

# Hampshire Water Recycling & Water Transfer Project EIA Scoping Report – Volume III Figures Part 2 of 5

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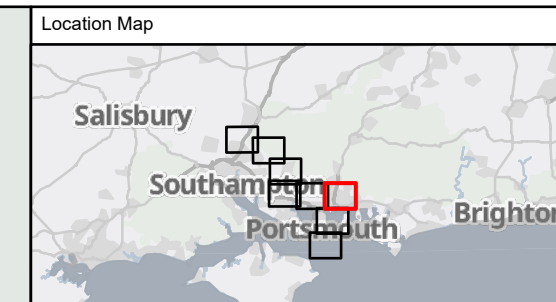
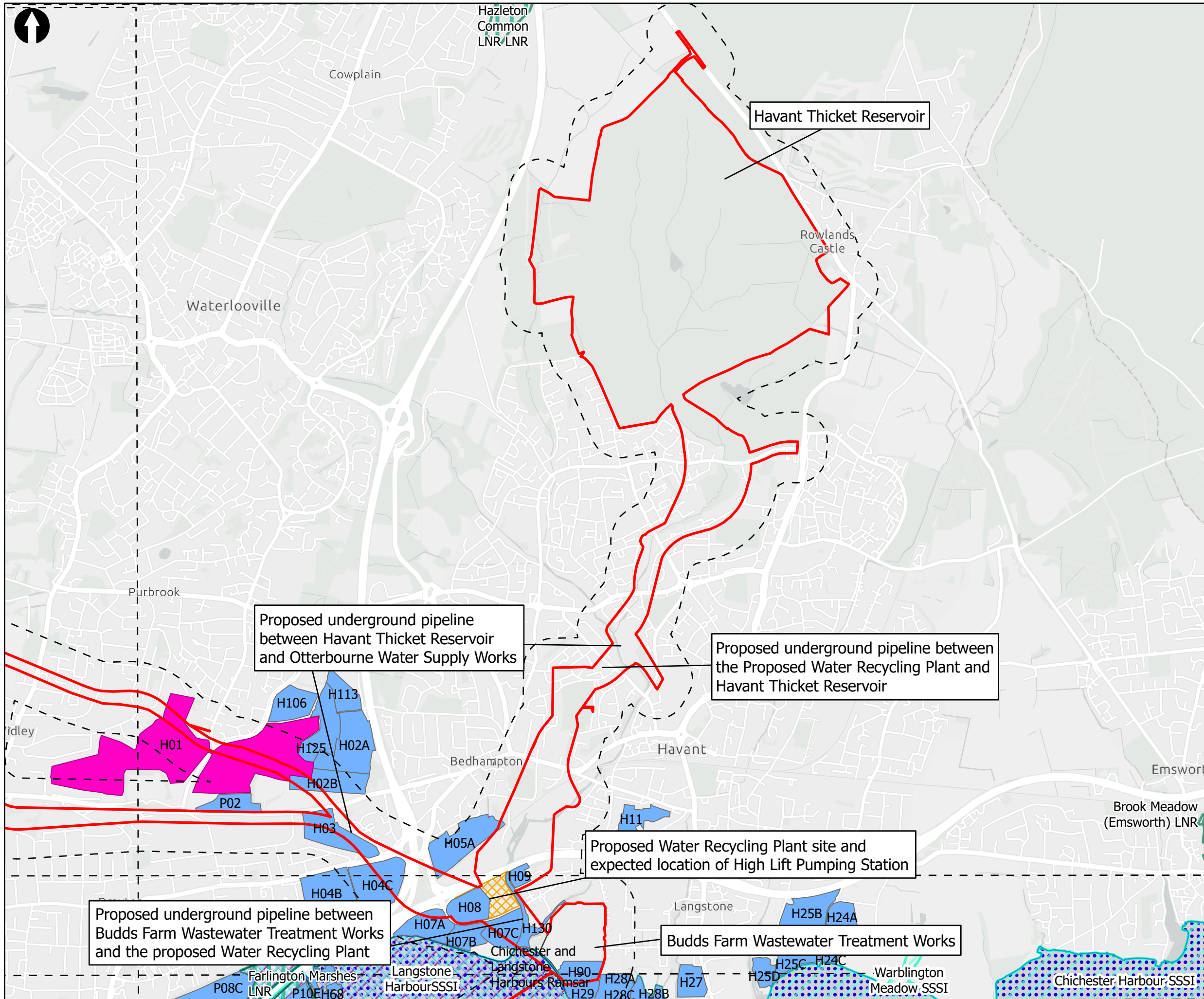


from  
**Southern  
Water** 

The Southern Water logo consists of the words 'Southern' and 'Water' stacked vertically in a dark blue, sans-serif font. To the right of the word 'Water' is a graphic element consisting of three stylized, wavy blue lines of varying lengths, representing water waves.

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EIA Scoping Report Volume 3 Part 2 of 5 – Figures 8.1 to 11.6



**Key to Symbols**

Scoping Area	Ramsar Sites
Water Recycling Plant and High Lift Pumping Station	Sites of Special Scientific Interest (SSSI)
200m Study Area	Special Protection Area (SPA)
Budds Farm Wastewater Treatment Works	Special Areas of Conservation (SAC)
<b>Statutory Designated Sites</b>	Brent Goose Sites (2002)
Local Nature Reserve (LNR)	Solent Waders and Brent Goose Strategy

**Notes**

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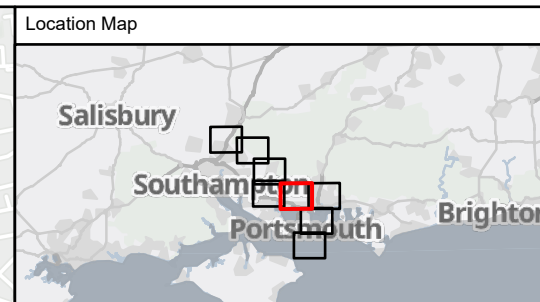
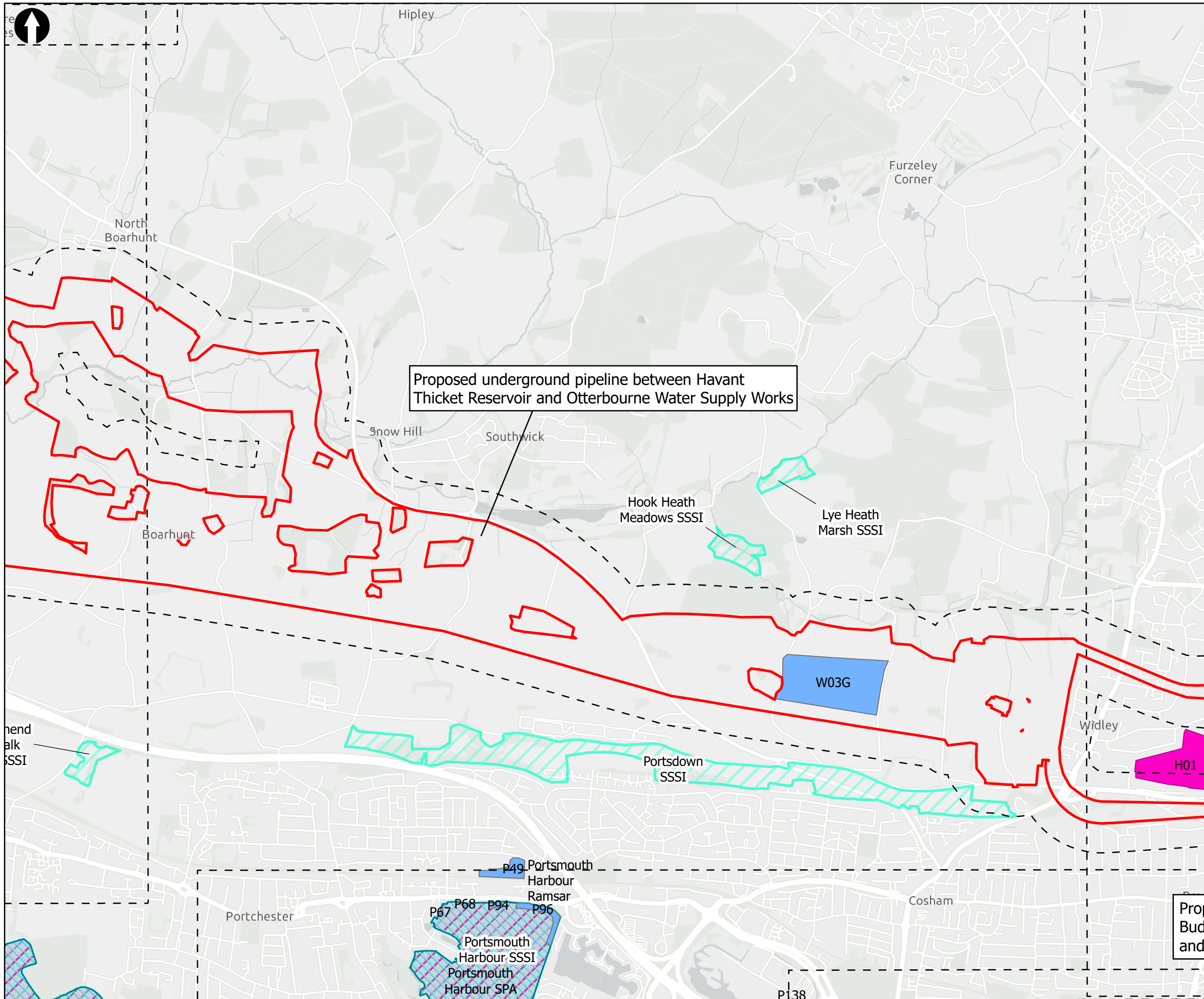
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**Key to Symbols**

Scoping Area	Special Areas of Conservation (SAC)
200m Study Area	Brent Goose Sites (2002)
Ramsar Sites	Solent Waders and Brent Goose Strategy
Sites of Special Scientific Interest (SSSI)	Special Protection Area (SPA)

**Notes**

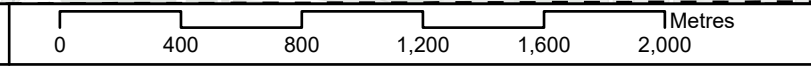
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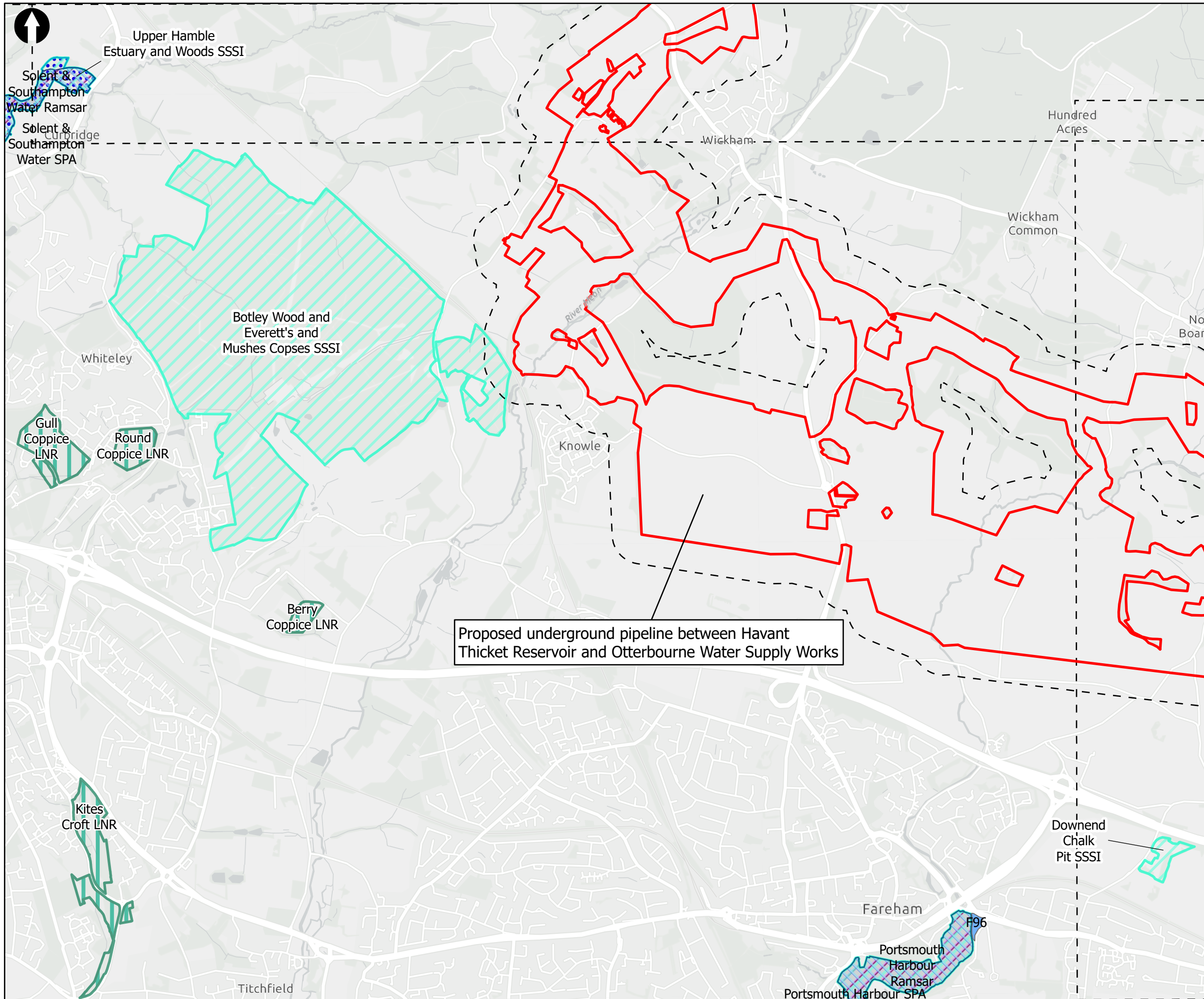
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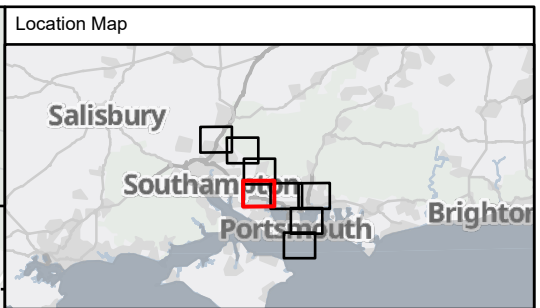
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



Key to Symbols

Scoping Area	Sites of Special Scientific Interest (SSSI)
200m Study Area	Special Protection Area (SPA)
Local Nature Reserve (LNR)	Special Areas of Conservation (SAC)
Ramsar Sites	Solent Waders and Brent Goose Strategy

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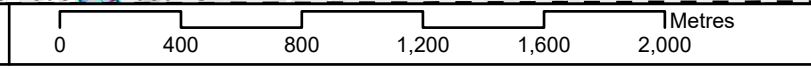
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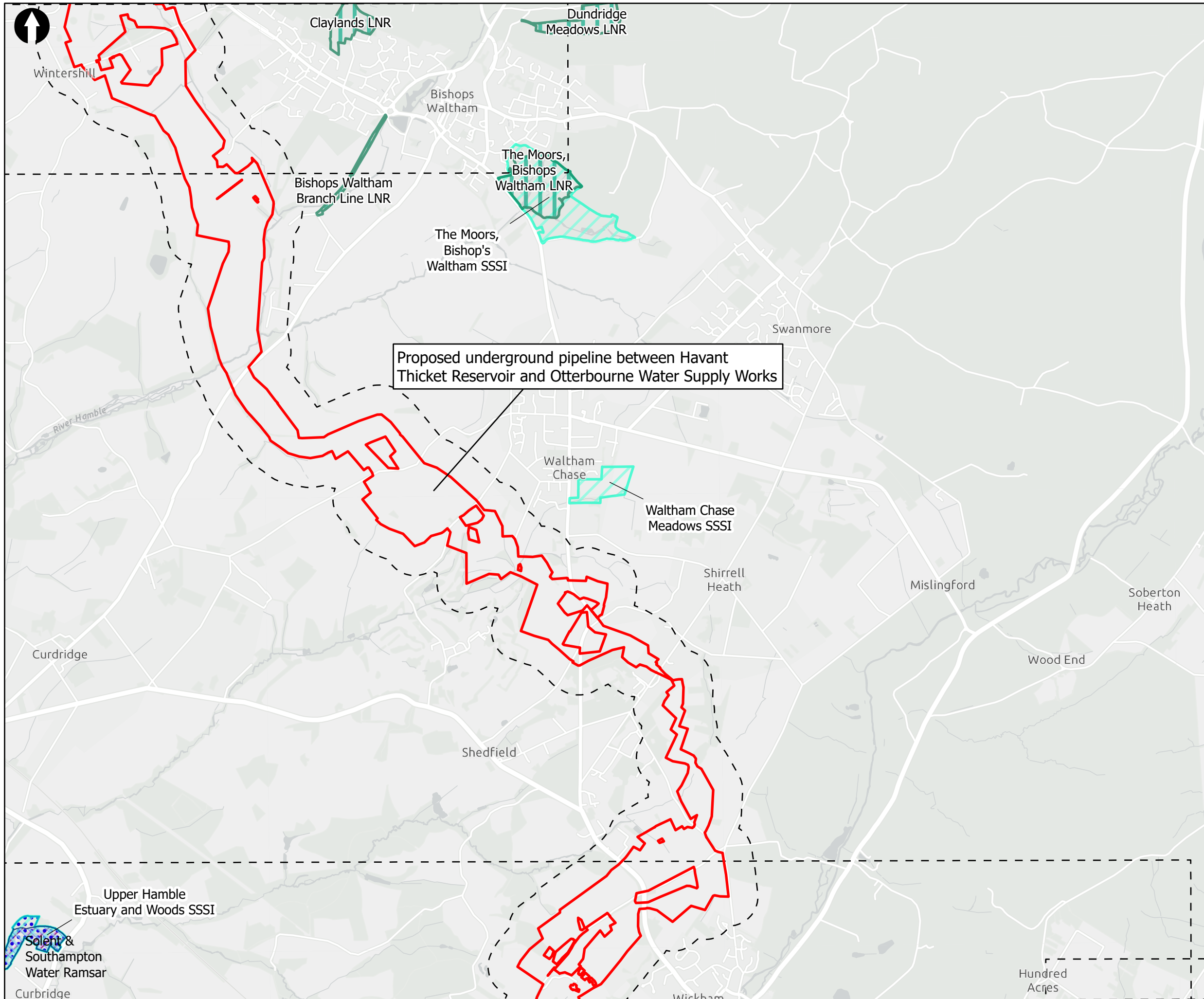
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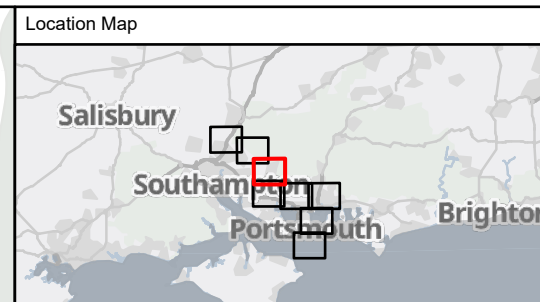
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works




**Key to Symbols**

Scoping Area	Ramsar Sites
200m Study Area	Sites of Special Scientific Interest (SSSI)
Statutory Designated Sites	Special Protection Area (SPA)
Local Nature Reserve (LNR)	Special Areas of Conservation (SAC)

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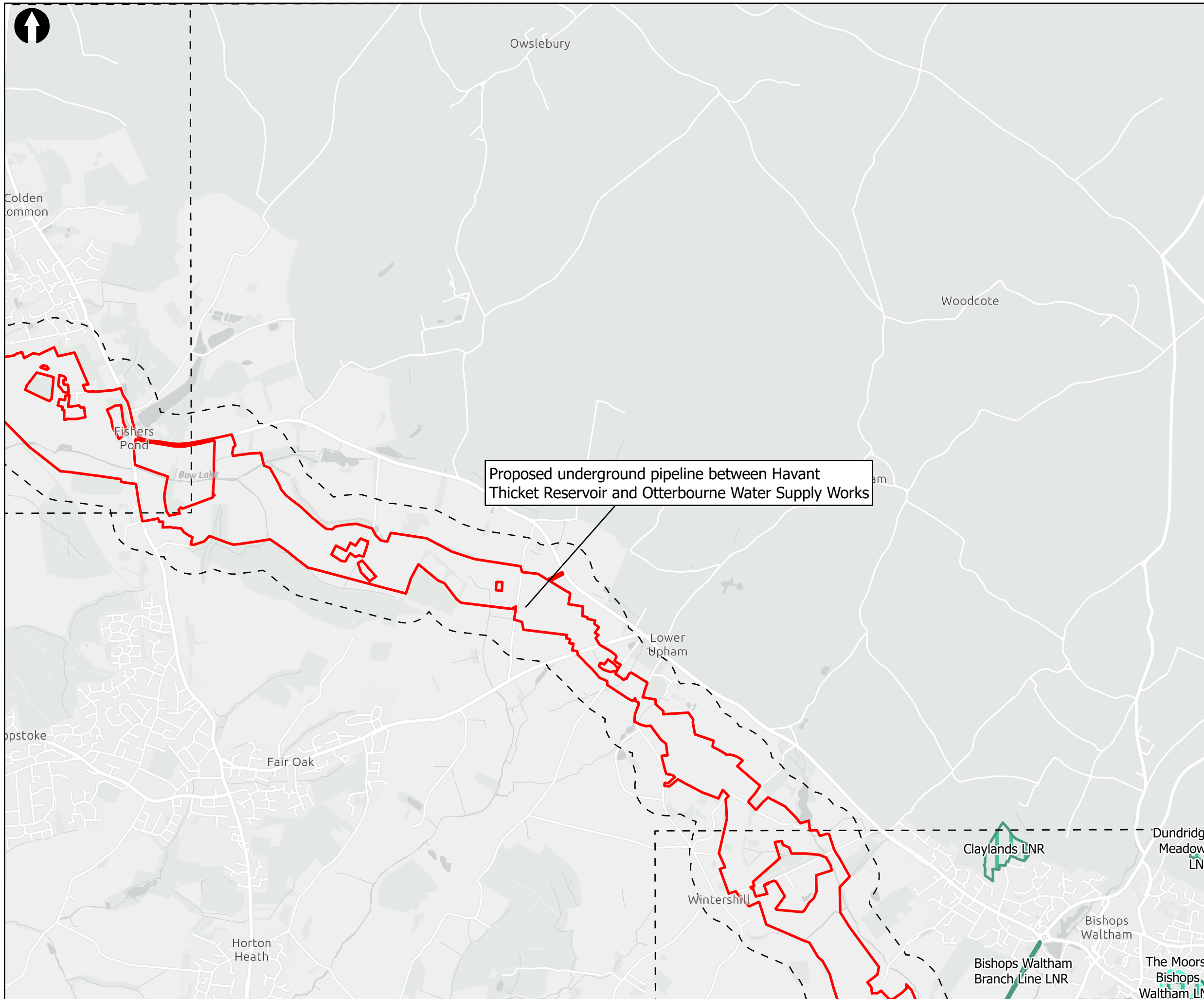


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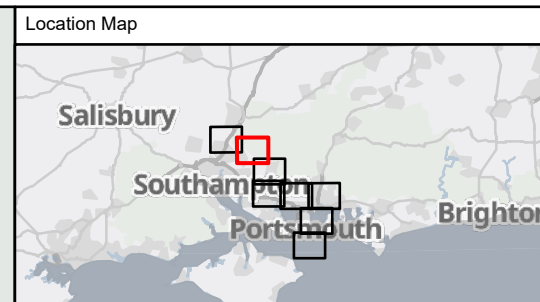
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Scoping Area	Sites of Special Scientific Interest (SSSI)
200m Study Area	Statutory Designated Sites
Local Nature Reserve (LNR)	Special Areas of Conservation (SAC)

**Notes**

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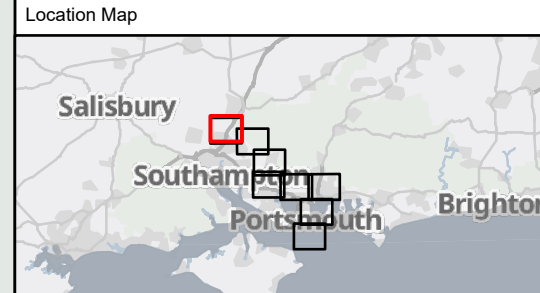
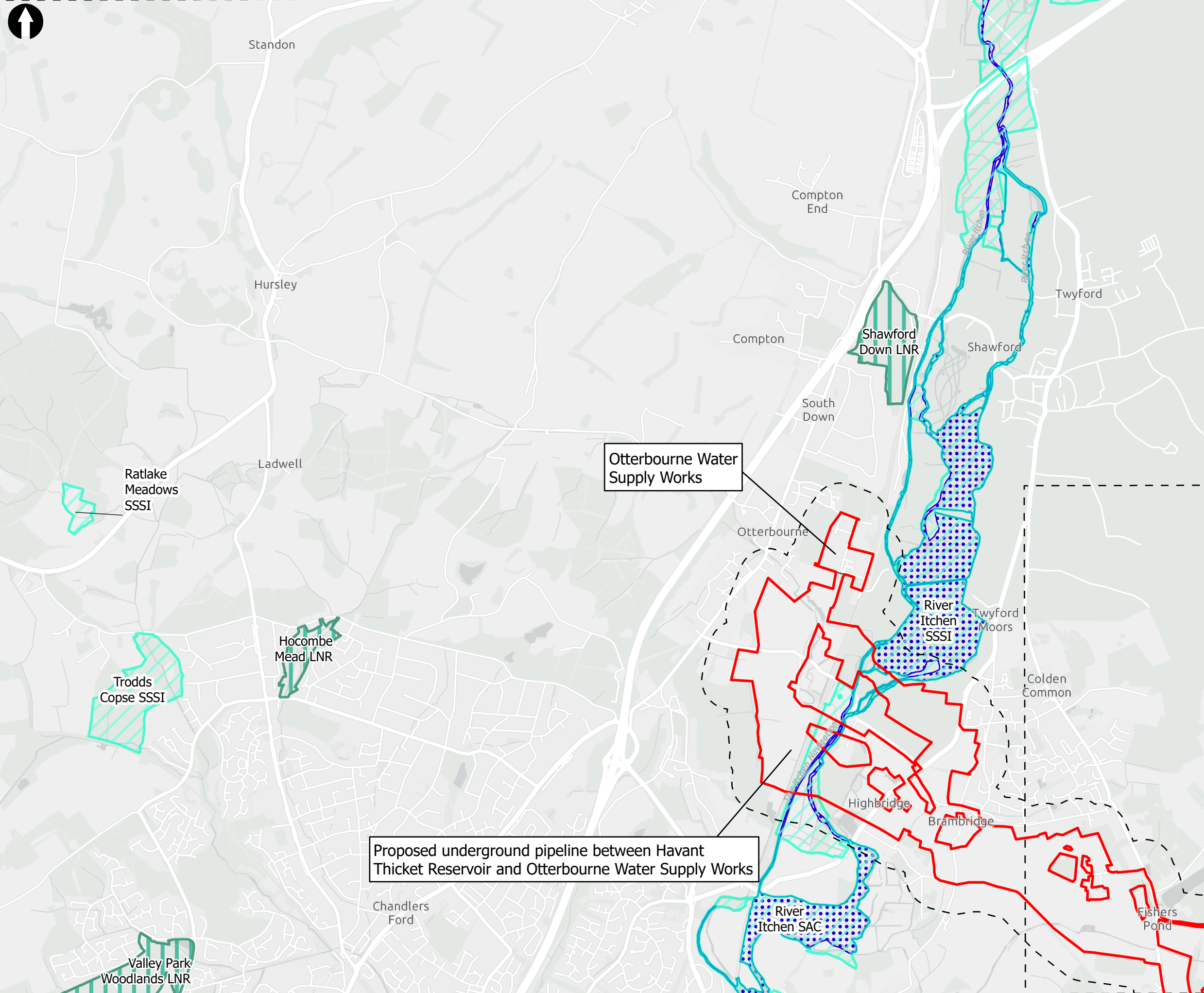
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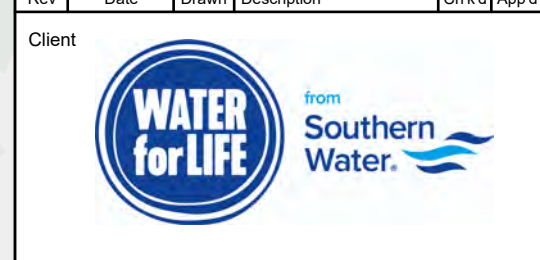
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Scoping Area	<b>Statutory Designated Sites</b>
Otterbourne Water Supply Works	Local Nature Reserve (LNR)
200m Study Area	Sites of Special Scientific Interest (SSSI)
Otterbourne Water Supply Works	Special Areas of Conservation (SAC)

**Notes**

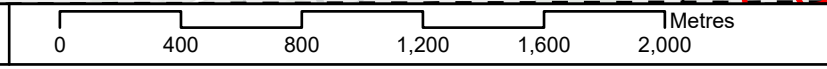
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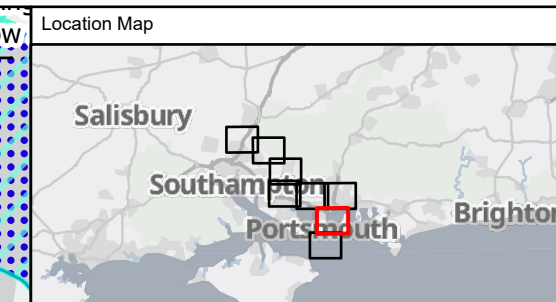
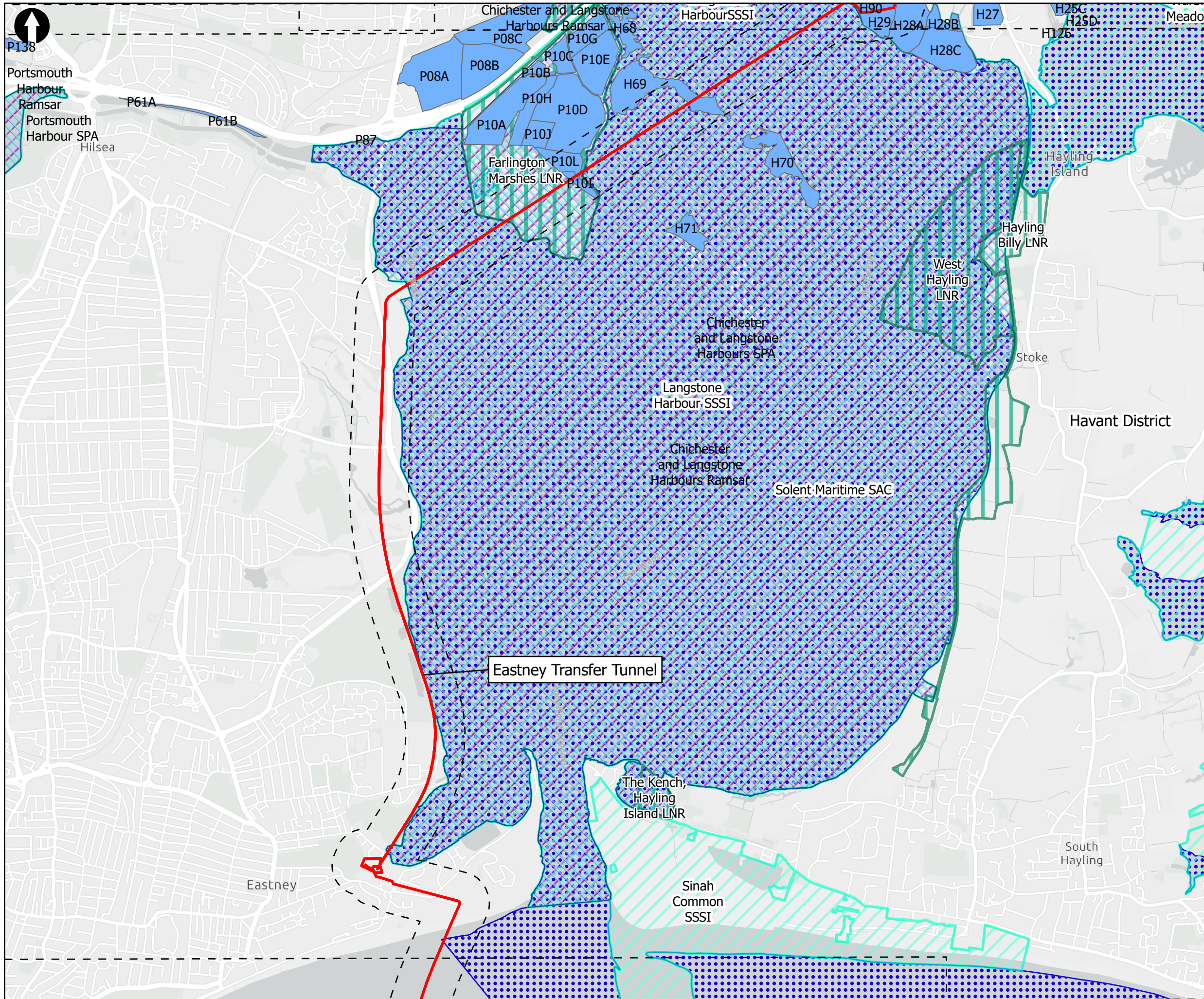


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**Key to Symbols**

Scoping Area	Ramsar Sites
200m Study Area	Sites of Special Scientific Interest (SSSI)
Budds Farm Wastewater Treatment Works	Special Protection Area (SPA)
<b>Statutory Designated Sites</b>	Special Areas of Conservation (SAC)
Local Nature Reserve (LNR)	Solent Waders and Brent Goose Strategy

**Notes**

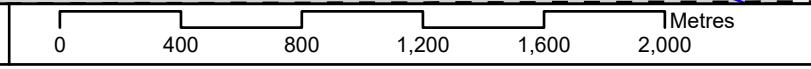
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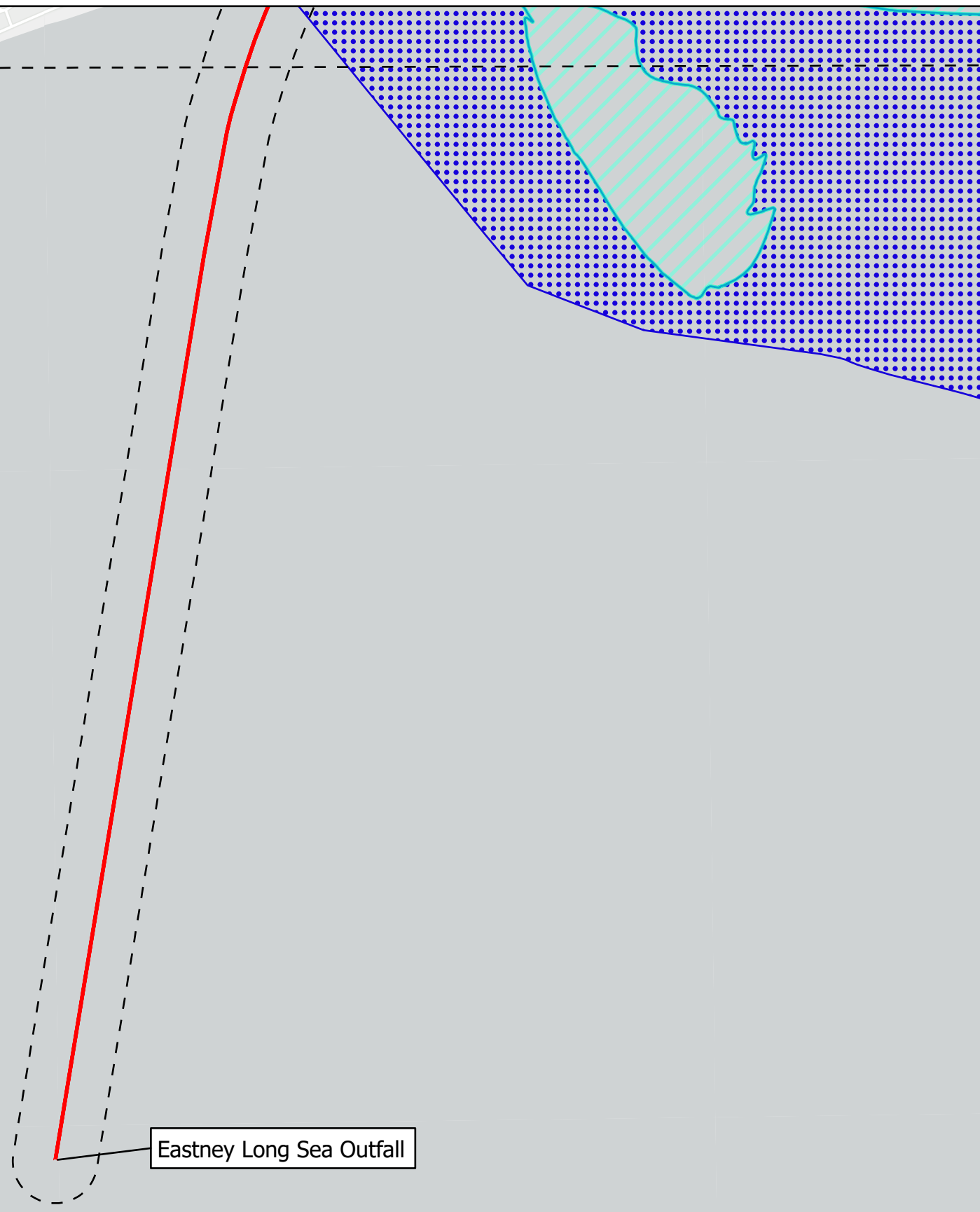
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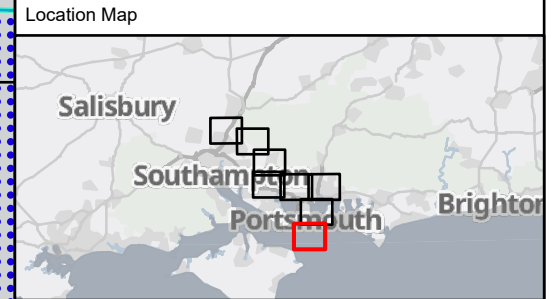




City of Portsmouth



Eastney Long Sea Outfall



Key to Symbols

	Scoping Area		Special Areas of Conservation (SAC)
	200m Study Area		Sites of Special Scientific Interest (SSSI)

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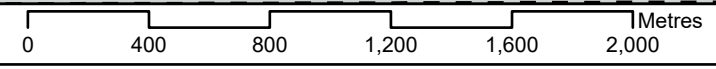
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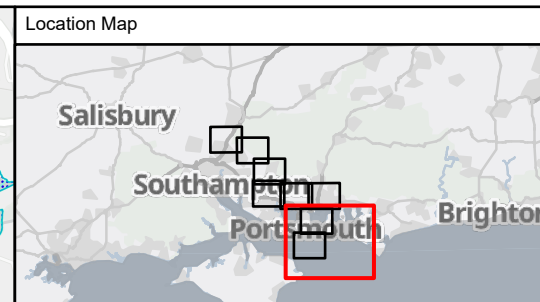
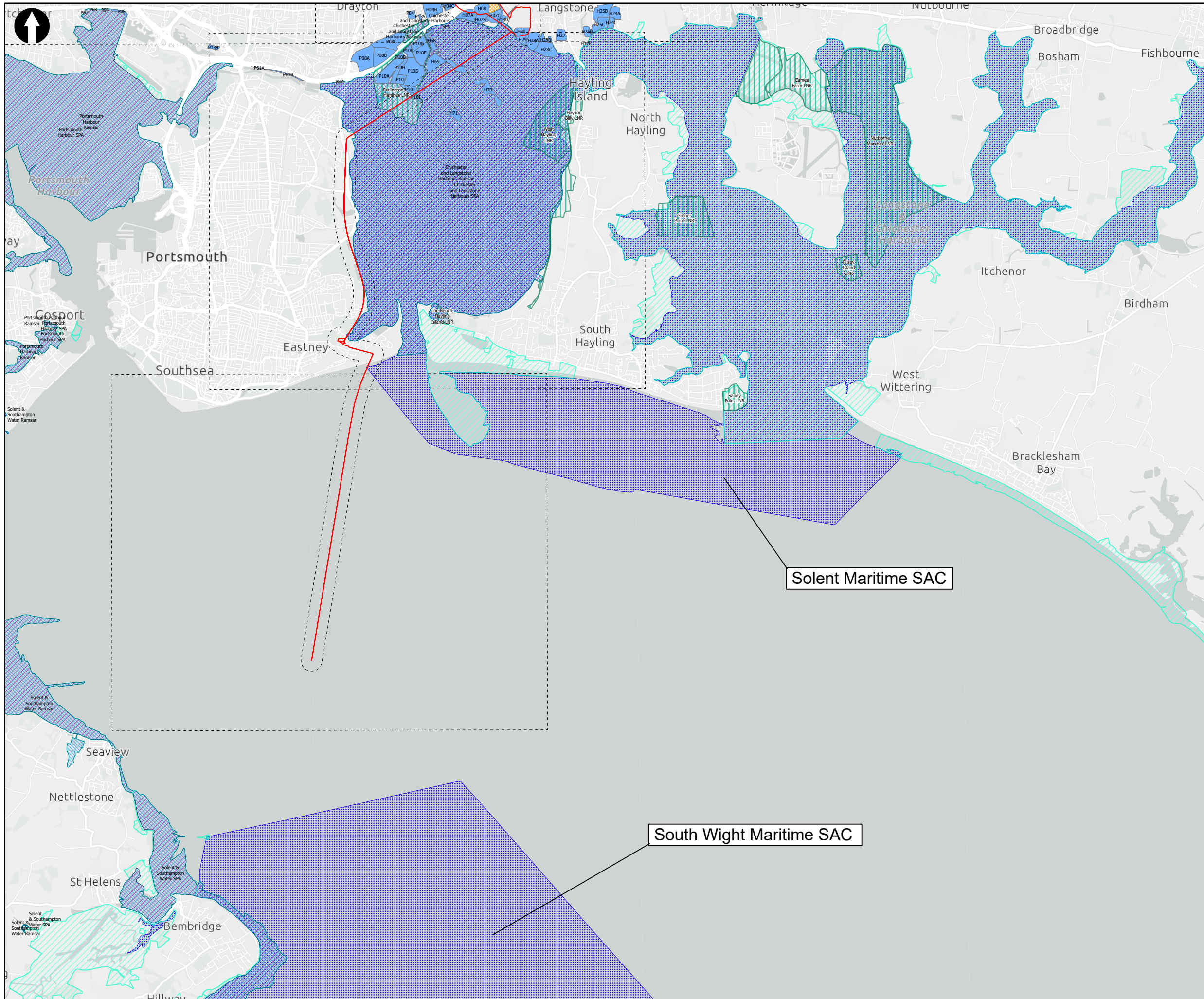


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- Key to Symbols**
- Scoping Area
  - Water Recycling Plant and High Lift Pumping Station
  - 200m Study Area
  - Budds Farm Wastewater Treatment Works
  - Local Nature Reserve (LNR)
  - Ramsar Sites
  - Sites of Special Scientific Interest (SSSI)
  - Special Protection Area (SPA)
  - Special Areas of Conservation (SAC)
  - Solent Waders and Brent Goose Strategy

**Statutory Designated Sites**

- Local Nature Reserve (LNR)

**Notes**

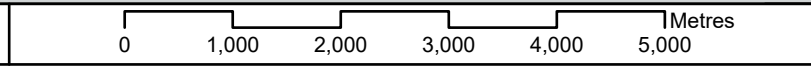
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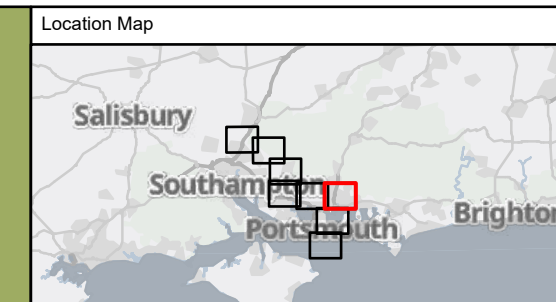
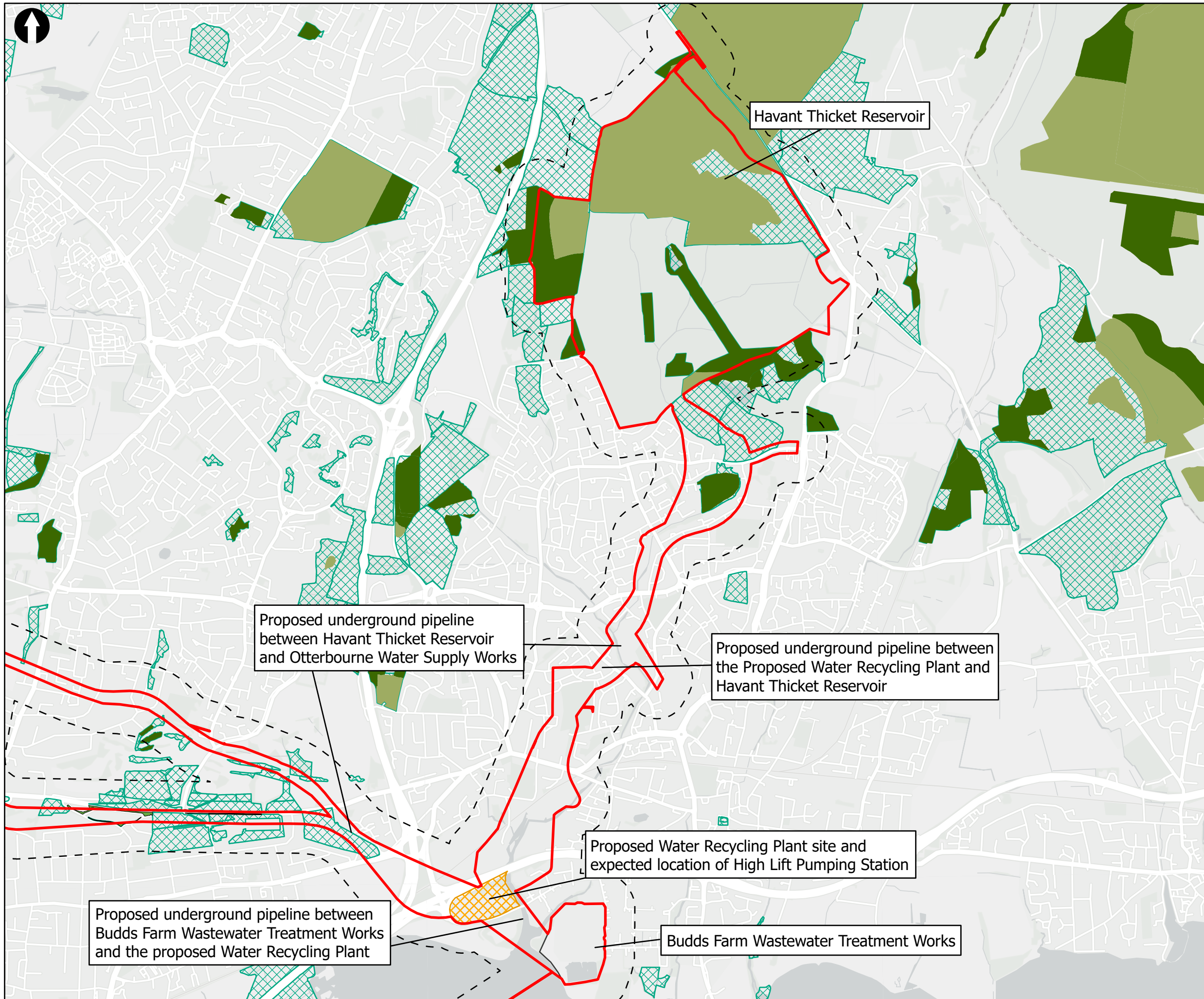
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**Key to Symbols**

- Scoping Area
- 200m Study Area
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works

**Layer**

- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- Sites of Importance for Nature Conservation (SINCs)
- Road Verges of Ecological Importance (RVEI)

**Notes**

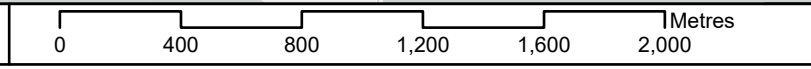
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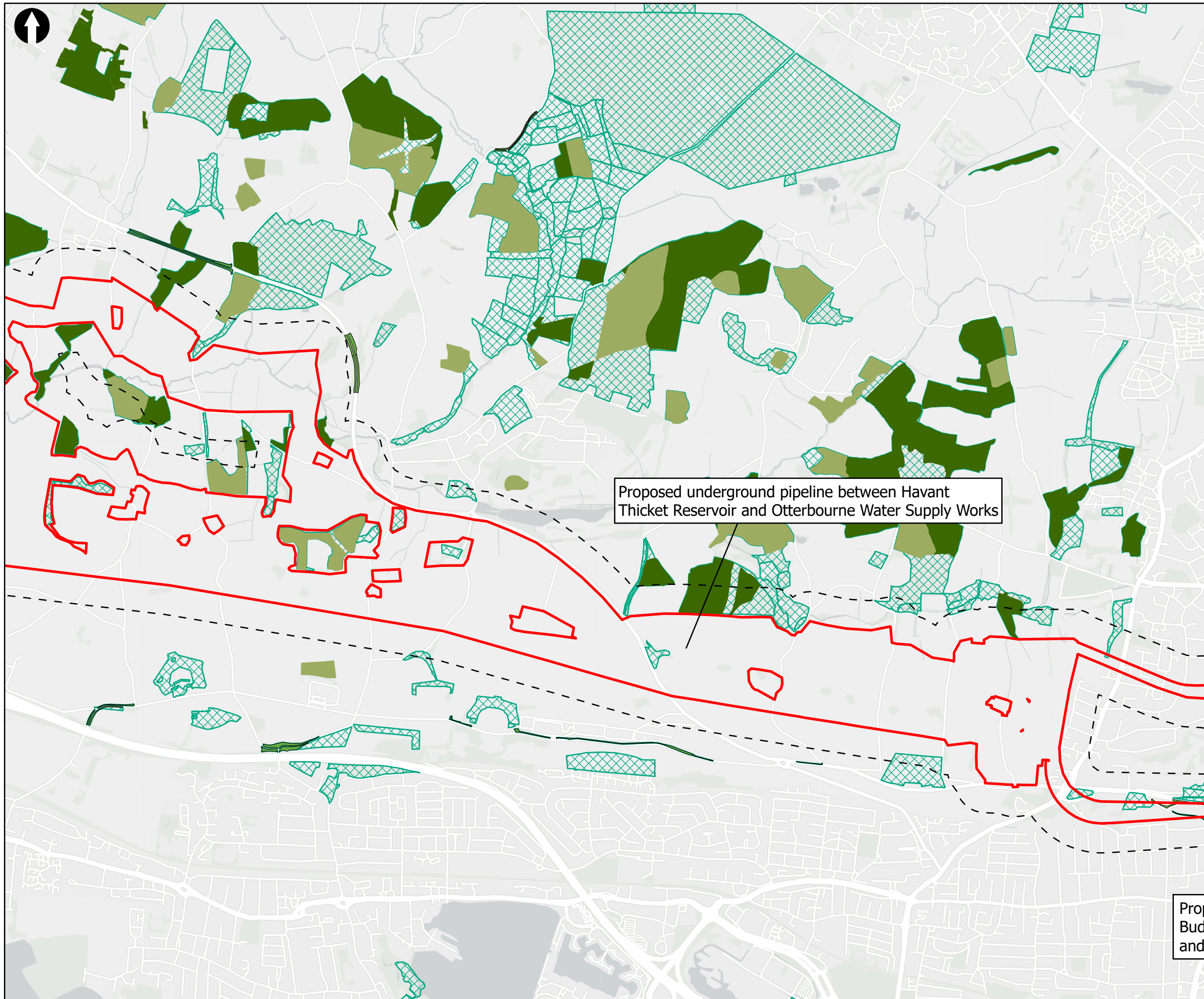
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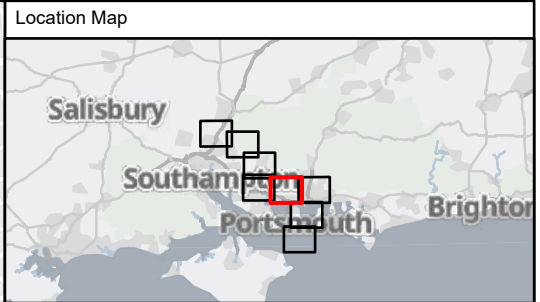
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 200m Study Area

**Layer**

- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- Sites of Importance for Nature Conservation (SINCs)
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**Notes**

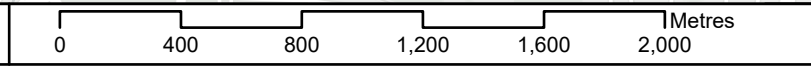
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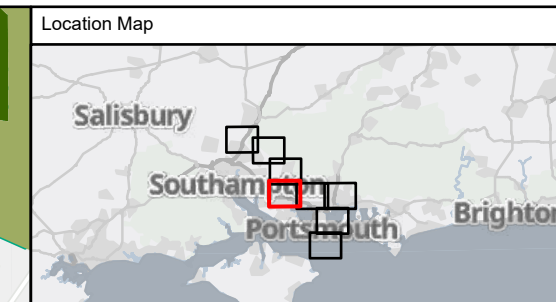
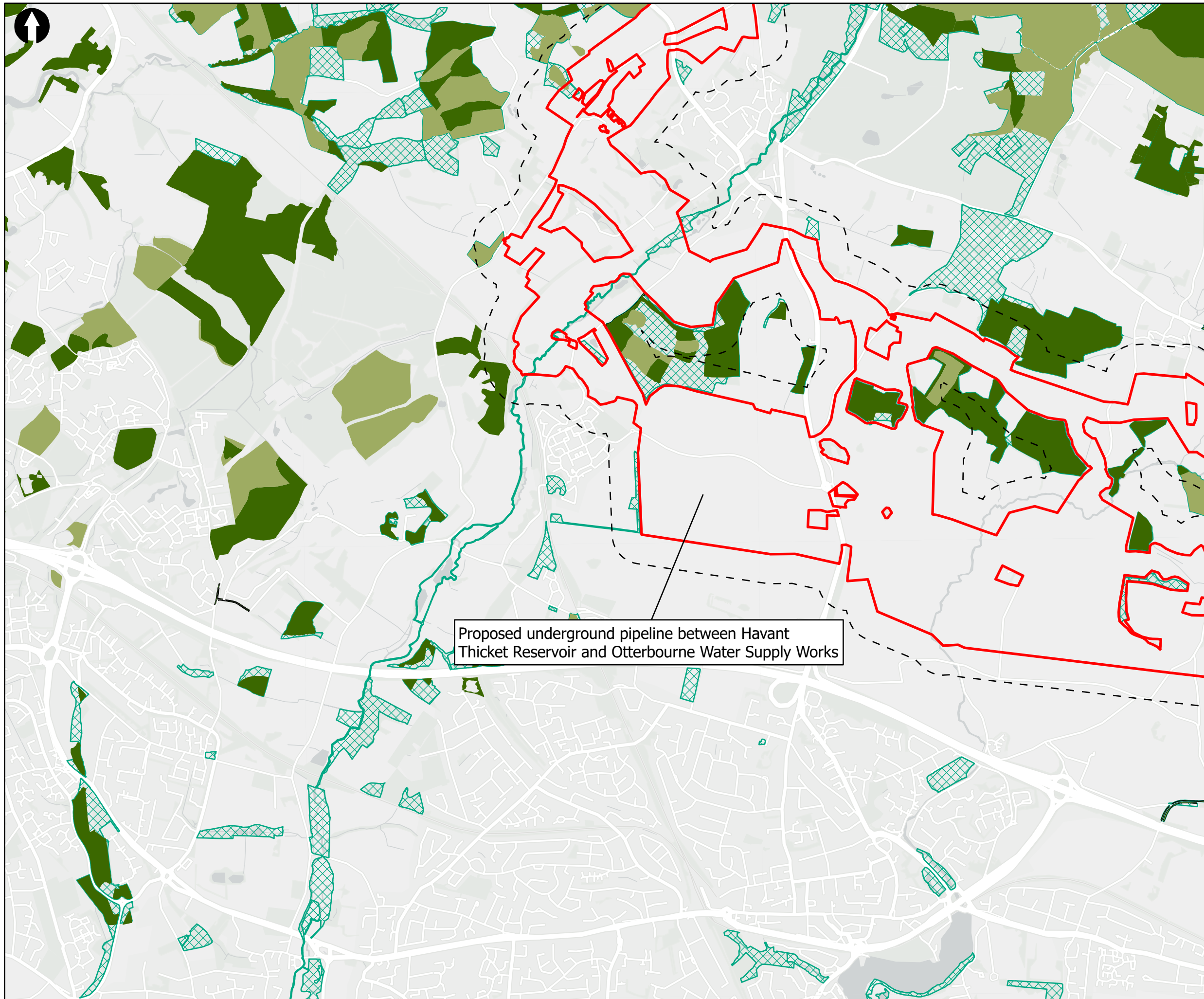
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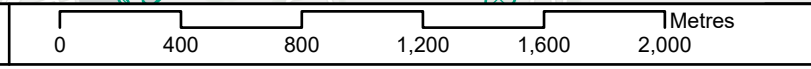
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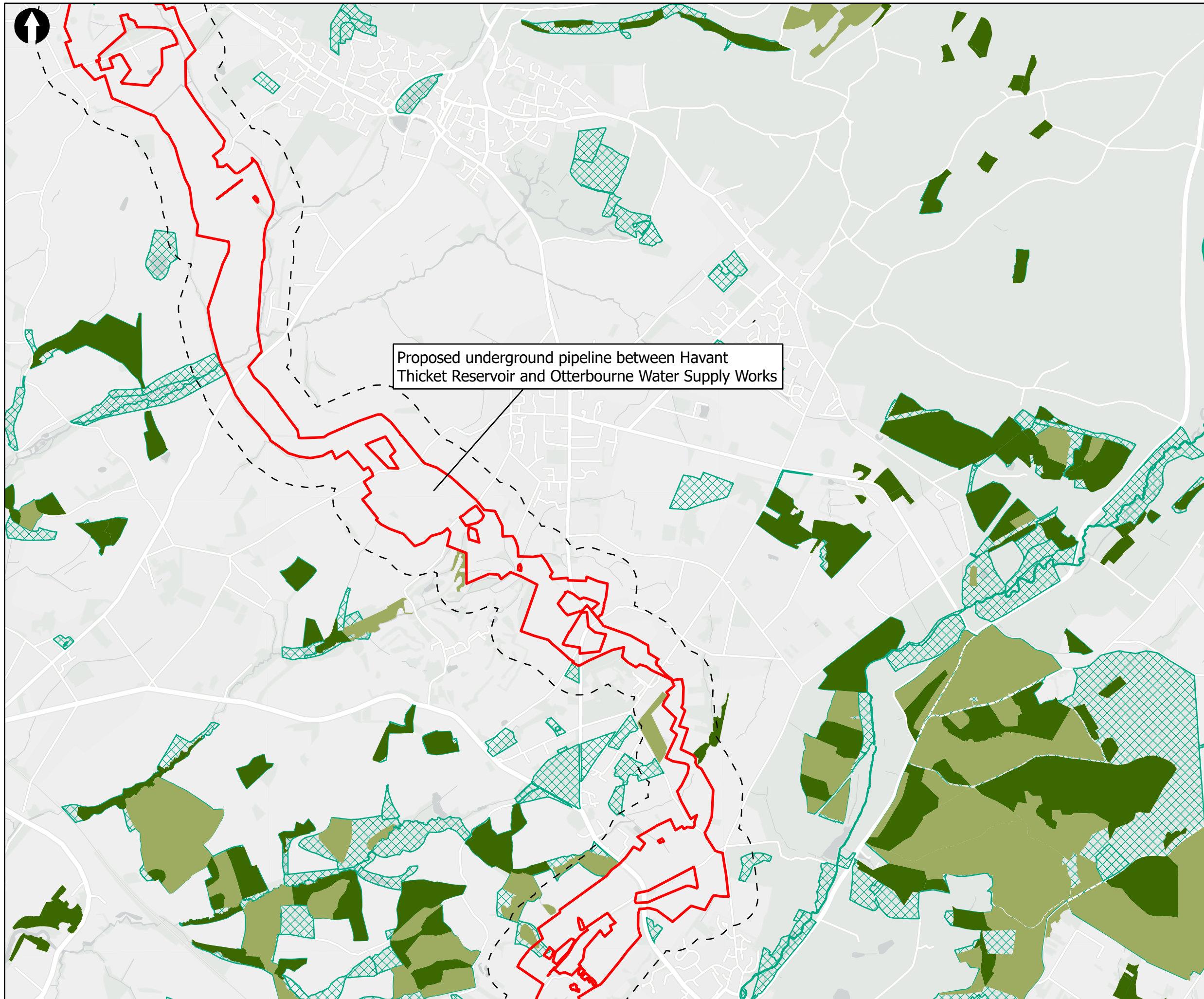
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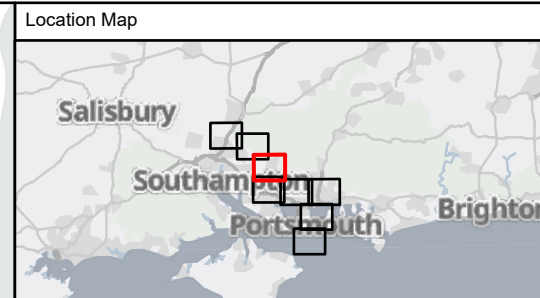
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

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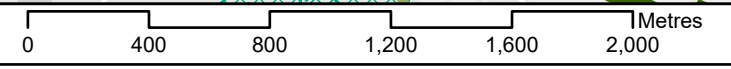
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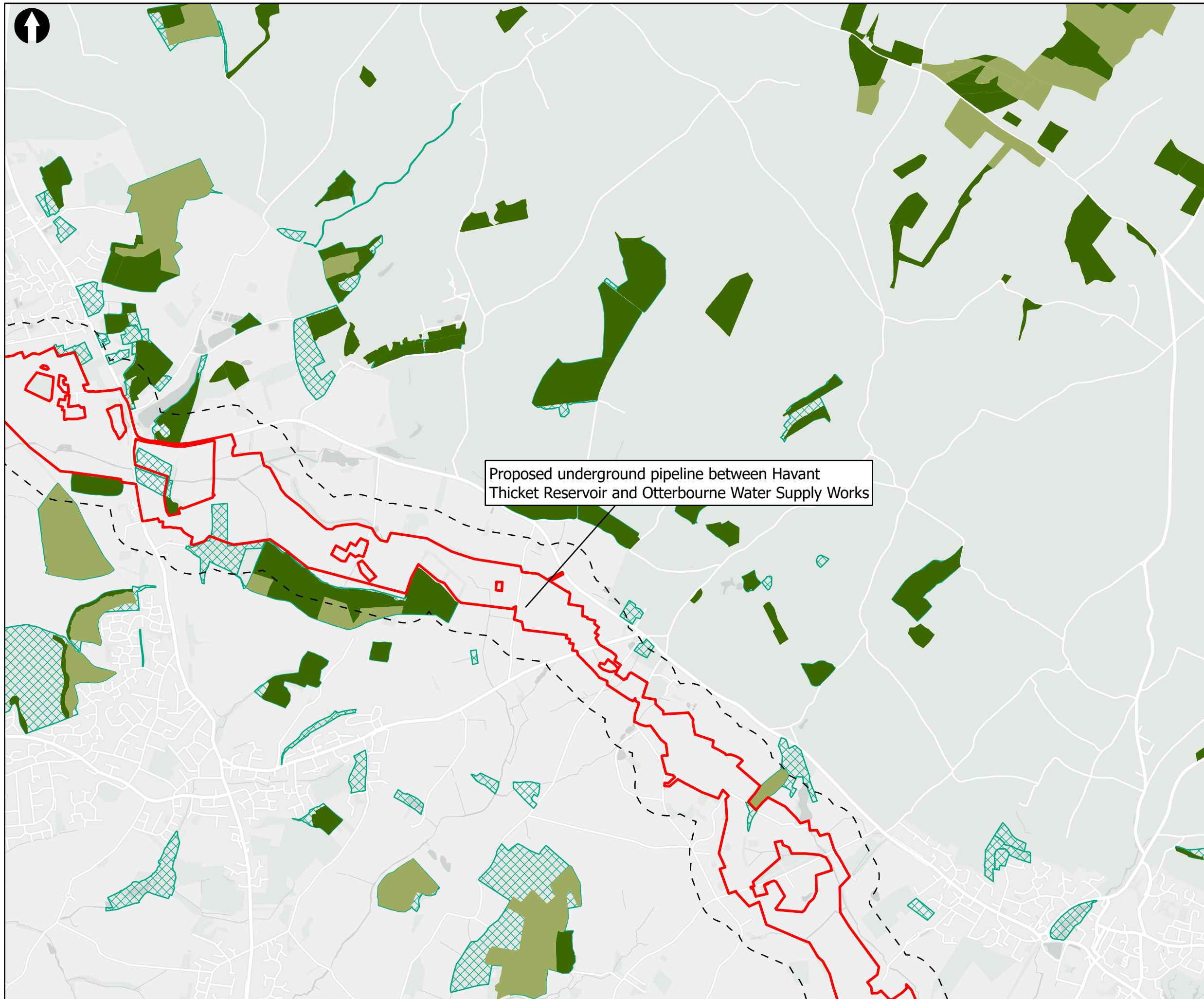
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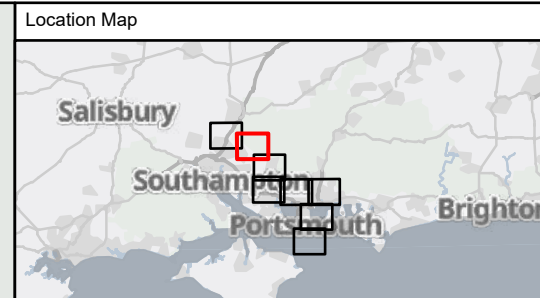
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- 200m Study Area

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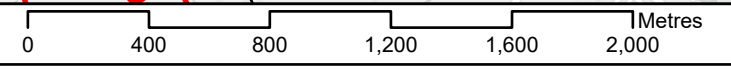
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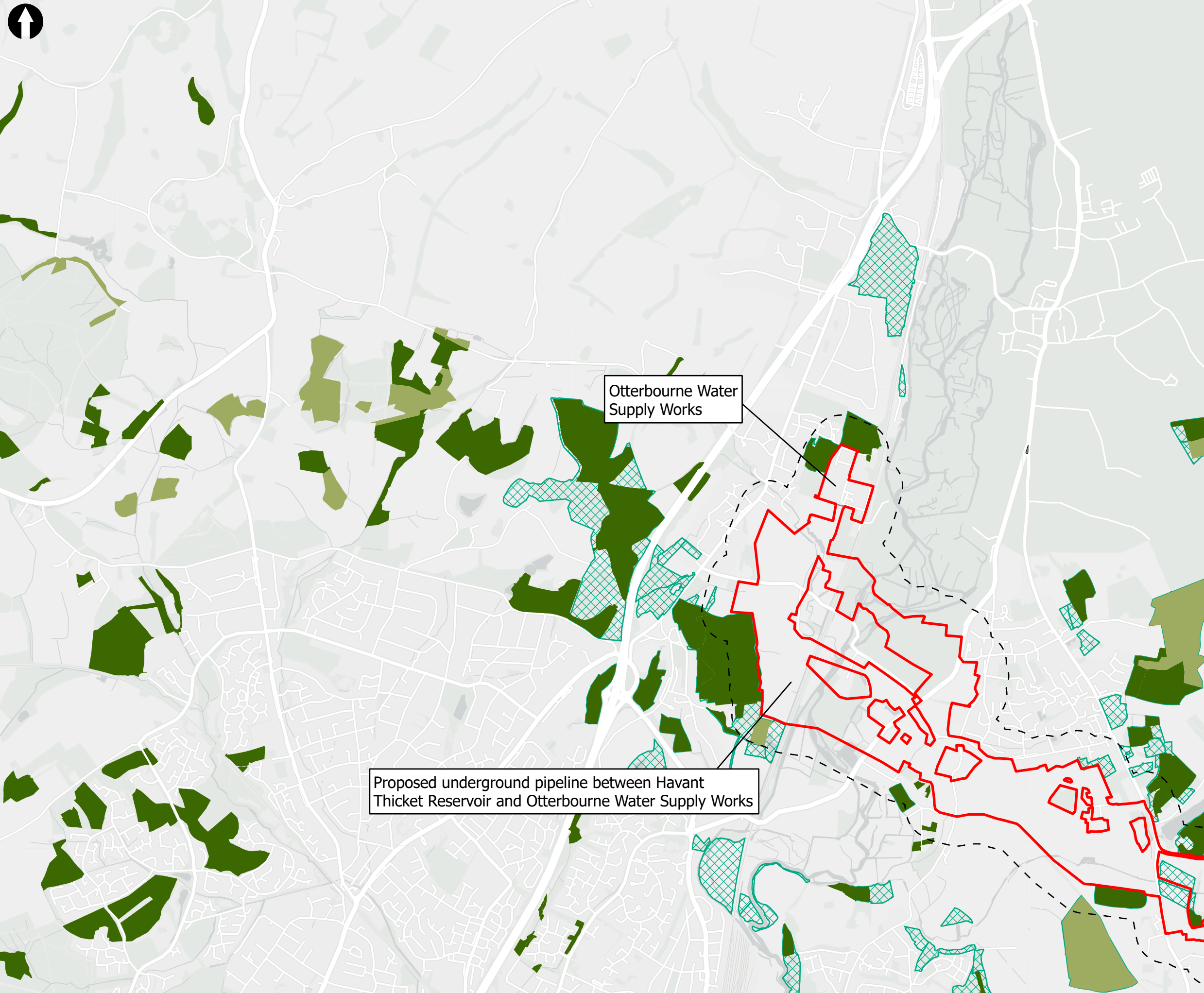
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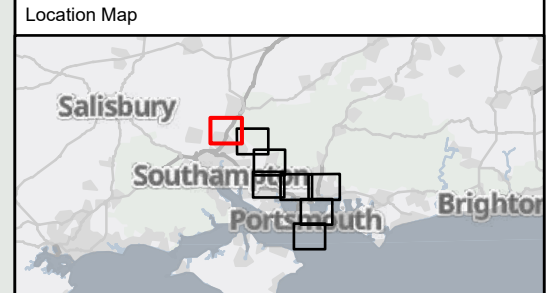






Otterbourne Water Supply Works

Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 200m Study Area
- Otterbourne Water Supply Works

**Layer**

- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- Sites of Importance for Nature Conservation (SINCs)
- Road Verges of Ecological Importance (RVEI)

**Notes**

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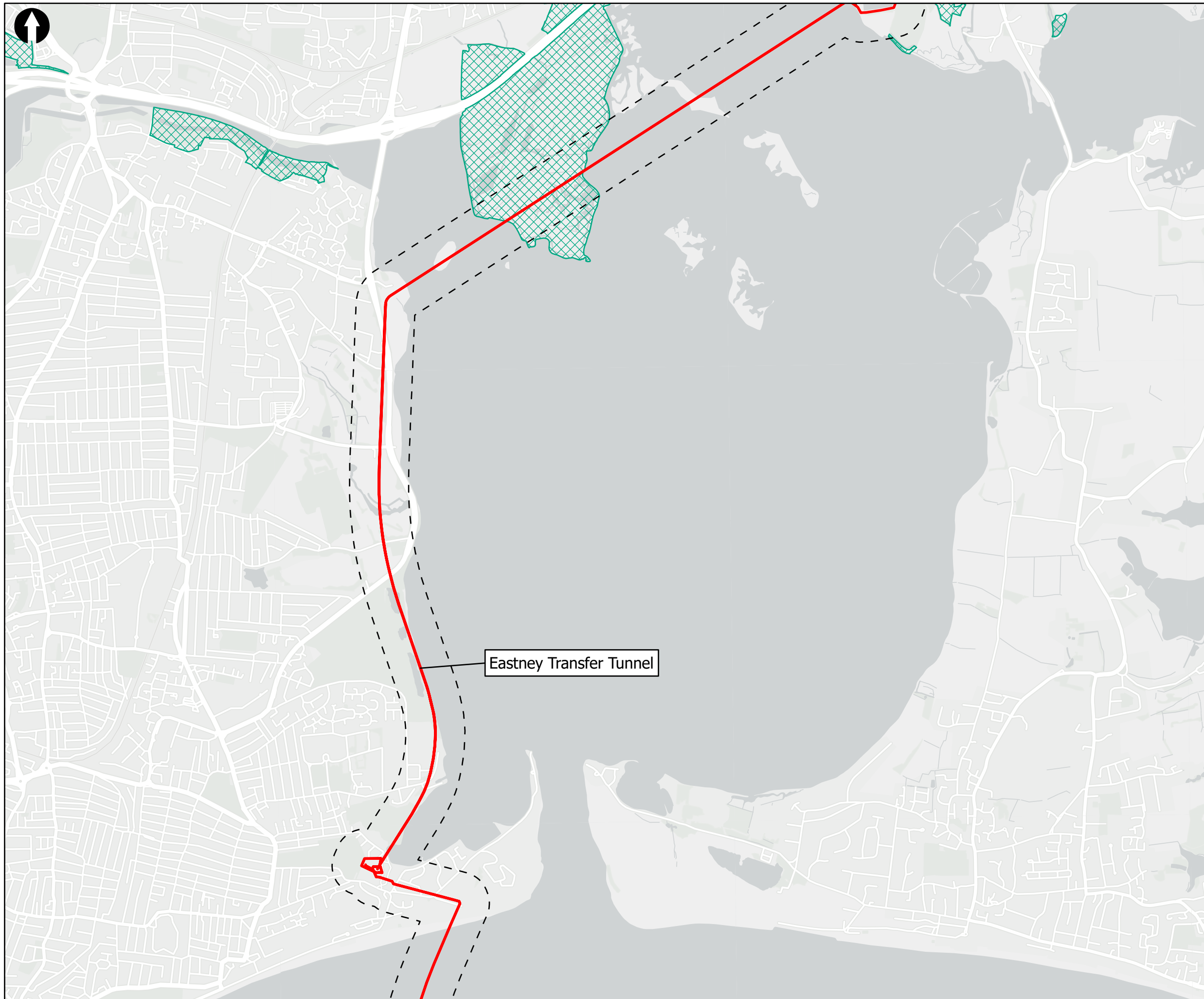
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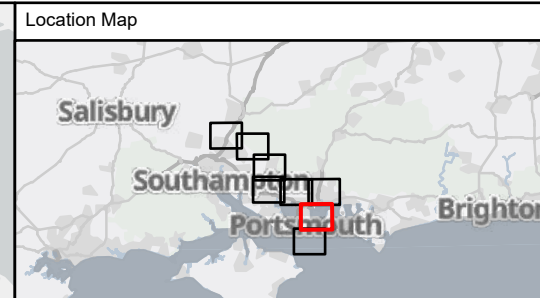

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 Non-statutory Designated Sites  
 Sheet 6 of 8

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Eastney Transfer Tunnel



Key to Symbols

- Scoping Area
- 200m Study Area
- Budds Farm Wastewater Treatment Works
- Sites of Importance for Nature Conservation (SINCs)

Notes

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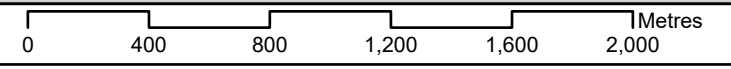
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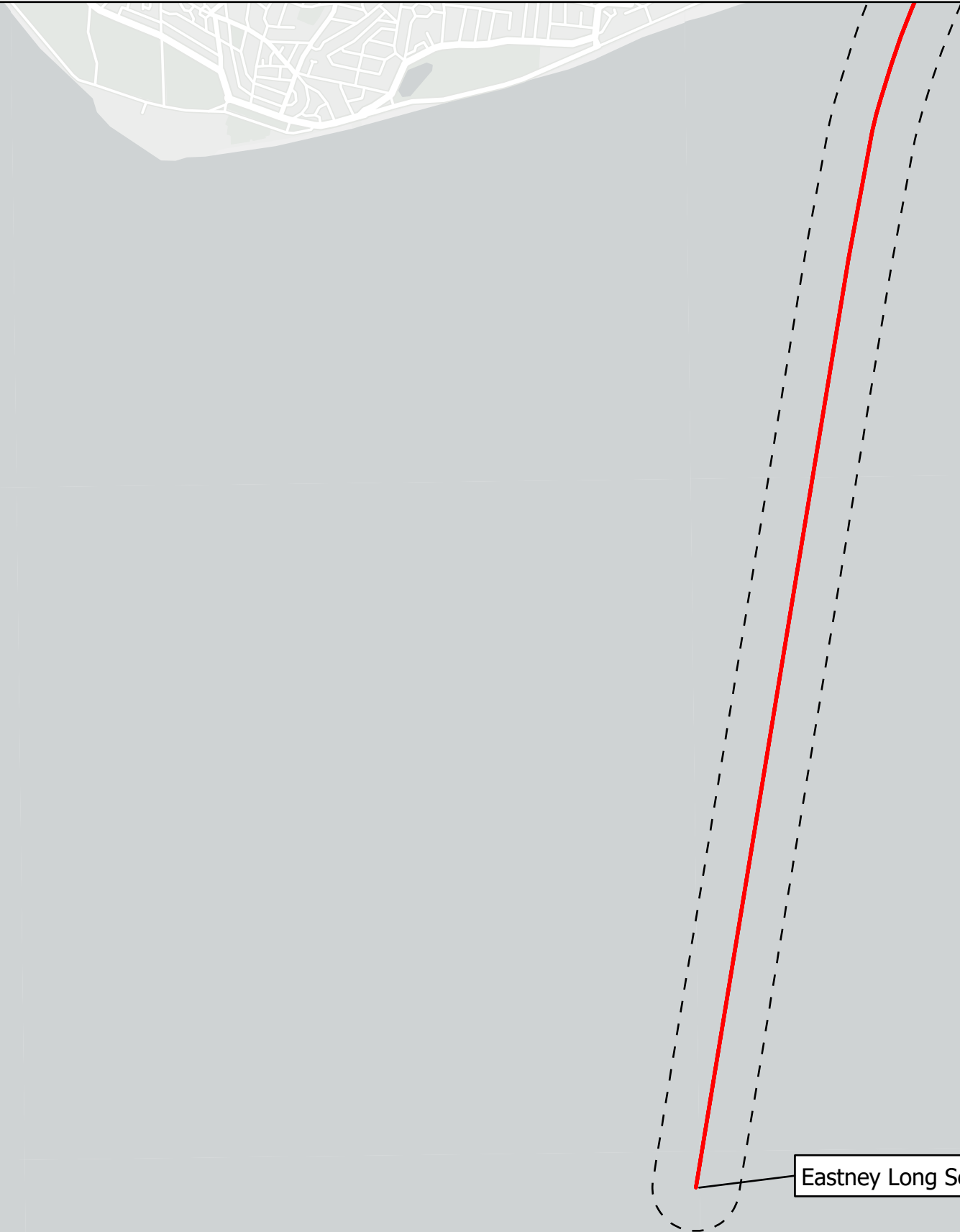


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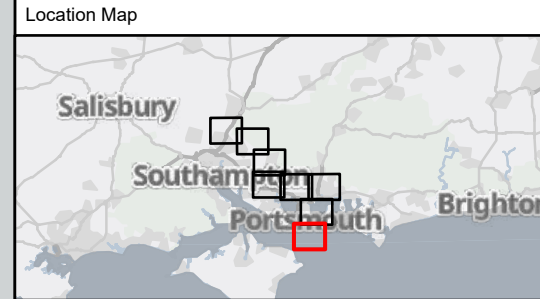
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Non-statutory Designated Sites  
Sheet 7 of 8

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Eastney Long Sea Outfall



Key to Symbols

- Scoping Area
- 200m Study Area

Notes

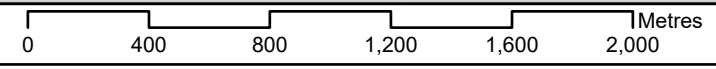
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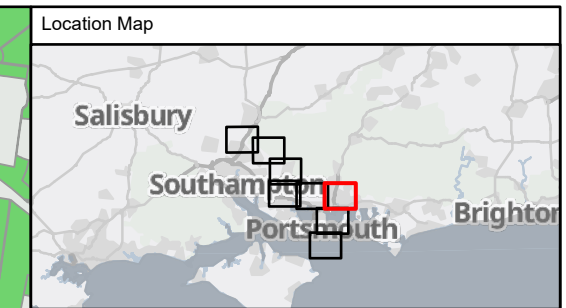
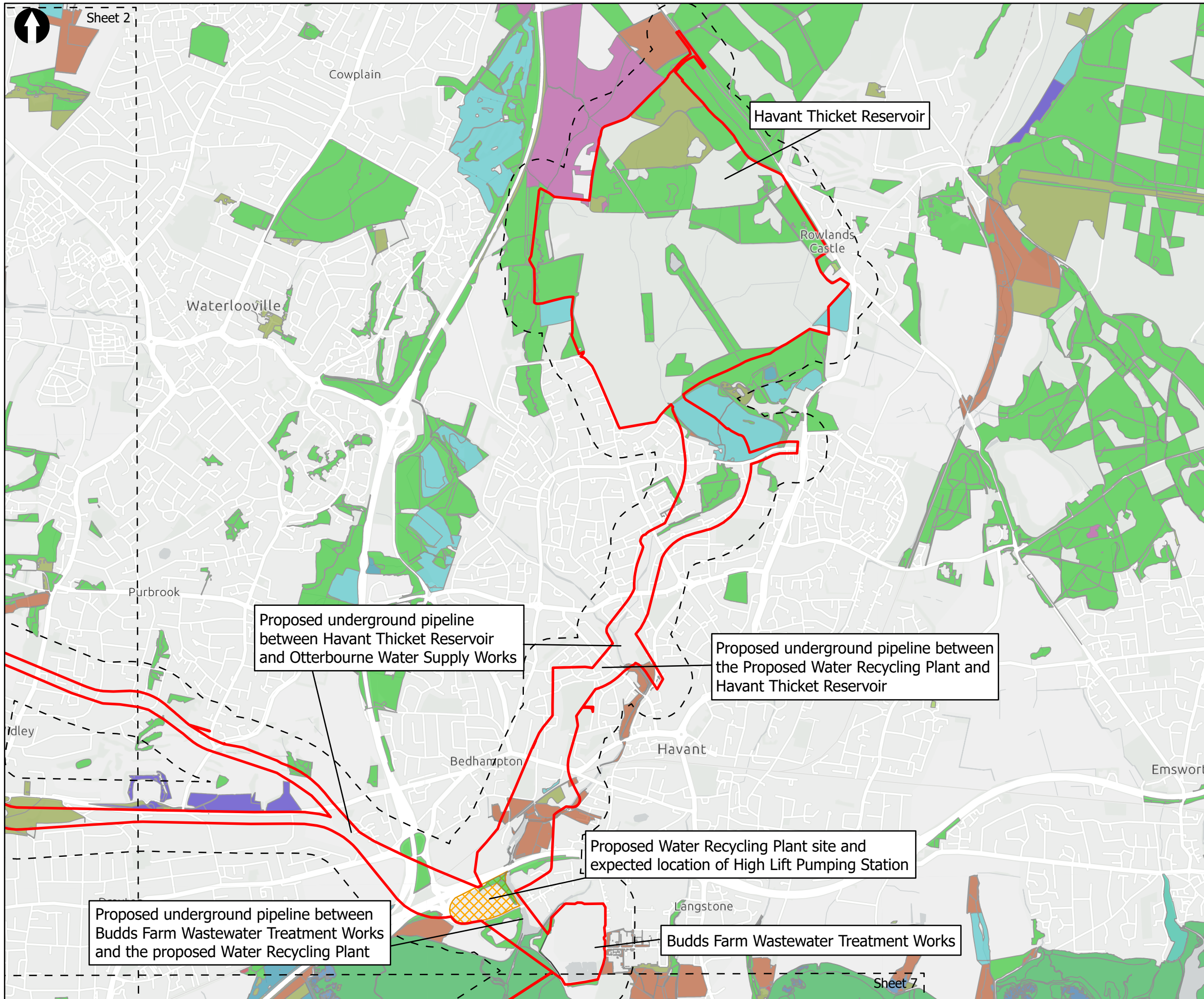
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 Non-statutory Designated Sites  
 Sheet 8 of 8

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**Key to Symbols**

- Scoping Area
- 200m Study Area
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works

**Priority Habitat Inventory**

- Coastal and floodplain grazing marsh
- Coastal saltmarsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland calcareous grassland
- Lowland dry acid grassland
- Lowland meadows
- Mudflats
- No main habitat but additional habitats present
- Reedbeds
- Saline lagoons
- Traditional orchard

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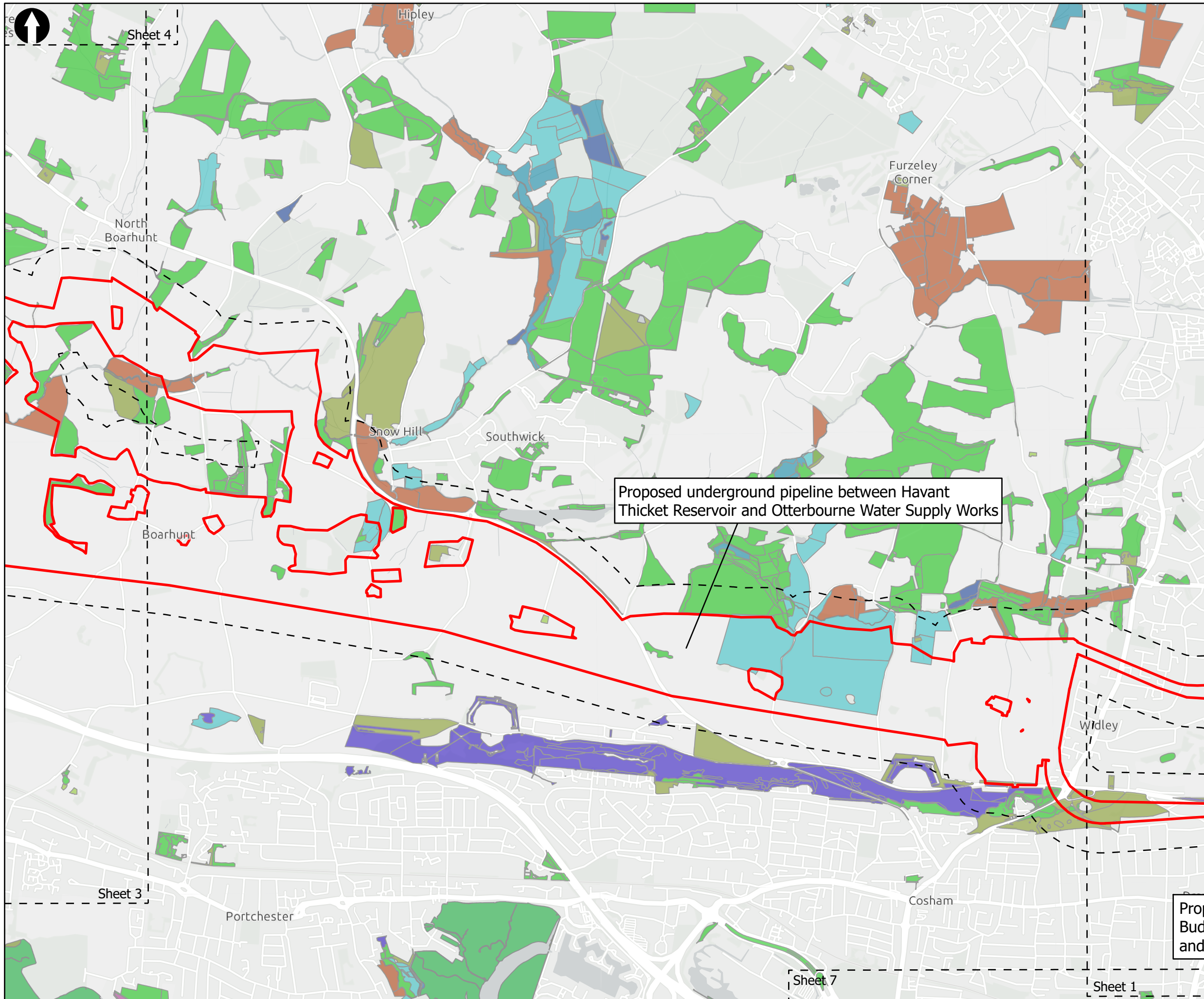
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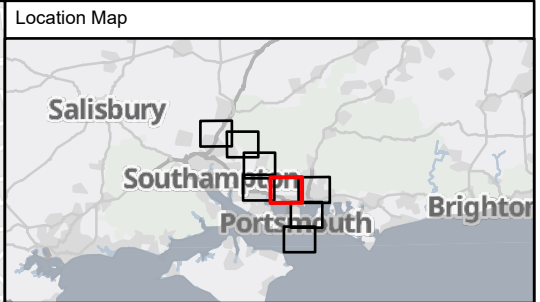
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 Priority Habitats  
 Sheet 1 of 8

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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 200m Study Area

**Priority Habitat Inventory**

- Coastal and floodplain grazing marsh
- Coastal saltmarsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland calcareous grassland
- Lowland dry acid grassland
- Lowland fens
- Lowland meadows
- Mudflats
- No main habitat but additional habitats present
- Purple moor grass and rush pastures
- Traditional orchard

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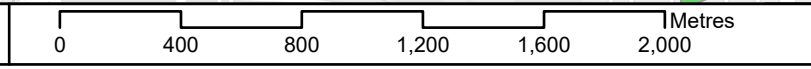
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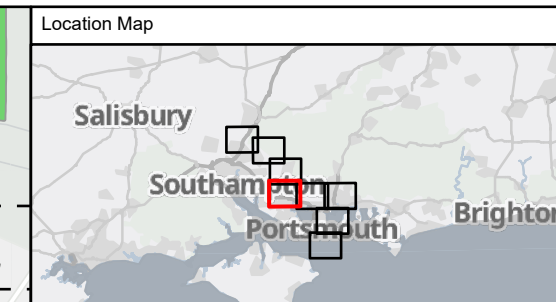
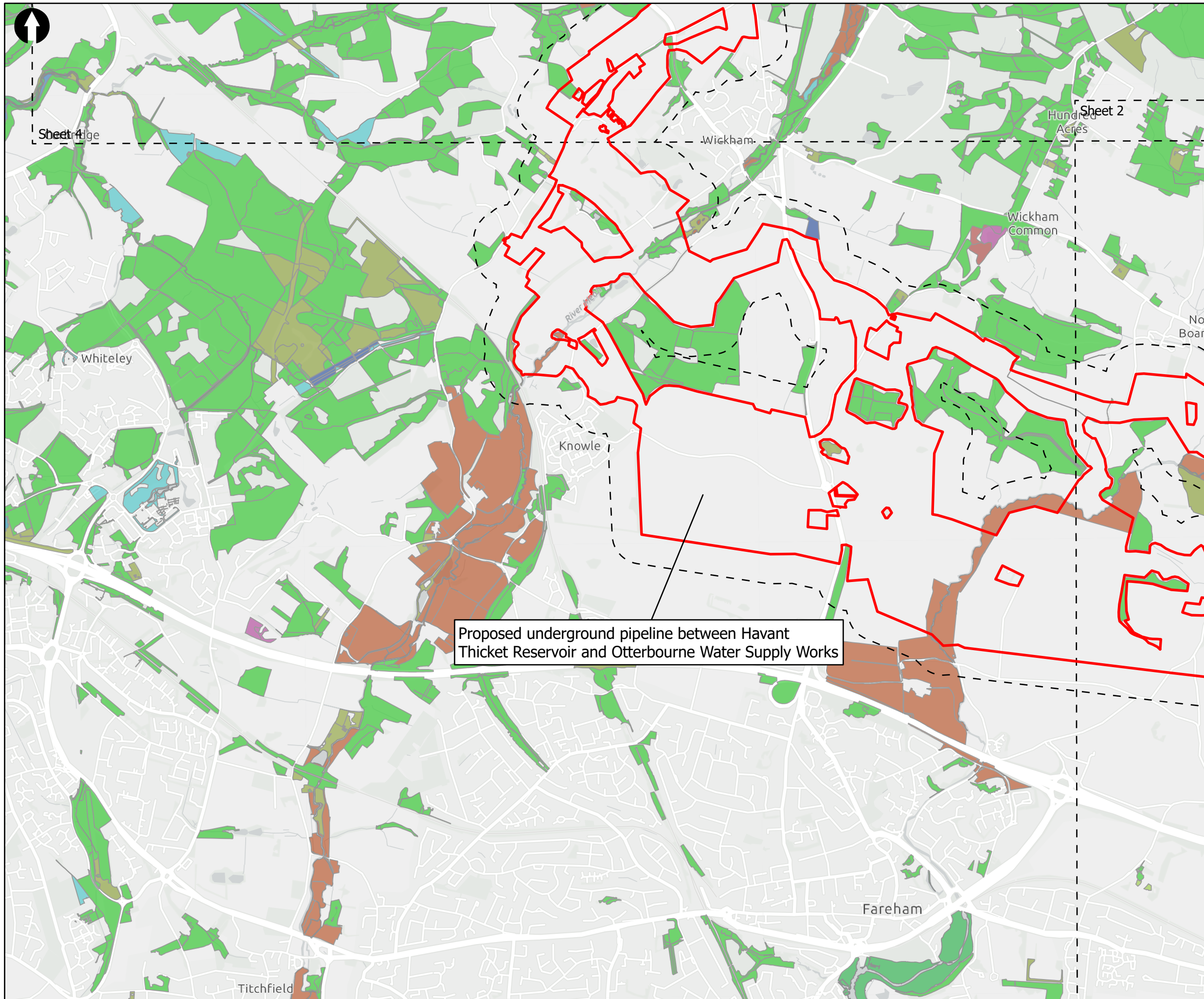
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 Sheet 2 of 8

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**Key to Symbols**

- Scoping Area
- 200m Study Area

**Priority Habitat Inventory**

- Coastal and floodplain grazing marsh
- Coastal saltmarsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland dry acid grassland
- Lowland heathland
- Lowland meadows
- Mudflats
- No main habitat but additional habitats present
- Purple moor grass and rush pastures
- Traditional orchard

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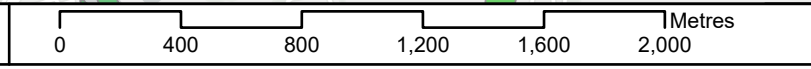
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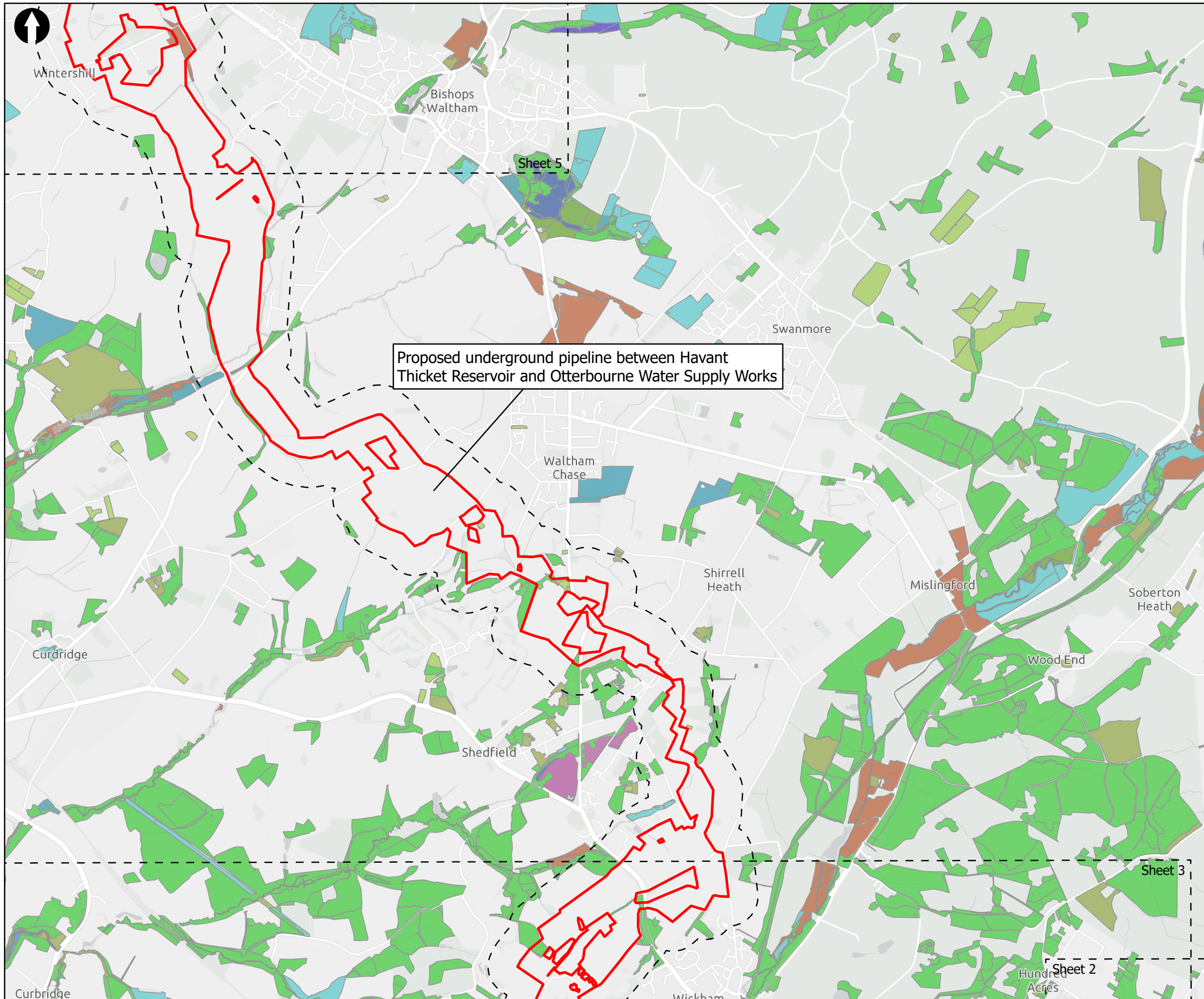
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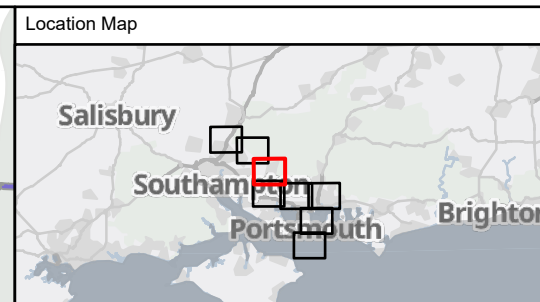
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 Priority Habitats  
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 200m Study Area

**Priority Habitat Inventory**

- Coastal and floodplain grazing marsh
- Coastal saltmarsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland calcareous grassland
- Lowland dry acid grassland
- Lowland fens
- Lowland meadows
- Mudflats
- No main habitat but additional habitats present
- Purple moor grass and rush pastures
- Traditional orchard

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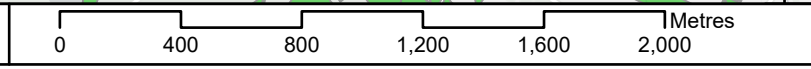
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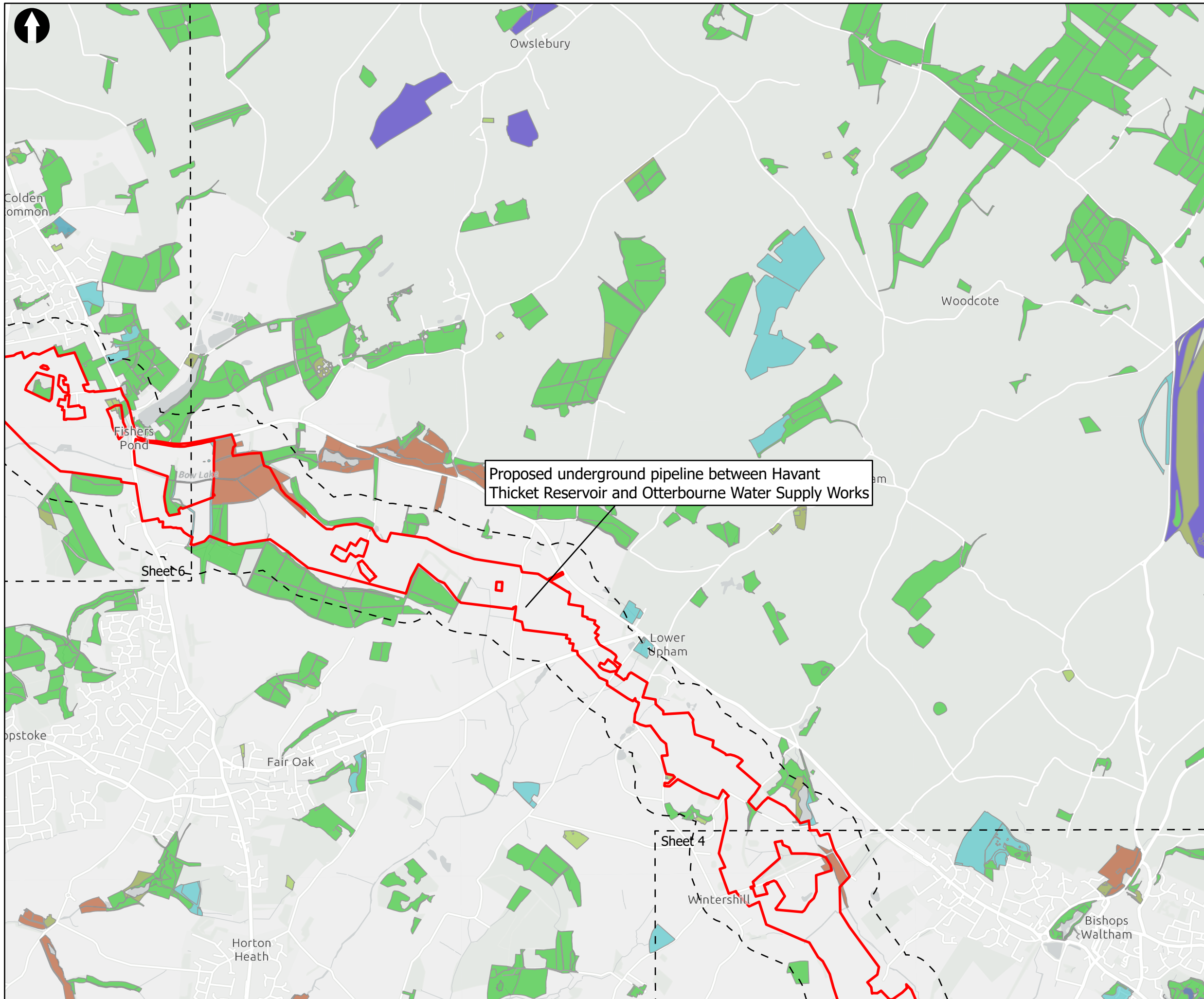
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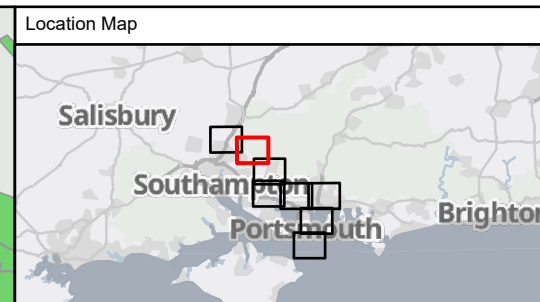

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 Priority Habitats  
 Sheet 4 of 8

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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 200m Study Area

**Priority Habitat Inventory**

- Coastal and floodplain grazing marsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland calcareous grassland
- Lowland meadows
- No main habitat but additional habitats present
- Purple moor grass and rush pastures
- Traditional orchard

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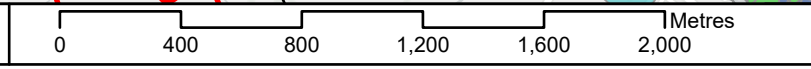
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 Sheet 5 of 8

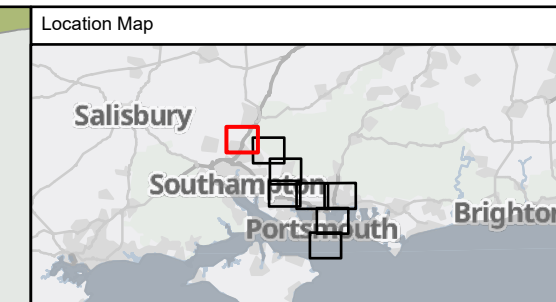
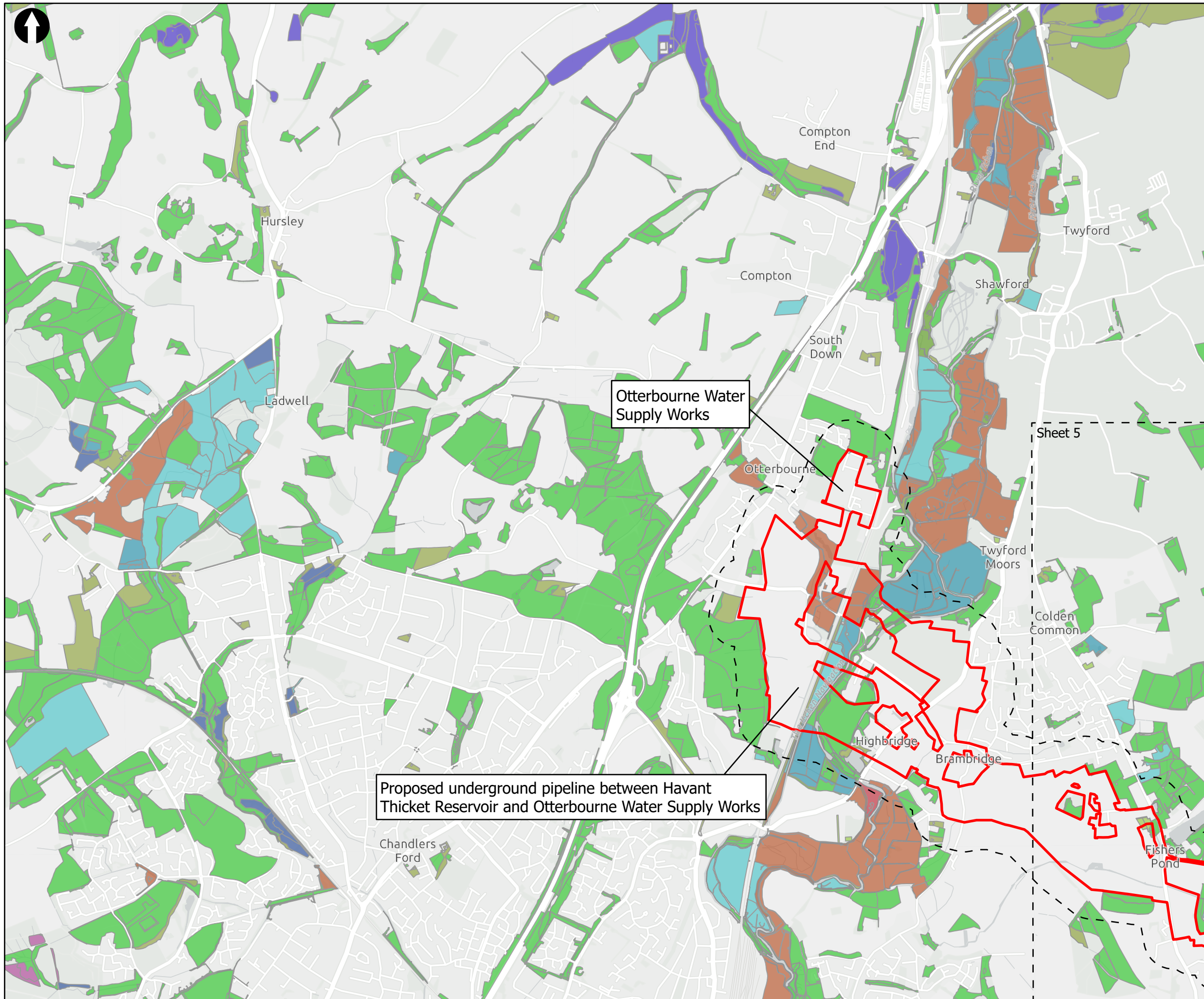
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**Key to Symbols**

- Scoping Area
- 200m Study Area
- Otterbourne Water Supply Works

**Priority Habitat Inventory**

- Coastal and floodplain grazing marsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland calcareous grassland
- Lowland dry acid grassland
- Lowland fens
- Lowland meadows
- No main habitat but additional habitats present
- Purple moor grass and rush pastures
- Reedbeds
- Traditional orchard

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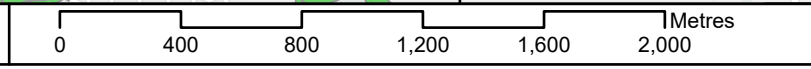
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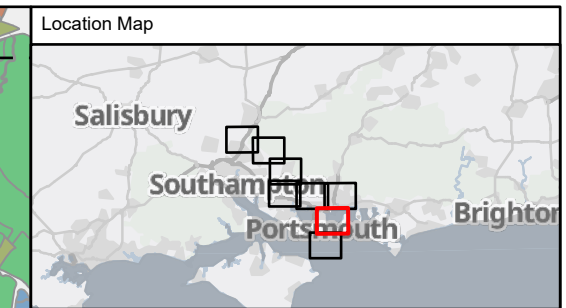
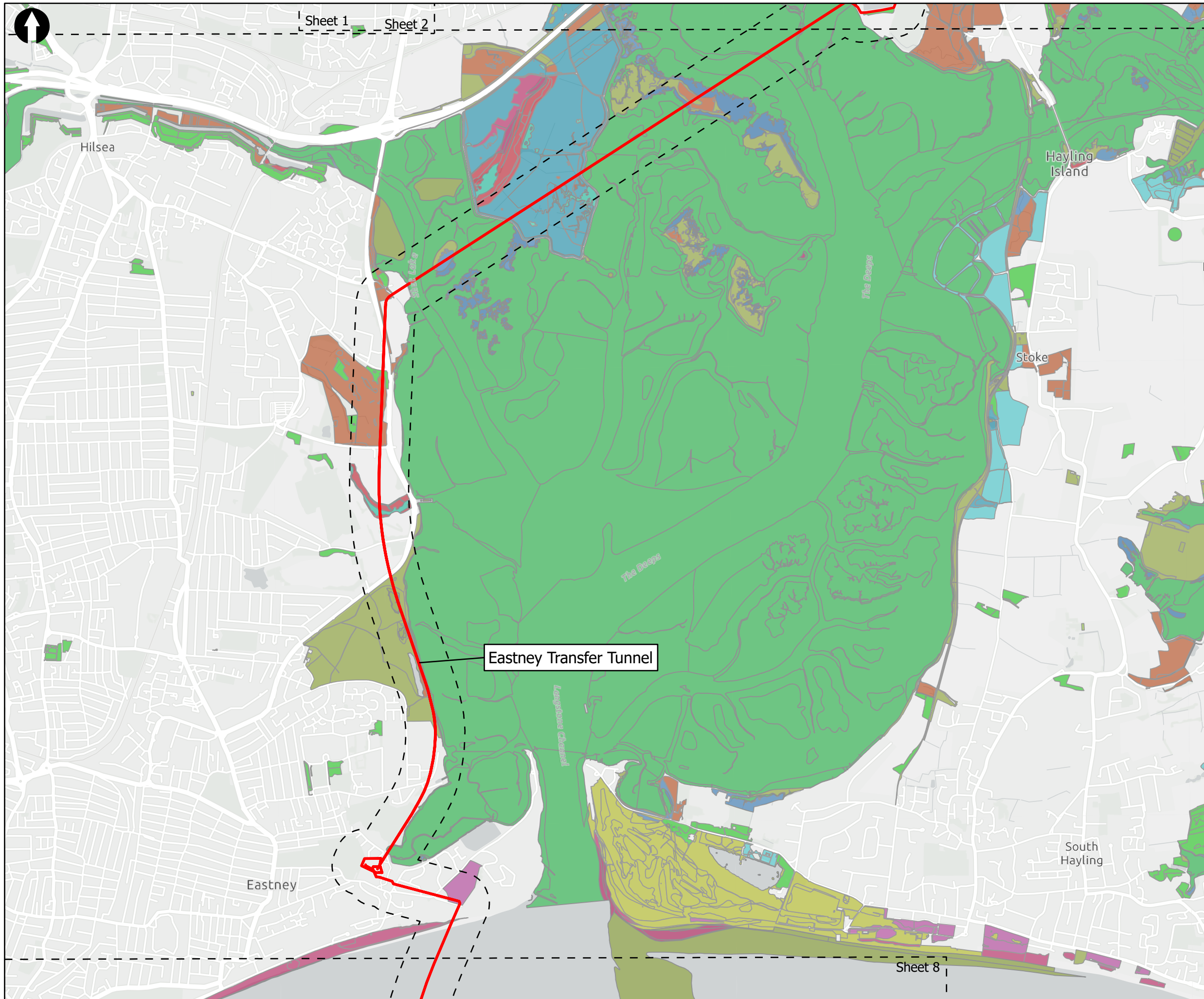
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 Figure 8.3  
 Priority Habitats  
 Sheet 6 of 8

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Key to Symbols

- Scoping Area
- 200m Study Area
- Budds Farm Wastewater Treatment Works

Priority Habitat Inventory

- Coastal and floodplain grazing marsh
- Coastal saltmarsh
- Coastal sand dunes
- Coastal vegetated shingle
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland dry acid grassland
- Lowland meadows
- Mudflats
- No main habitat but additional habitats present
- Reedbeds
- Saline lagoons
- Traditional orchard

Notes

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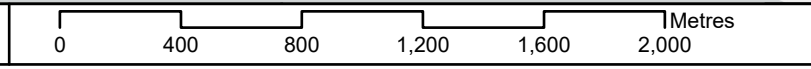
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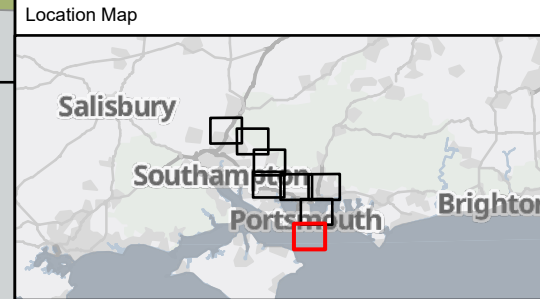
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Priority Habitats  
Sheet 7 of 8

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Sheet 7



Key to Symbols

- Scoping Area
- 200m Study Area

Priority Habitat Inventory

- Coastal and floodplain grazing marsh
- Coastal vegetated shingle
- No main habitat but additional habitats present

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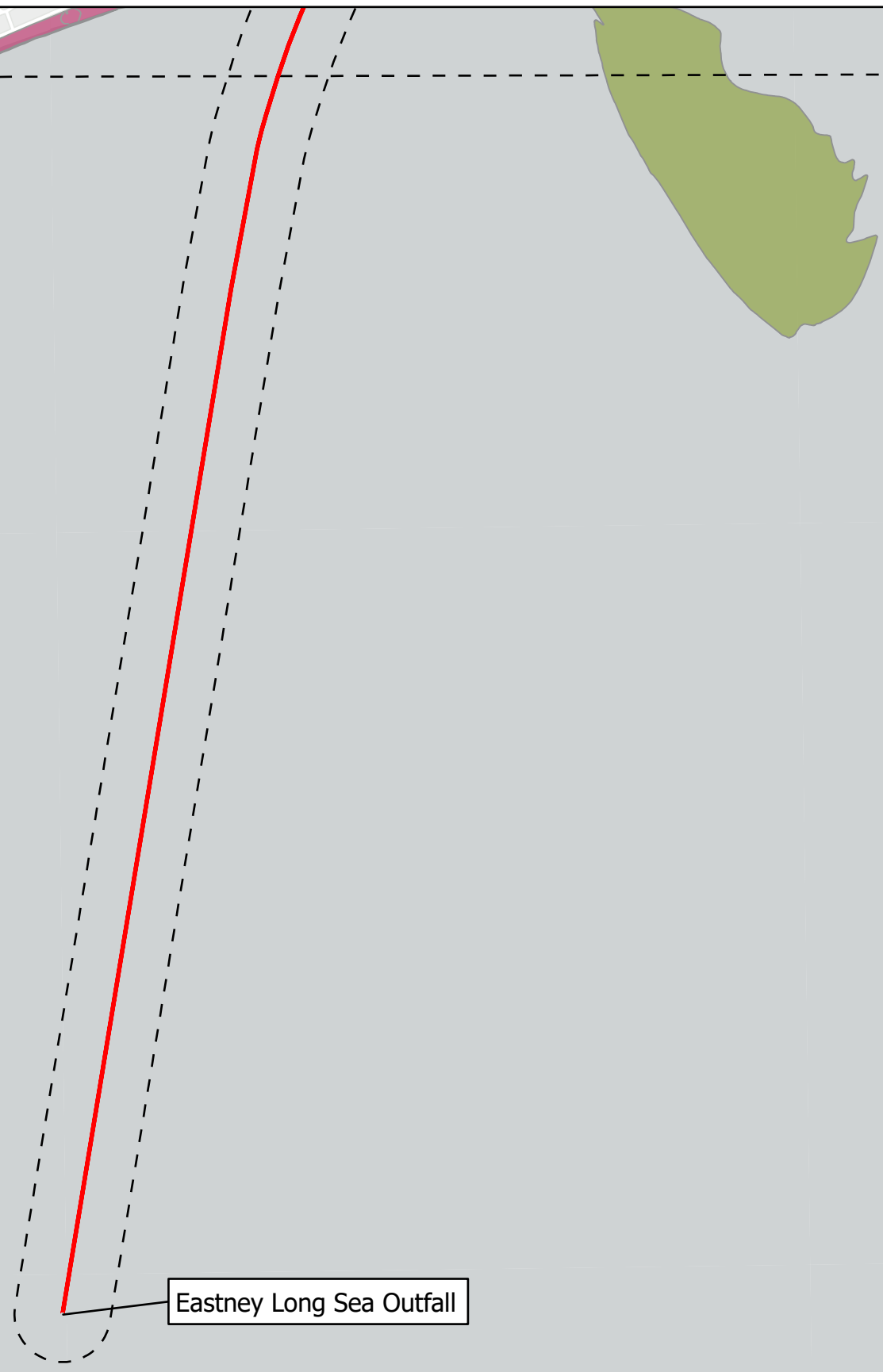
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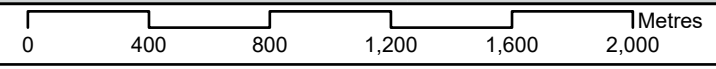
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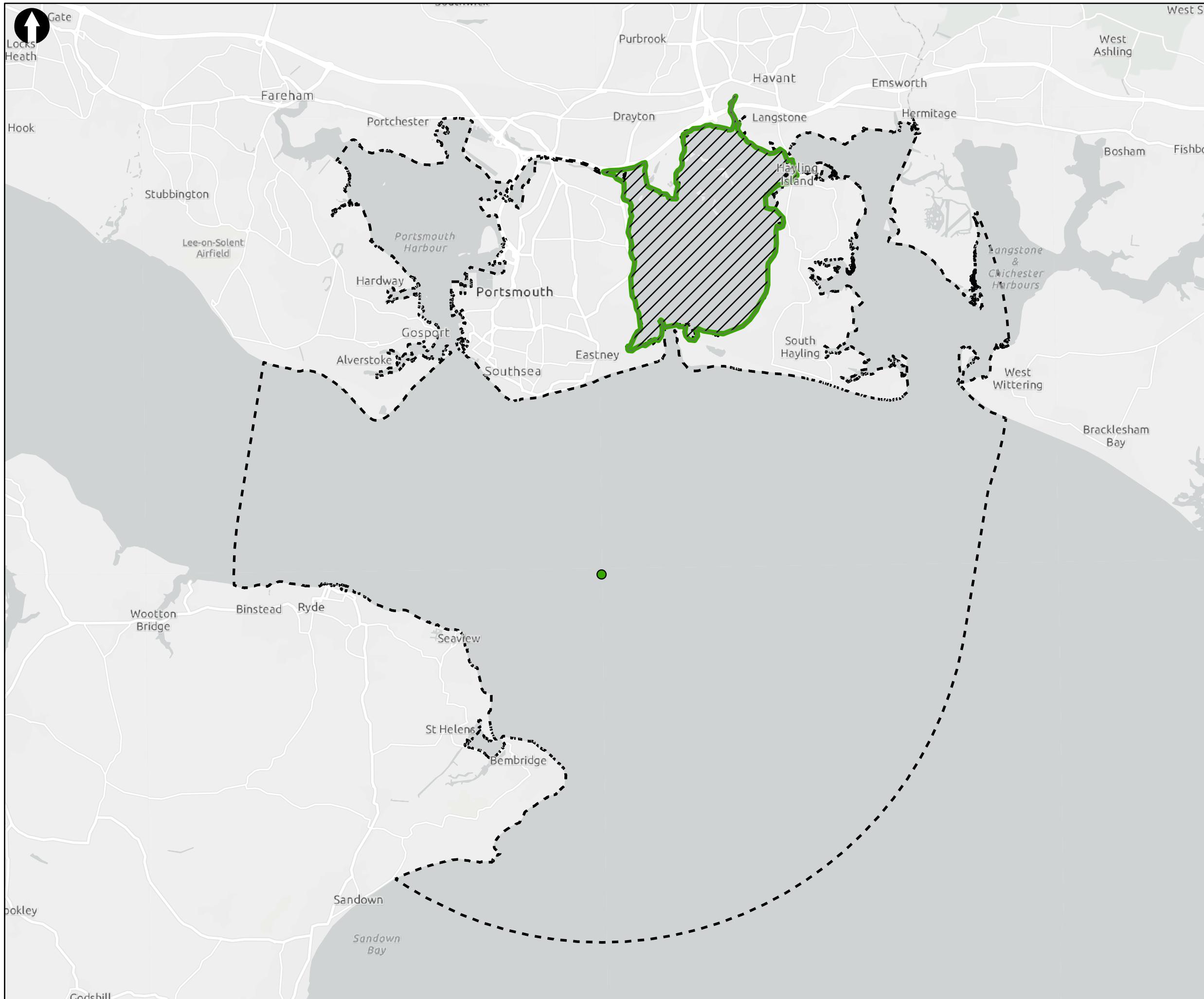
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Priority Habitats  
Sheet 8 of 8

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Eastney Long Sea Outfall





Key to Symbols

- Study Area 1
- Study Area 2
- Eastney Long Sea Outfall Discharge Point
- Study Area 3 (Associated with the Construction Works Immediately Adjacent to the Marine Area and Flood Risk Zones)

Notes

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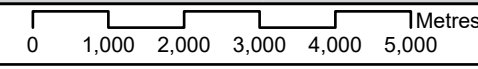
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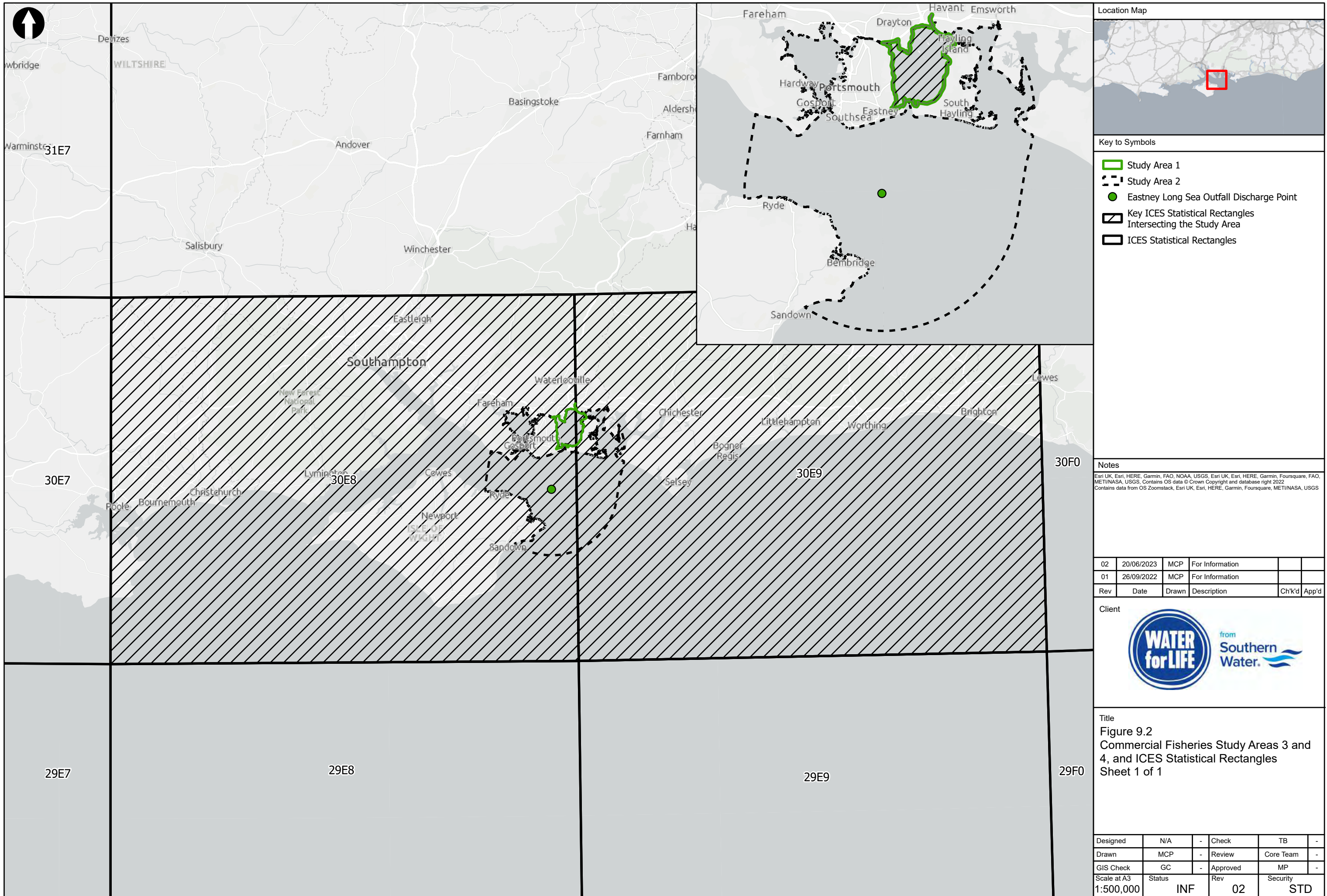
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**Figure 9.1**  
**Marine Ecology Study Areas 1 and 2**  
 Sheet 1 of 1

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**Key to Symbols**

- Study Area 1
- Study Area 2
- Eastney Long Sea Outfall Discharge Point
- Key ICES Statistical Rectangles Intersecting the Study Area
- ICES Statistical Rectangles

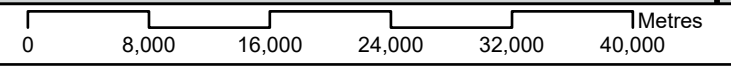
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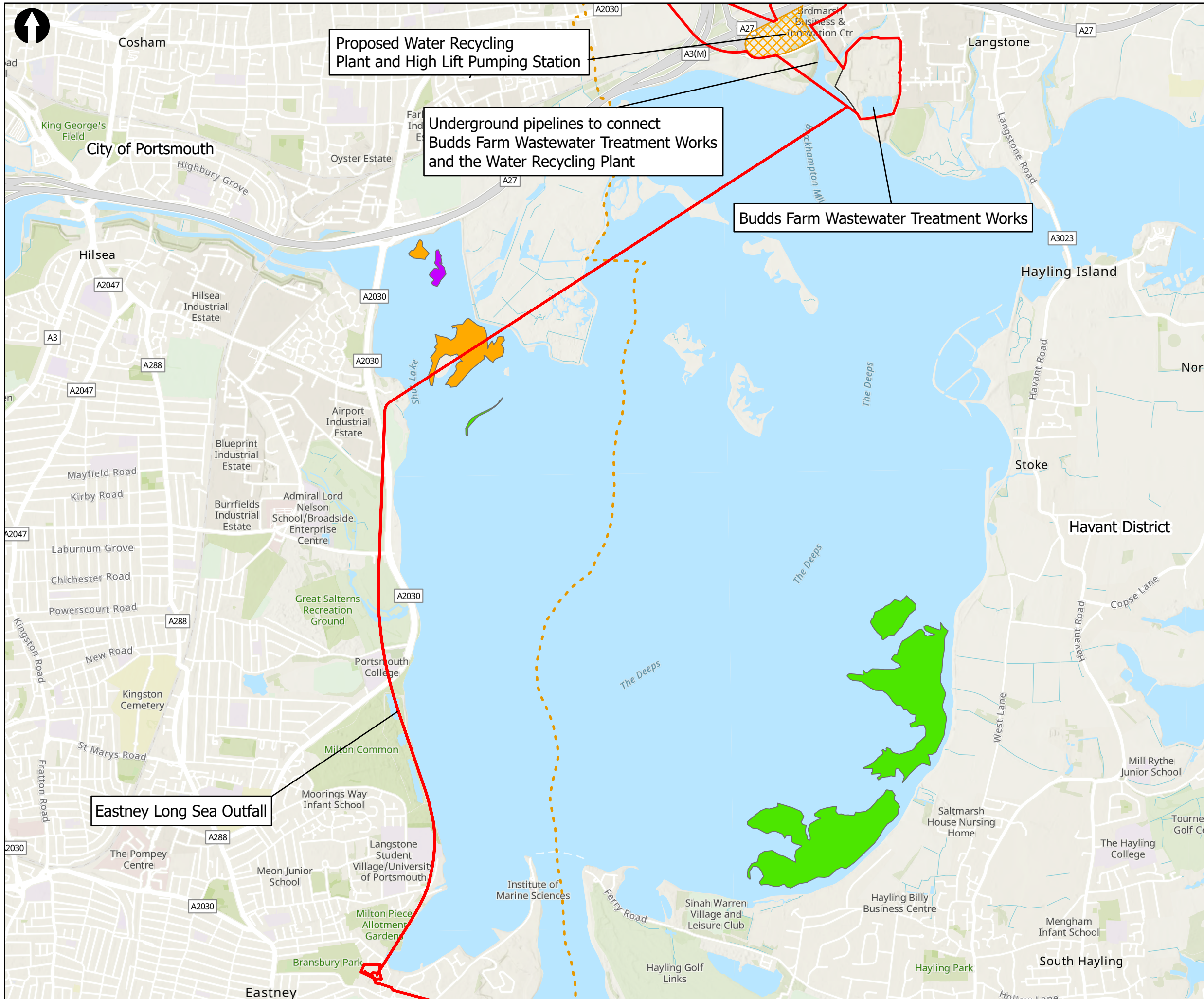
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**Title**  
 Figure 9.2  
 Commercial Fisheries Study Areas 3 and 4, and ICES Statistical Rectangles  
 Sheet 1 of 1

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Drawn	MCP	-	Review	Core Team	-
GIS Check	GC	-	Approved	MP	-
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Proposed Water Recycling Plant and High Lift Pumping Station

Underground pipelines to connect Budds Farm Wastewater Treatment Works and the Water Recycling Plant

Budds Farm Wastewater Treatment Works

Eastney Long Sea Outfall



Key to Symbols

	Scoping Area		Water Recycling Plant and High Lift Pumping Station
	District boundary		Z. marina
	Budds Farm Wastewater Treatment Works		Z. noltii
			Langstone Harbour Seagrass 2022
			Both

Notes

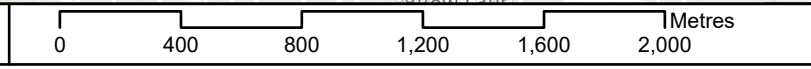
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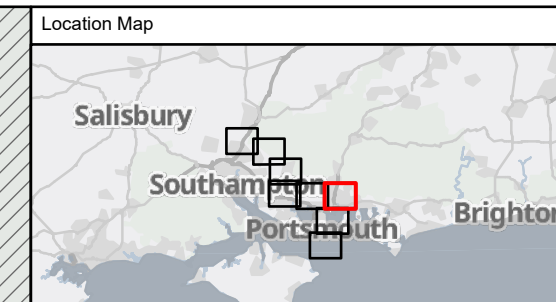
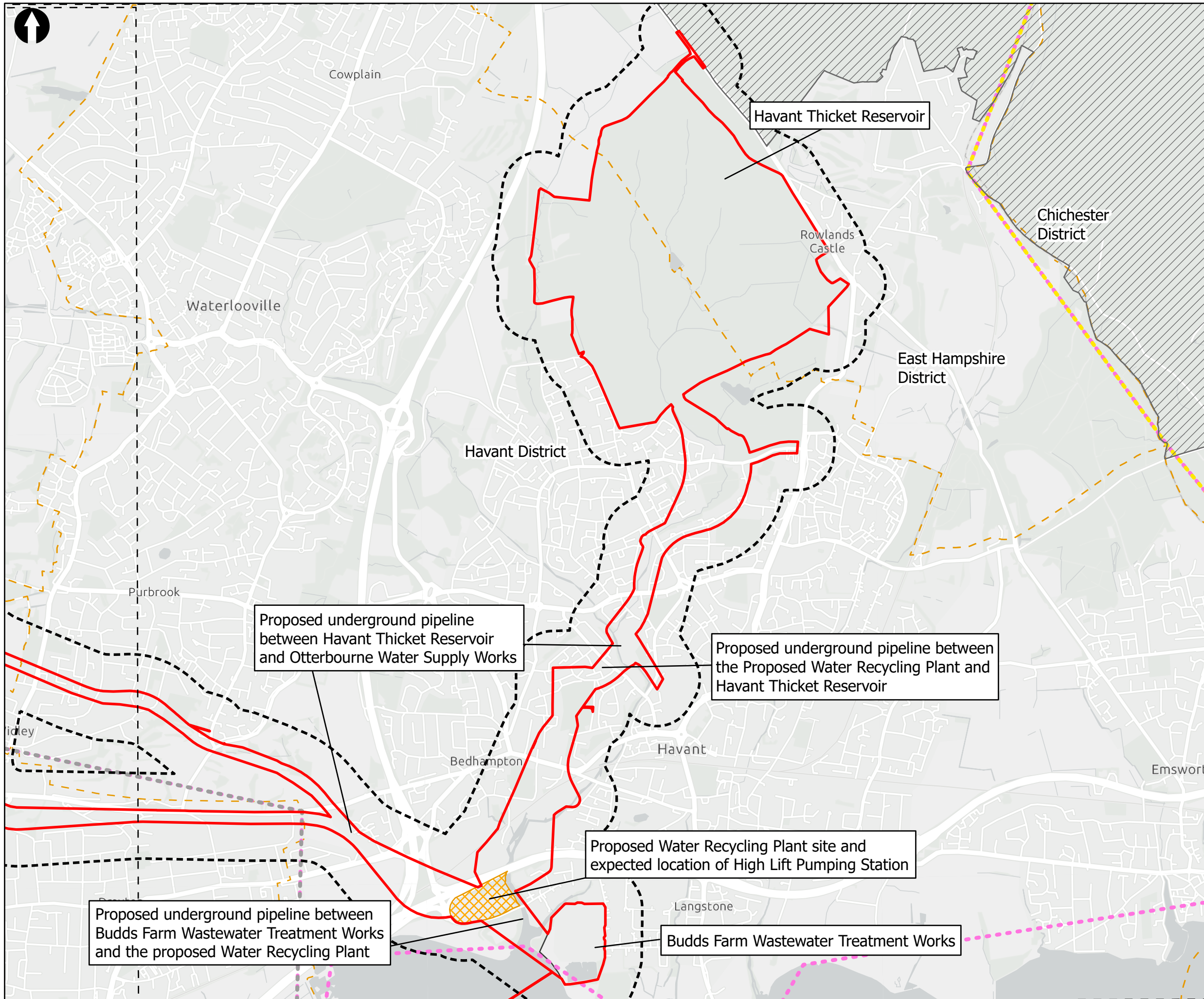


Title  
Figure 9.3  
Seagrass beds mapped in Langstone Harbour during the seagrass survey

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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Budds Farm Wastewater Treatment Works
- Water Recycling Plant and High Lift Pumping Station
- South Downs National Park Area
- District boundary
- Hampshire
- Portsmouth
- West Sussex

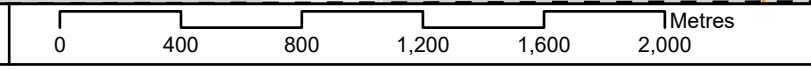
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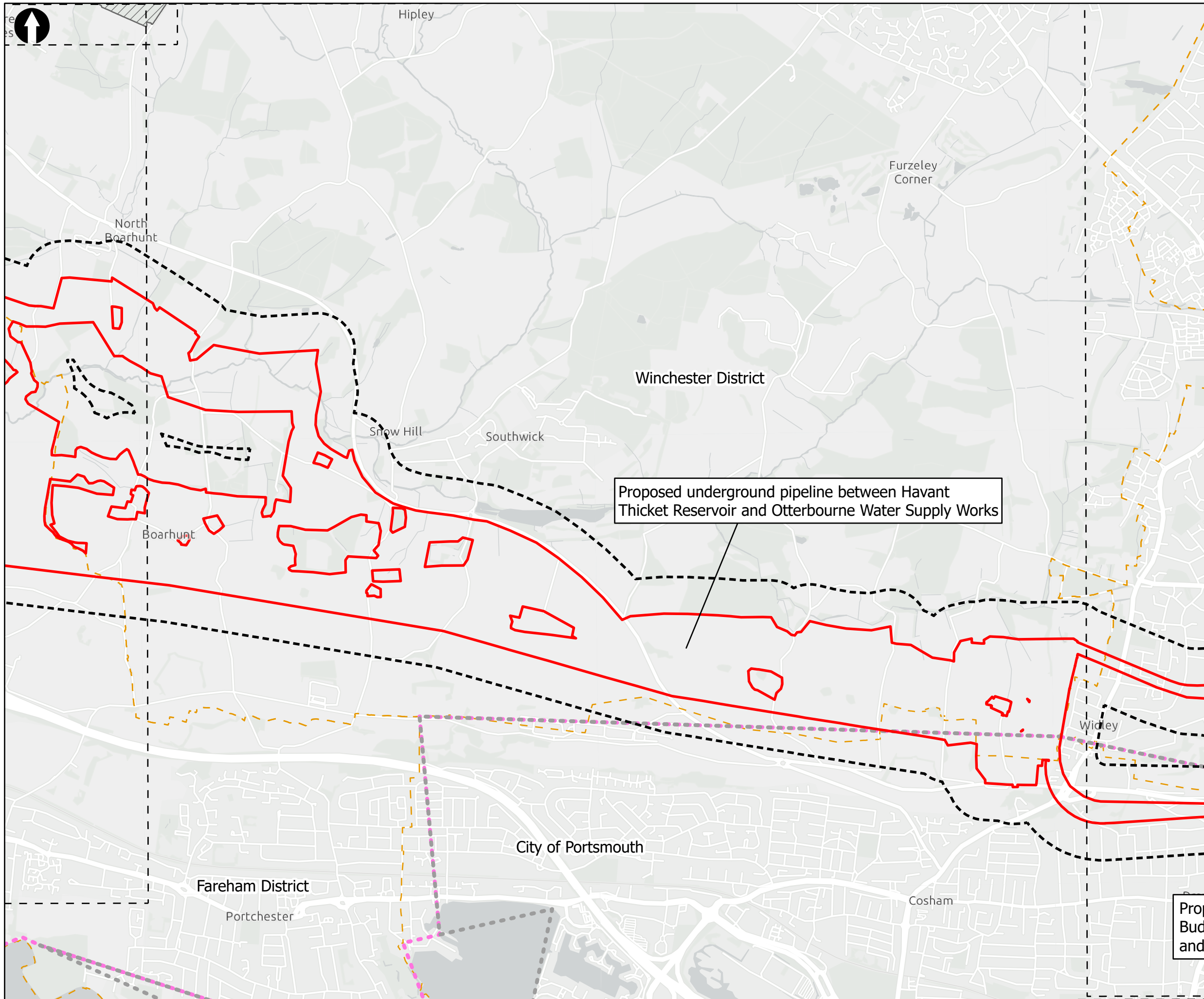
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**Title**  
 Figure 11.1  
 Land quality and ground conditions Study Area  
 Sheet 1 of 6

Designed	N/A	-	Check	DF	-
Drawn	MCP	-	Review	Core Team	-
GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	INF	Rev	02	Security
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



Key to Symbols

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- District boundary
- Hampshire
- Portsmouth

Notes

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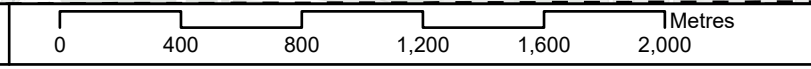


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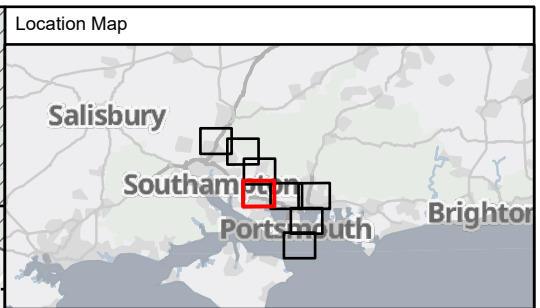
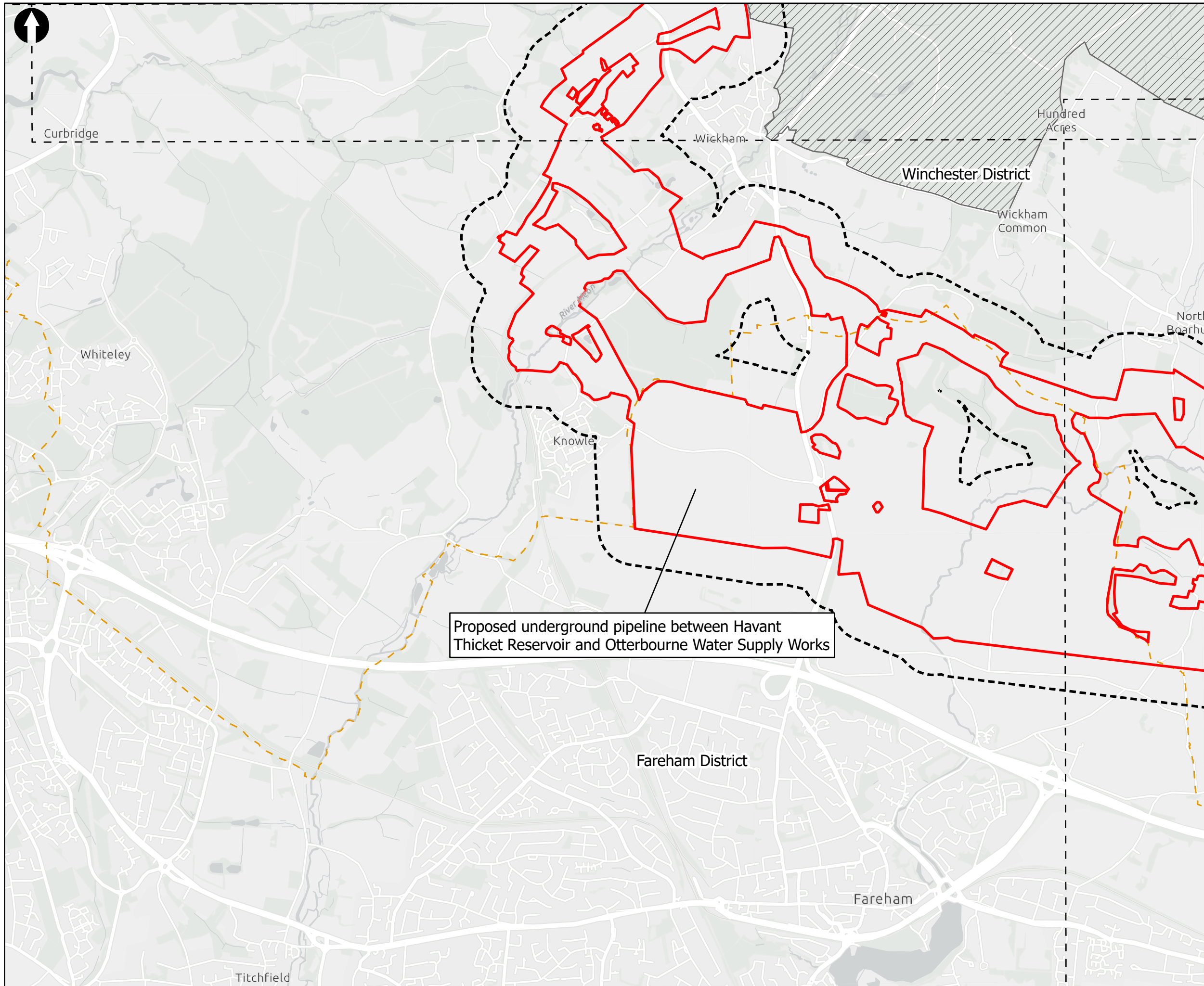
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Sheet 2 of 6

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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- District boundary
- Hampshire

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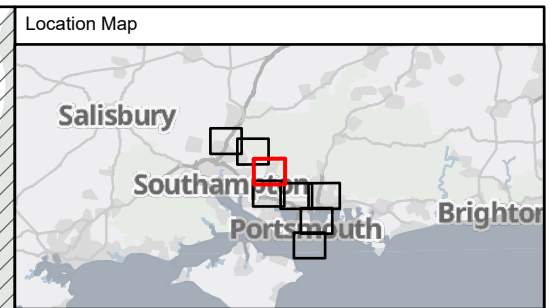
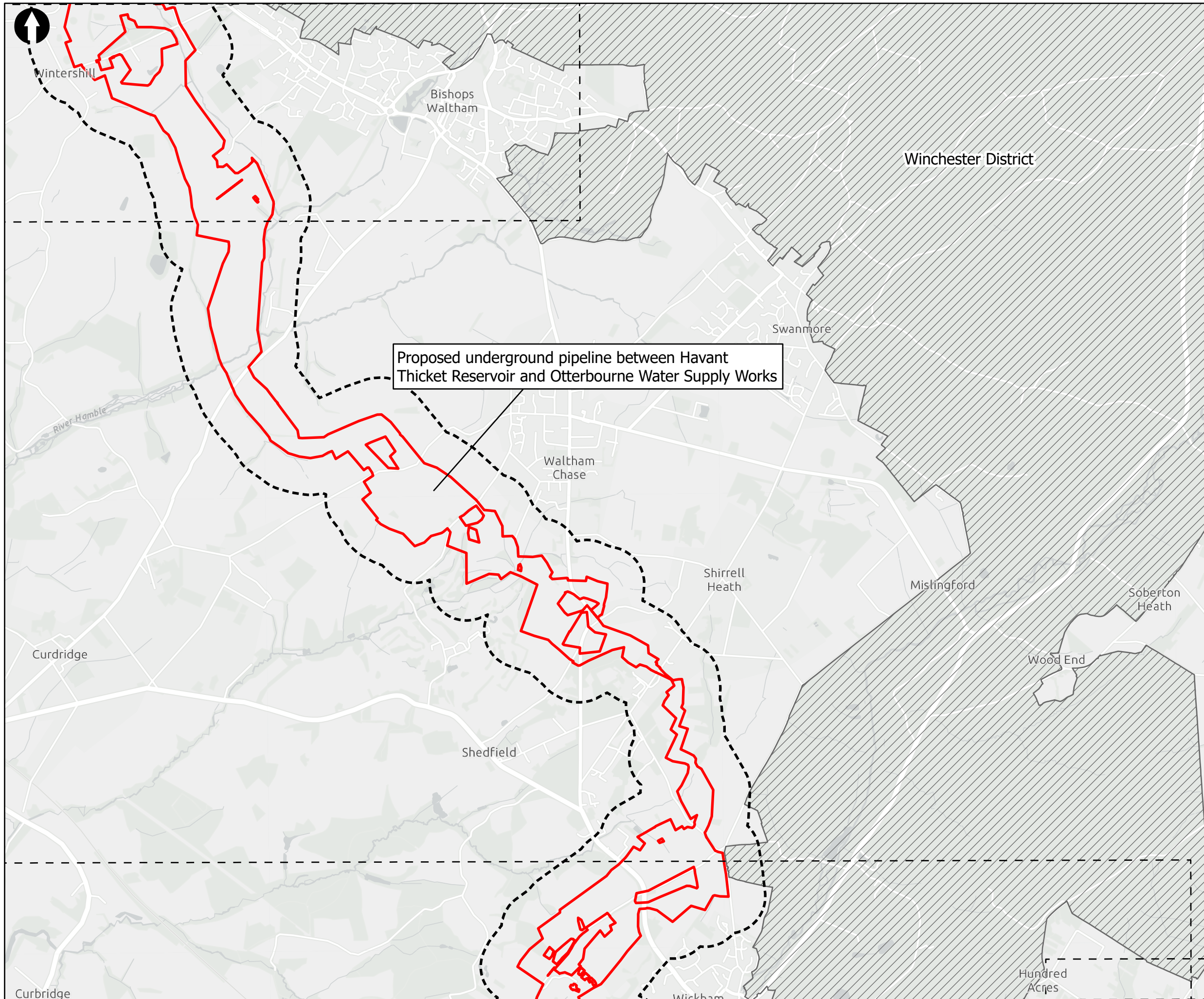
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**Title**  
 Figure 11.1  
 Land quality and ground conditions Study Area  
 Sheet 3 of 6

Designed	N/A	-	Check	DF	-
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GIS Check	GC	-	Approved	MP	-
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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- District boundary
- Hampshire

Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works

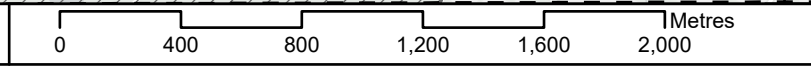
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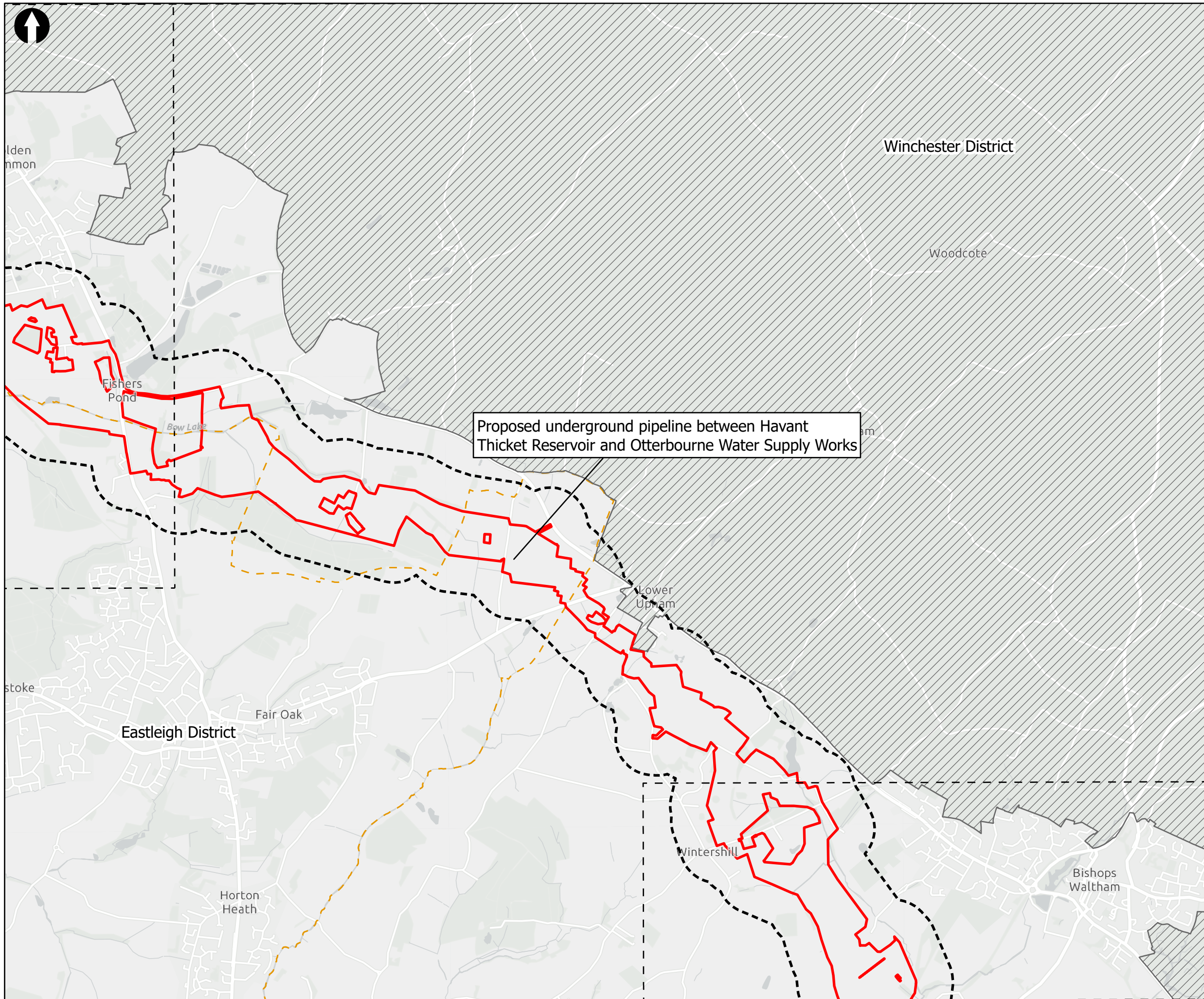
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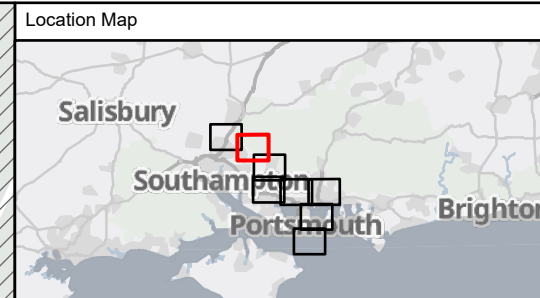
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 Land quality and ground conditions Study Area  
 Sheet 4 of 6

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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



Key to Symbols

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- District boundary
- Hampshire

Notes

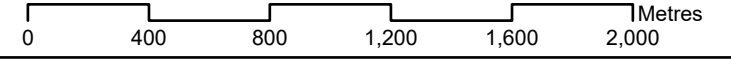
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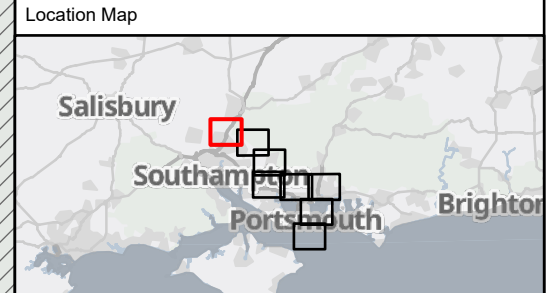
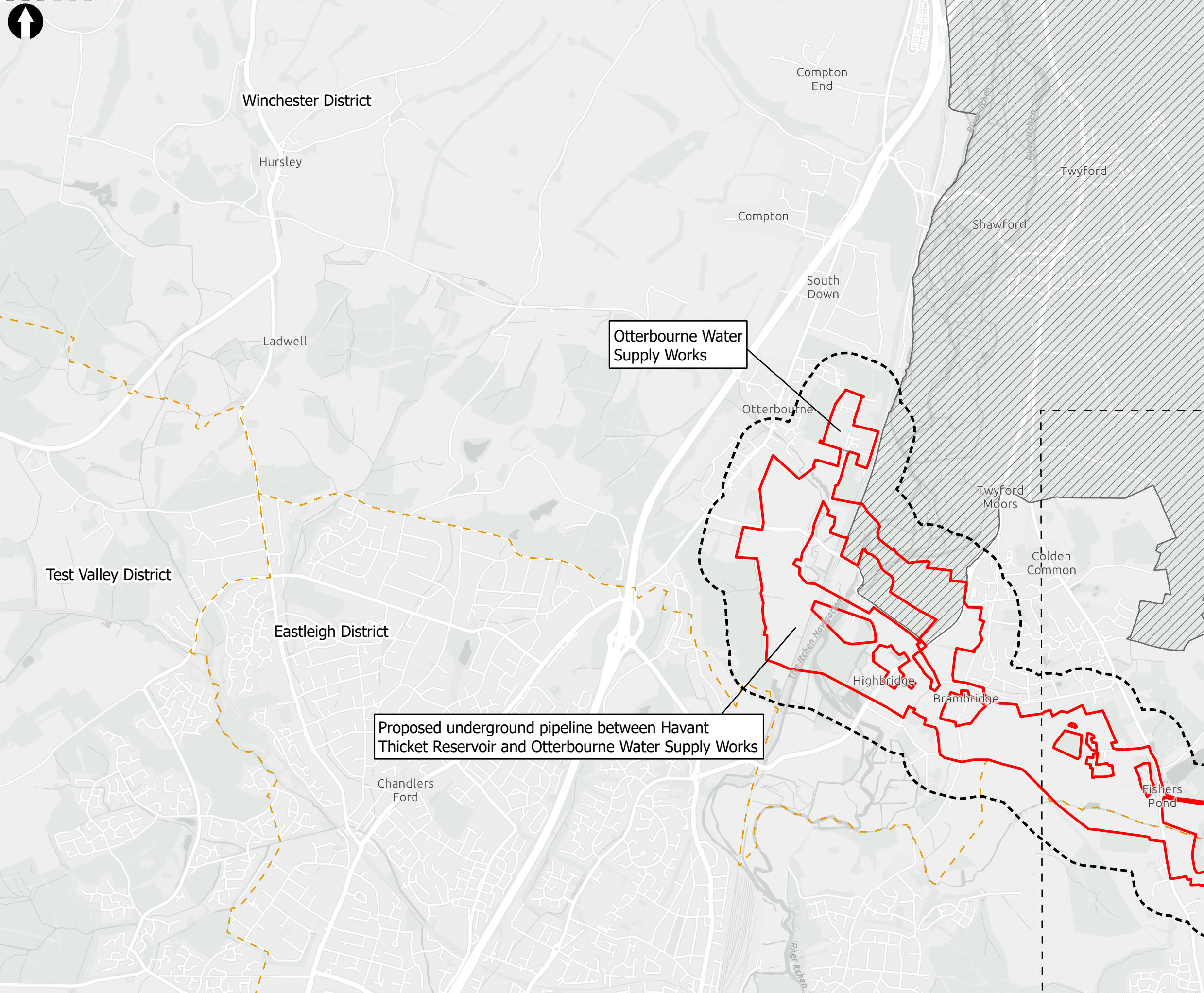
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Title  
**Figure 11.1**  
 Land quality and ground conditions Study Area  
 Sheet 5 of 6

Designed	N/A	-	Check	DF	-
Drawn	MCP	-	Review	Core Team	-
GIS Check	GC	-	Approved	MP	-
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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Otterbourne Water Supply Works
- South Downs National Park Area
- District boundary
- Hampshire

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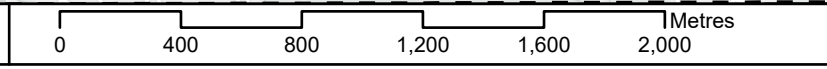
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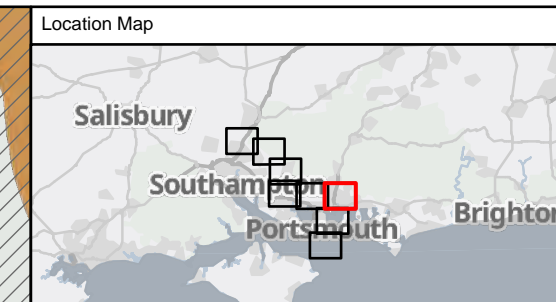
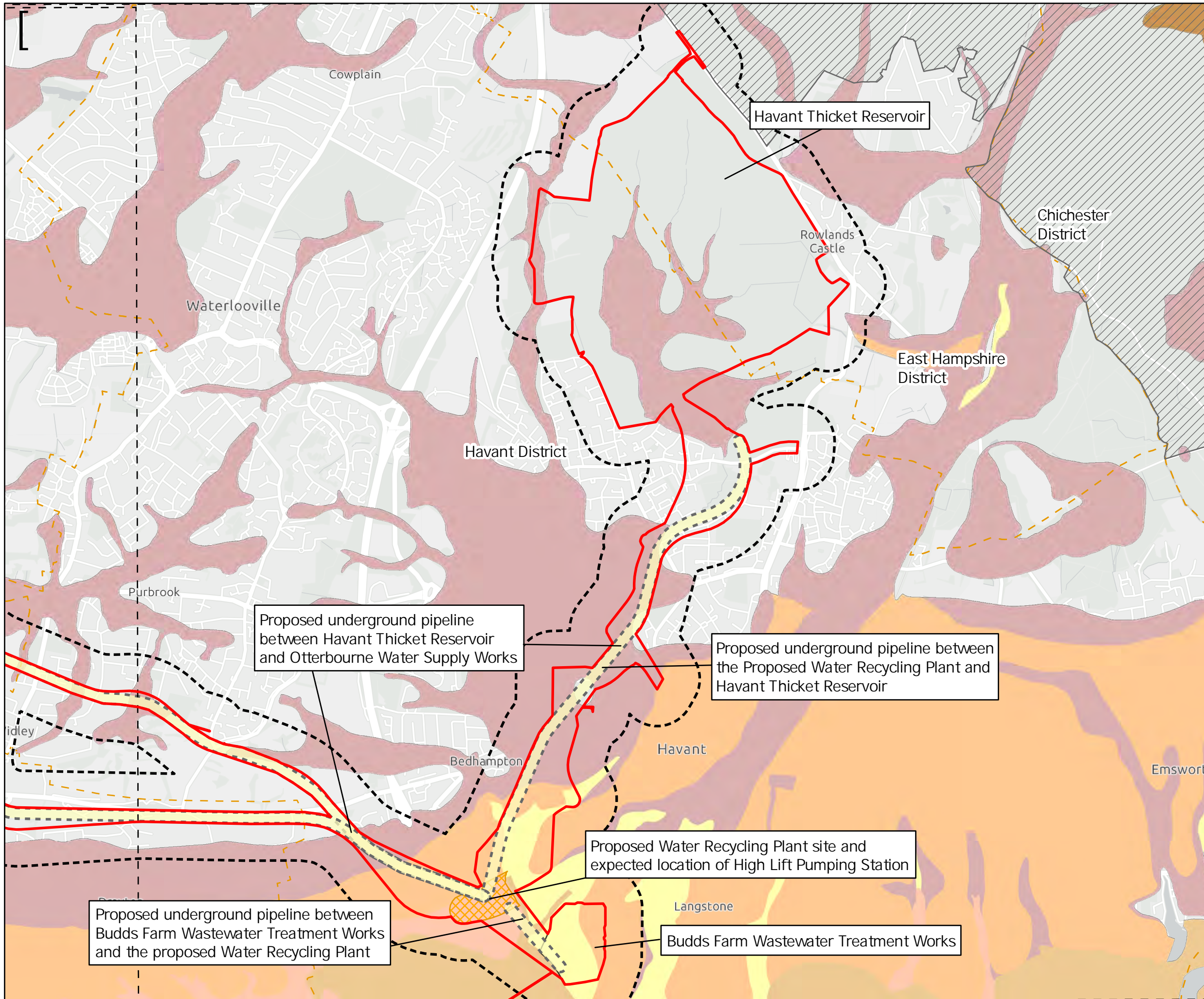
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**Title**  
 Figure 11.1  
 Land quality and ground conditions Study Area  
 Sheet 6 of 6

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GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	INF	Rev	02	Security
				STD	





**Key to Symbols**

Scoping Area	River Terrace Deposits (Undifferentiated) - Gravel, Sand and Silt
Extent boxes 25K	River Terrace Deposits (Undifferentiated) - Sand, Silt and Clay
Tunnel Buffer (Zone of Influence)	Alluvium - Clay, Silt, Sand and Gravel
250m Study Area	Raised Beach Deposits - Sand and Gravel
South Downs National Park Area	Raised Marine Deposits - Sand and Gravel
District boundary	Clay-With Flints Formation - Clay, Silt, Sand and Gravel
Water Recycling Plant and High Lift Pumping Station	Beach and Tidal Flat Deposits (Undifferentiated) - Clay, Silt, Sand and Gravel
Budds Farm Wastewater Treatment Works	Tidal Flat Deposits - Clay and Silt
Otterbourne Water Supply Works	Tidal Flat Deposits - Clay, Silt, Sand and Gravel

**Superficial Deposits 1:50000**

Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay and Silt
Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay, Silt, Sand and Gravel
	Blown Sand - Sand

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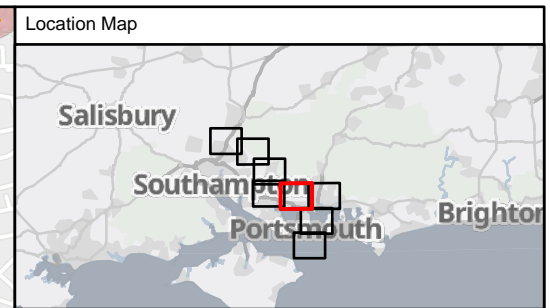
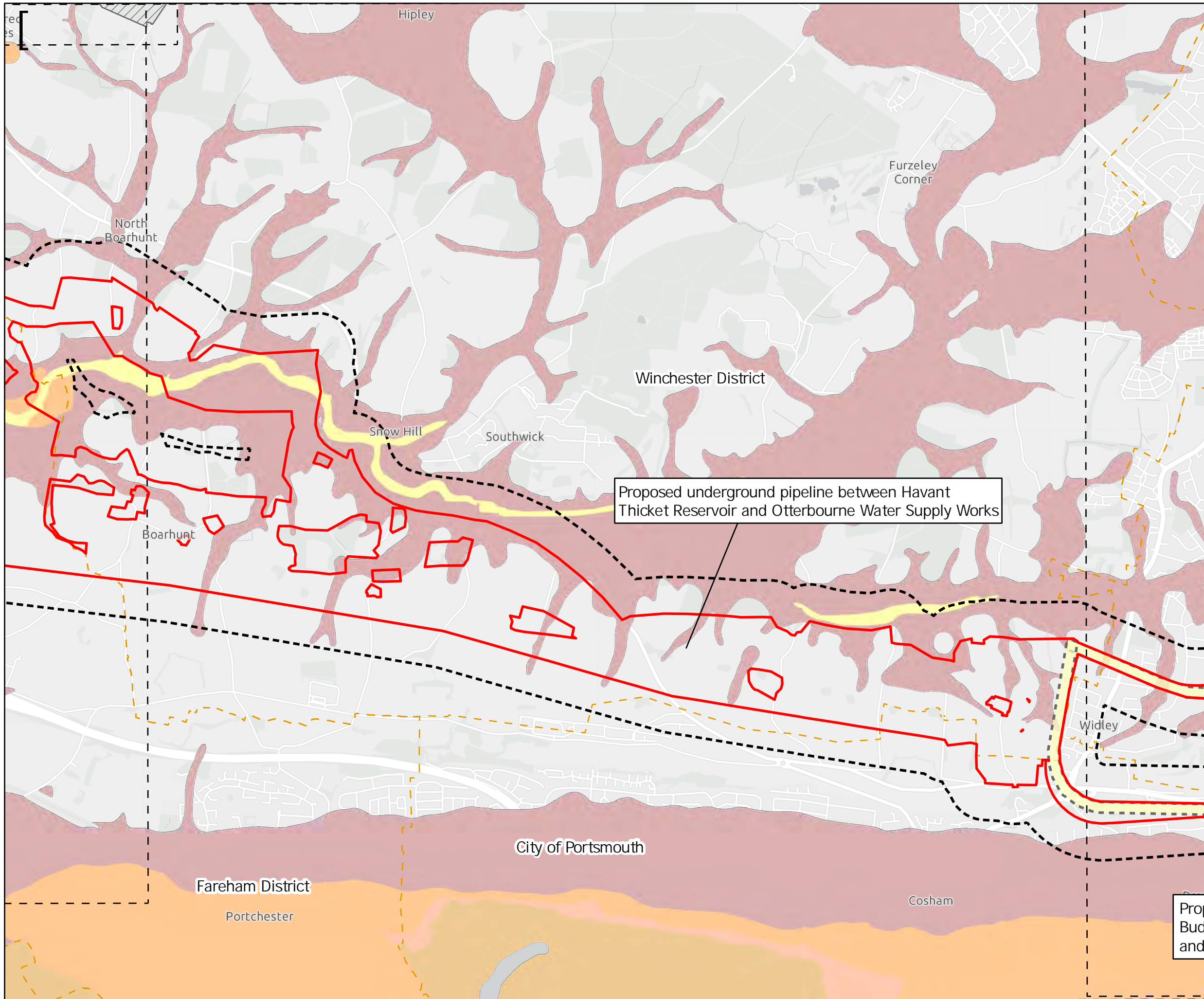

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 Figure 11.2  
 Superficial Geology of the Study Area  
 Sheet 1 of 6

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**Key to Symbols**

Scoping Area	River Terrace Deposits (Undifferentiated) - Gravel, Sand and Silt
Extent boxes 25K	River Terrace Deposits (Undifferentiated) - Sand, Silt and Clay
Tunnel Buffer (Zone of Influence)	Alluvium - Clay, Silt, Sand and Gravel
250m Study Area	Raised Beach Deposits - Sand and Gravel
South Downs National Park Area	Raised Marine Deposits - Sand and Gravel
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Budds Farm Wastewater Treatment Works	Tidal Flat Deposits - Clay and Silt
Otterbourne Water Supply Works	Tidal Flat Deposits - Clay, Silt, Sand and Gravel

**Superficial Deposits 1:50000**

Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay and Silt
Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay, Silt, Sand and Gravel
	Blown Sand - Sand

**Notes**

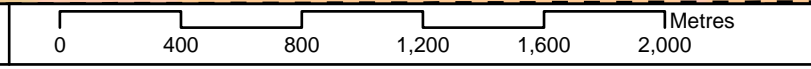
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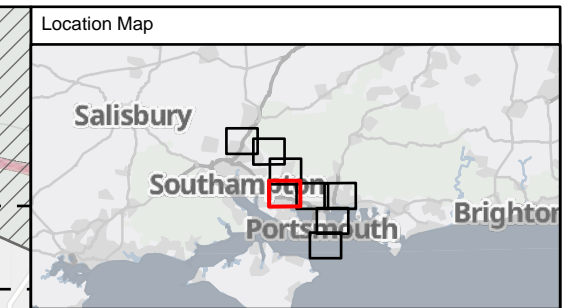
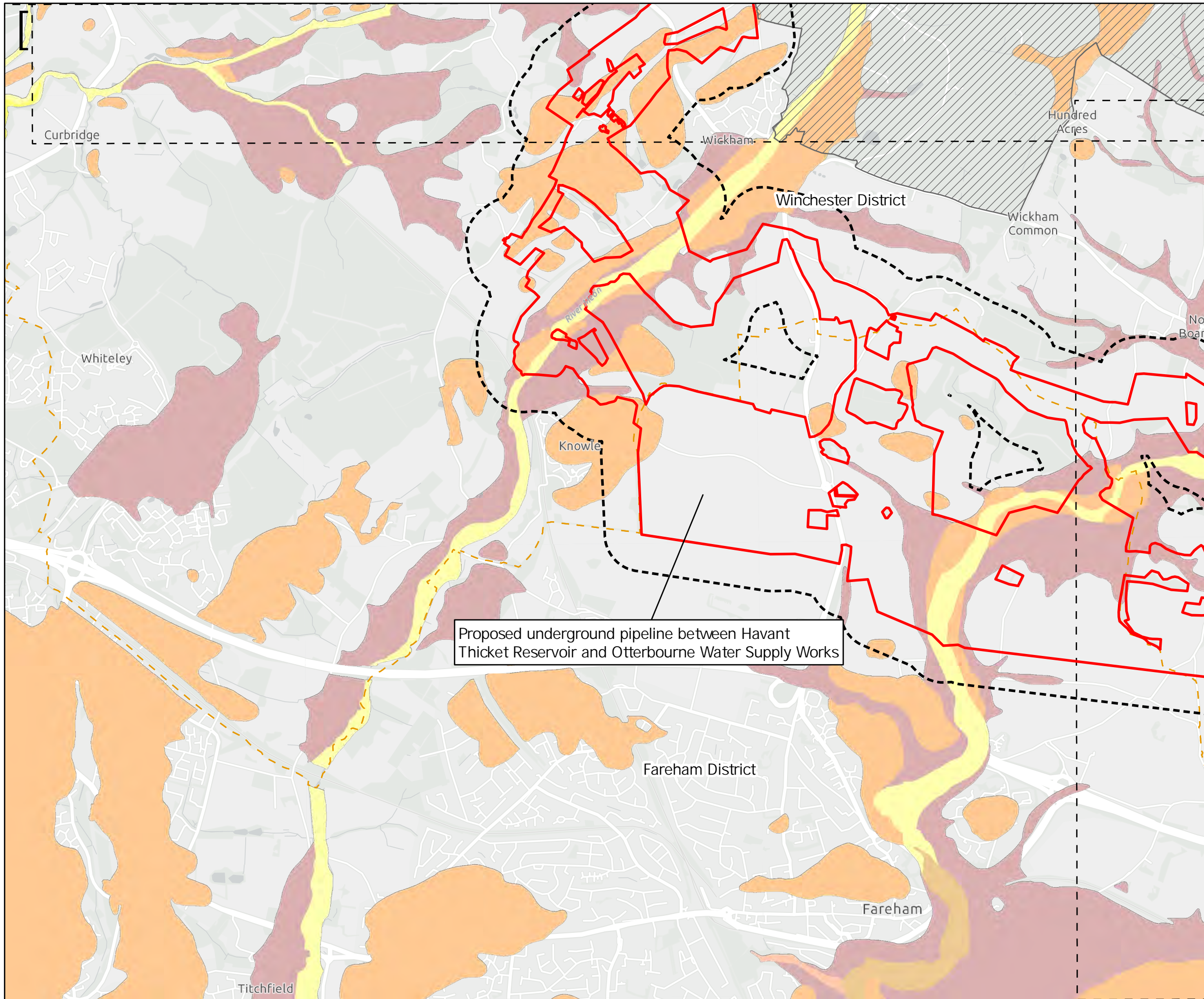
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 Sheet 2 of 6

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**Key to Symbols**

Scoping Area	River Terrace Deposits (Undifferentiated) - Gravel, Sand and Silt
Extent boxes 25K	River Terrace Deposits (Undifferentiated) - Sand, Silt and Clay
Tunnel Buffer (Zone of Influence)	Alluvium - Clay, Silt, Sand and Gravel
250m Study Area	Raised Beach Deposits - Sand and Gravel
South Downs National Park Area	Raised Marine Deposits - Sand and Gravel
District boundary	Clay-With Flints Formation - Clay, Silt, Sand and Gravel
Water Recycling Plant and High Lift Pumping Station	Beach and Tidal Flat Deposits (Undifferentiated) - Clay, Silt, Sand and Gravel
Budds Farm Wastewater Treatment Works	Tidal Flat Deposits - Clay and Silt
Otterbourne Water Supply Works	Tidal Flat Deposits - Clay, Silt, Sand and Gravel

**Superficial Deposits 1:50000**

Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay and Silt
Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay, Silt, Sand and Gravel
	Blown Sand - Sand

**Notes**

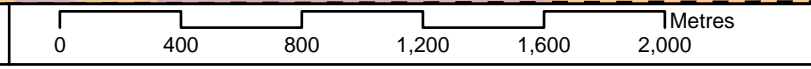
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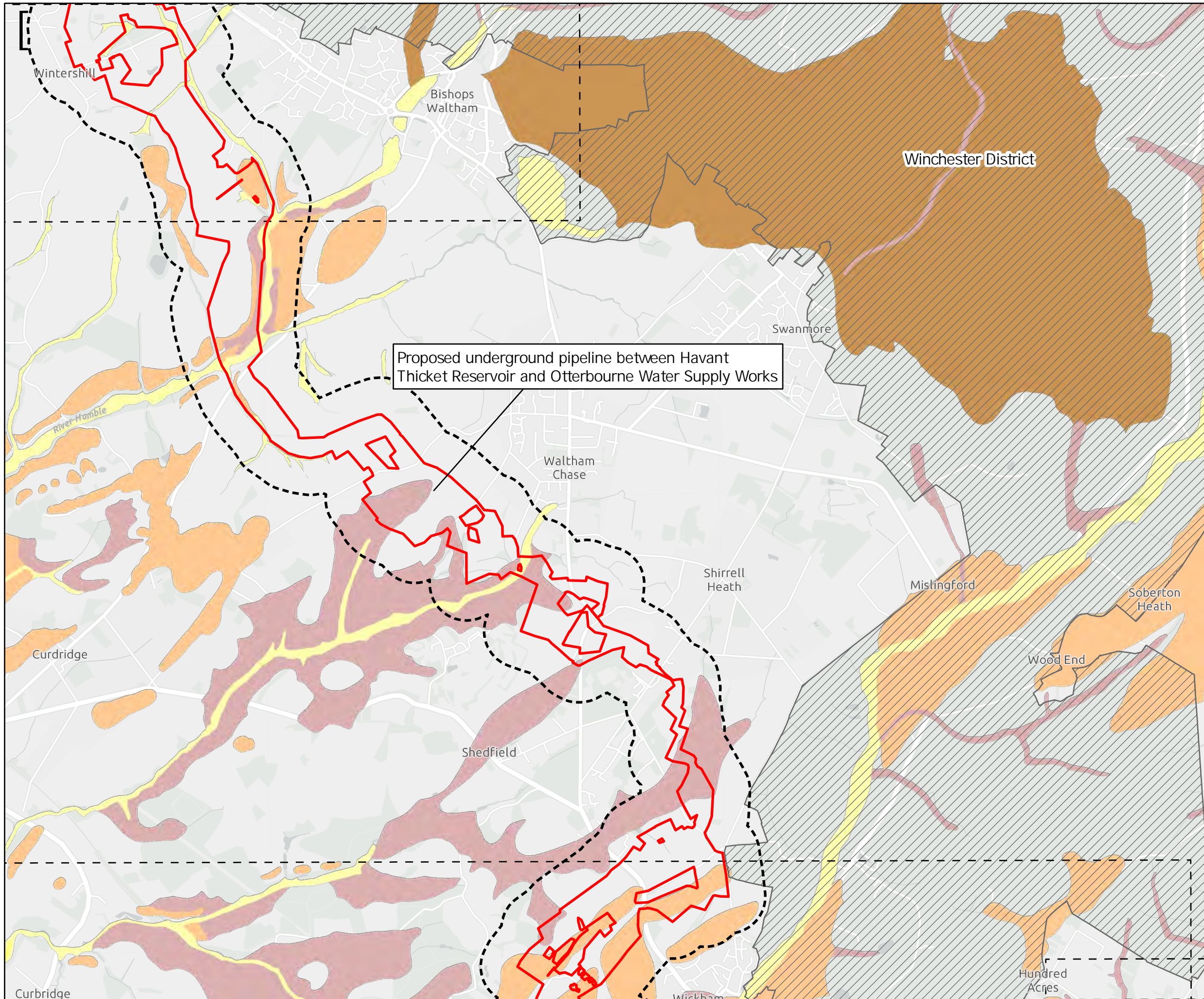
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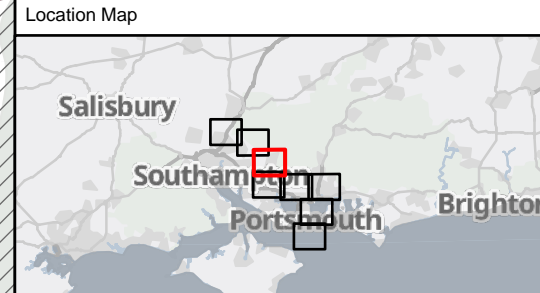
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 Superficial Geology of the Study Area  
 Sheet 3 of 6

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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- Extent boxes 25K
- Tunnel Buffer (Zone of Influence)
- 250m Study Area
- South Downs National Park Area
- District boundary
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- River Terrace Deposits (Undifferentiated) - Gravel, Sand and Silt
- River Terrace Deposits (Undifferentiated) - Sand, Silt and Clay
- Alluvium - Clay, Silt, Sand and Gravel
- Raised Beach Deposits - Sand and Gravel
- Raised Marine Deposits - Sand and Gravel
- Clay-With Flints Formation - Clay, Silt, Sand and Gravel
- Beach and Tidal Flat Deposits (Undifferentiated) - Clay, Silt, Sand and Gravel
- Tidal Flat Deposits - Clay and Silt
- Tidal Flat Deposits - Clay, Silt, Sand and Gravel
- Blown Sand - Sand

**Superficial Deposits 1:50000**

- Head - Clay, Silt, Sand and Gravel
- Head - Clay, Silt, Sand and Gravel

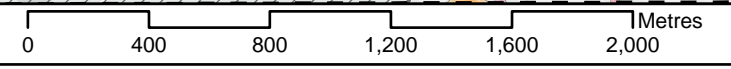
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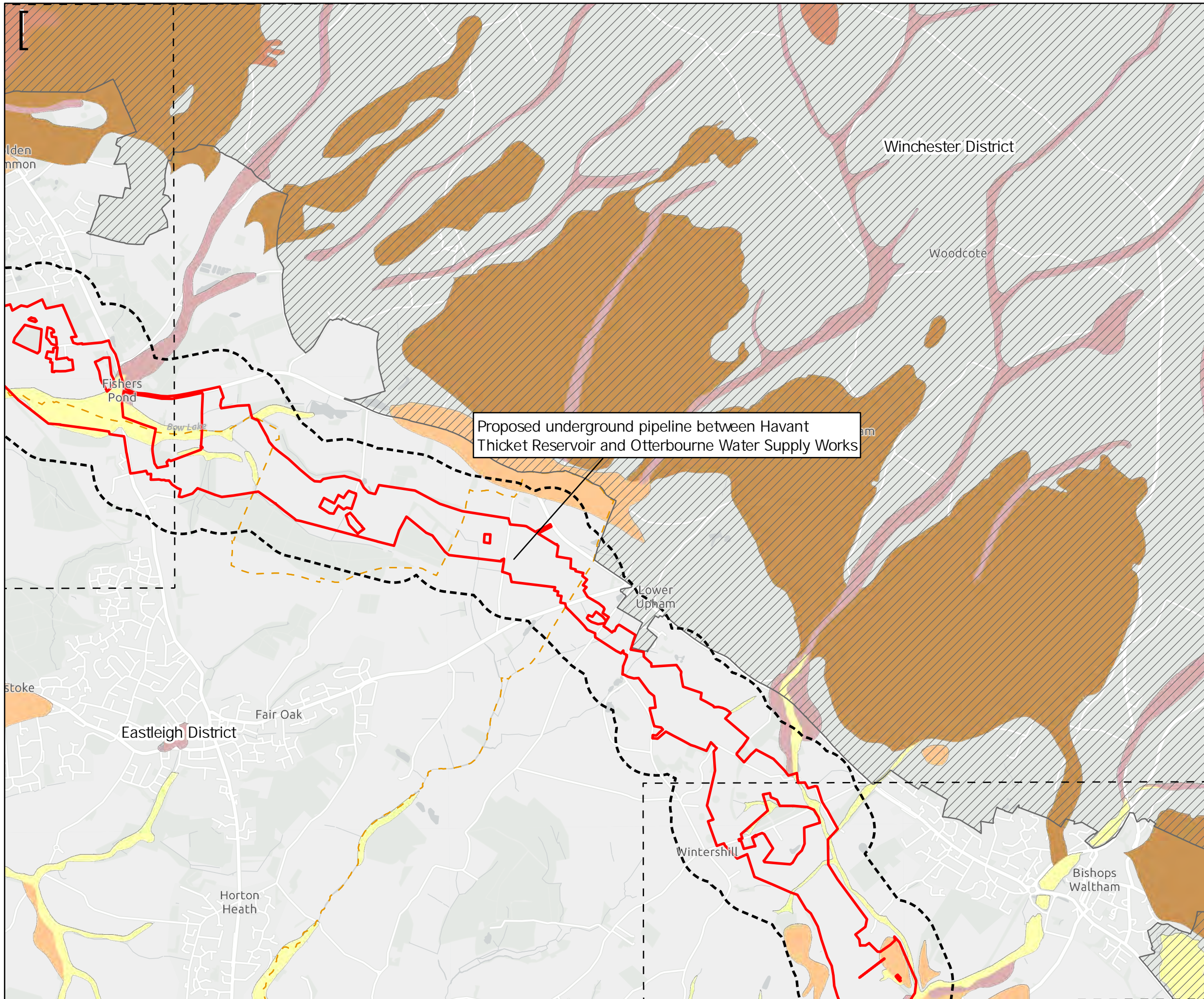
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 Superficial Geology of the Study Area  
 Sheet 4 of 6

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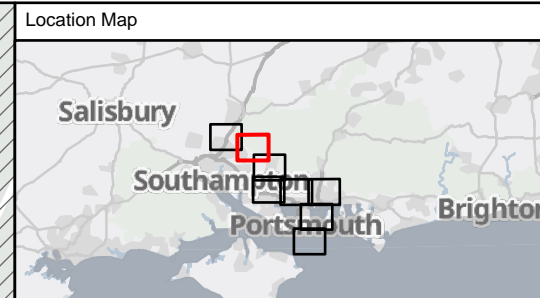


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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Scoping Area	River Terrace Deposits (Undifferentiated) - Gravel, Sand and Silt
Extent boxes 25K	River Terrace Deposits (Undifferentiated) - Sand, Silt and Clay
Tunnel Buffer (Zone of Influence)	Alluvium - Clay, Silt, Sand and Gravel
250m Study Area	Raised Beach Deposits - Sand and Gravel
South Downs National Park Area	Raised Marine Deposits - Sand and Gravel
District boundary	Clay-With Flints Formation - Clay, Silt, Sand and Gravel
Water Recycling Plant and High Lift Pumping Station	Beach and Tidal Flat Deposits (Undifferentiated) - Clay, Silt, Sand and Gravel
Budds Farm Wastewater Treatment Works	Tidal Flat Deposits - Clay and Silt
Otterbourne Water Supply Works	Tidal Flat Deposits - Clay, Silt, Sand and Gravel

**Superficial Deposits 1:50000**

Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay and Silt
Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay, Silt, Sand and Gravel
Head - Clay, Silt, Sand and Gravel	Blown Sand - Sand

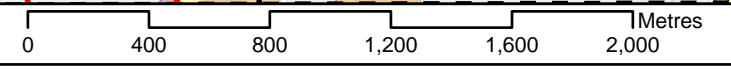
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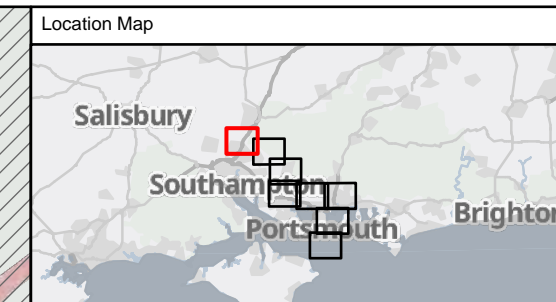
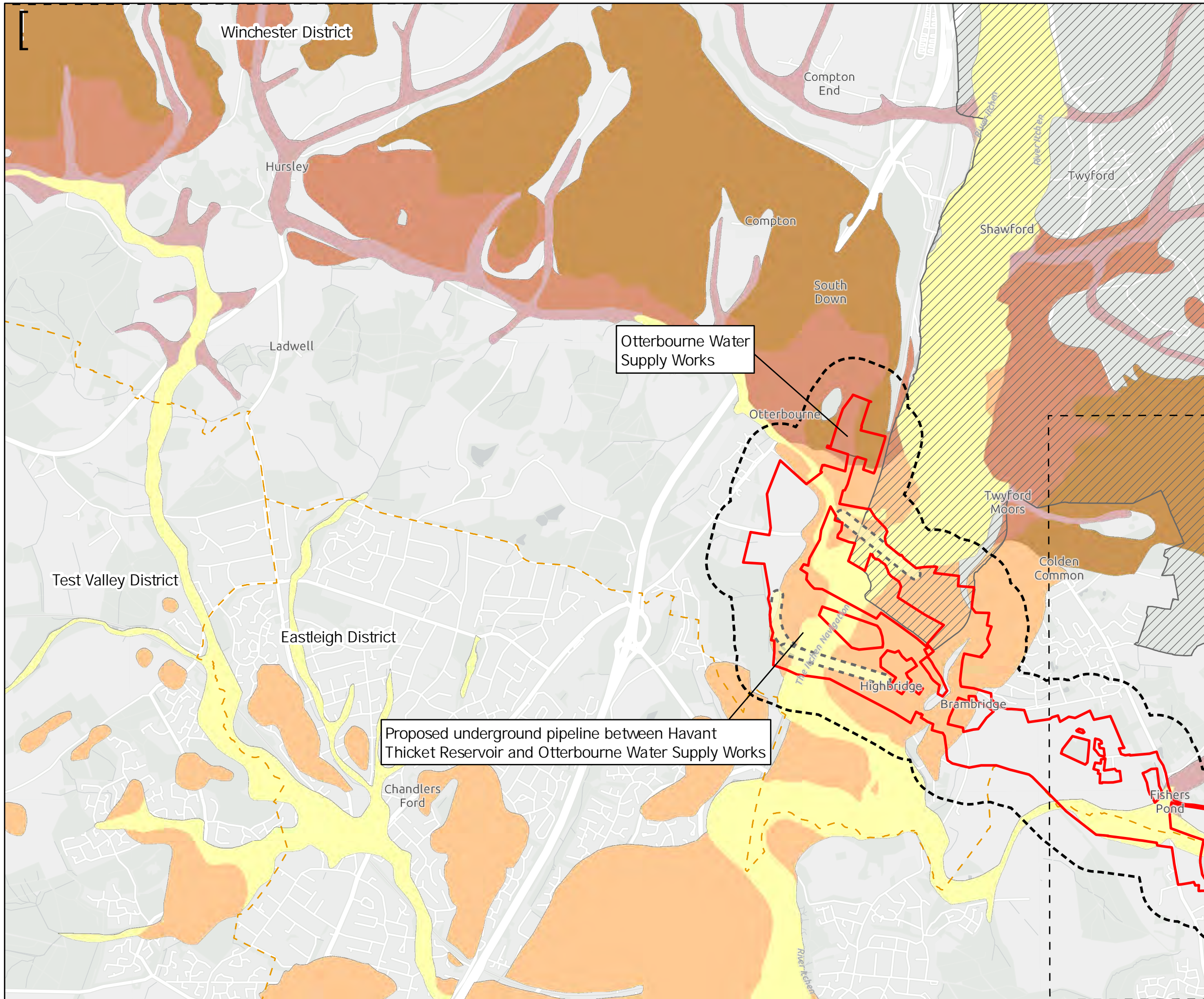


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 Superficial Geology of the Study Area  
 Sheet 5 of 6

Designed	N/A	-	Check	DF	-
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**Key to Symbols**

Scoping Area	River Terrace Deposits (Undifferentiated) - Gravel, Sand and Silt
Tunnel Buffer (Zone of Influence)	River Terrace Deposits (Undifferentiated) - Sand, Silt and Clay
250m Study Area	Alluvium - Clay, Silt, Sand and Gravel
South Downs National Park Area	Raised Beach Deposits - Sand and Gravel
District boundary	Raised Marine Deposits - Sand and Gravel
Water Recycling Plant and High Lift Pumping Station	Clay-With Flints Formation - Clay, Silt, Sand and Gravel
Budds Farm Wastewater Treatment Works	Beach and Tidal Flat Deposits (Undifferentiated) - Clay, Silt, Sand and Gravel
Otterbourne Water Supply Works	Tidal Flat Deposits - Clay and Silt
<b>Superficial Deposits 1:50000</b>	
Head - Clay, Silt, Sand and Gravel	Tidal Flat Deposits - Clay, Silt, Sand and Gravel
Head - Clay, Silt, Sand and Gravel	Blown Sand - Sand

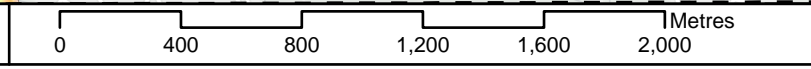
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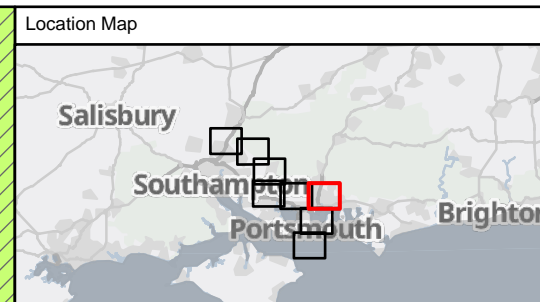
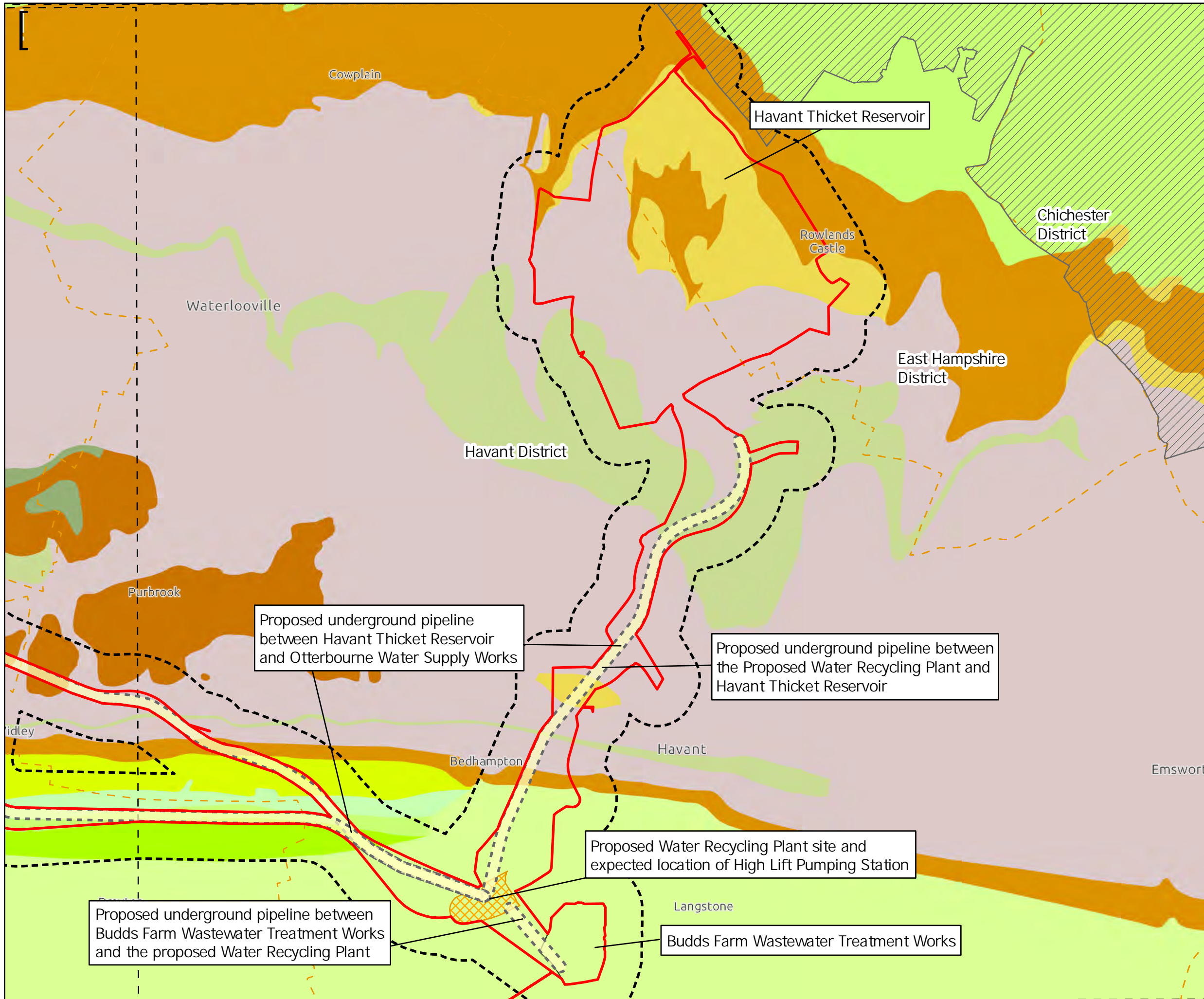


**Title**  
 Figure 11.2  
 Superficial Geology of the Study Area  
 Sheet 6 of 6

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Scale at A3	Status	INF	Rev	02	Security
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 710166-SWS-XX-XX-DR-Z-00



**Key to Symbols**

Scoping Area	Whitecliff Sand Member - Sand
250m Study Area	Portsdown Chalk Formation - Chalk
Extent boxes 25K	Lewes Nodular, Seaford, Newhaven, Culver, Portsdown Chalk Formation
Water Recycling Plant and High Lift Pumping Station	Newhaven Chalk Formation
South Downs National Park Area	Spetsbury Chalk Member - Chalk
District boundary	Lambeth Group - Clay, Silt and Sand
Budds Farm Wastewater Treatment Works	Earmley Sand Formation - Sand, Silt, and Clay
Tunnel Buffer (Zone of Influence)	Seaford Chalk Formation - Chalk

**Bedrock Geology 1:50000**

Lambeth Group - Clay, Silt and Sand	Durnley Sand Member - Sand
Tarrant Chalk Member - Chalk	Lewes Nodular Chalk Formation - Chalk
London Clay Formation - Sand	Culver Chalk Formation - Chalk
London Clay Formation - Clay, Silt and Sand	Nursling Sand Member - Clay, Silt and Sand
Lambeth Group - Sand	Whitecliff Sand Member - Sand and Gravel
Bognor Sand Member - Sand	Portsmouth and Whitecliff Sand Member - Sand
Wittering Formation - Sand, Silt and Clay	
Wittering Formation - Sand	

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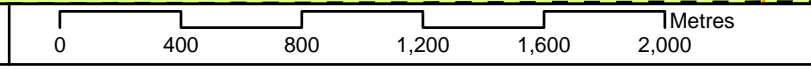
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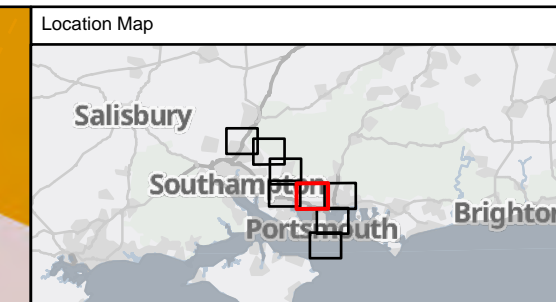
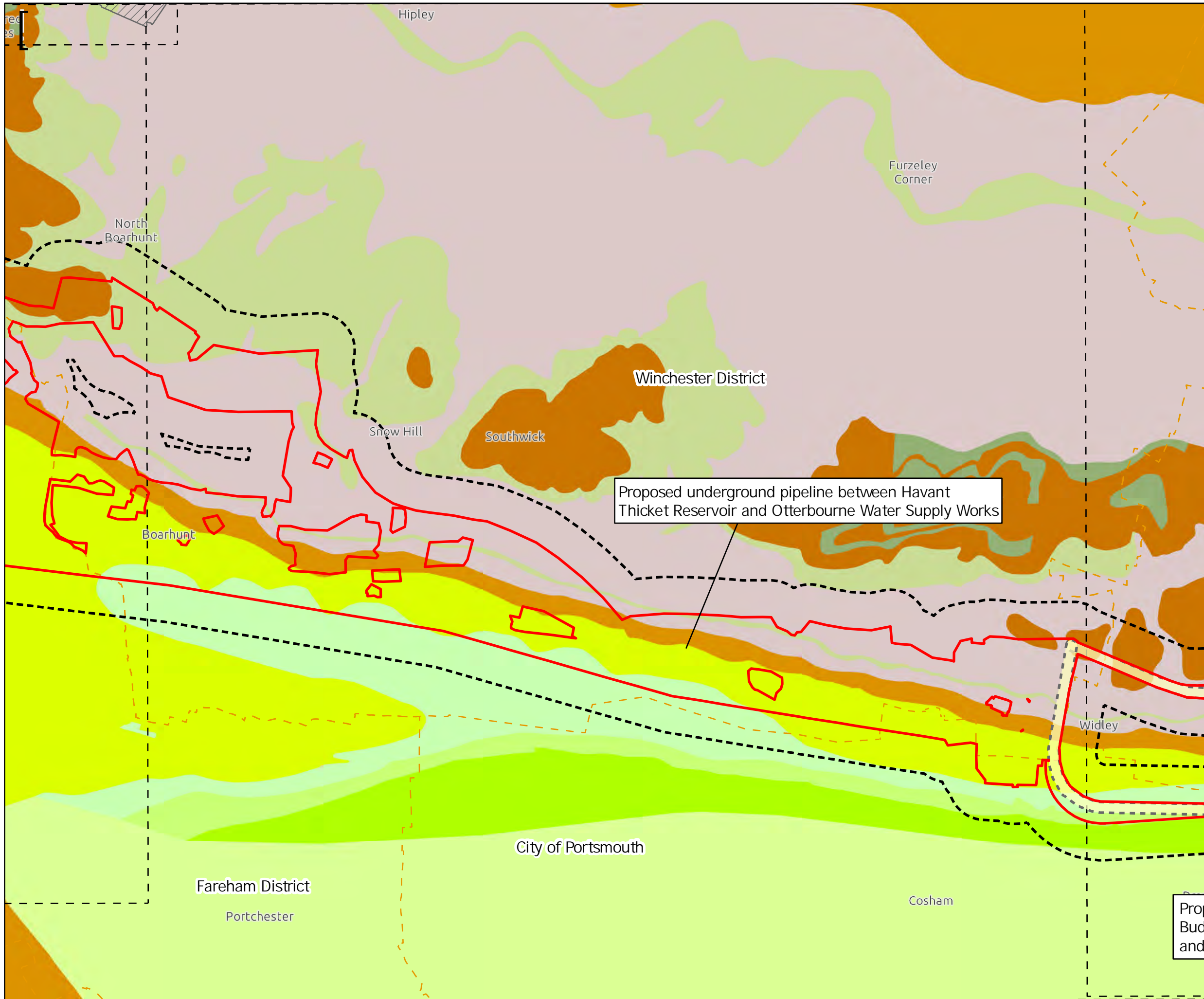
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**Title**  
 Figure 11.3  
 Bedrock Geology of the Study Area  
 Sheet 1 of 6

Designed	N/A	-	Check	DF	-
Drawn	MCP	-	Review	Core Team	-
GIS Check	GC	-	Approved	MP	-
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**Key to Symbols**

Scoping Area	Portsdown Chalk Formation - Chalk
250m Study Area	Lewes Nodular, Seaford, Newhaven, Culver, Portsdown Chalk Formation
Extent boxes 25K	Newhaven Chalk Formation
South Downs National Park Area	Spetsbury Chalk Member - Chalk
District boundary	Lambeth Group - Clay, Silt and Sand
Tunnel Buffer (Zone of Influence)	Eamley Sand Formation - Sand, Silt, and Clay
<b>Bedrock Geology 1:50000</b>	
Lambeth Group - Clay, Silt and Sand	Seaford Chalk Formation - Chalk
Tarrant Chalk Member - Chalk	Durnley Sand Member - Sand
London Clay Formation - Sand, Silt and Sand	Lewes Nodular Chalk Formation - Chalk
London Clay Formation - Clay, Silt and Sand	Culver Chalk Formation - Chalk
Lambeth Group - Sand	Nursling Sand Member - Clay, Silt and Sand
Bognor Sand Member - Sand	Whitecliff Sand Member - Sand and Gravel
Wittering Formation - Sand, Silt and Clay	Portsmouth and Whitecliff Sand Member - Sand
Wittering Formation - Sand	
Whitecliff Sand Member - Sand	

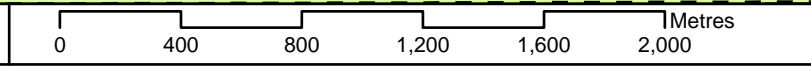
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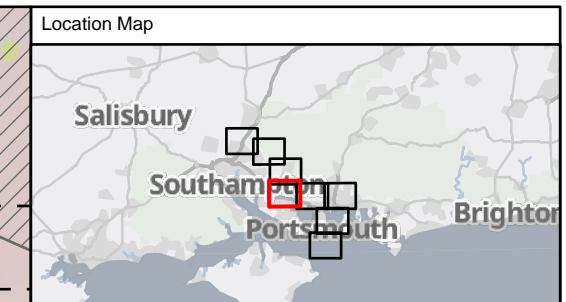
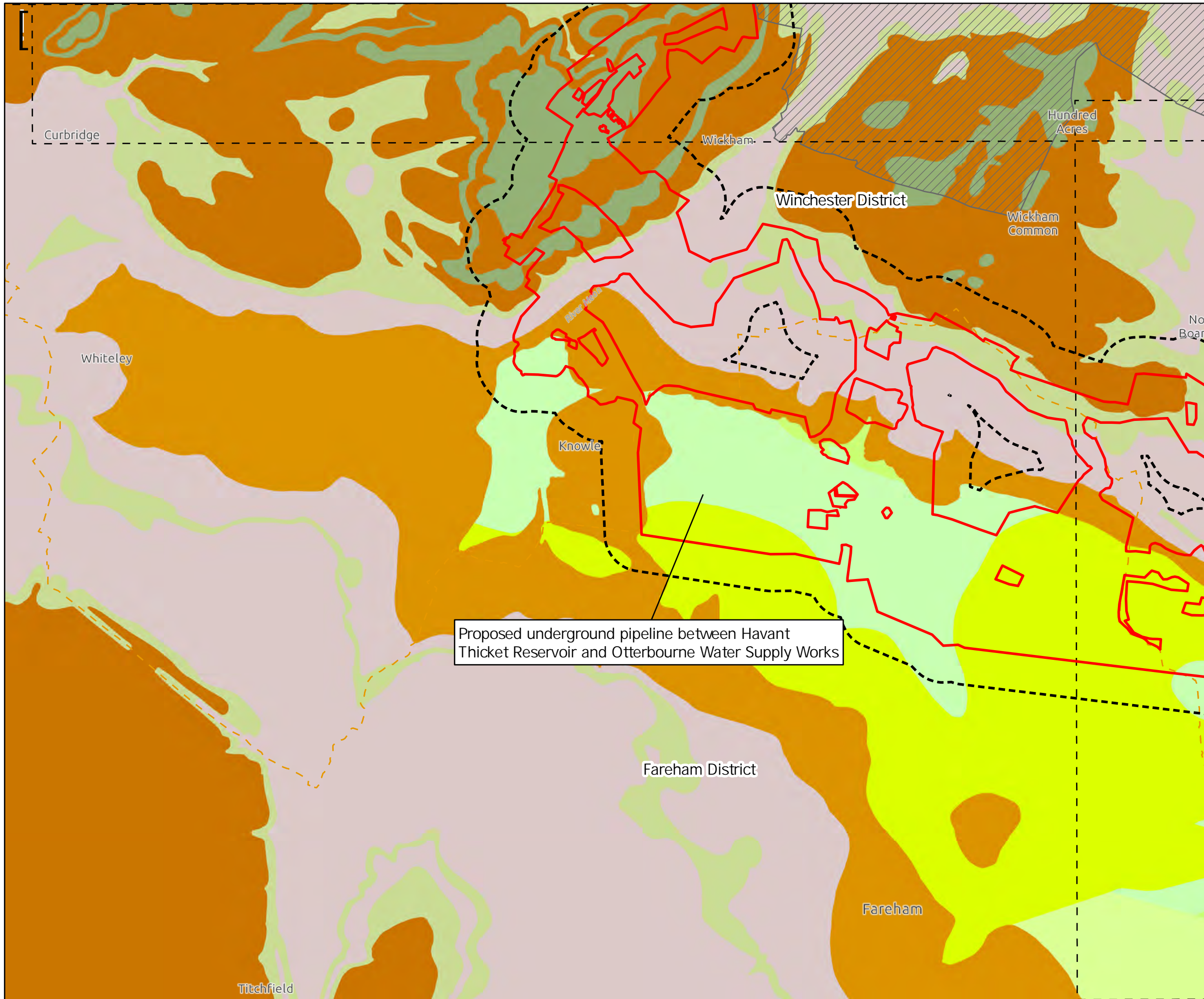
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**Title**  
 Figure 11.3  
 Bedrock Geology of the Study Area  
 Sheet 2 of 6

Designed	N/A	-	Check	DF	-
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GIS Check	GC	-	Approved	MP	-
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Key to Symbols

Scoping Area	Lewes Nodular, Seaford, Newhaven, Culver, Portsdown Chalk Formation
250m Study Area	Newhaven Chalk Formation
Extent boxes 25K	Spetsbury Chalk Member - Chalk
South Downs National Park Area	Lambeth Group - Clay, Silt and Sand
District boundary	Eamley Sand Formation - Sand, Silt, and Clay
<b>Bedrock Geology 1:50000</b>	
Lambeth Group - Clay, Silt and Sand	Seaforth Chalk Formation - Chalk
Tarrant Chalk Member - Chalk	Durnley Sand Member - Sand
London Clay Formation - Sand	Lewes Nodular Chalk Formation - Chalk
London Clay Formation - Clay, Silt and Sand	Culver Chalk Formation - Chalk
Lambeth Group - Sand	Nursling Sand Member - Clay, Silt and Sand
Bognor Sand Member - Sand	Whitecliff Sand Member - Sand and Gravel
Wittering Formation - Sand, Silt and Clay	Portsmouth and Whitecliff Sand Member - Sand
Wittering Formation - Sand	
Whitecliff Sand Member - Sand	
Portsdown Chalk Formation - Chalk	

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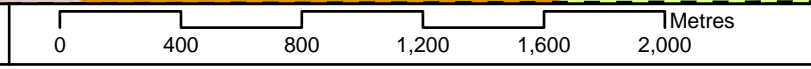
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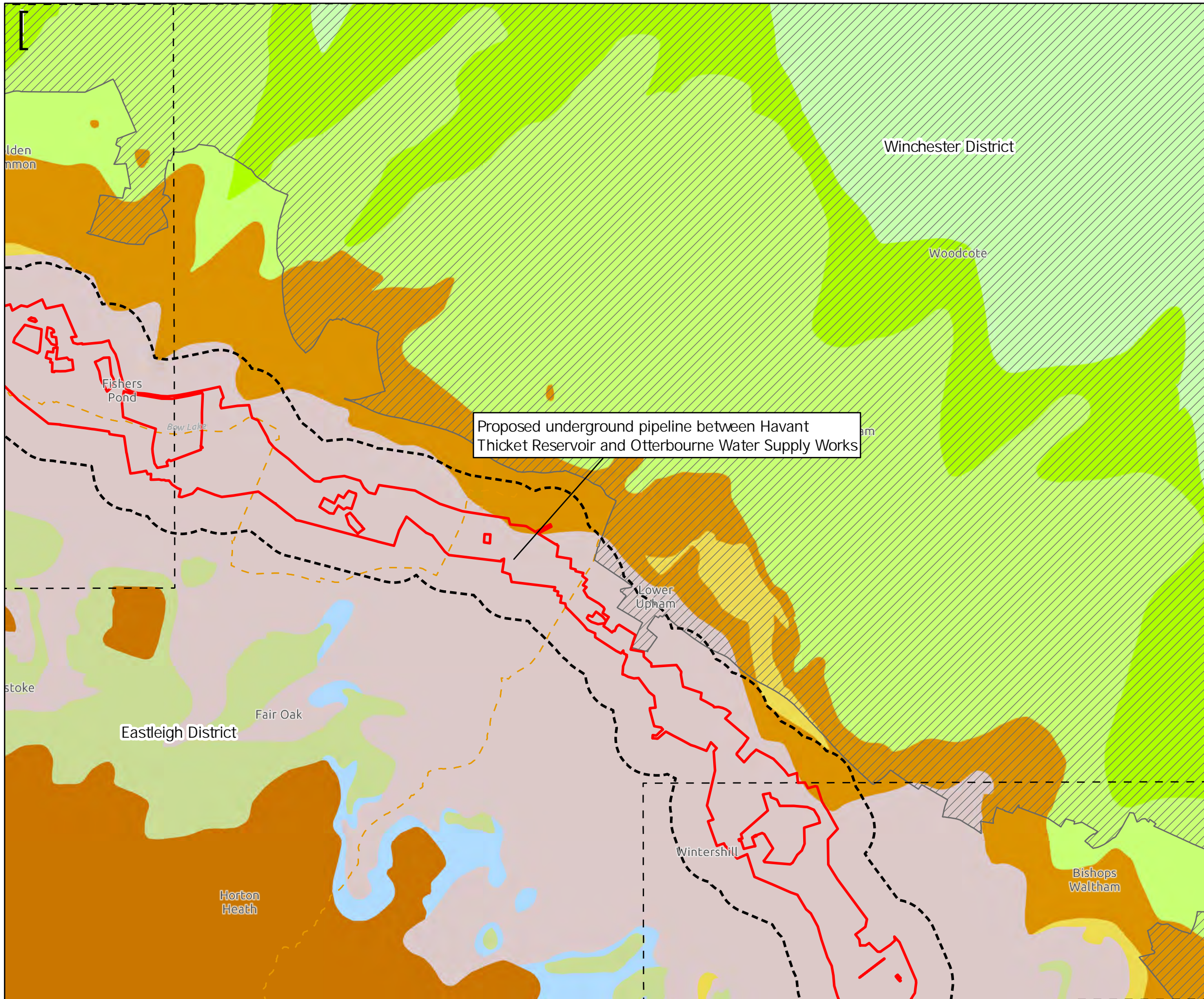
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Figure 11.3  
Bedrock Geology of the Study Area  
Sheet 3 of 6

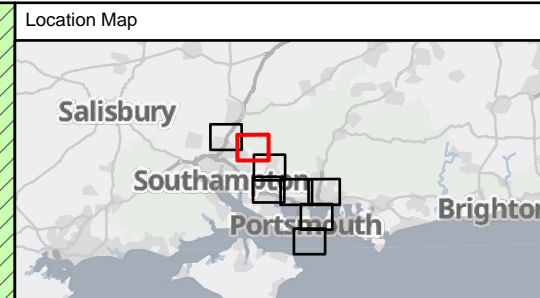
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Scoping Area	Lewes Nodular, Seaford, Newhaven, Culver, Portsdown Chalk Formation
250m Study Area	Newhaven Chalk Formation
Extent boxes 25K	Spetsbury Chalk Member - Chalk
South Downs National Park Area	Lambeth Group - Clay, Silt and Sand
District boundary	Earning Sand Formation - Sand, Silt, and Clay
<b>Bedrock Geology 1:50000</b>	
Lambeth Group - Clay, Silt and Sand	Seaford Chalk Formation - Chalk
Tarrant Chalk Member - Chalk	Durnley Sand Member - Sand
London Clay Formation - Sand, Silt and Sand	Lewes Nodular Chalk Formation - Chalk
Lambeth Group - Sand	Culver Chalk Formation - Chalk
Bognor Sand Member - Sand	Nursling Sand Member - Clay, Silt and Sand
Wittering Formation - Sand, Silt and Clay	Whitecliff Sand Member - Sand and Gravel
Wittering Formation - Sand	Portsmouth and Whitecliff Sand Member - Sand
Whitecliff Sand Member - Sand	
Portsdown Chalk Formation - Chalk	

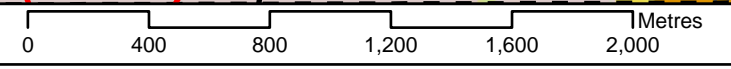
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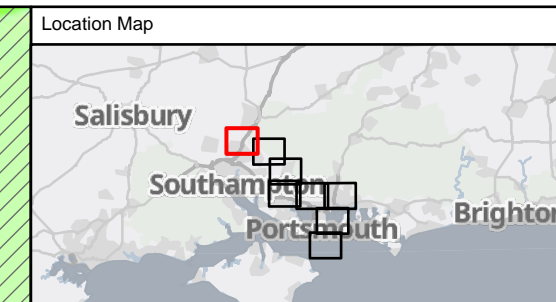
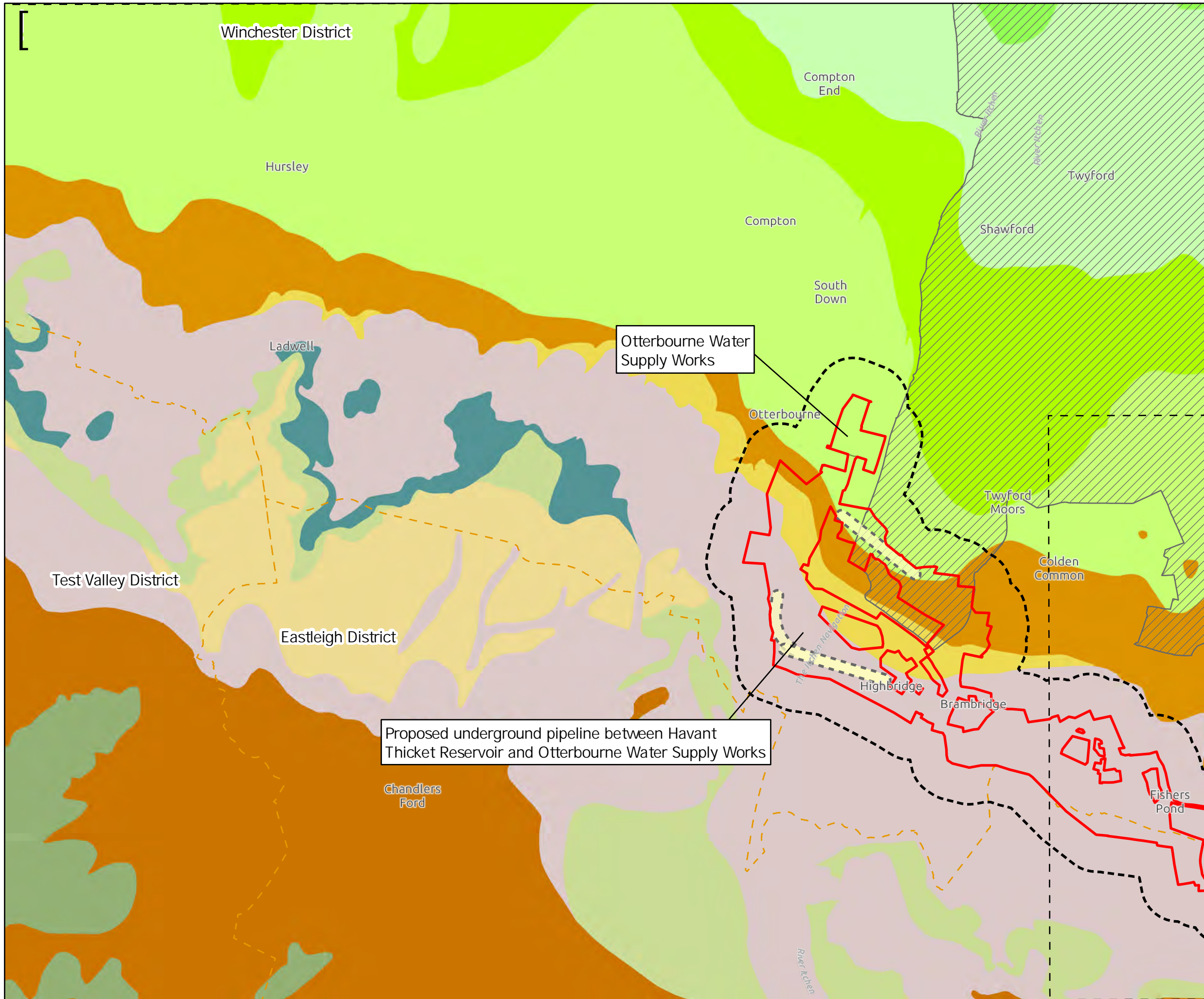


**Title**  
 Figure 11.3  
 Bedrock Geology of the Study Area  
 Sheet 5 of 6

Designed	N/A	-	Check	DF	-
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**Key to Symbols**

Scoping Area	Portsdown Chalk Formation - Chalk
250m Study Area	Lewes Nodular, Seaford, Newhaven, Culver, Portsdown Chalk Formation
Extent boxes 25K	Newhaven Chalk Formation
South Downs National Park Area	Spetsisbury Chalk Member - Chalk
District boundary	Lambeth Group - Clay, Silt and Sand
Otterbourne Water Supply Works	Earnley Sand Formation - Sand, Silt, and Clay
Tunnel Buffer (Zone of Influence)	Seaford Chalk Formation - Chalk

**Bedrock Geology 1:50000**

Lambeth Group - Clay, Silt and Sand	Durnley Sand Member - Sand
Tarrant Chalk Member - Chalk	Lewes Nodular Chalk Formation - Chalk
London Clay Formation - Sand	Culver Chalk Formation - Chalk
London Clay Formation - Clay, Silt and Sand	Nursling Sand Member - Clay, Silt and Sand
Lambeth Group - Sand	Whitecliff Sand Member - Sand and Gravel
Bognor Sand Member - Sand	Portsmouth and Whitecliff Sand Member - Sand
Wittering Formation - Sand, Silt and Clay	
Wittering Formation - Sand	
Whitecliff Sand Member - Sand	

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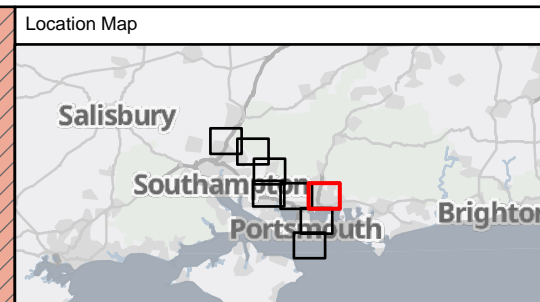
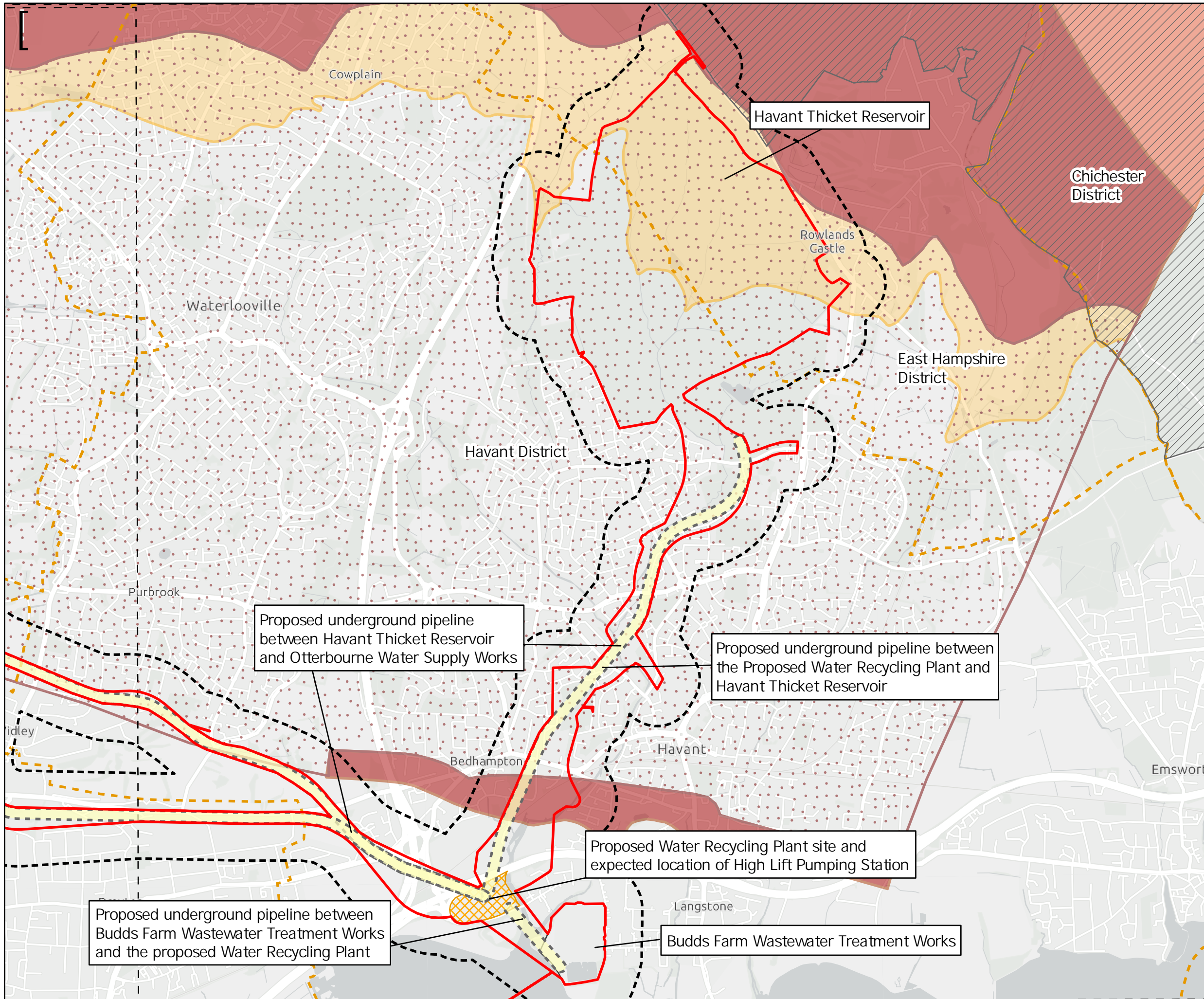


**Title**  
 Figure 11.3  
 Bedrock Geology of the Study Area  
 Sheet 6 of 6

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Key to Symbols

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- District boundary

Source Protection Zones

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3
- Zone 4

Notes

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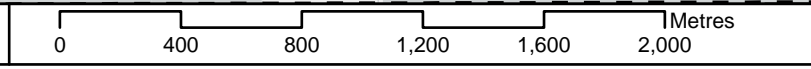
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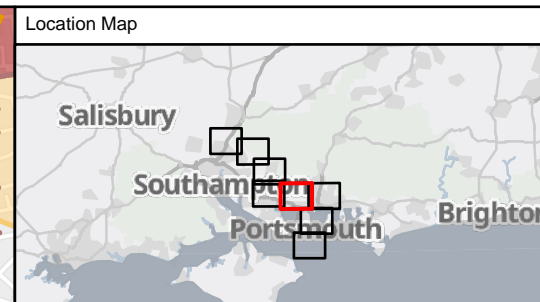
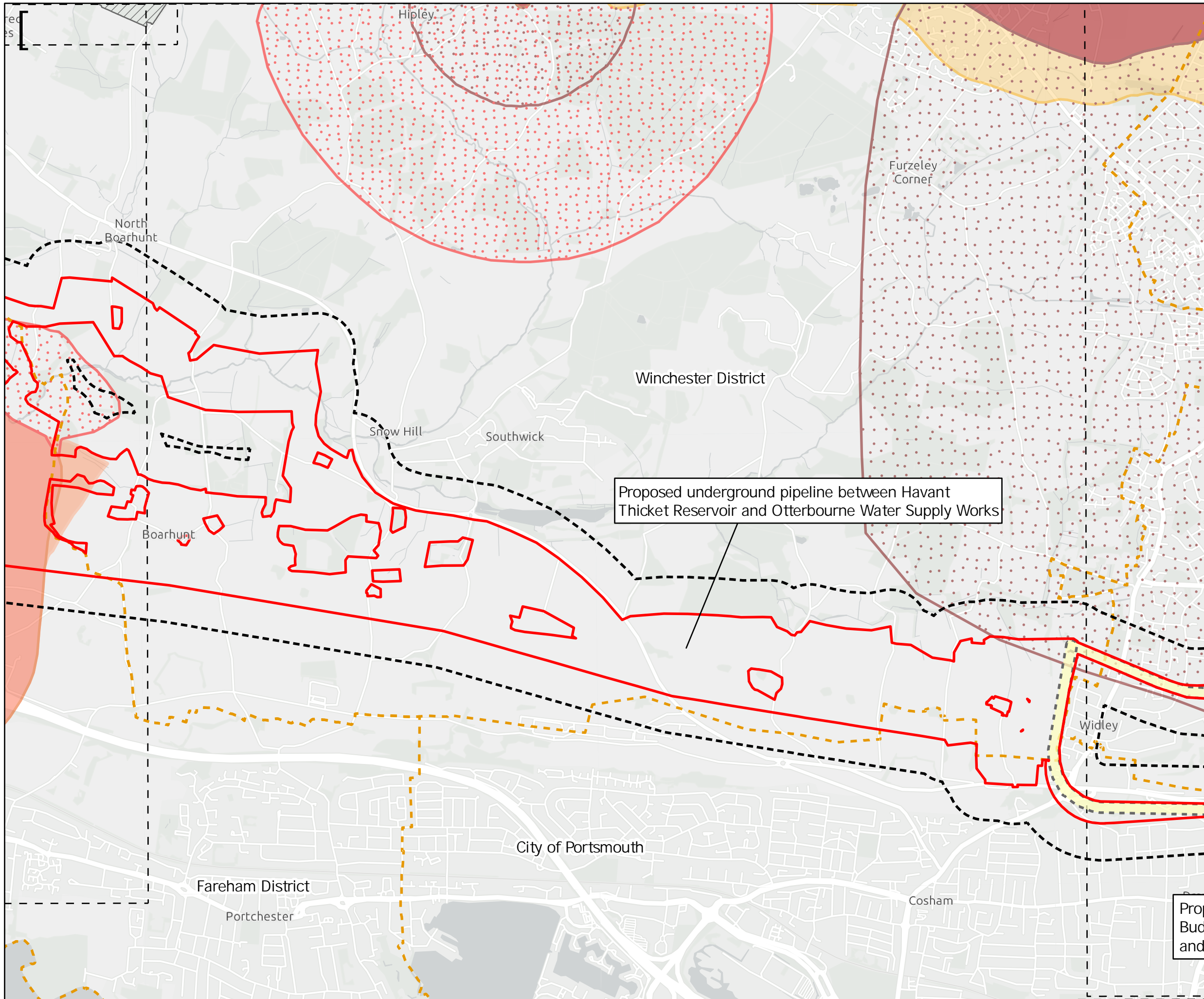
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Title

**Figure 11.4**  
**Source Protection Zones Located within the Study Area**  
 Sheet 1 of 6

Designed	N/A	-	Check	DF	-
Drawn	MCP	-	Review	Core Team	-
GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	INF	Rev	02	Security
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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- District boundary

**Source Protection Zones**

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3
- Zone 4

Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works

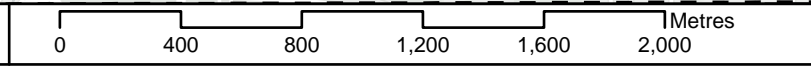
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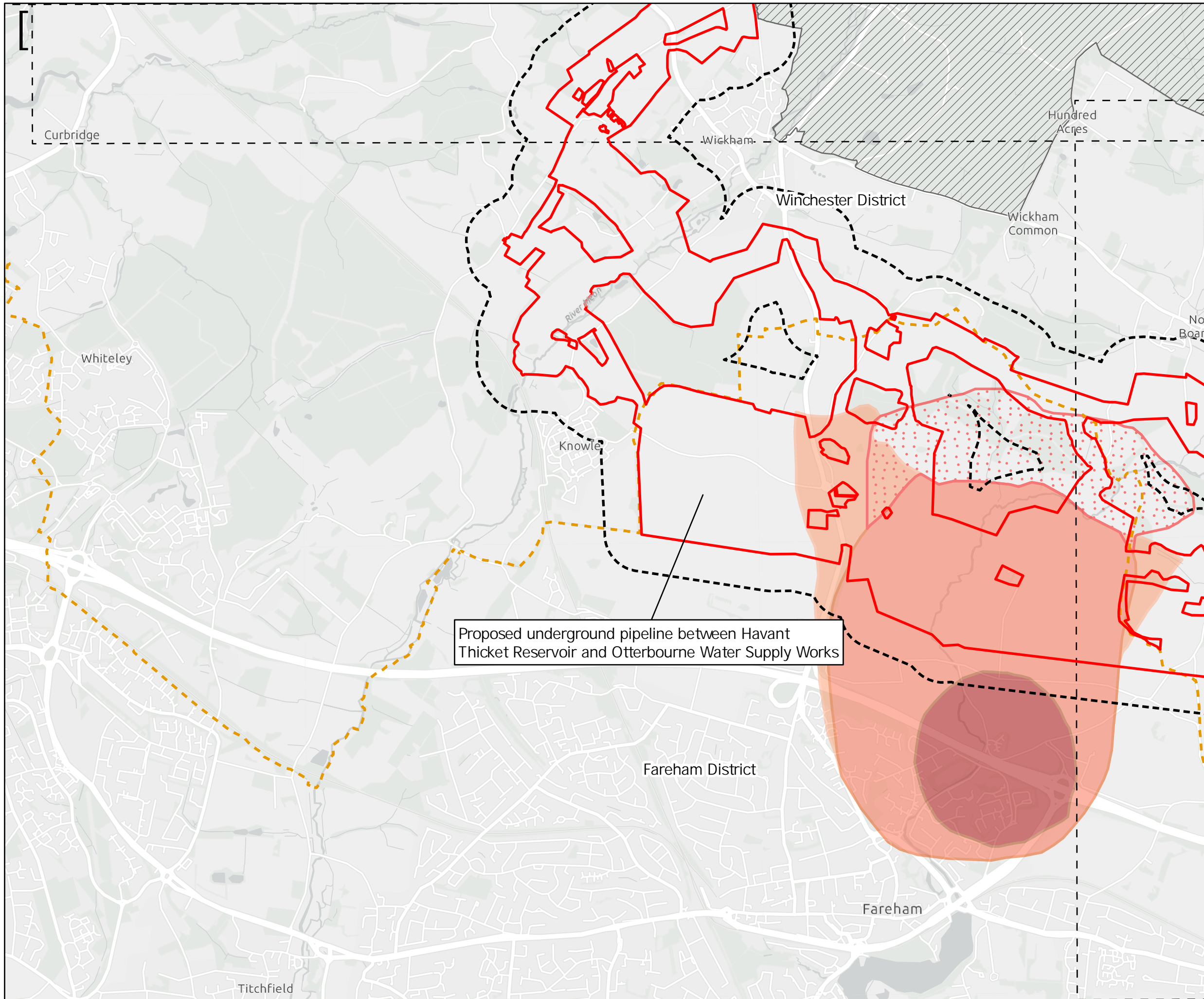
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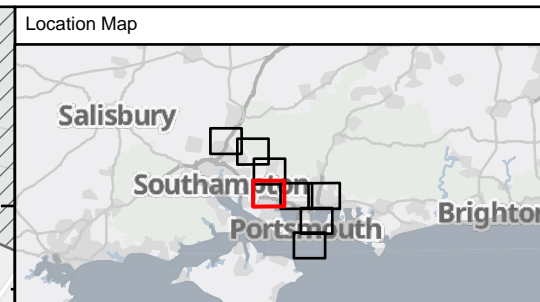
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 Source Protection Zones Located within the Study Area  
 Sheet 2 of 6

Designed	N/A	-	Check	DF	-
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GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	INF	Rev	02	Security
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- District boundary

**Source Protection Zones**

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3
- Zone 4

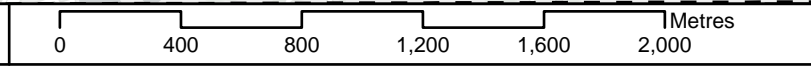
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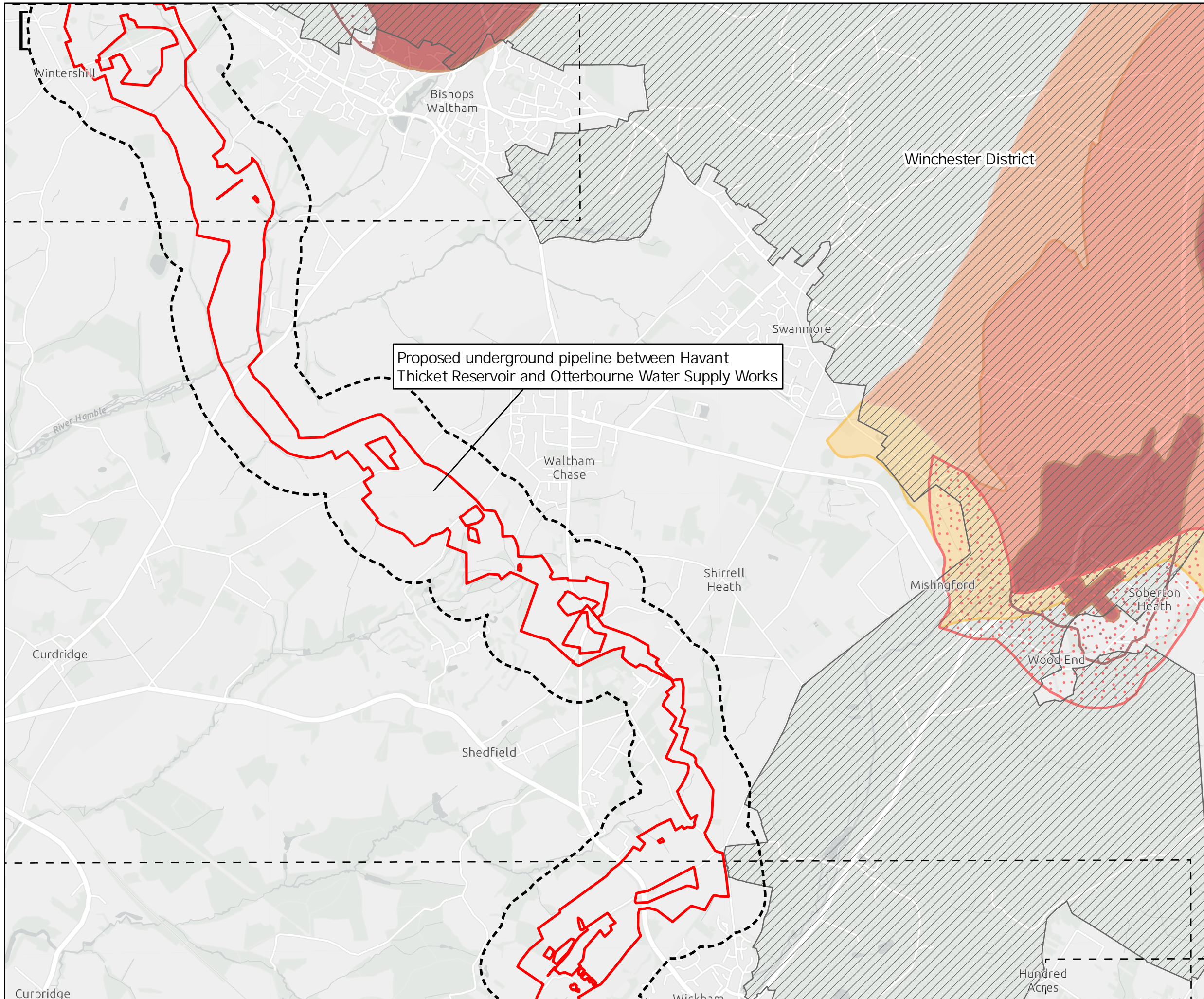
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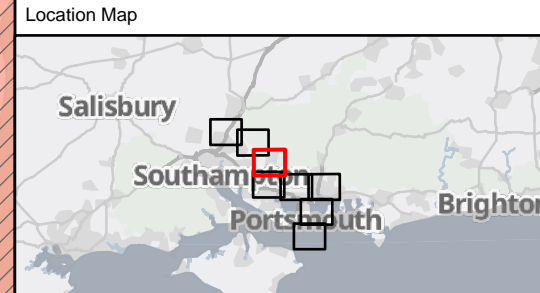
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 Source Protection Zones Located within the Study Area  
 Sheet 3 of 6

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					STD





Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- District boundary

**Source Protection Zones**

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3
- Zone 4

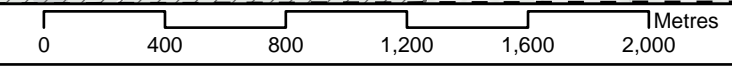
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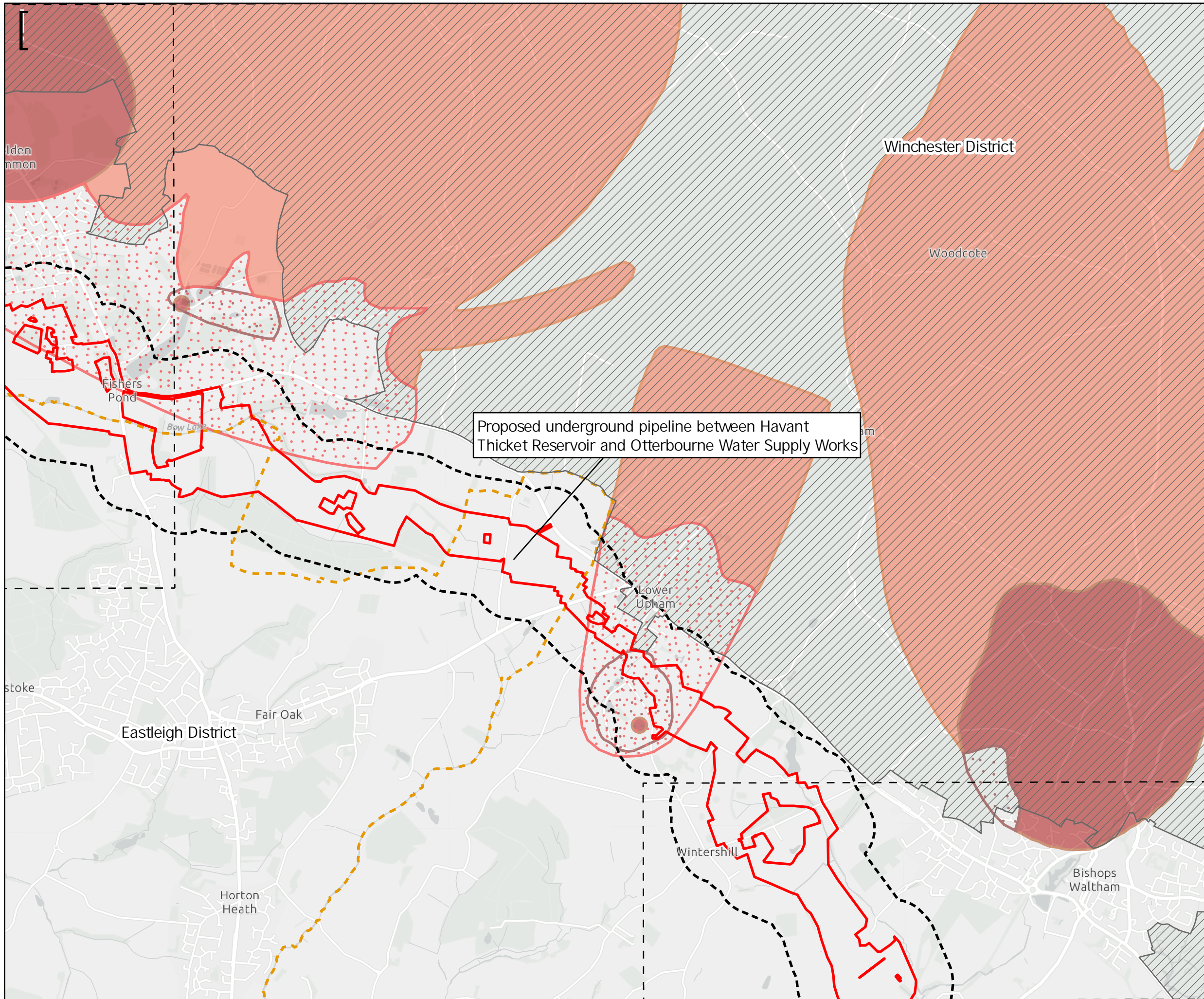


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 Source Protection Zones Located within the Study Area  
 Sheet 4 of 6

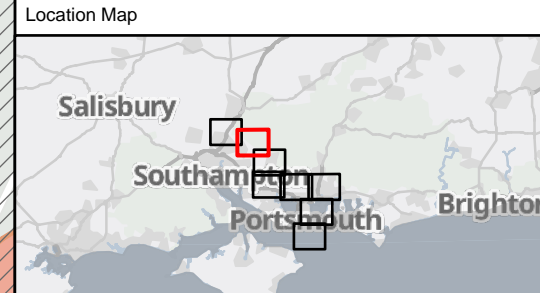
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- District boundary

**Source Protection Zones**

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3
- Zone 4

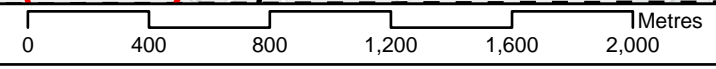
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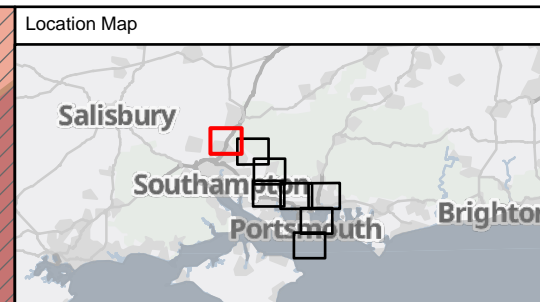
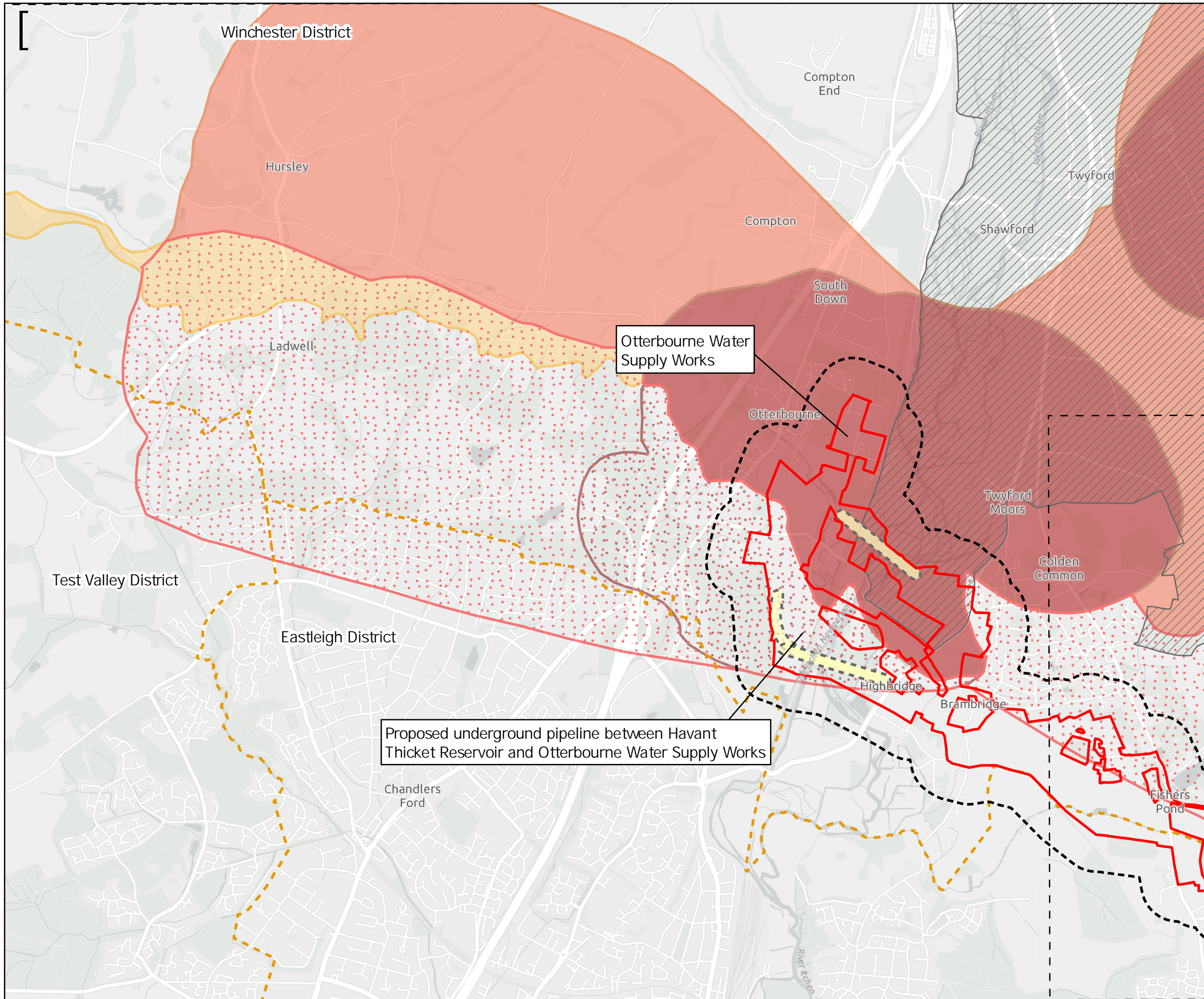
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**Title**  
 Figure 11.4  
 Source Protection Zones Located within the Study Area  
 Sheet 5 of 6

Designed	N/A	-	Check	DF	-
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Key to Symbols

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- District boundary

Source Protection Zones

- Zone 1
- Zone 1c
- Zone 2
- Zone 2c
- Zone 3
- Zone 4

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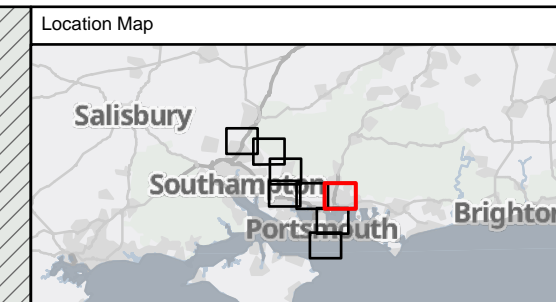
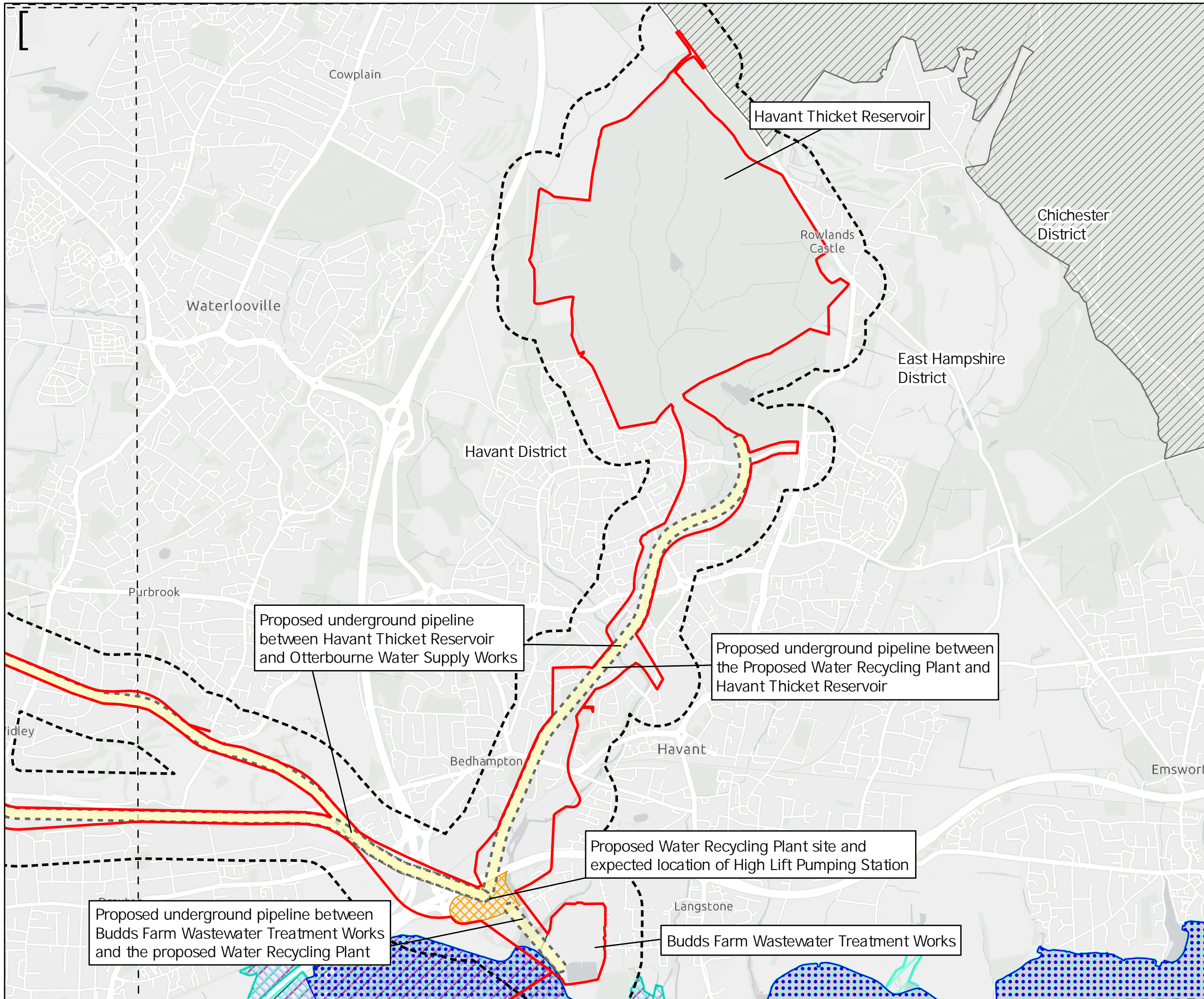
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Title

Figure 11.4  
Source Protection Zones Located within the Study Area  
Sheet 6 of 6

Designed	N/A	-	Check	DF	-
Drawn	MCP	-	Review	Core Team	-
GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	INF	Rev	02	Security
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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- Water Recycling Plant and High Lift Pumping Station
- Budds Farm Wastewater Treatment Works

**Designated Sites**

- Ramsar Sites
- National Nature Reserve (NNR)
- Geological SSSI (Downend Pit)
- Sites of Special Scientific Interest (SSSI)
- Special Areas of Conservation (SAC)
- Special Protection Area (SPA)

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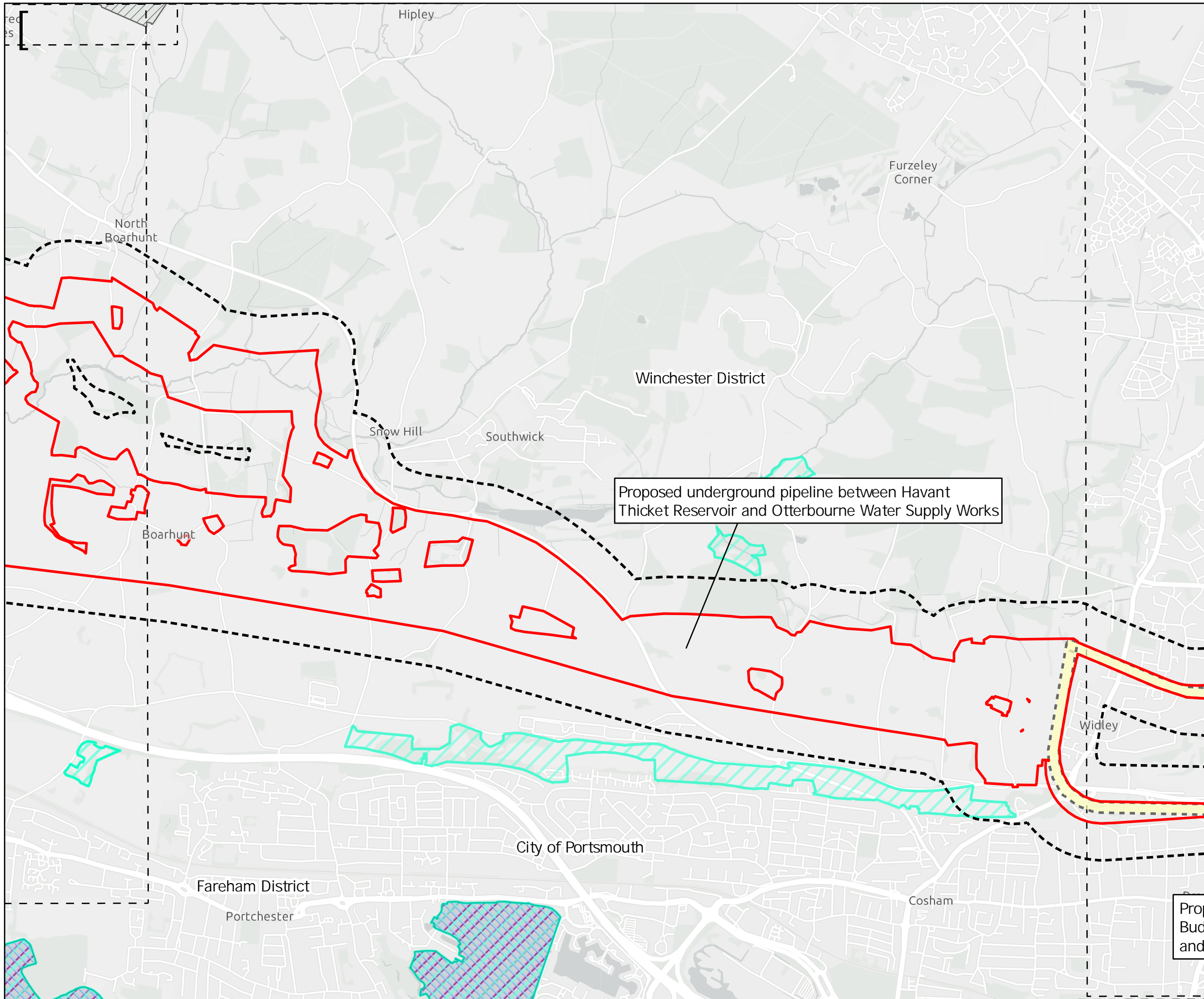
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**Title**  
 Figure 11.5  
 Environmentally Sensitive Areas within  
 250m of the Study Area  
 Sheet 1 of 6

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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- Ramsar Sites
- National Nature Reserve (NNR)
- Geological SSSI (Downend Pit)
- Sites of Special Scientific Interest (SSSI)
- Special Areas of Conservation (SAC)
- Special Protection Area (SPA)

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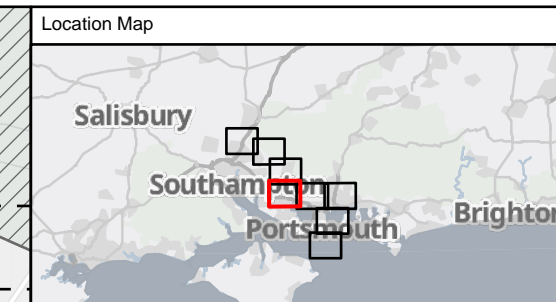
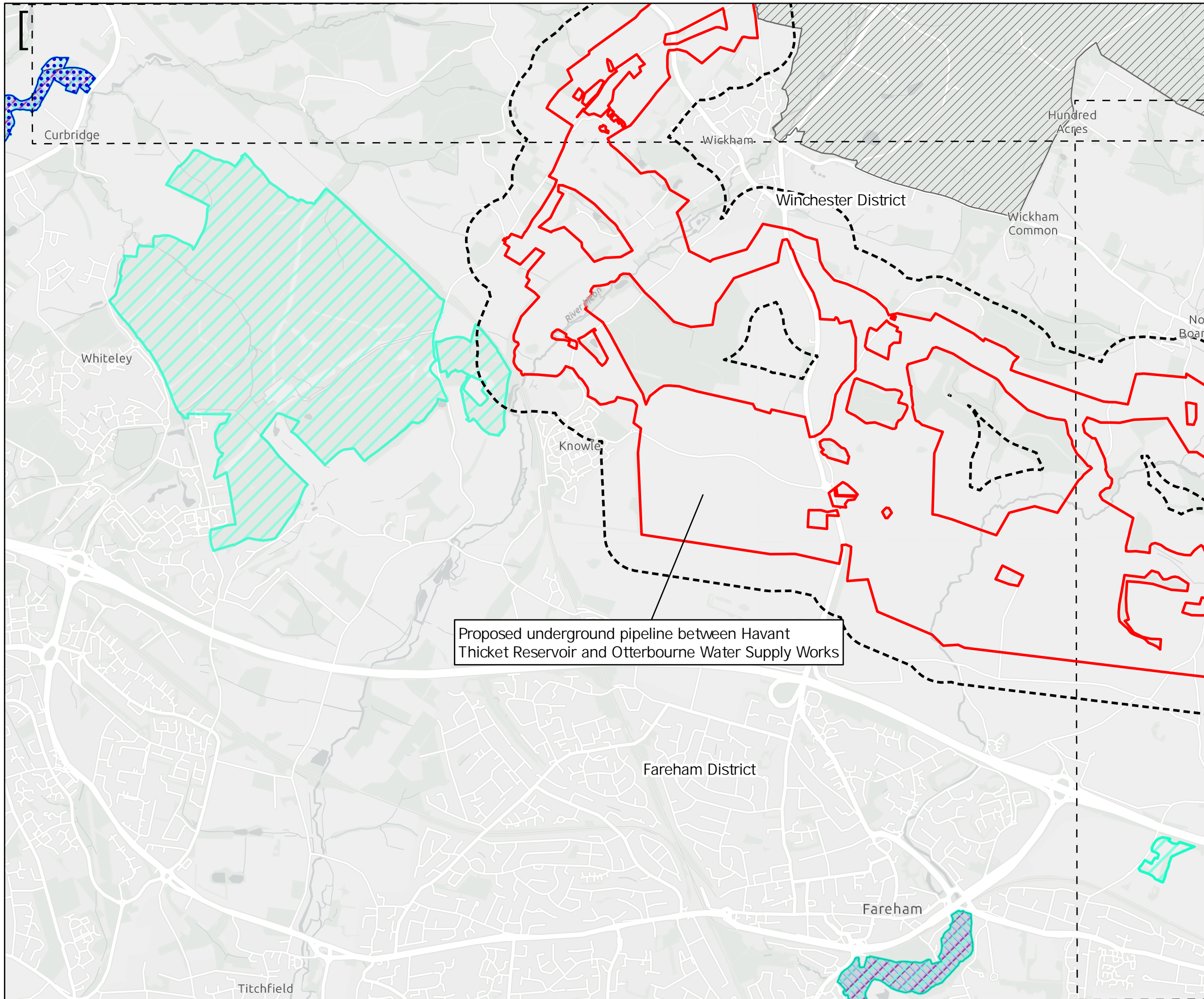
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 Figure 11.5  
 Environmentally Sensitive Areas within  
 250m of the Study Area  
 Sheet 2 of 6

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GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	INF	Rev	02	Security
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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- Ramsar Sites
- National Nature Reserve (NNR)
- Geological SSSI (Downend Pit)
- Sites of Special Scientific Interest (SSSI)
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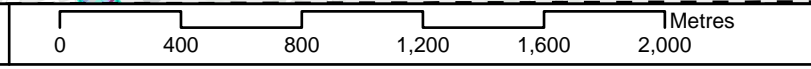
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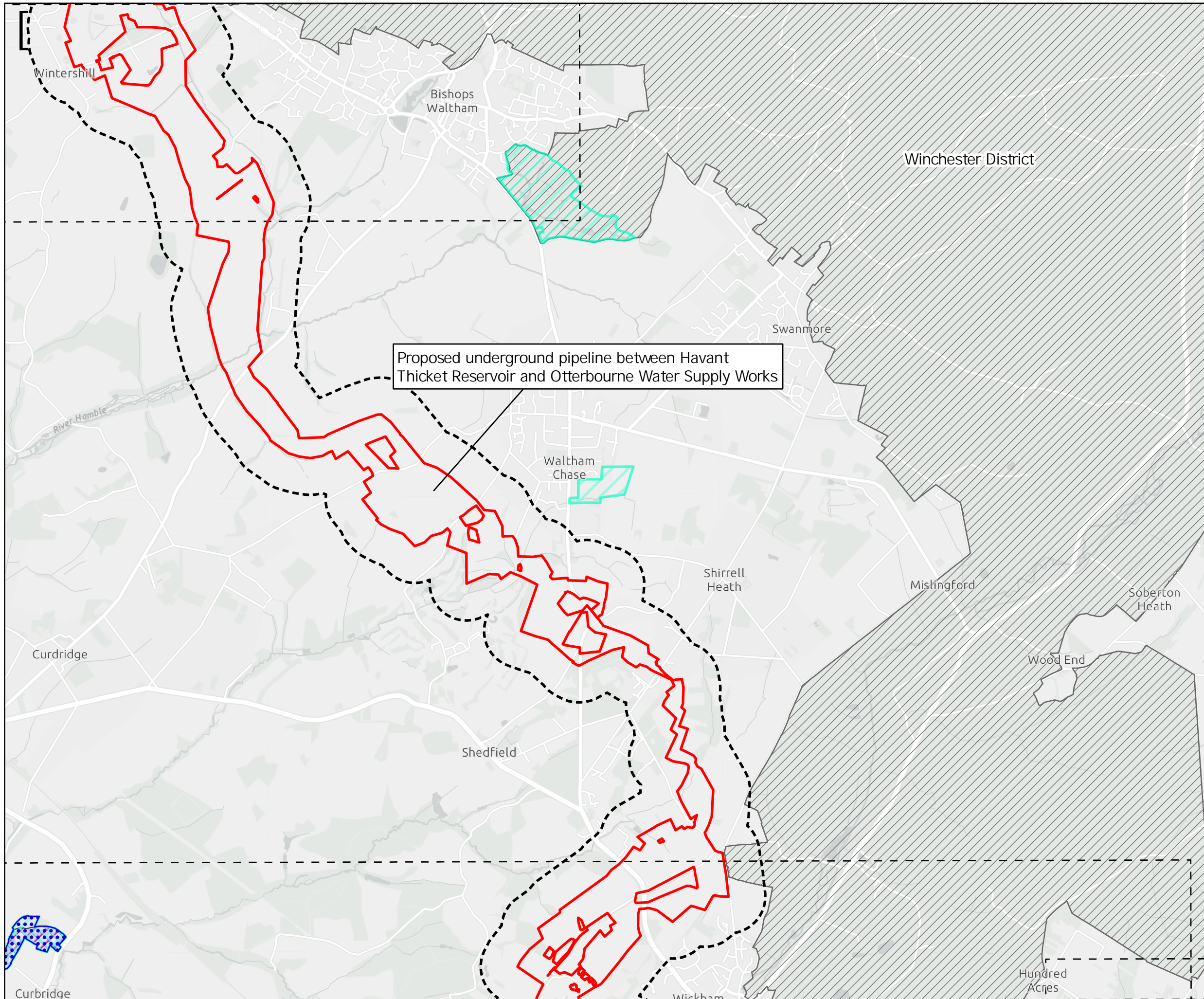
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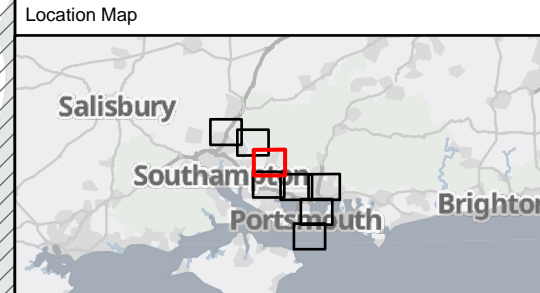
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 Figure 11.5  
 Environmentally Sensitive Areas within  
 250m of the Study Area  
 Sheet 3 of 6

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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- Ramsar Sites
- National Nature Reserve (NNR)
- Geological SSSI (Downend Pit)
- Sites of Special Scientific Interest (SSSI)
- Special Areas of Conservation (SAC)
- Special Protection Area (SPA)

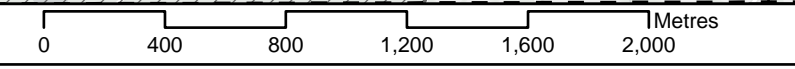
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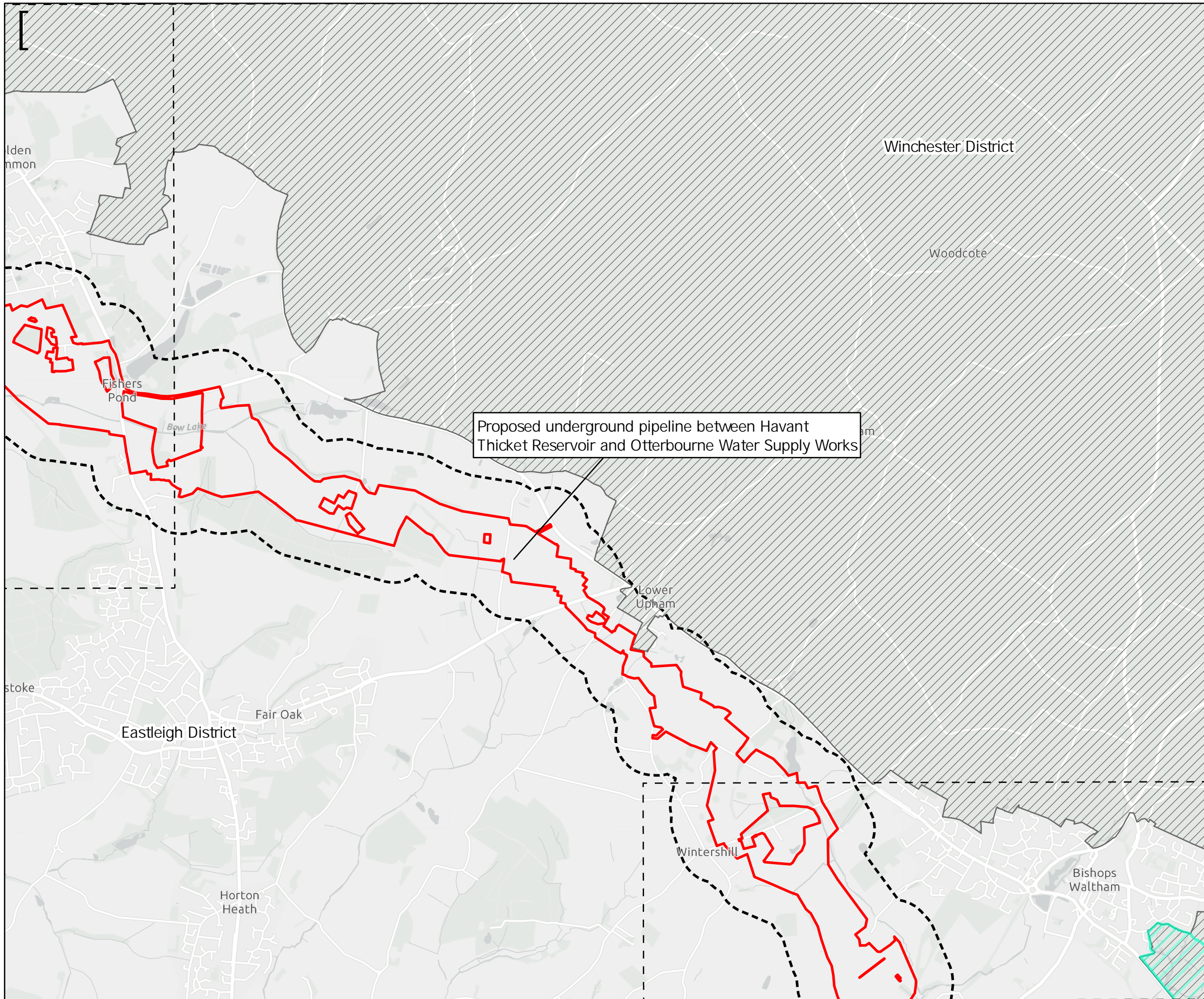
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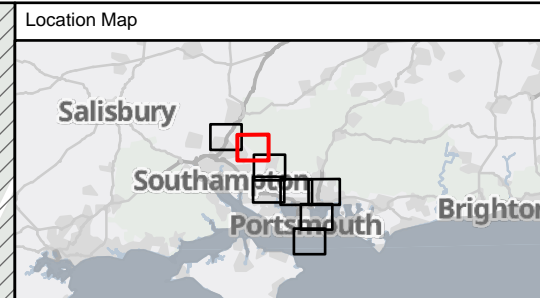
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 Environmentally Sensitive Areas within  
 250m of the Study Area  
 Sheet 4 of 6

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Scale at A3	Status	INF	Rev	02	Security
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- South Downs National Park Area
- Ramsar Sites
- National Nature Reserve (NNR)
- Geological SSSI (Downend Pit)
- Sites of Special Scientific Interest (SSSI)
- Special Areas of Conservation (SAC)
- Special Protection Area (SPA)

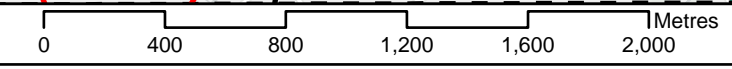
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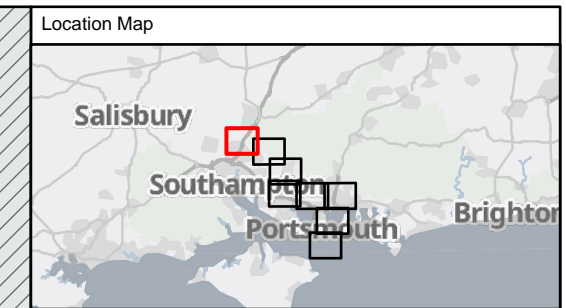
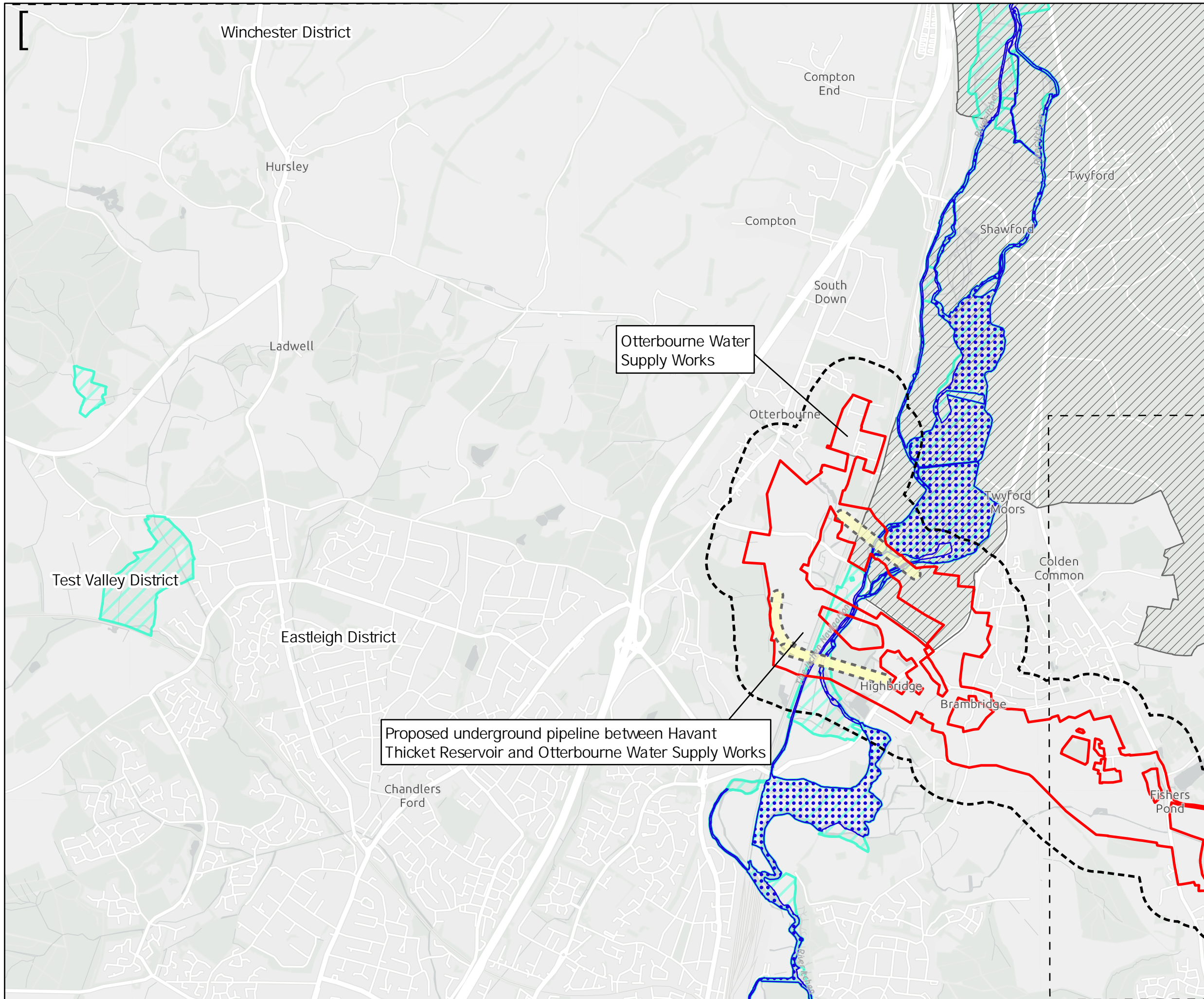
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 Figure 11.5  
 Environmentally Sensitive Areas within  
 250m of the Study Area  
 Sheet 5 of 6

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**Key to Symbols**

- Scoping Area
- 250m Study Area
- Extent boxes 25K
- Tunnel Buffer (Zone of Influence)
- South Downs National Park Area
- Otterbourne Water Supply Works

**Designated Sites**

- Ramsar Sites
- National Nature Reserve (NNR)
- Geological SSSI (Downend Pit)
- Sites of Special Scientific Interest (SSSI)
- Special Areas of Conservation (SAC)
- Special Protection Area (SPA)

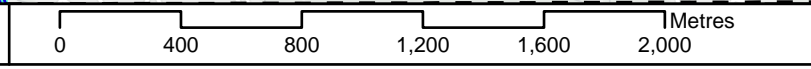
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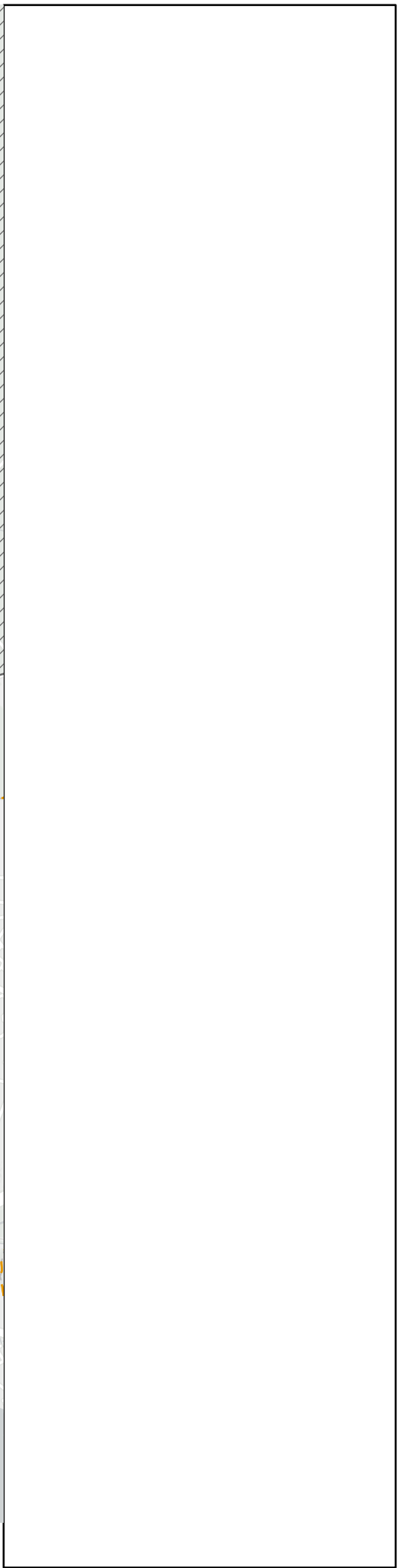
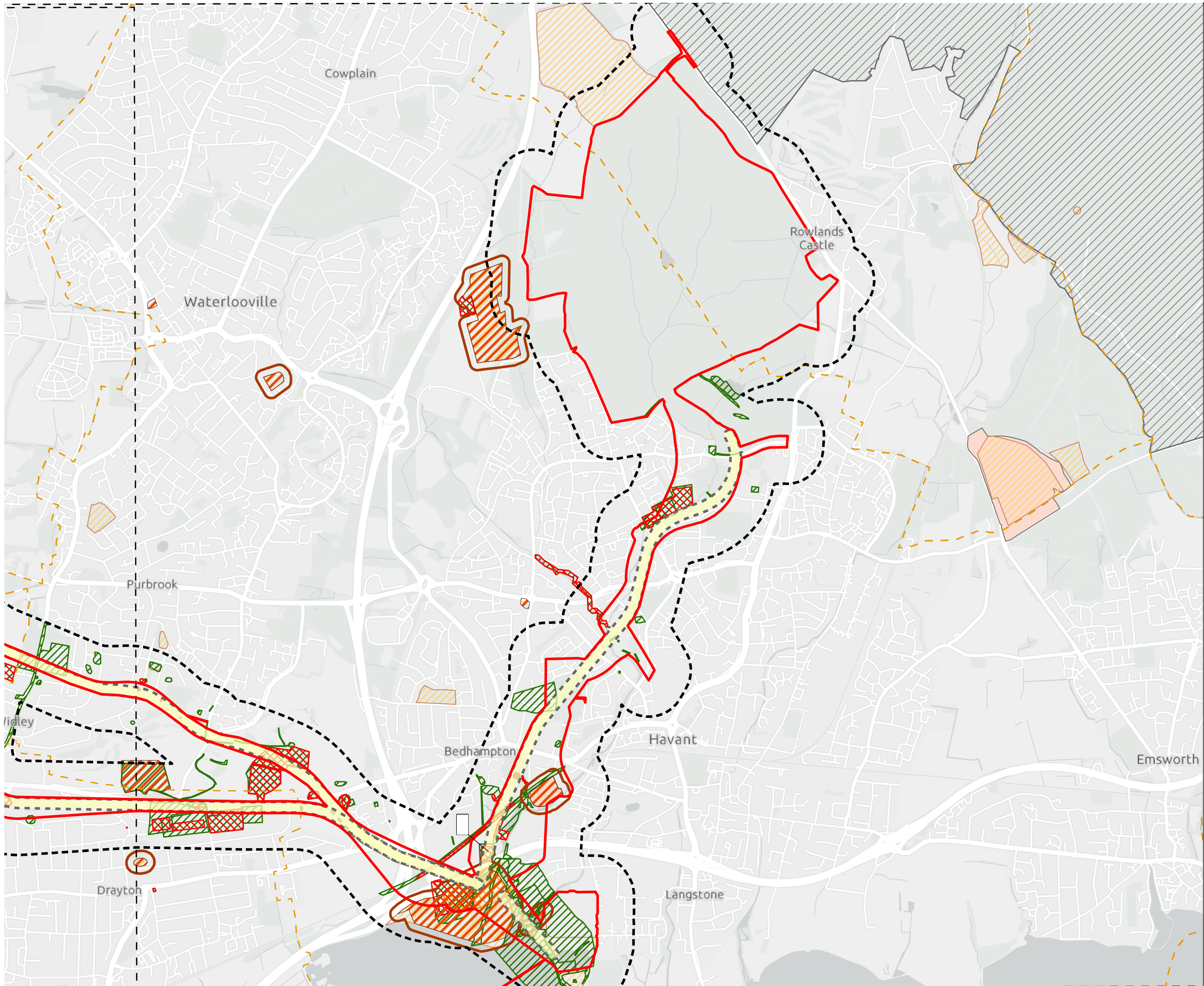
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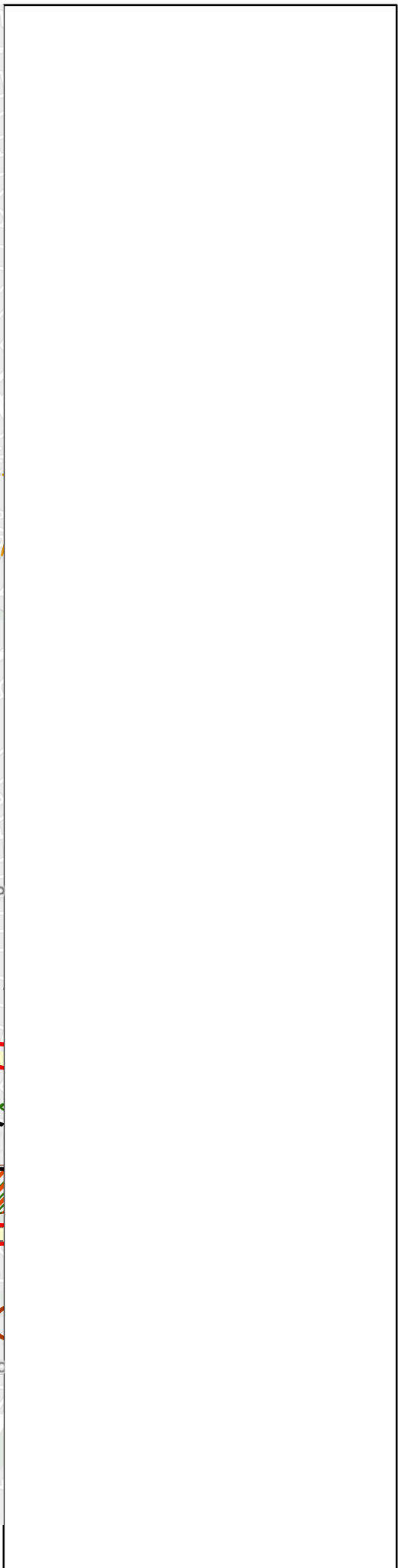
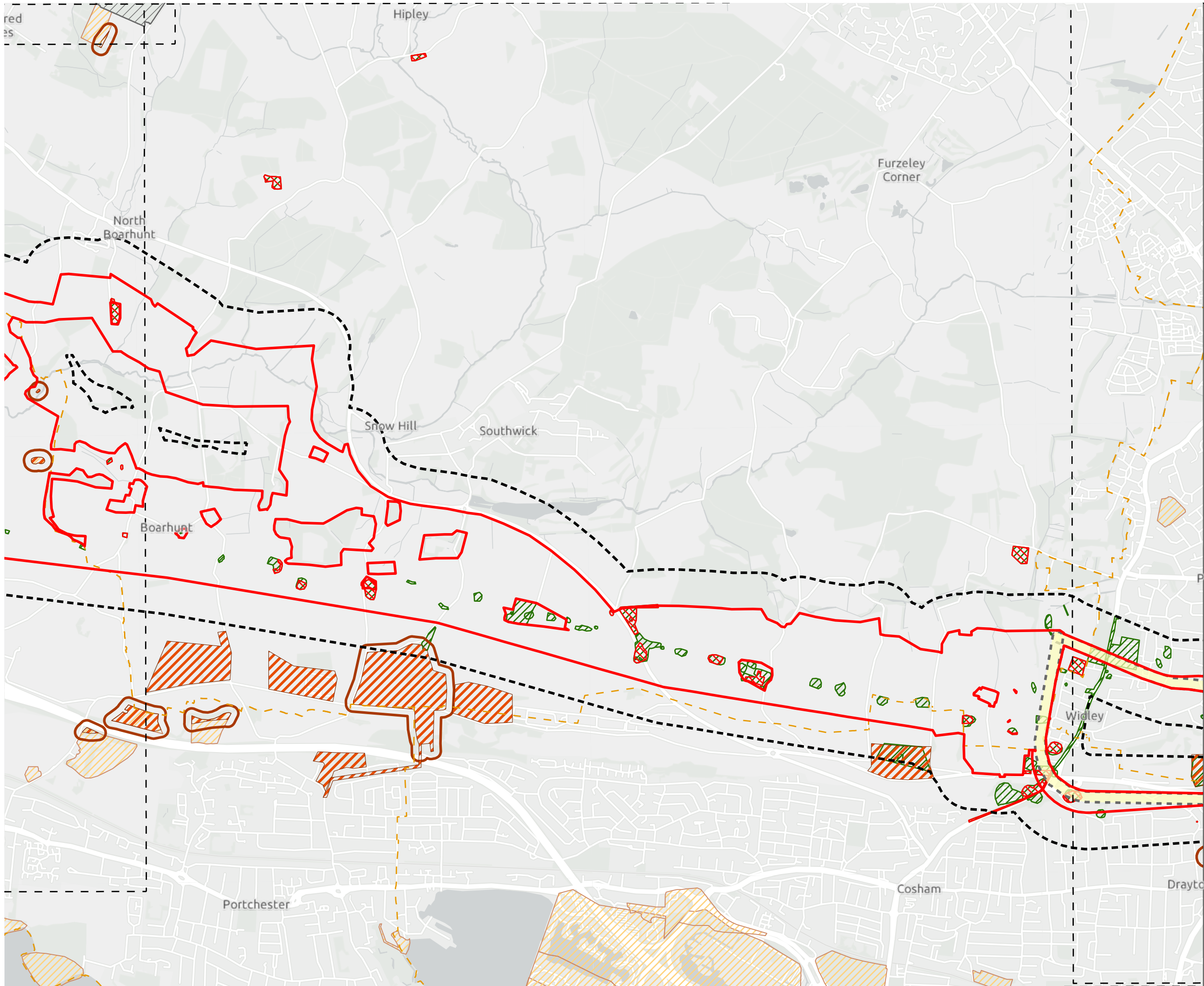
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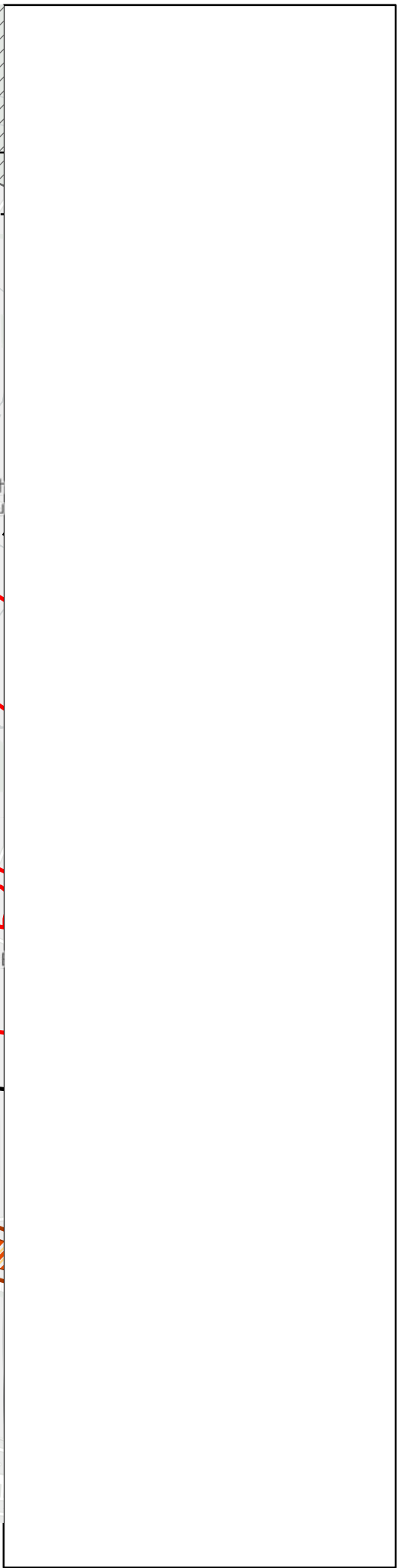
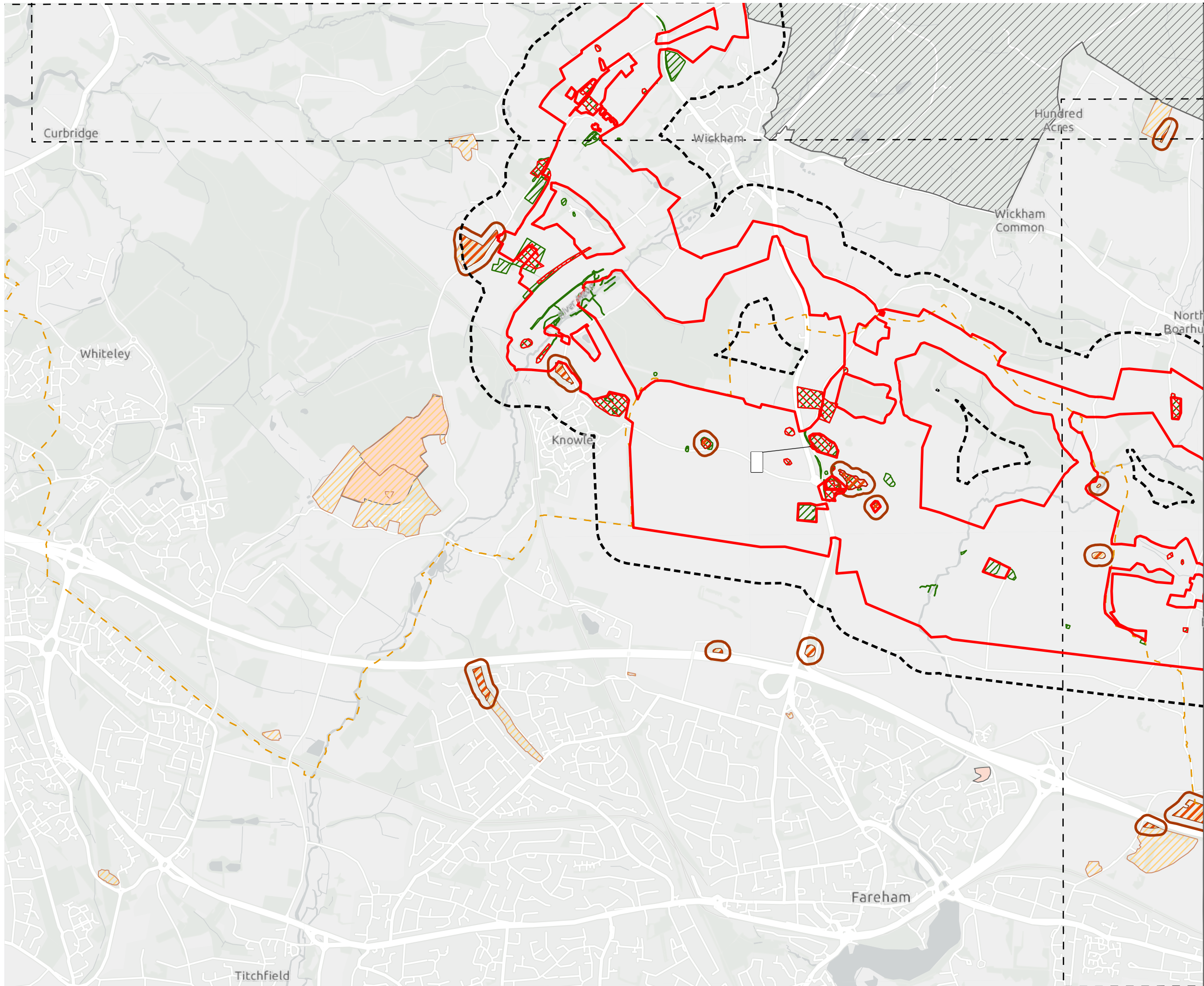
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 Environmentally Sensitive Areas within  
 250m of the Study Area  
 Sheet 6 of 6

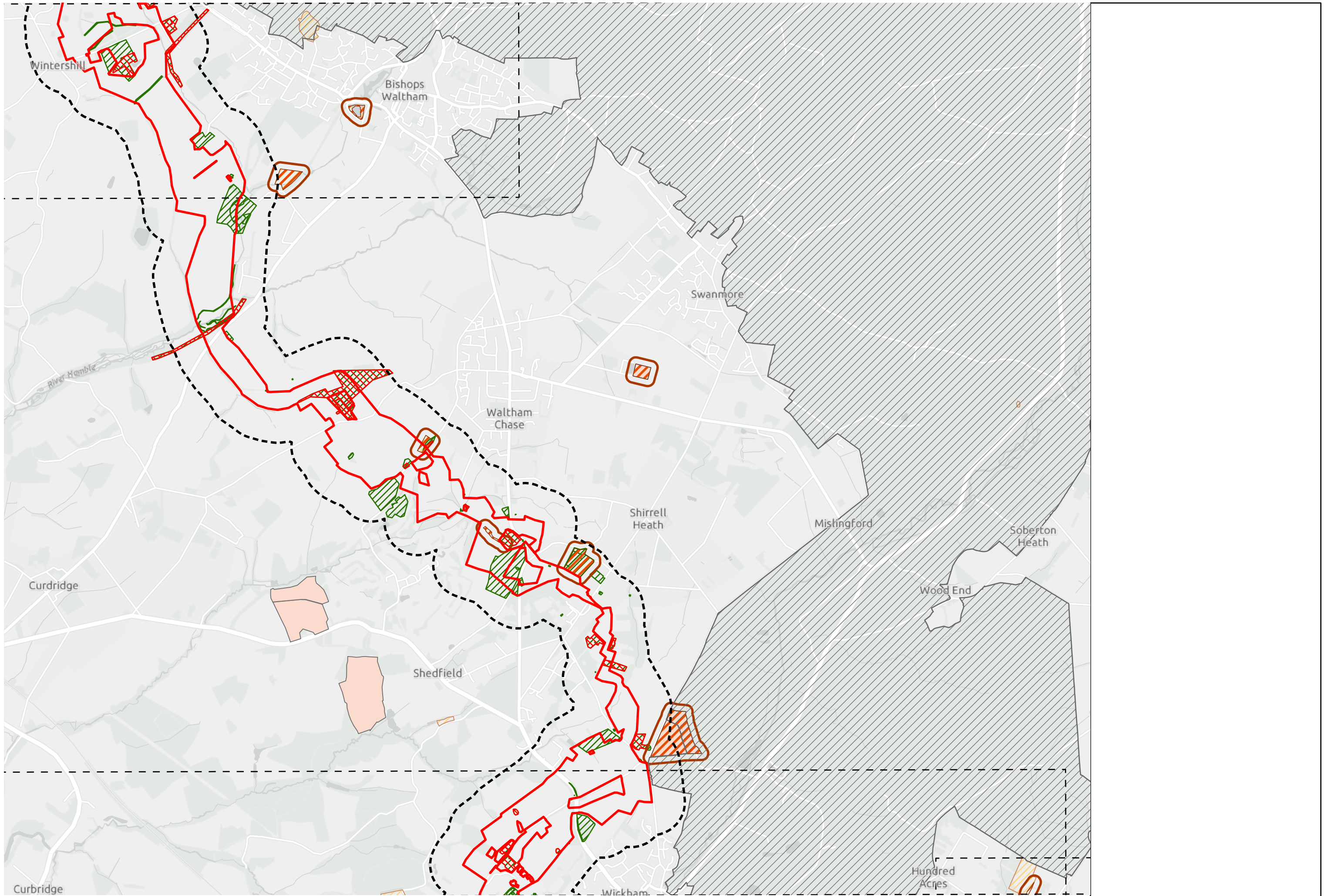
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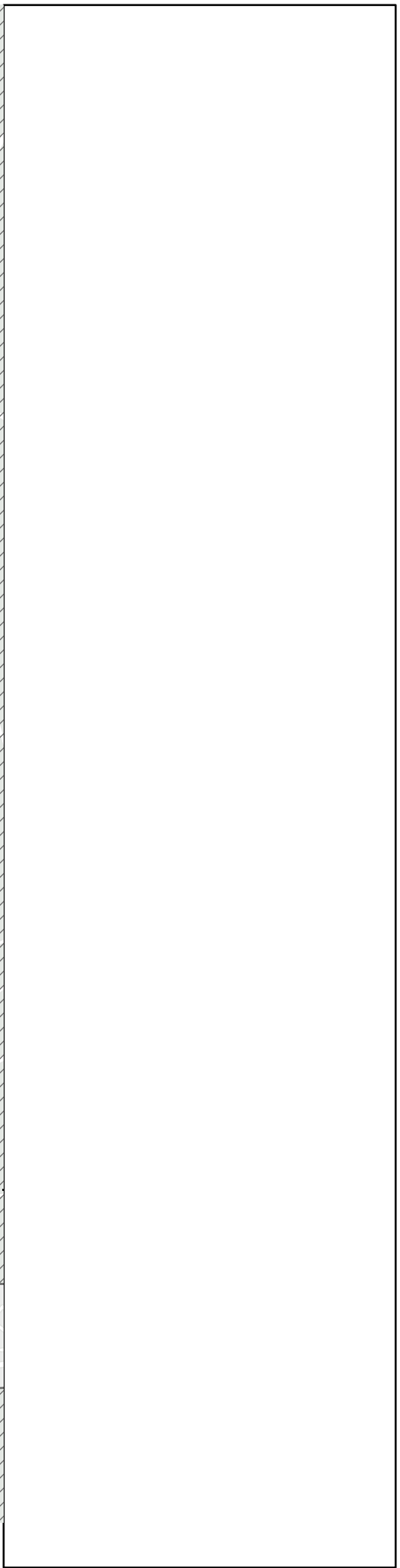
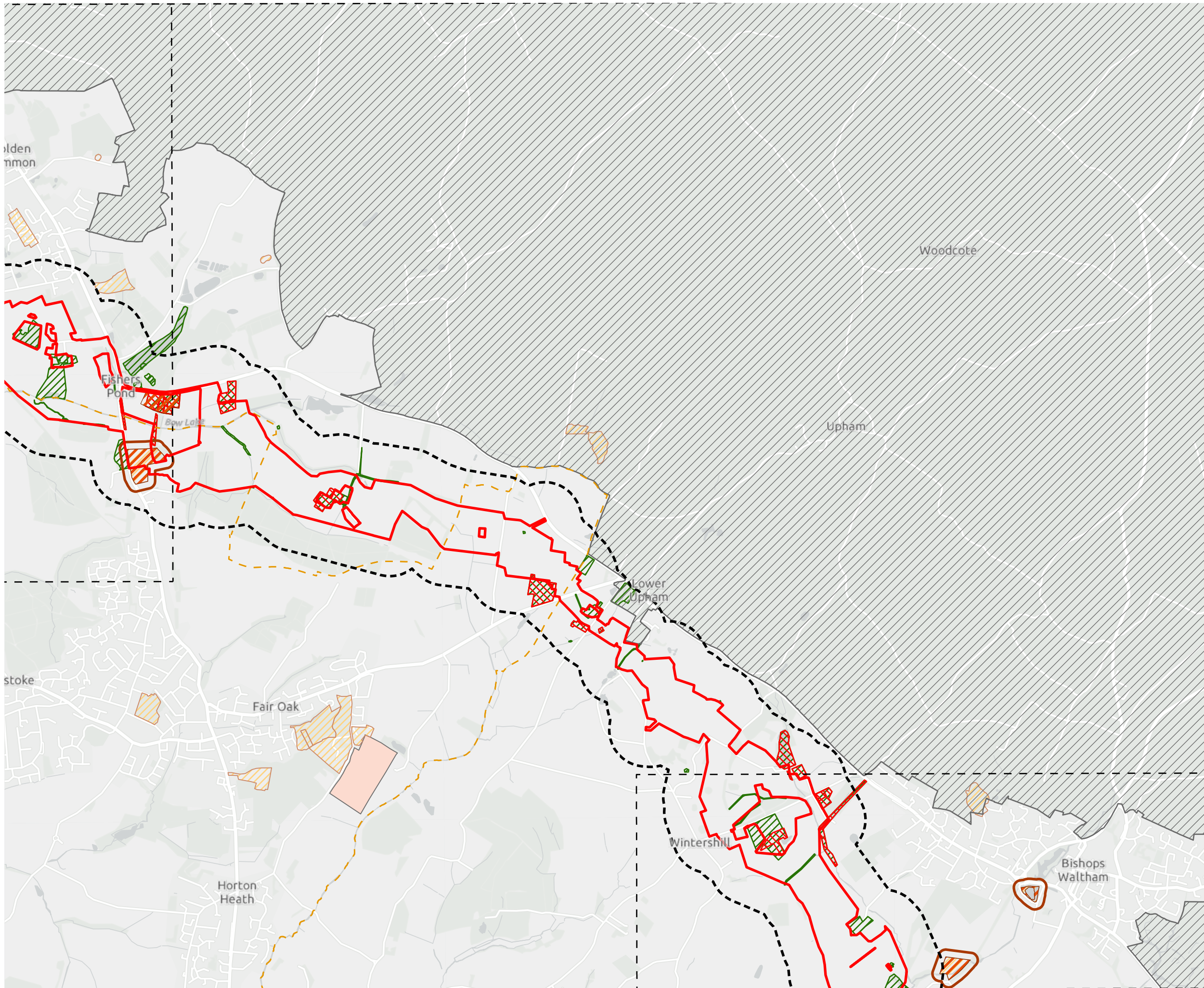


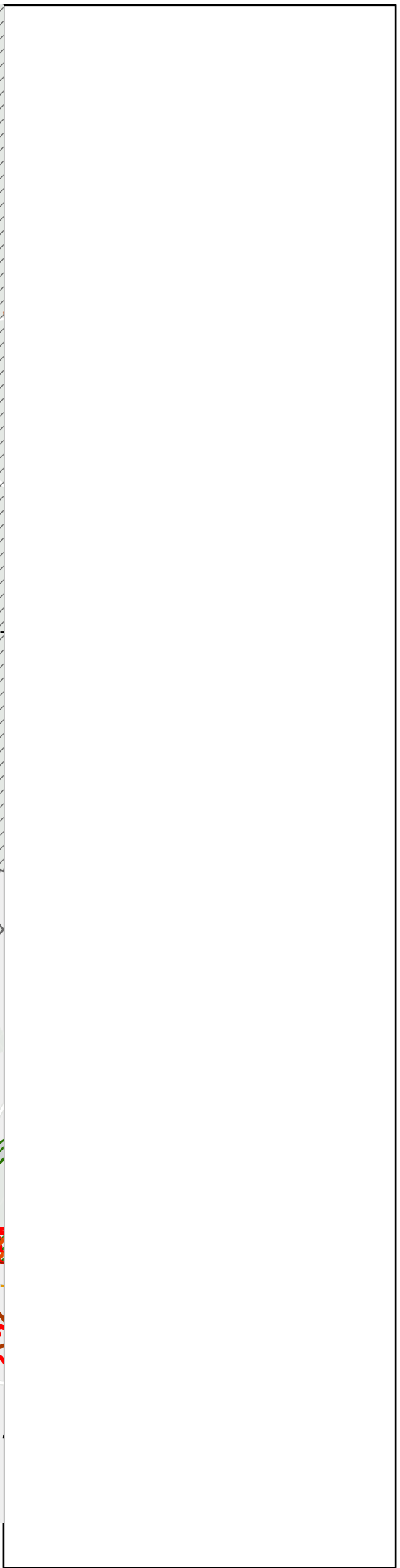
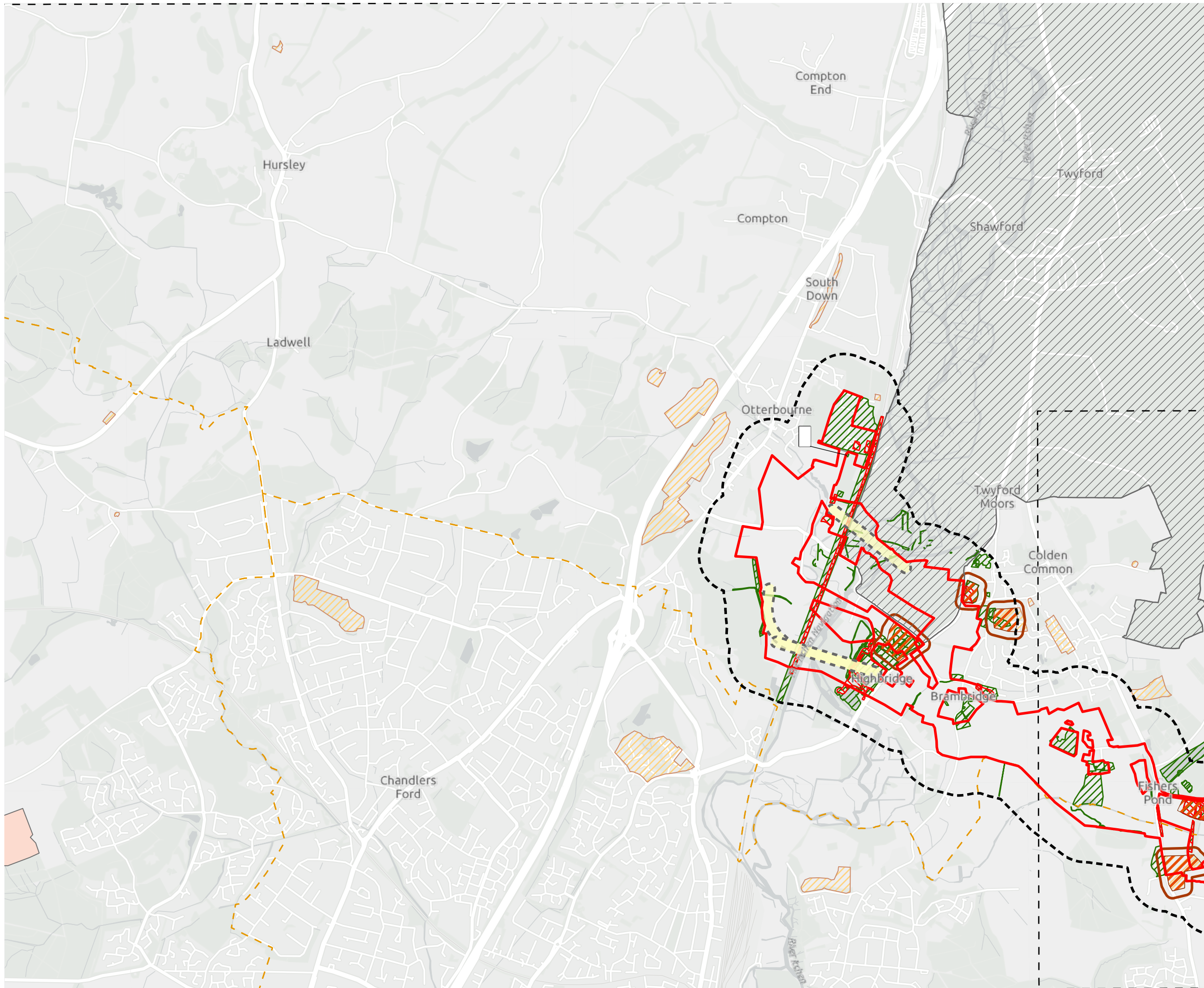














from  
Southern  
Water. 

The Southern Water logo graphic consists of three stylized, white, wavy lines that resemble water waves, positioned to the right of the word 'Water'.