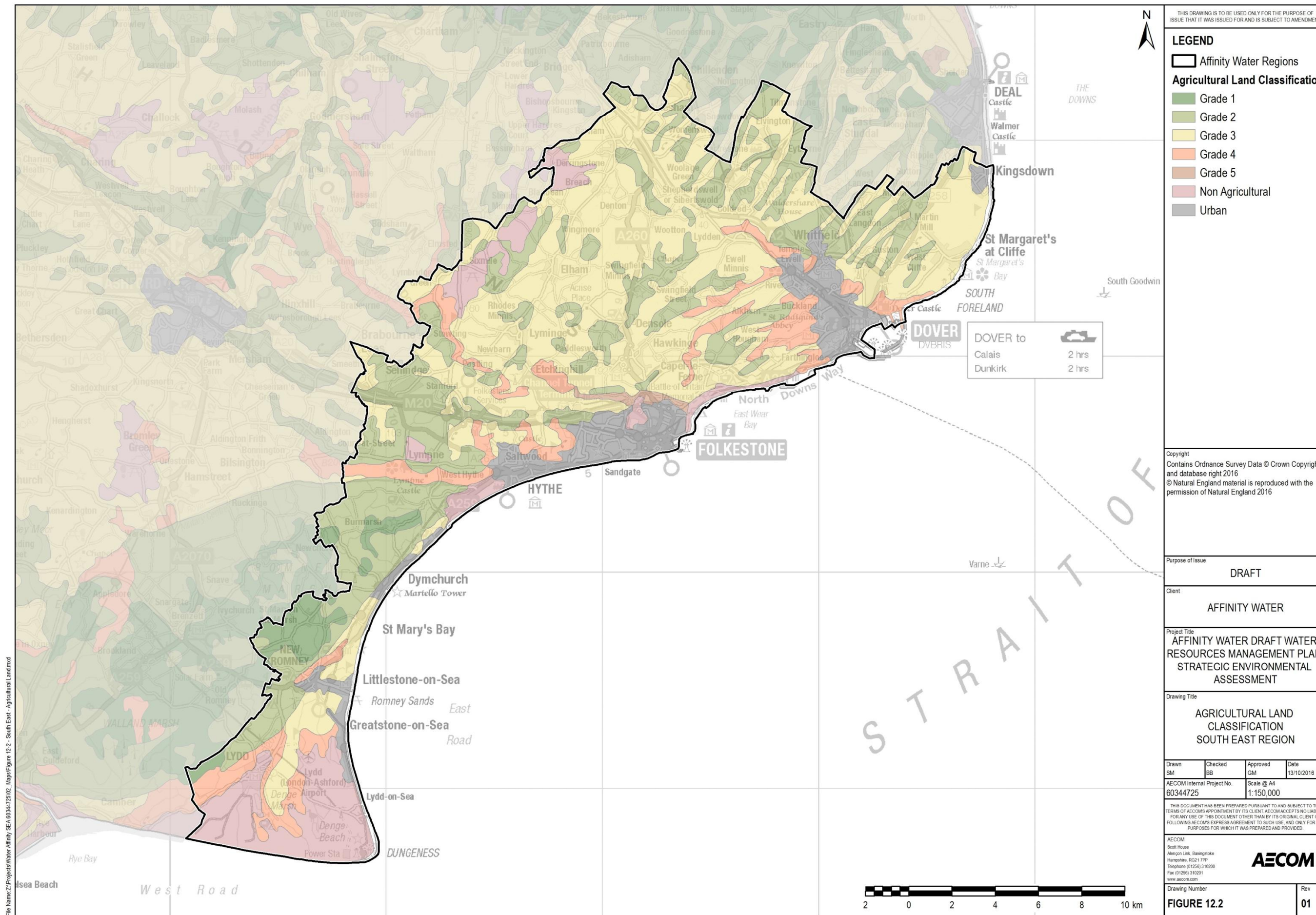


Drawing Number  
**FIGURE 12.1**

Rev  
**01**



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