

# Hampshire Water Recycling & Water Transfer Project EIA Scoping Report – Volume III Figures Part 4 of 5

**VOLUME NUMBER: III**

**DOCUMENT REFERENCE: 208102-ARU-EGN-XX-DR-L-00004**

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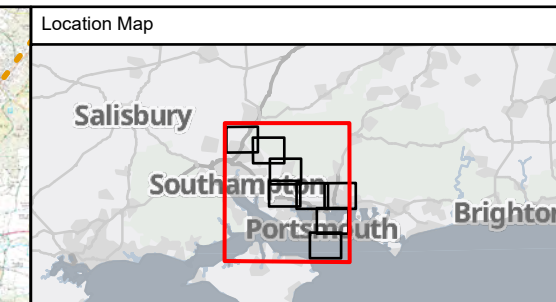
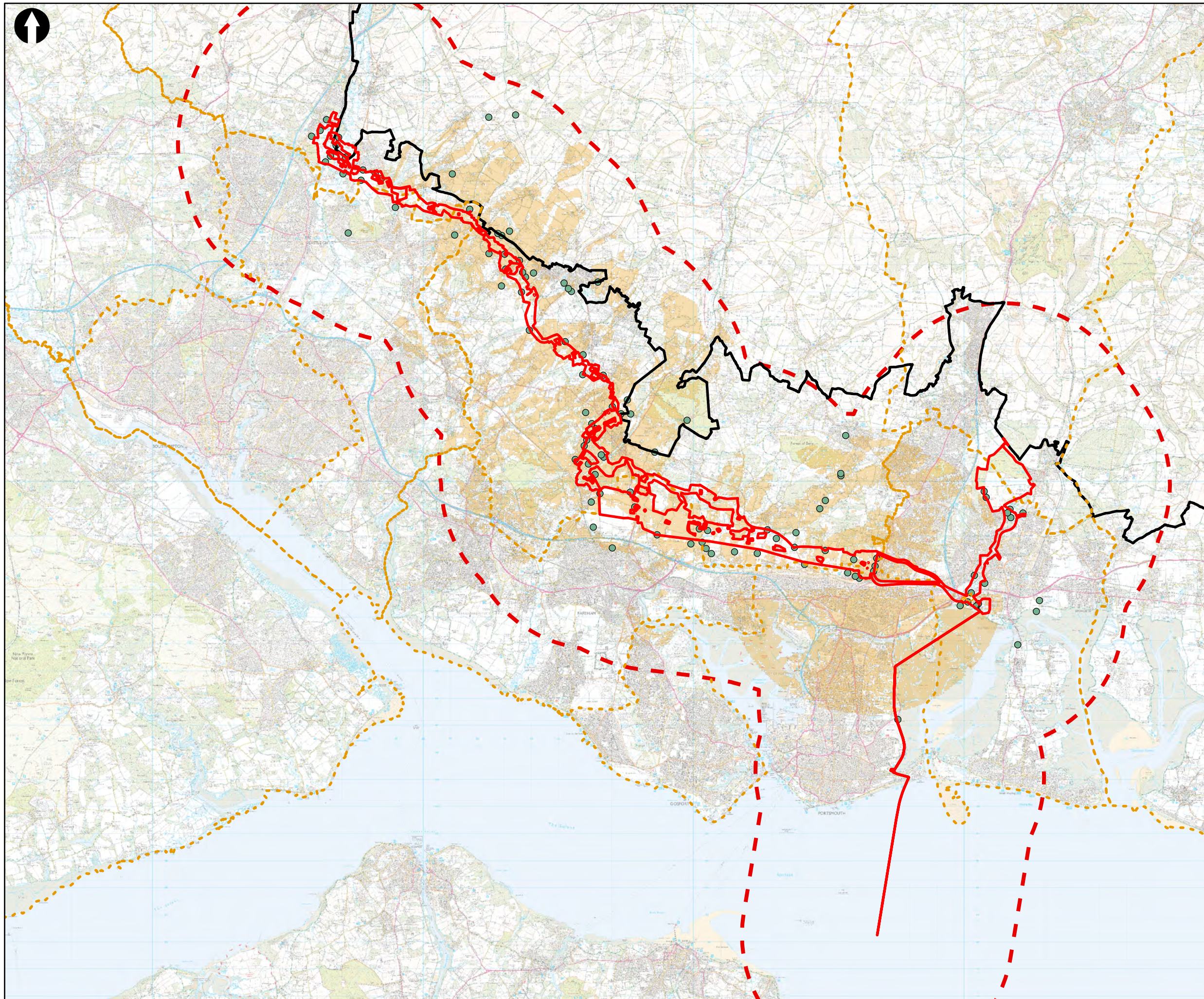
from  
**Southern  
Water** 

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. The entire logo is located in the bottom right corner of the page.

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EIA Scoping Report Volume 3 Part 4 of 5 – Figures 13.4 to 17.1





Key to Symbols

- Scoping Area
- ZTV 5km Study Area
- District boundary
- South Downs National Park
- Zone of Theoretical Visibility
- Representative Viewpoints

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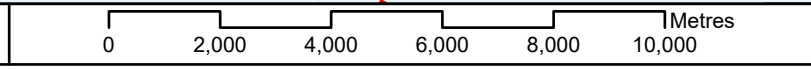
ZTV produced with Lidar DTM  
ZTV shows visibility, without screening, of permanent above ground structures only.  
Water recycling plant: 13m height.  
Brake pressure tanks (BPT): 3.5m height (5.5, total height; 3.5m are above ground  
Intermediate pumping stations (IPS) 8m height)

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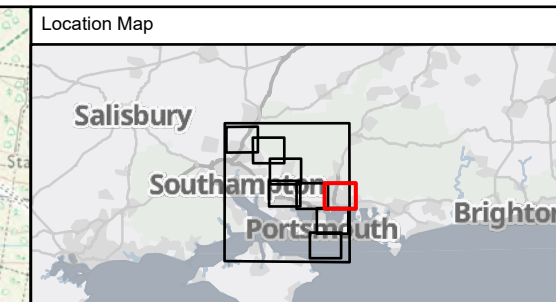
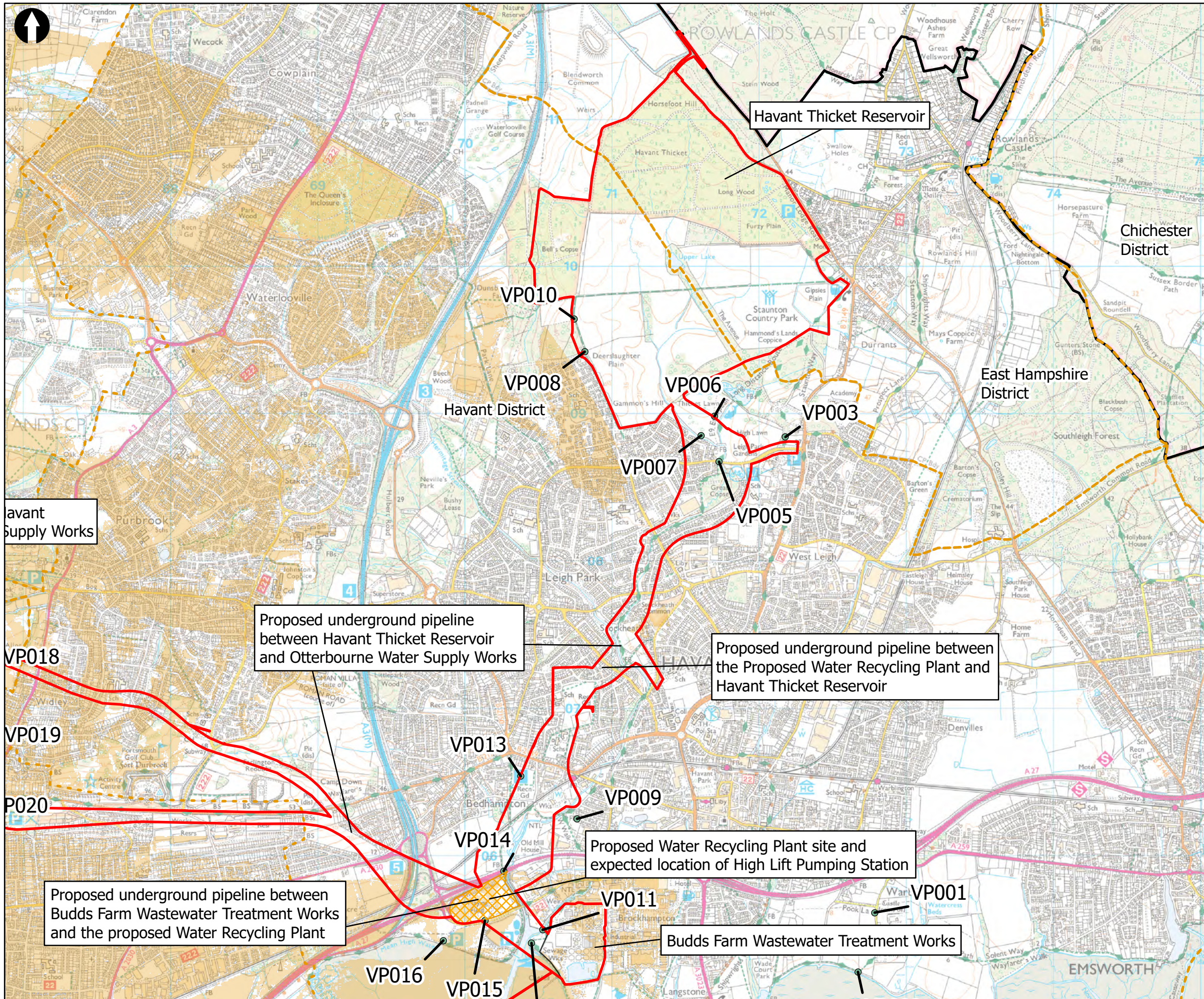


Title  
**Figure 13.4**  
 Zone of Theoretical Visibility (Operational Phase), and Representative Viewpoints  
 Location  
 Sheet 1 of 9

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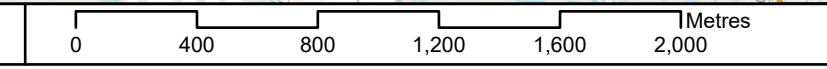
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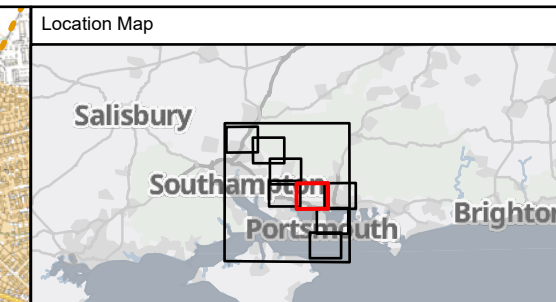
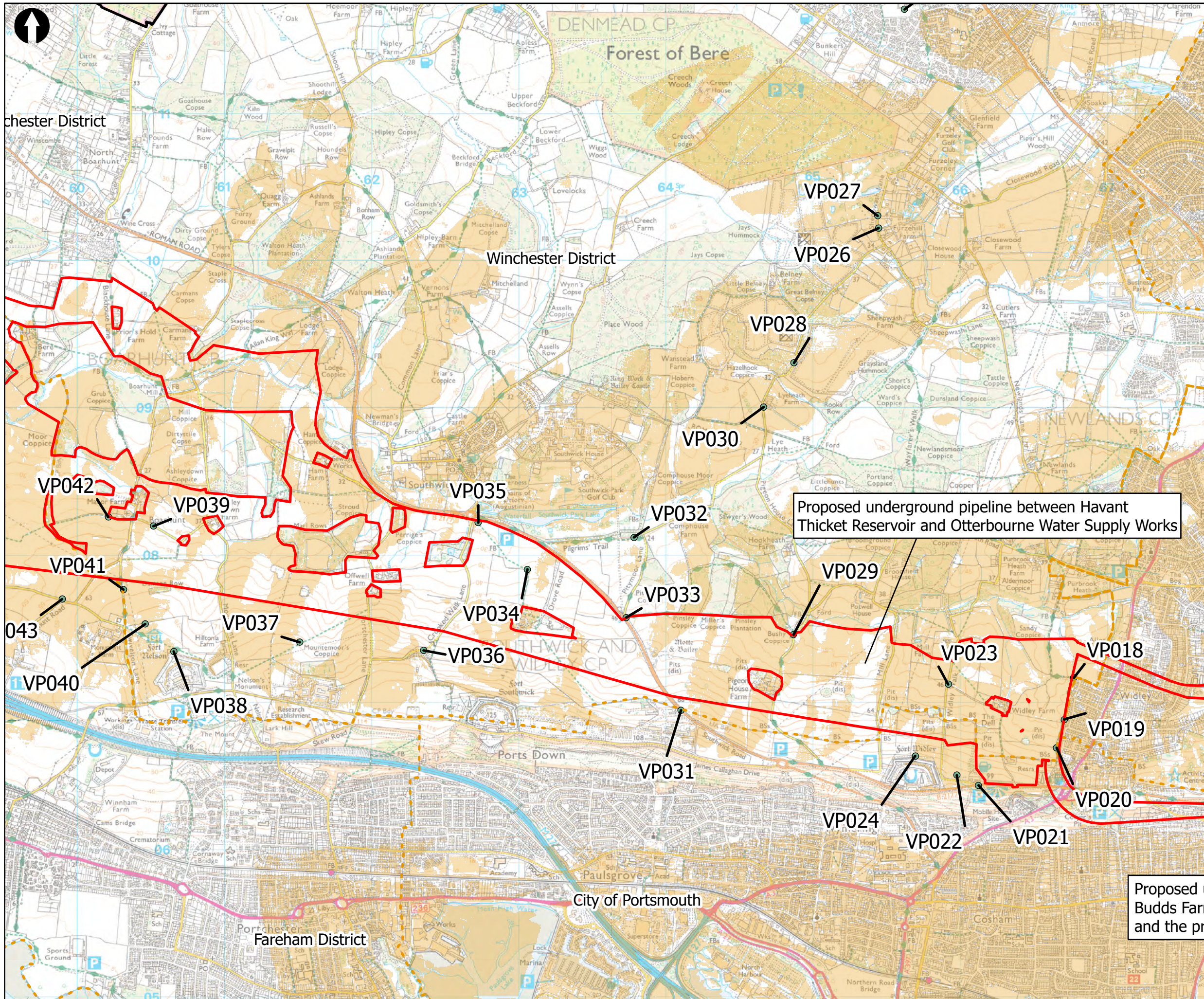


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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works

Proposed un Budds Farm and the prop

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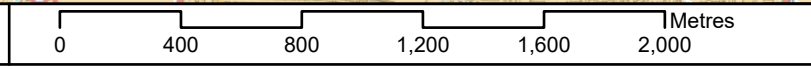
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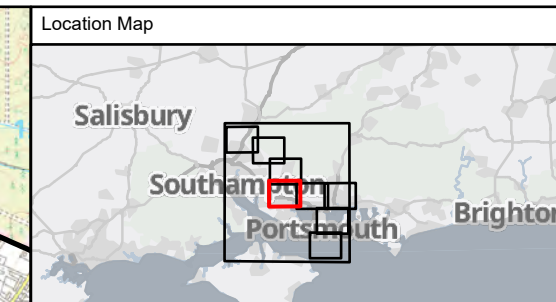
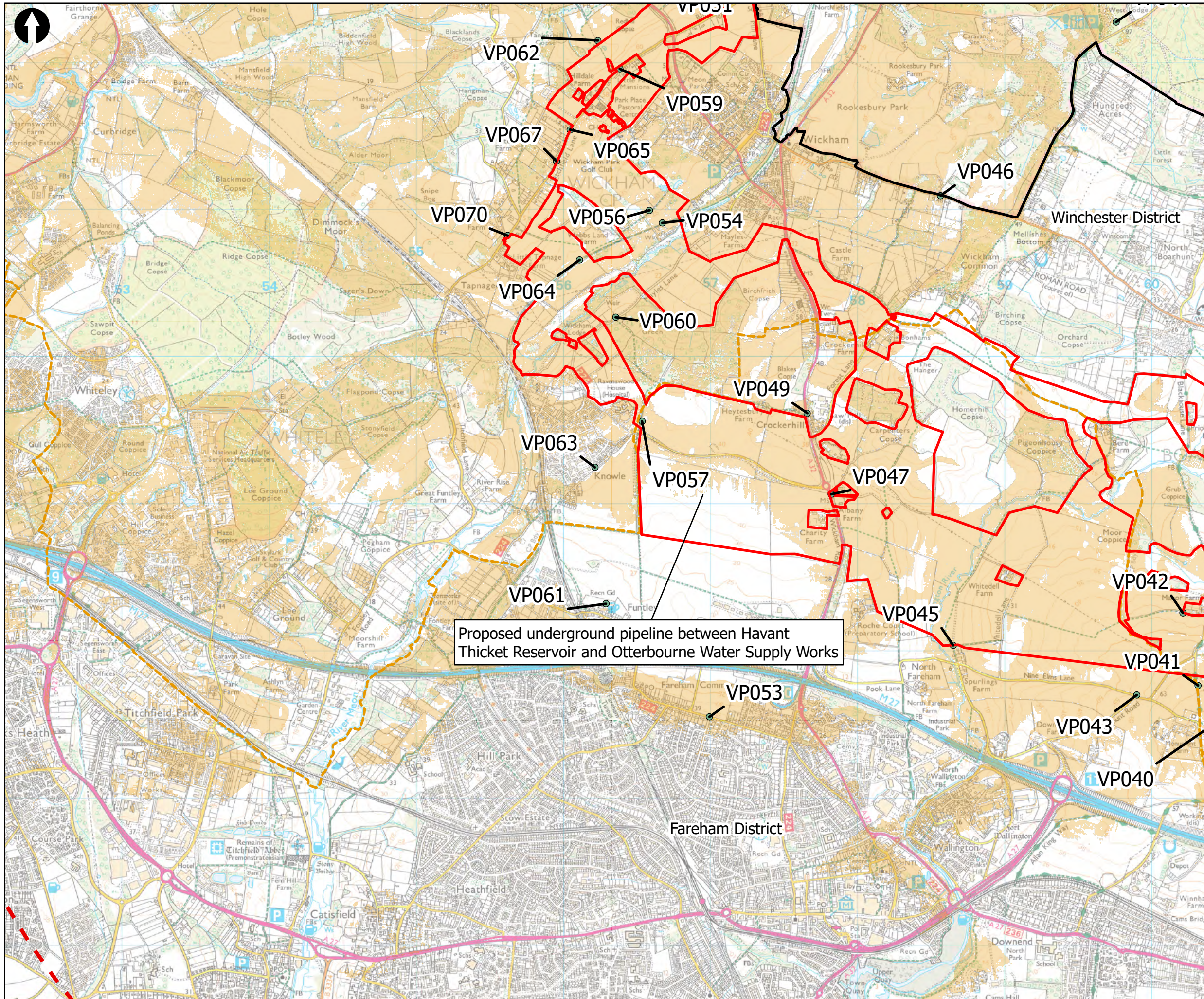
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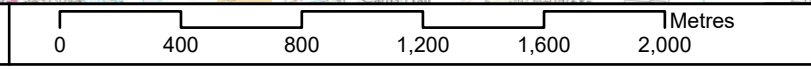
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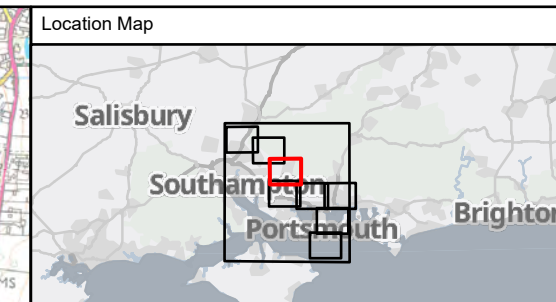
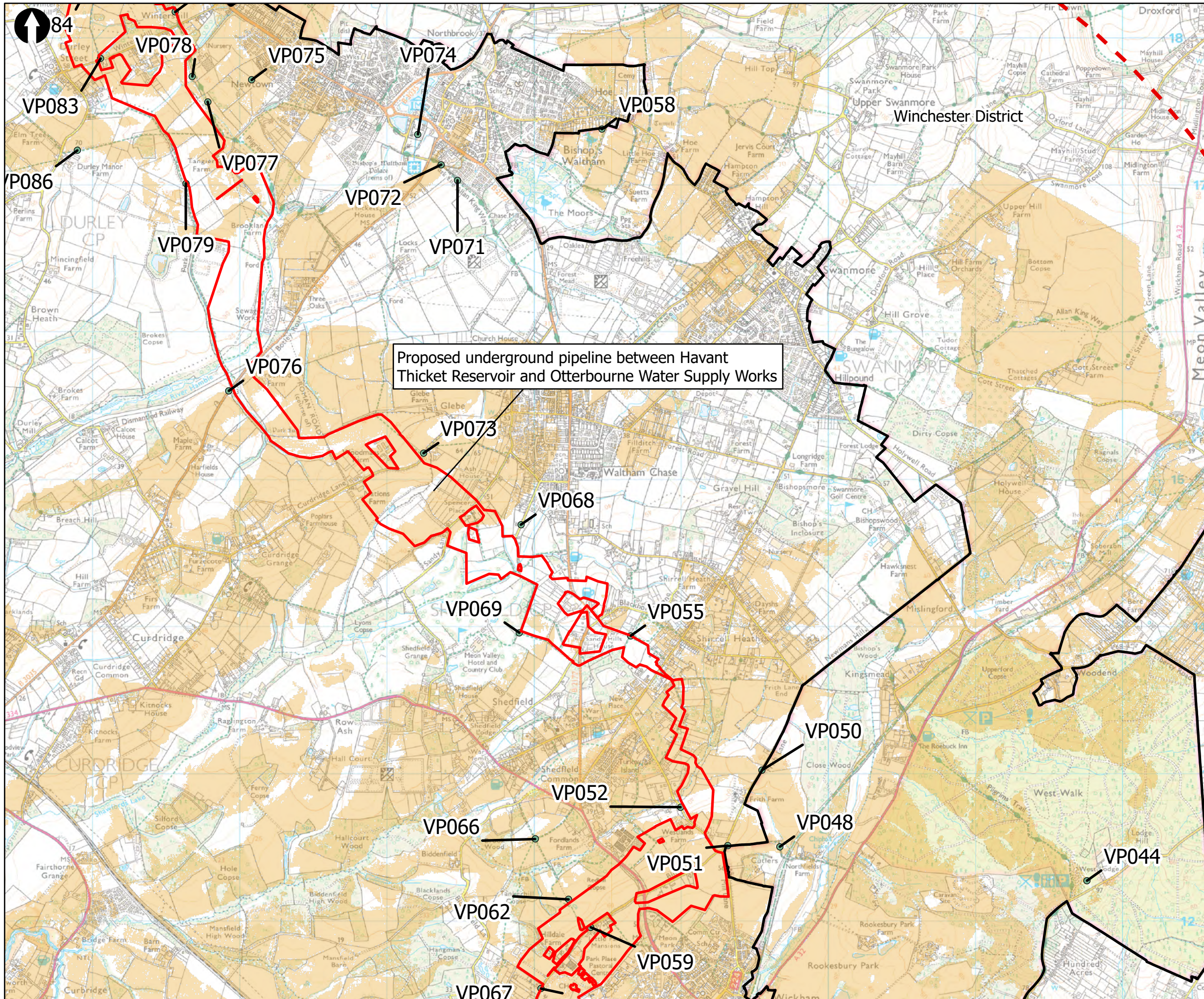


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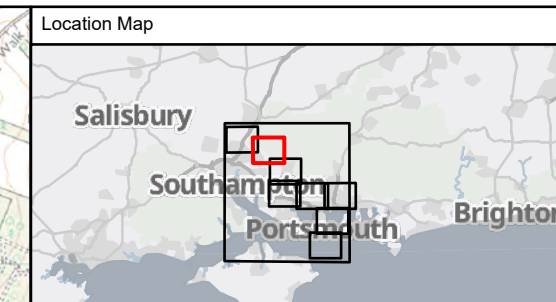
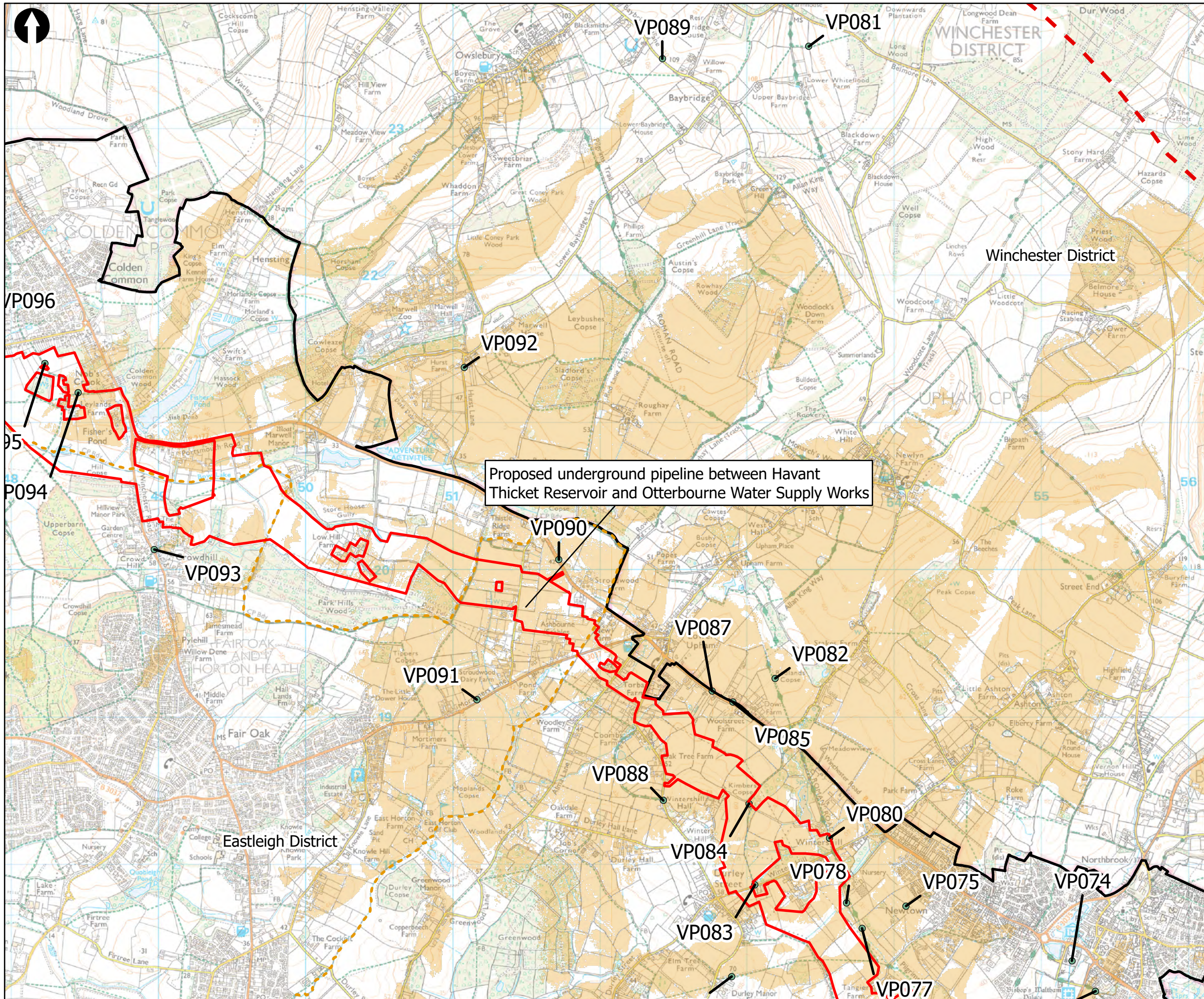


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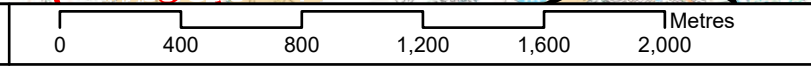
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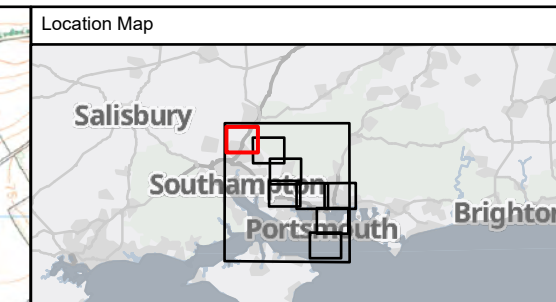
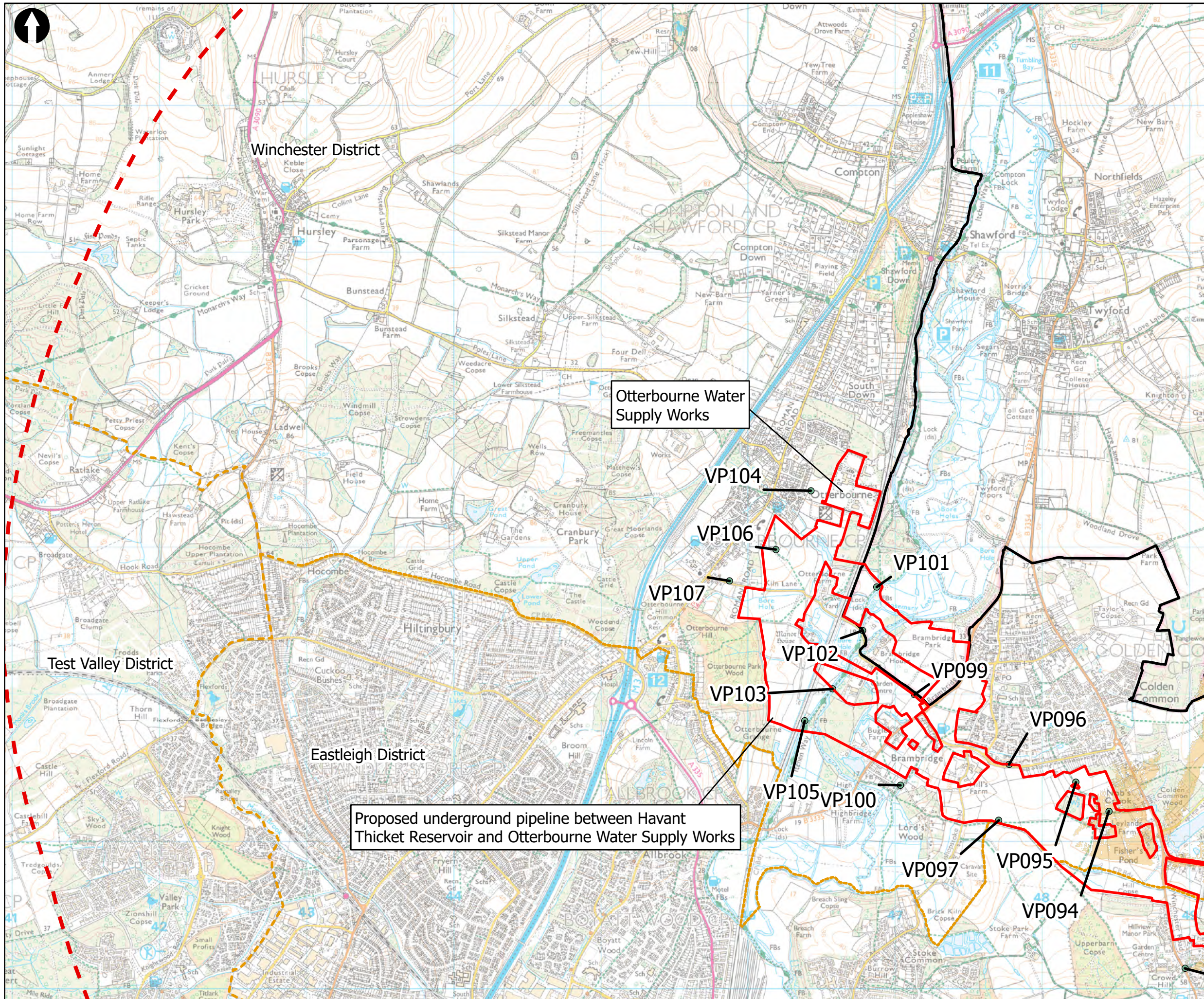


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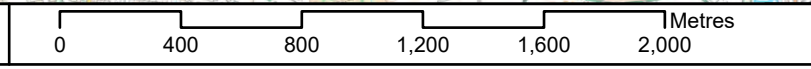
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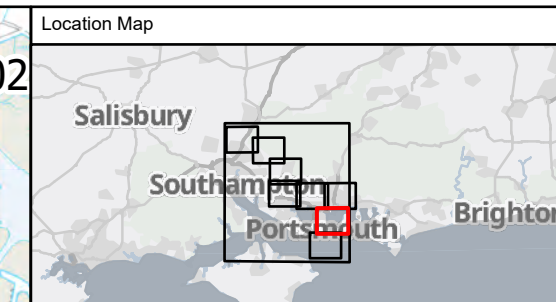
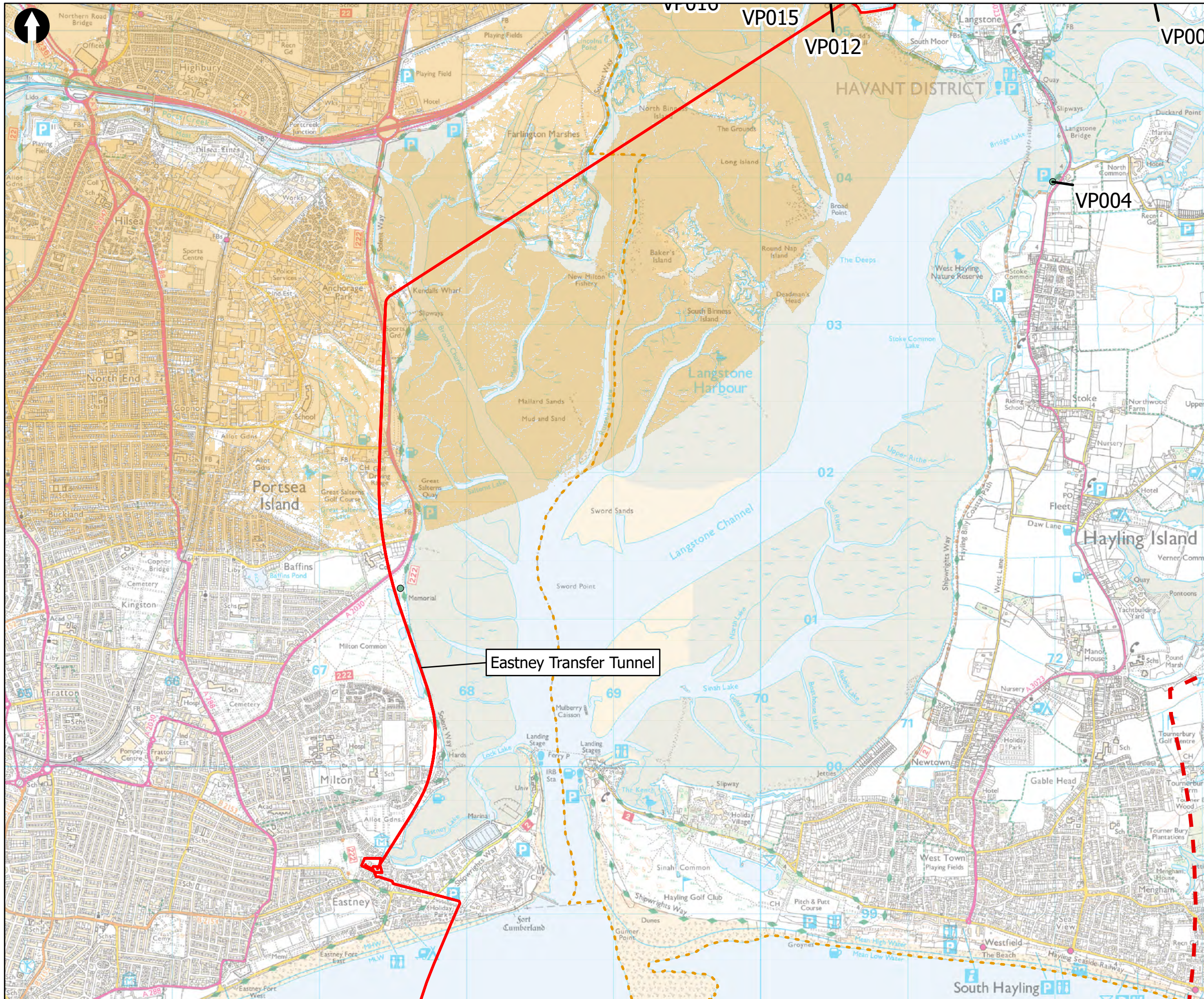


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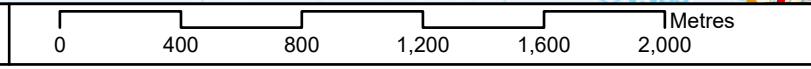
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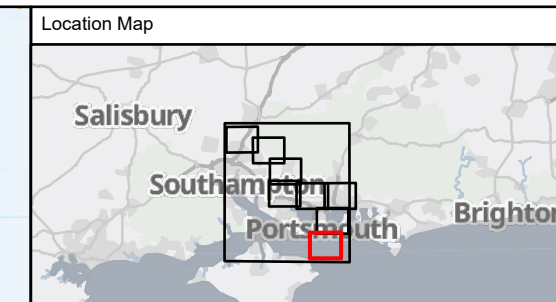
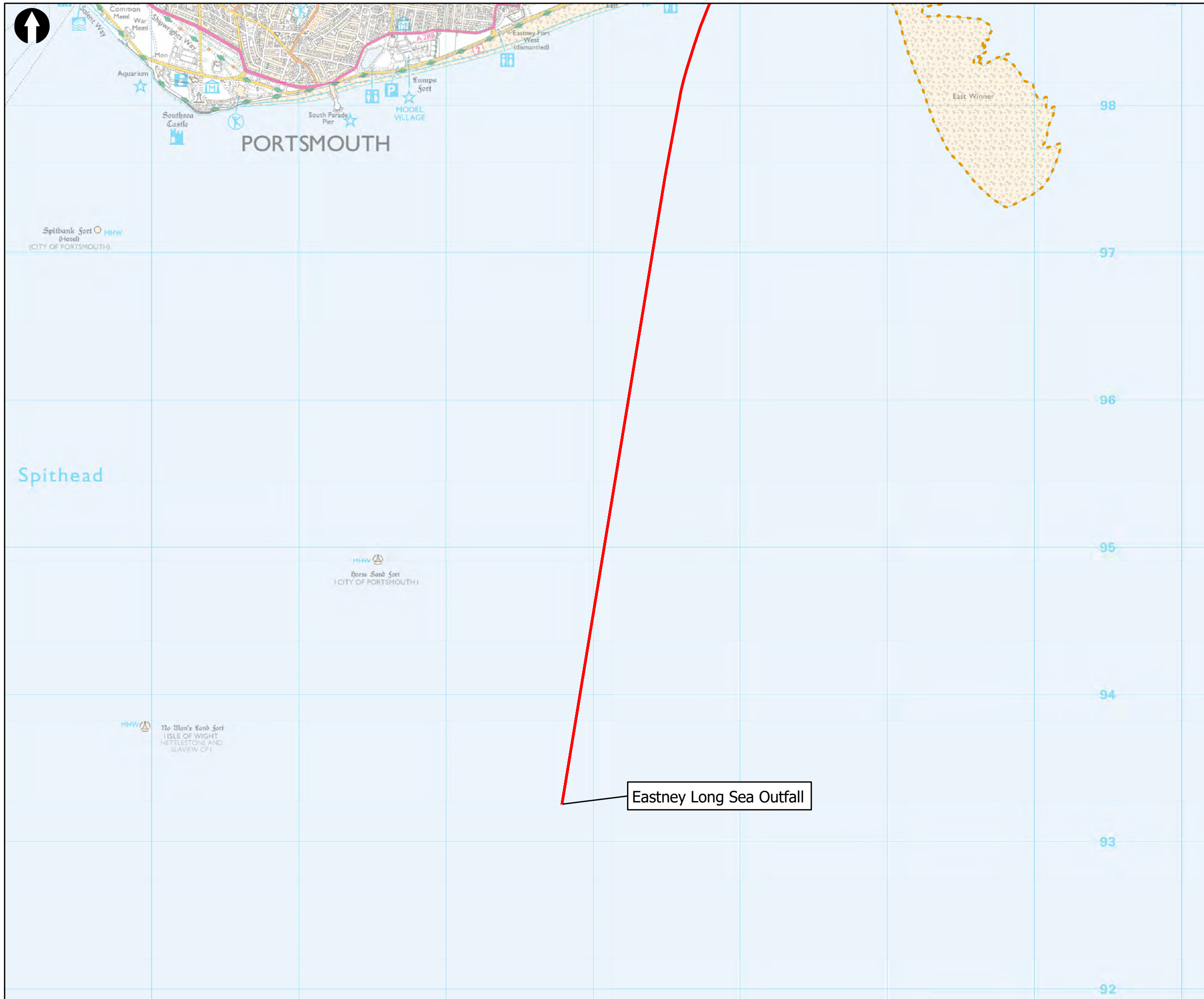


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Key to Symbols

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- District boundary
- Zone of Theoretical Visibility

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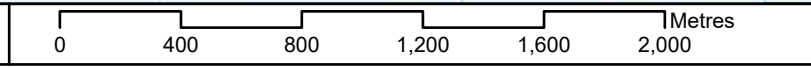
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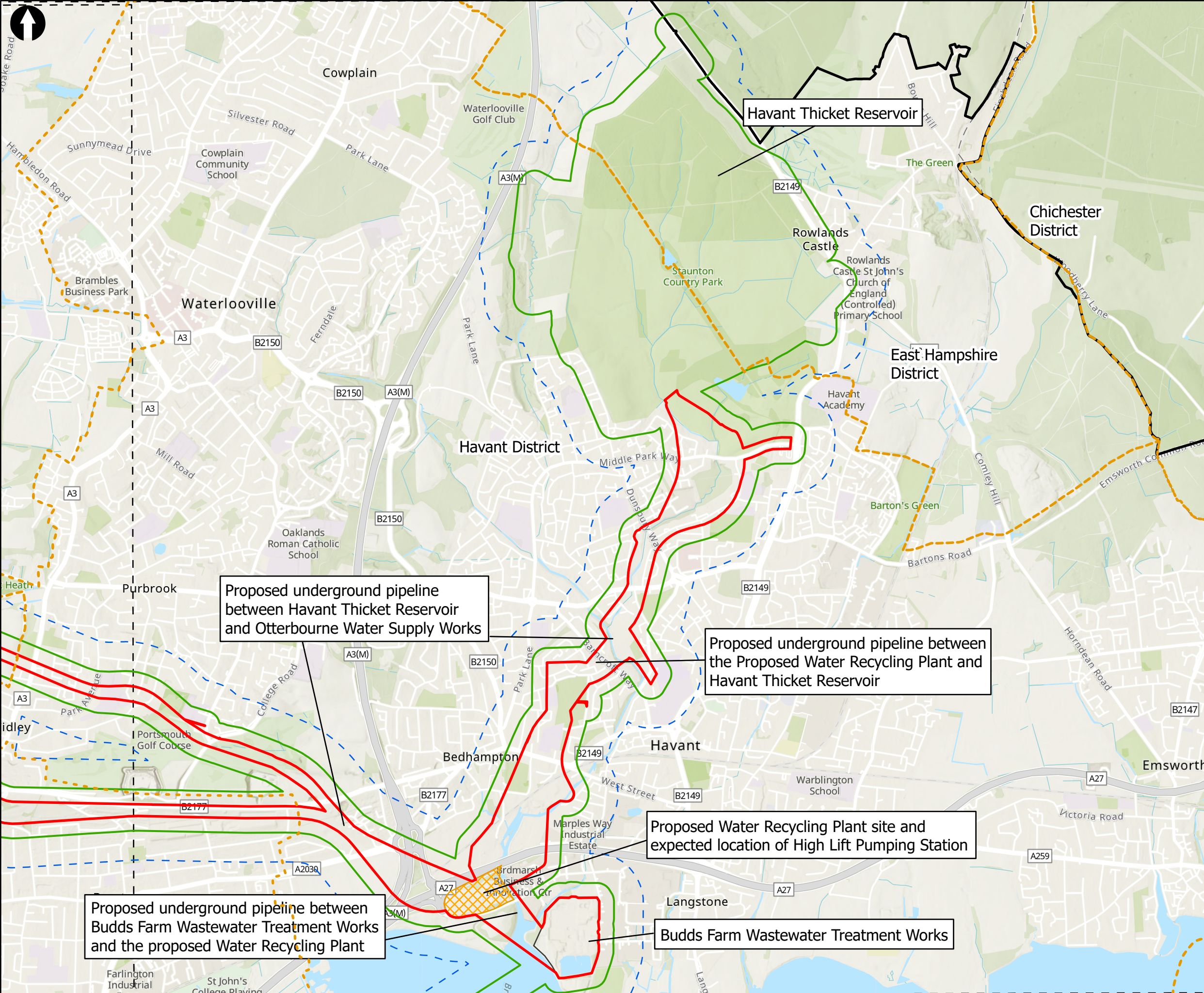
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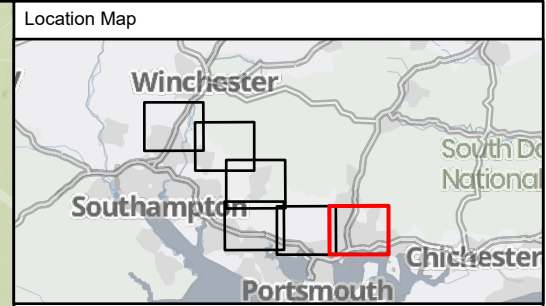
Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works

Proposed underground pipeline between the Proposed Water Recycling Plant and Havant Thicket Reservoir

Proposed Water Recycling Plant site and expected location of High Lift Pumping Station

Proposed underground pipeline between Budds Farm Wastewater Treatment Works and the proposed Water Recycling Plant

Budds Farm Wastewater Treatment Works



Key to Symbols

- Scoping Area
- Extent Boxes 25K
- District boundary
- Water Recycling Plant and High Lift Pumping Station
- South Downs National Park
- 300m Construction Noise Study Area
- 100m Construction Vibration Study Area

Notes

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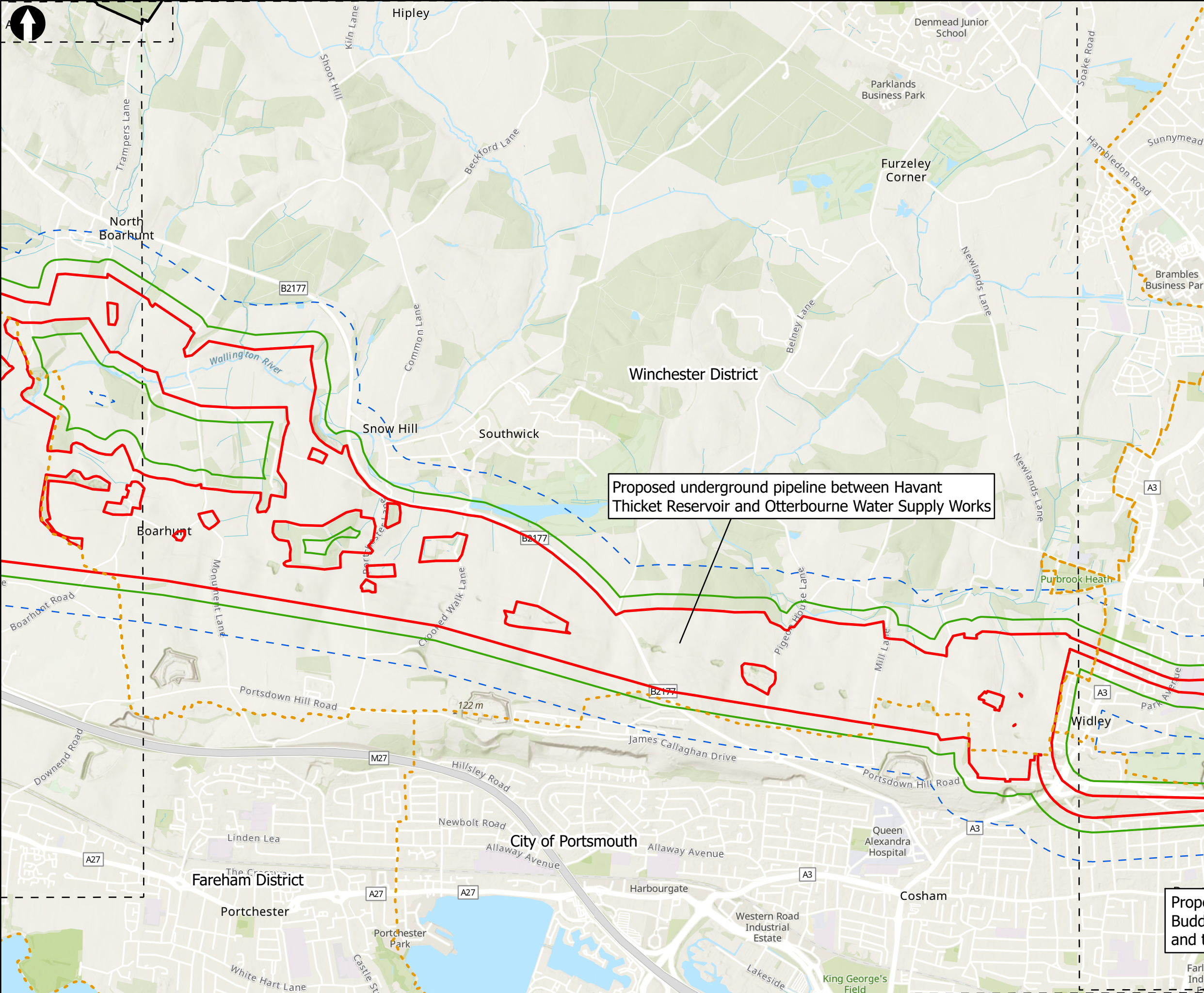
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Figure 14.1  
Noise and Vibration Direct Construction  
Effects Study Areas  
Sheet 1 of 6

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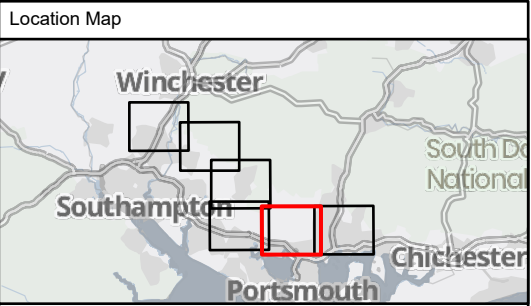
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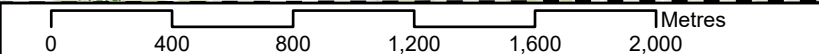
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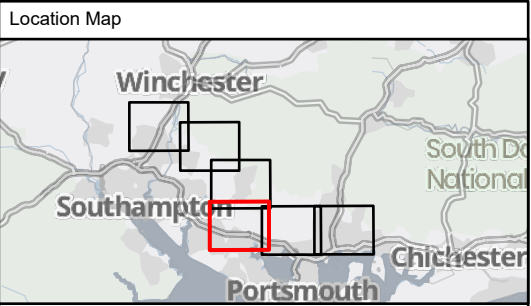
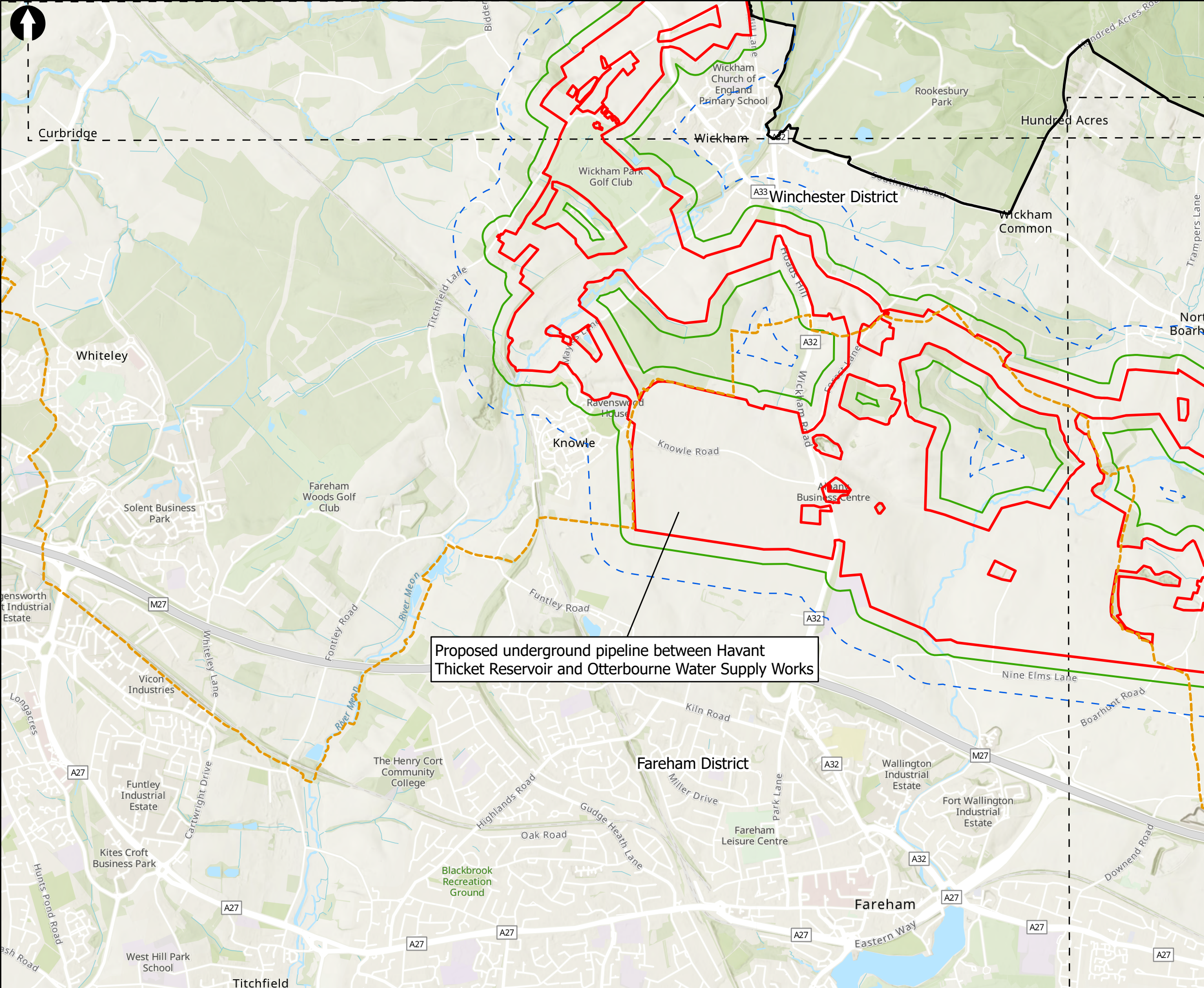
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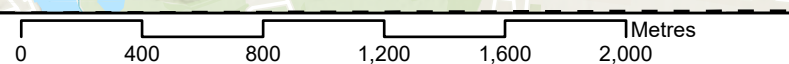
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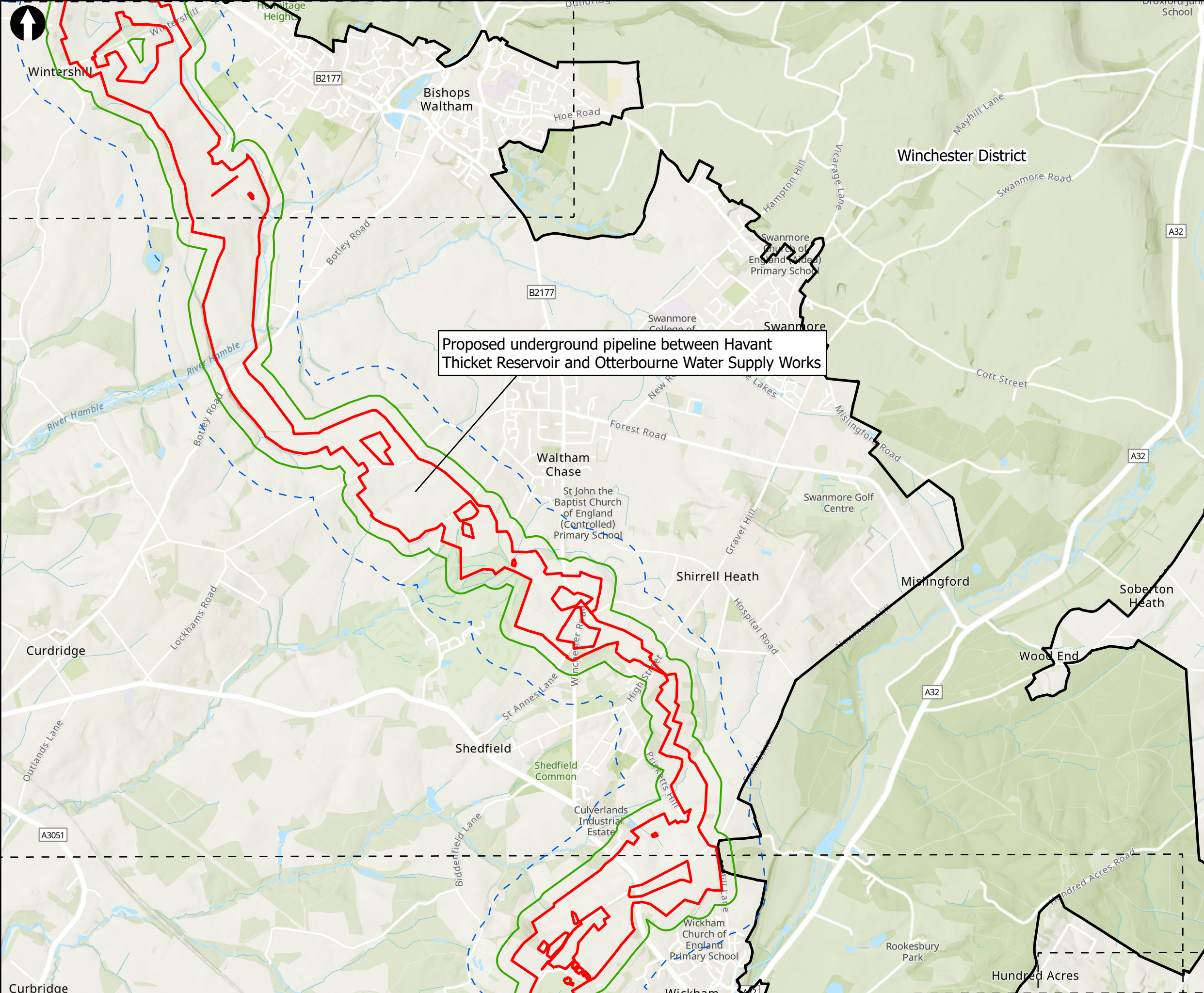
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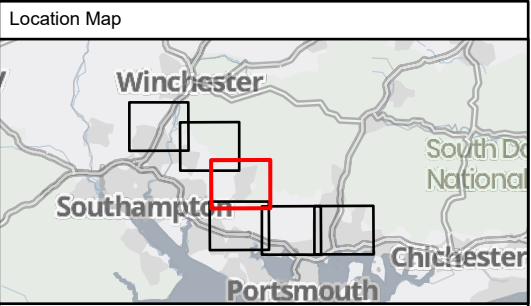
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



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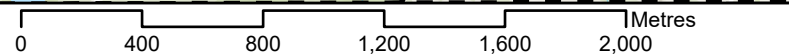
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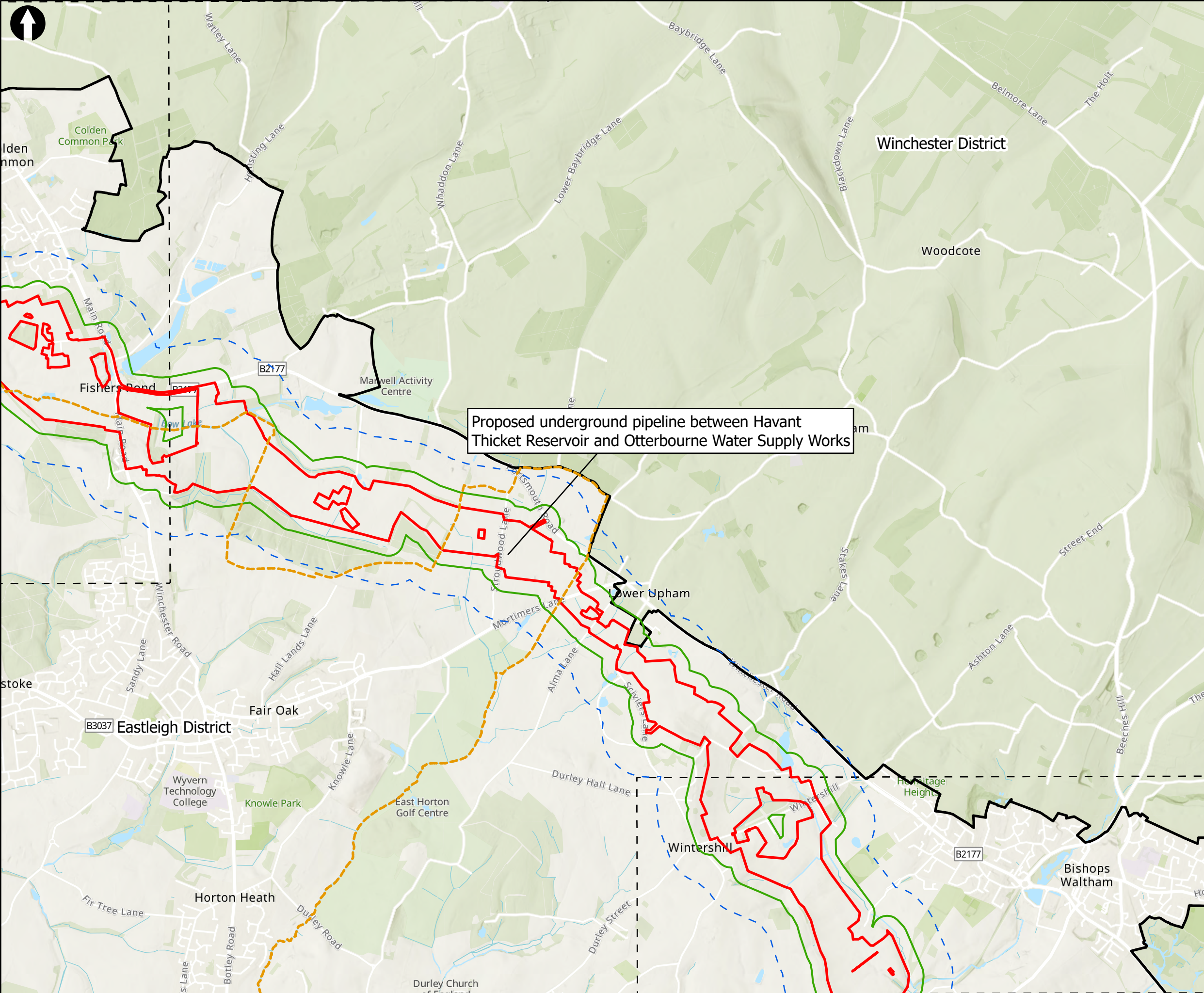


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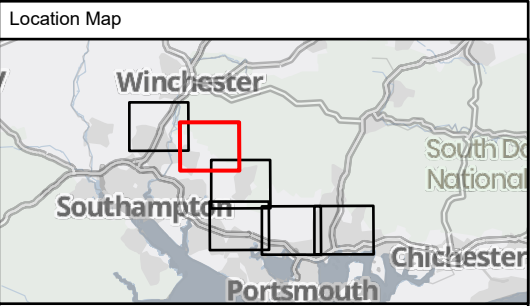
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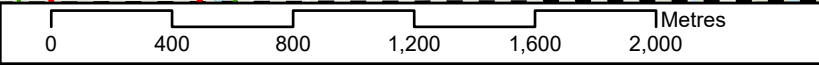
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Title  
 Figure 14.1  
 Noise and Vibration Direct Construction  
 Effects Study Areas  
 Sheet 5 of 6

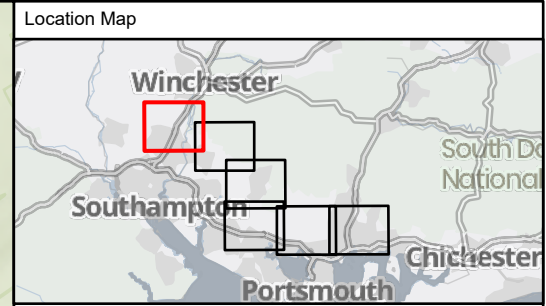
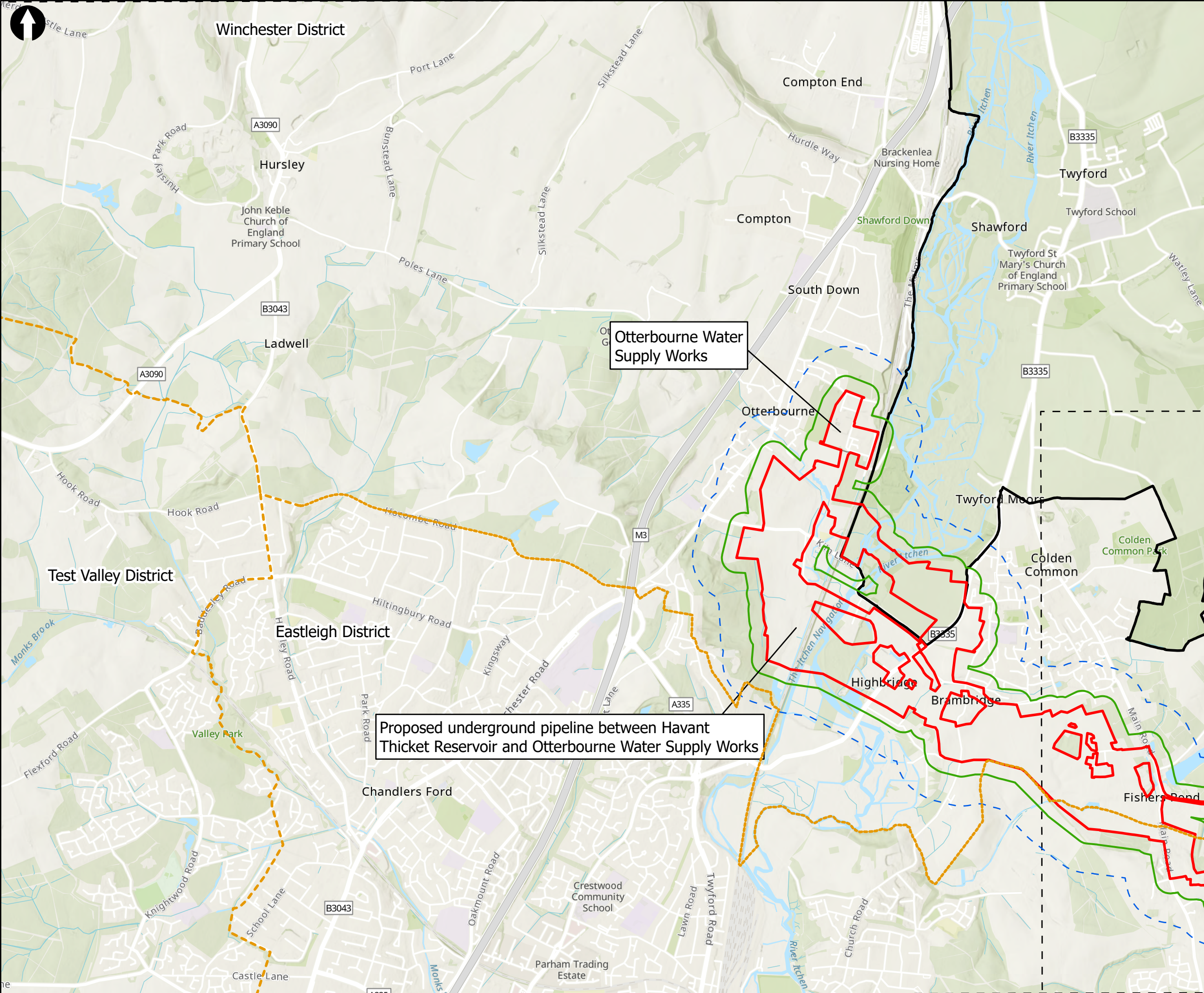
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**Key to Symbols**

- Scoping Area
- Extent Boxes 25K
- District boundary
- South Downs National Park
- 300m Construction Noise Study Area
- 100m Construction Vibration Study Area

**Notes**

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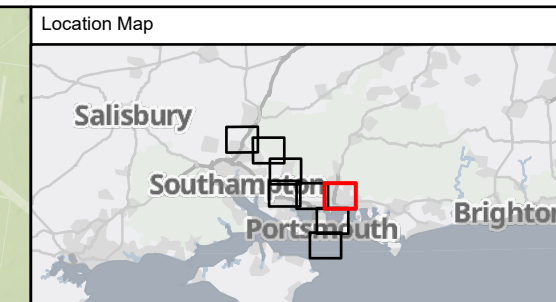
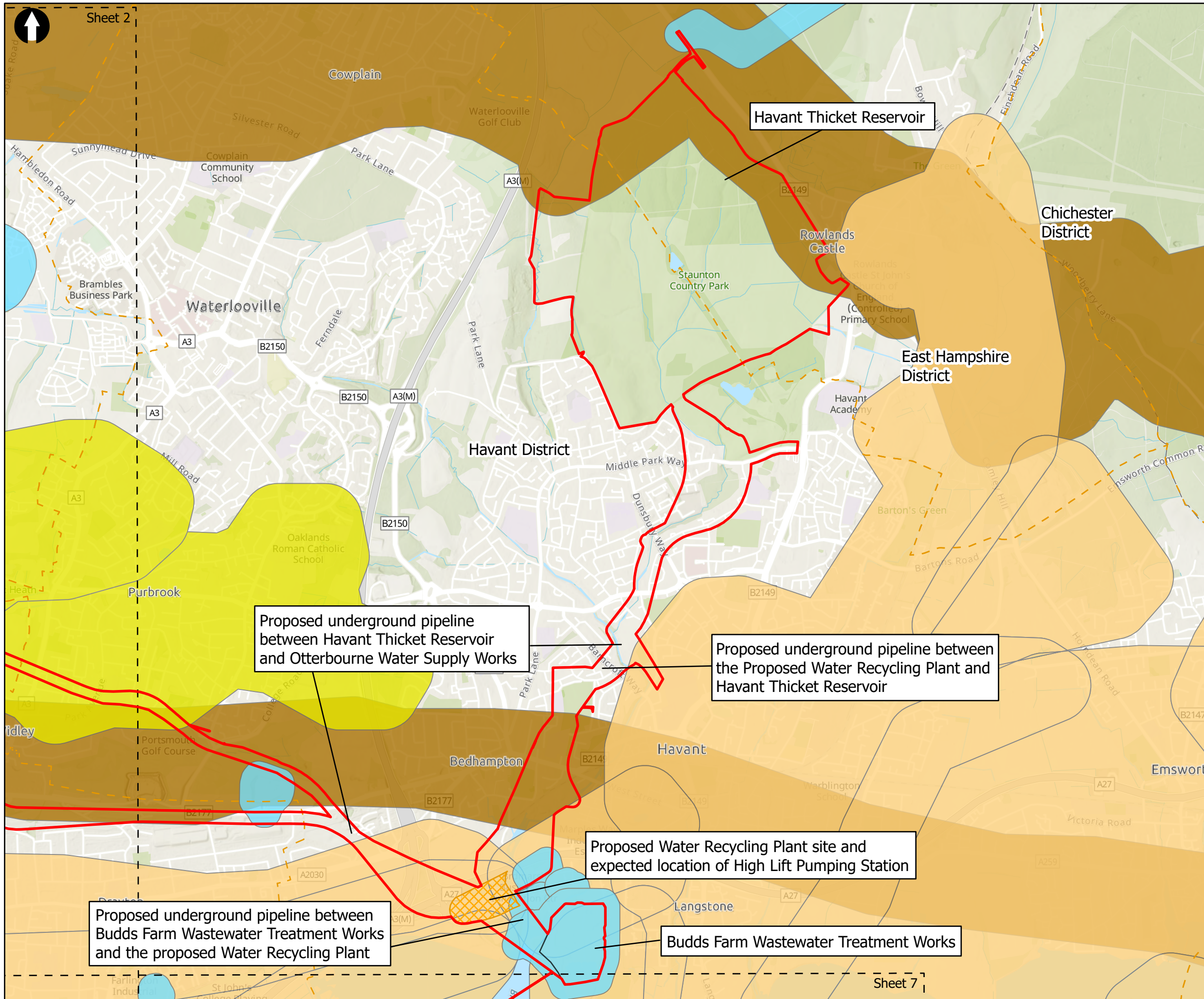
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Sheet 6 of 6

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**Key to Symbols**

Extent boxes 25K	Minerals and Waste Safeguarded Sites
Scoping Area	Mineral Consultation Areas
District boundary	Superficial Sand and Gravel MSA
Water Recycling Plant and High Lift Pumping Station	Soft Sand MSA
Buds Farm Treatment Works	Brick Clay MSA
	Wastewater

**Notes**

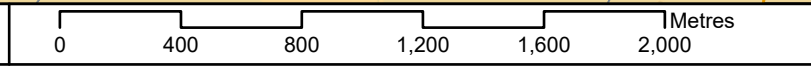
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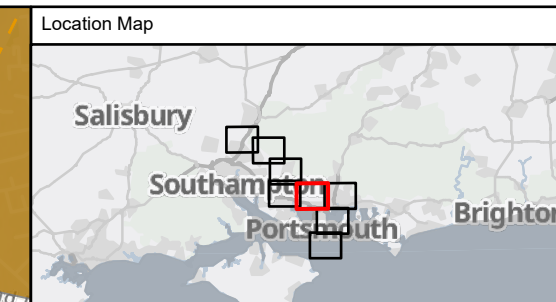
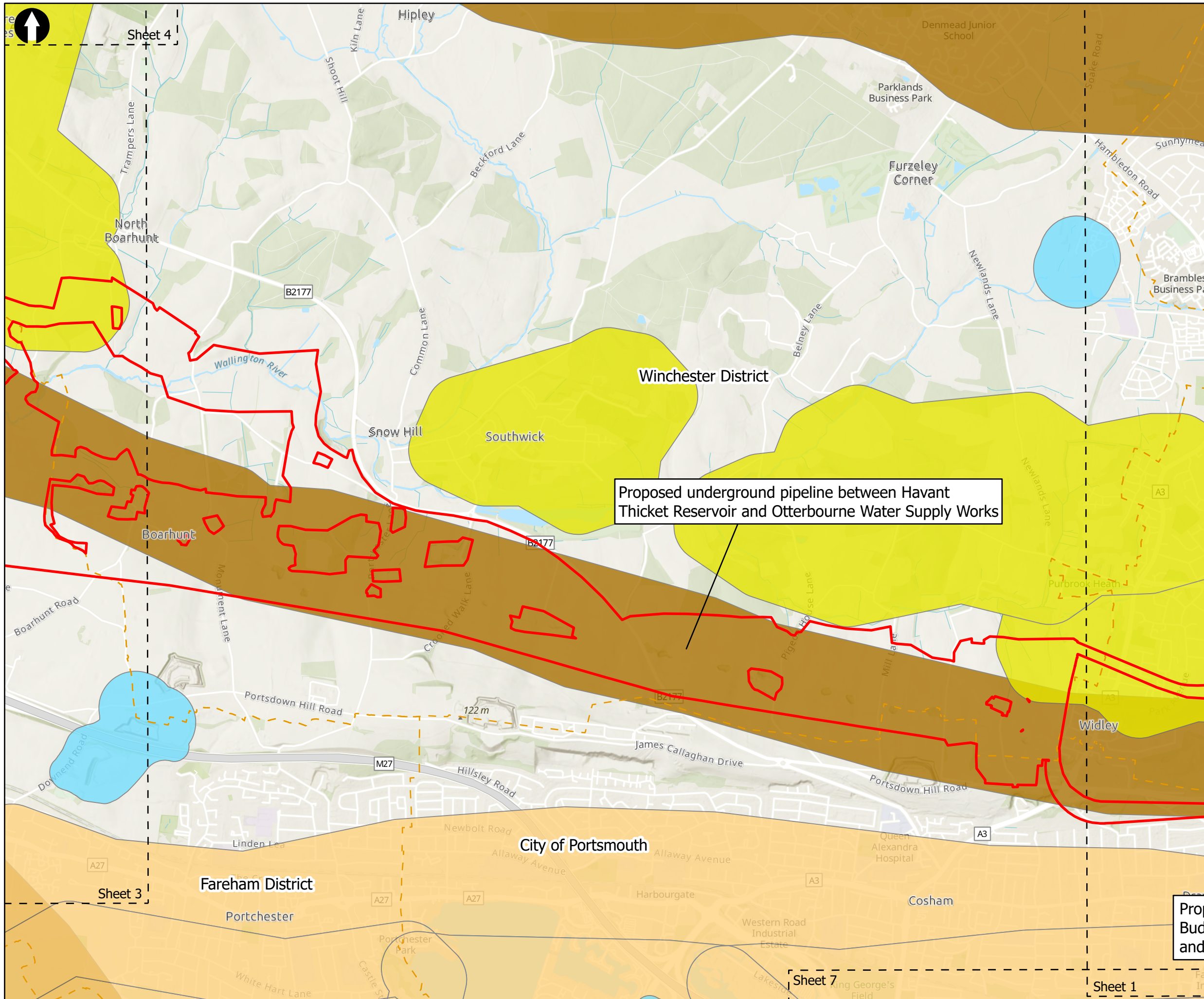


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 Mineral Safeguarding Areas and Safeguarded Sites  
 Sheet 1 of 8

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**Key to Symbols**

Extent boxes 25K	Mineral Consultation Areas
Scoping Area	Superficial Sand and Gravel MSA
District boundary	Soft Sand MSA
Minerals and Waste Safeguarded Sites	Brick Clay MSA

**Notes**

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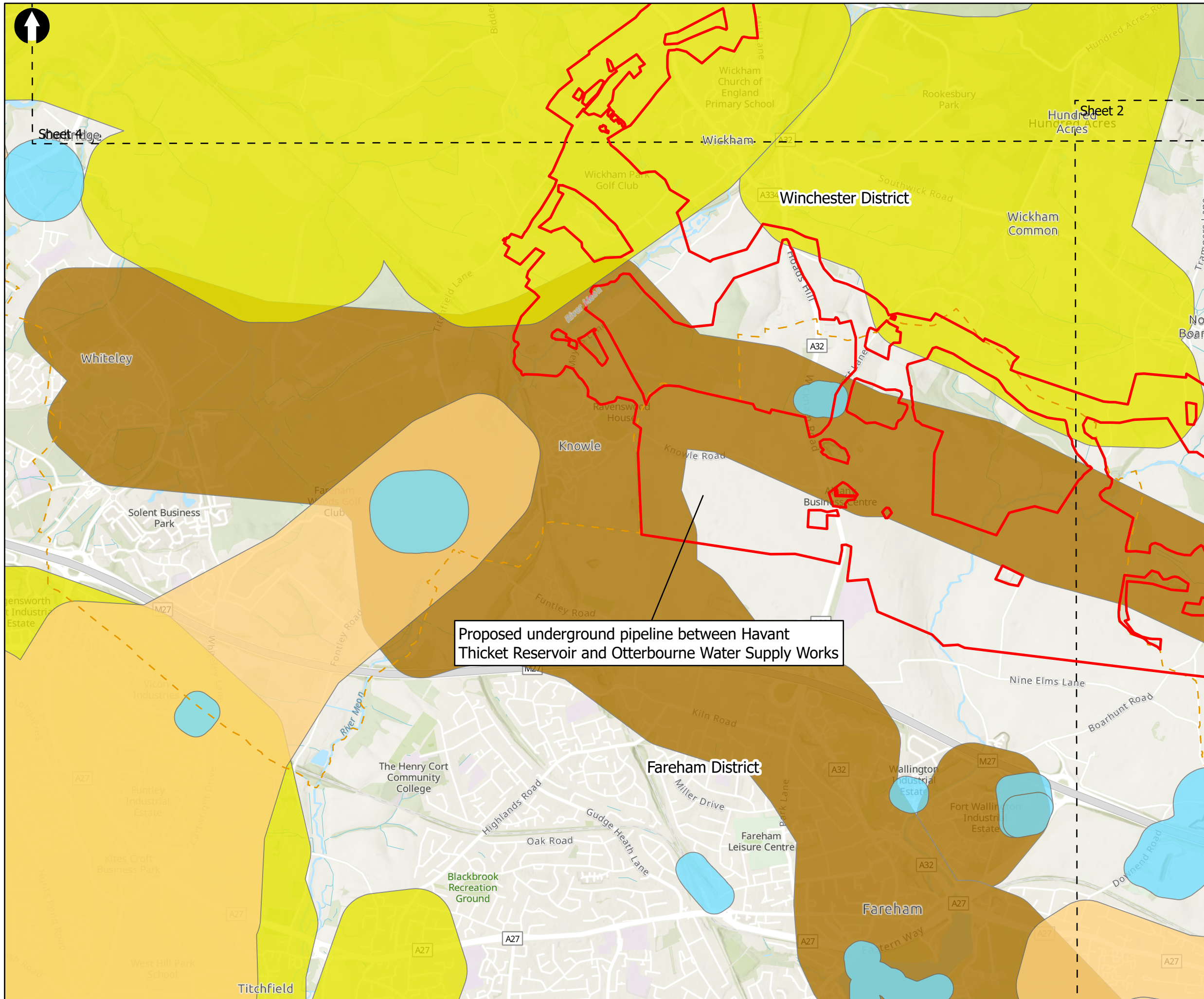
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 Sheet 2 of 8

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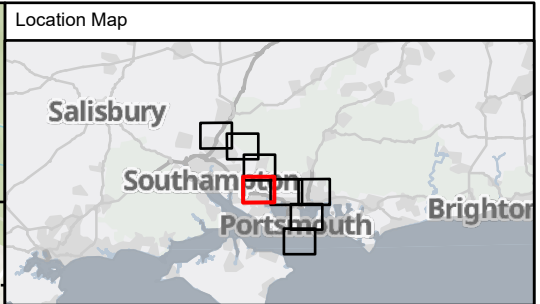


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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Extent boxes 25K	Mineral Consultation Areas
Scoping Area	Superficial Sand and Gravel MSA
District boundary	Soft Sand MSA
Minerals and Waste Safeguarded Sites	Brick Clay MSA

**Notes**

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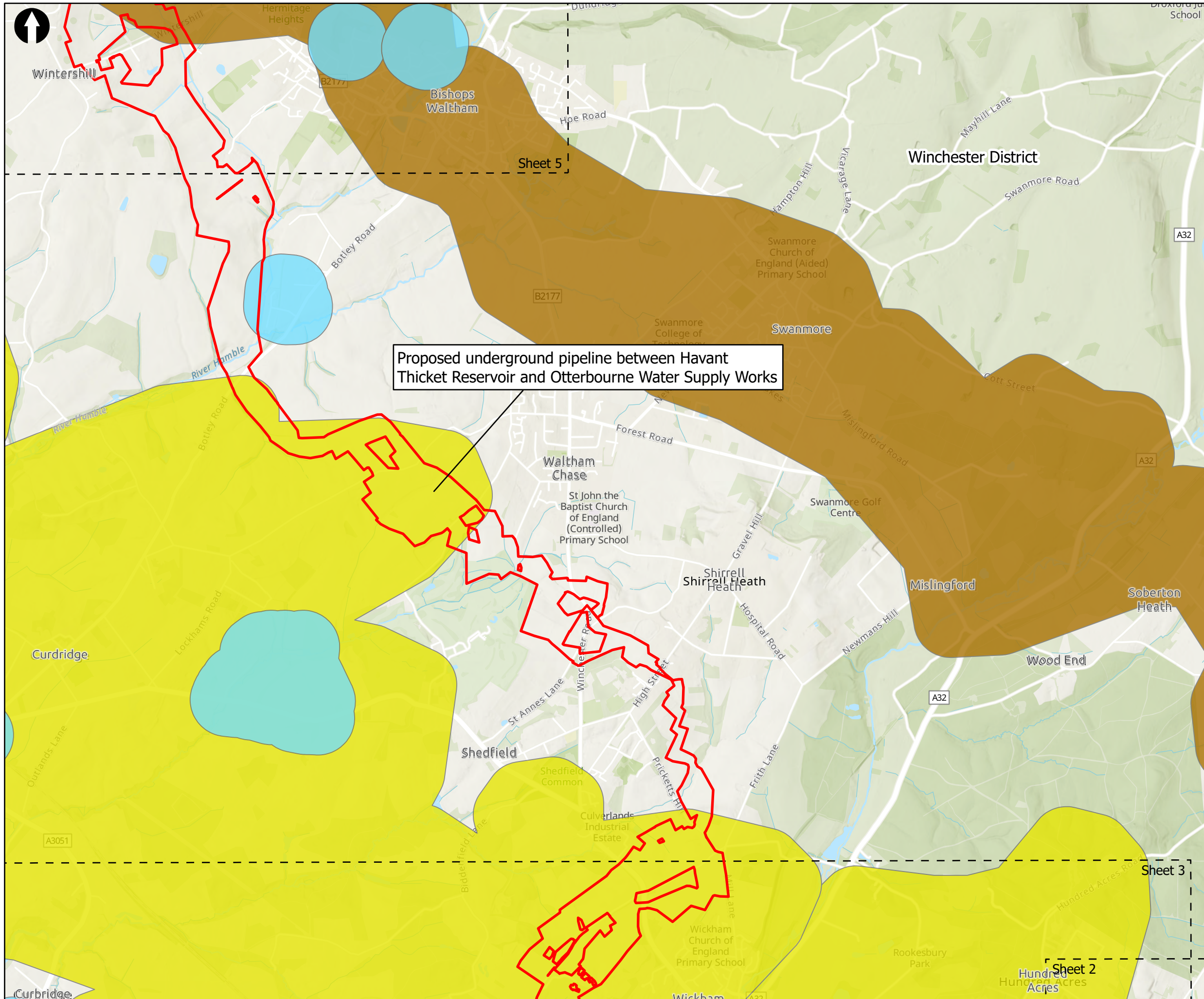


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 Sheet 3 of 8

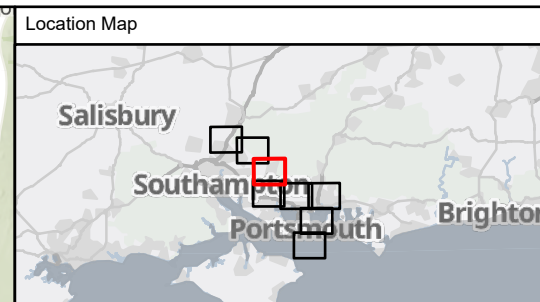
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Extent boxes 25K	Minerals and Waste Safeguarded Sites
Scoping Area	Soft Sand MSA
District boundary	Brick Clay MSA

**Notes**

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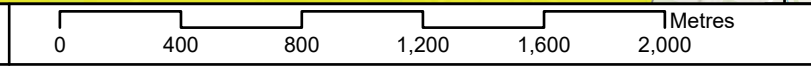
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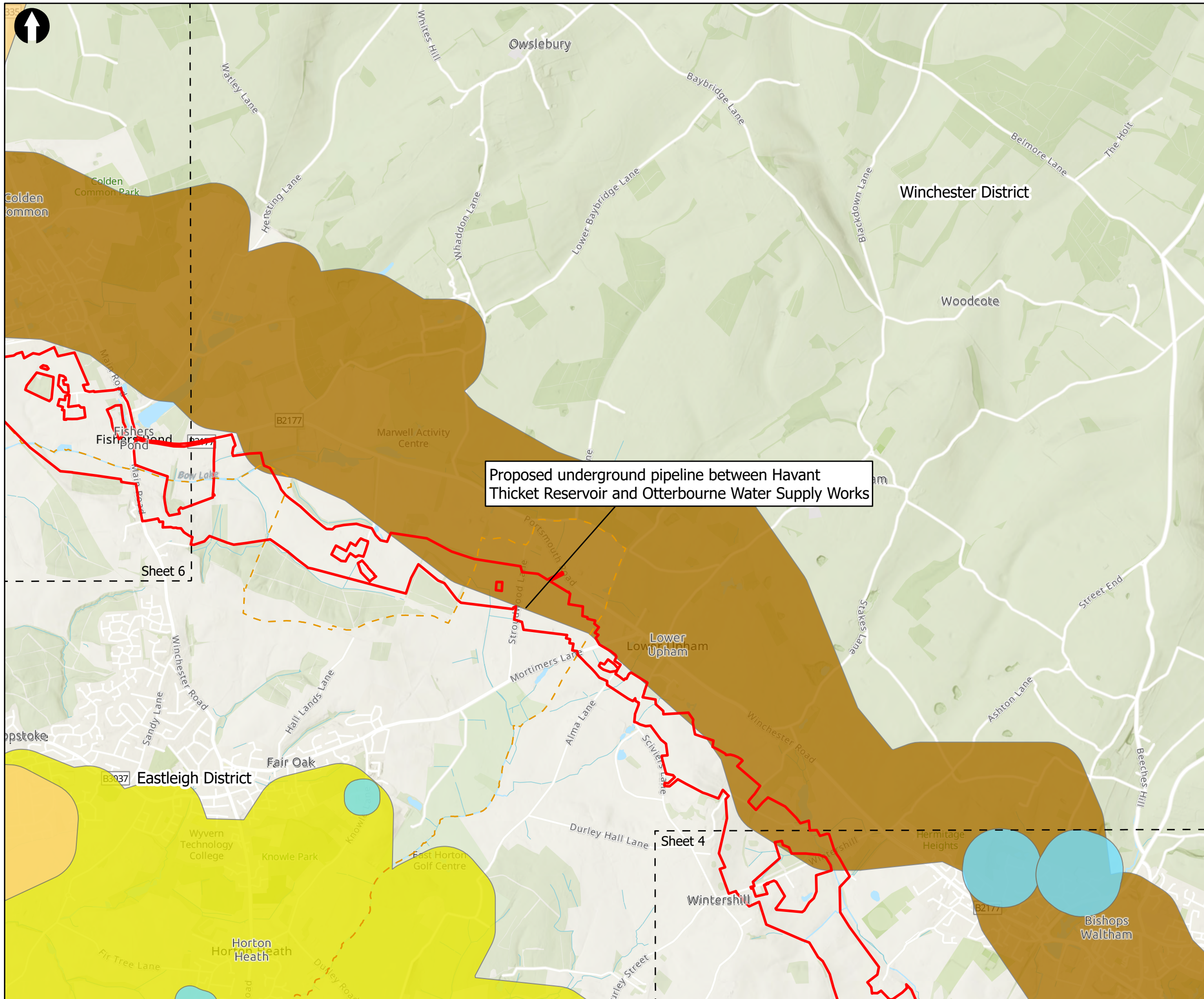
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 Sheet 4 of 8

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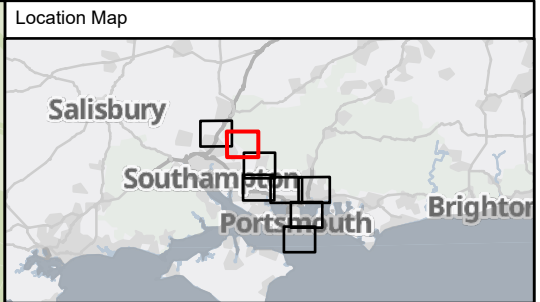
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Extent boxes 25K	Mineral Consultation Areas
Scoping Area	Superficial Sand and Gravel MSA
District boundary	Soft Sand MSA
Minerals and Waste Safeguarded Sites	Brick Clay MSA

**Notes**  
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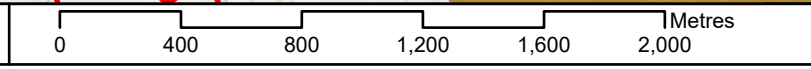
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 Sheet 5 of 8

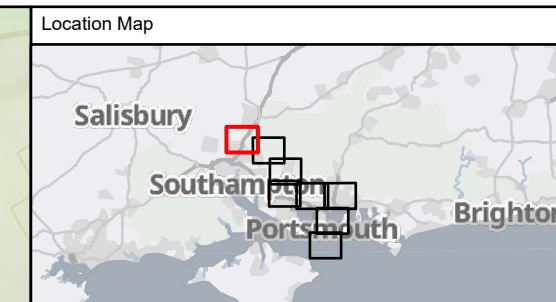
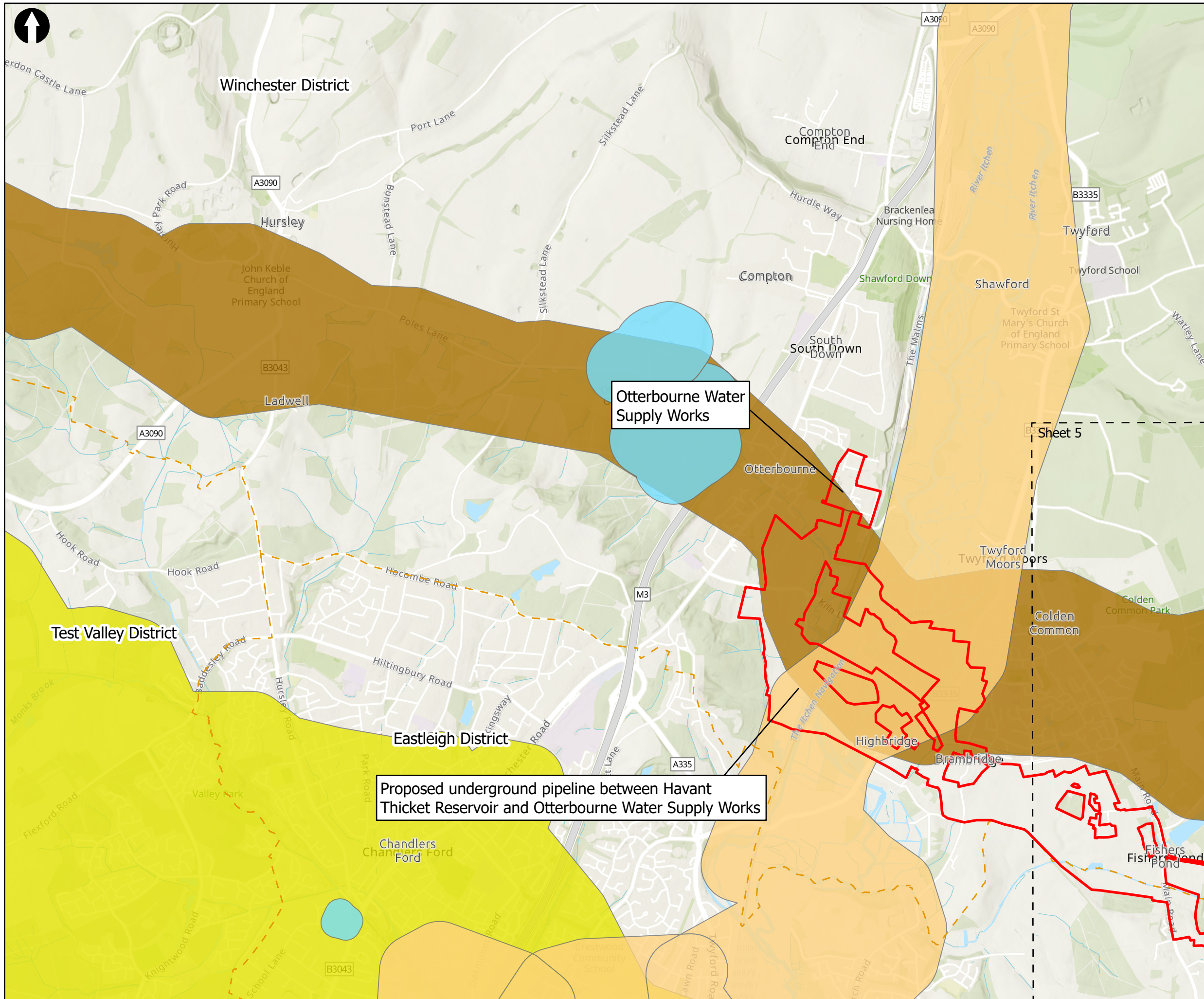
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**Key to Symbols**

- Extent boxes 25K
- Scoping Area
- District boundary
- Otterbourne Water Supply Works
- Minerals and Waste Safeguarded Sites
- Mineral Consultation Areas
  - Superficial Sand and Gravel MSA
  - Soft Sand MSA
  - Brick Clay MSA

**Notes**

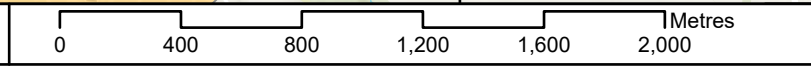
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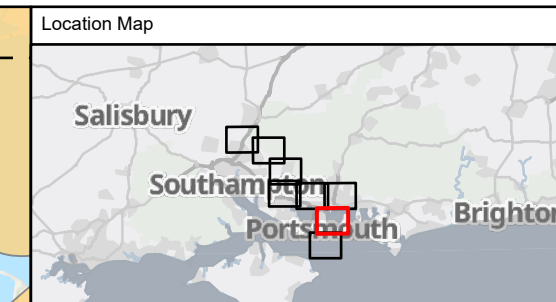
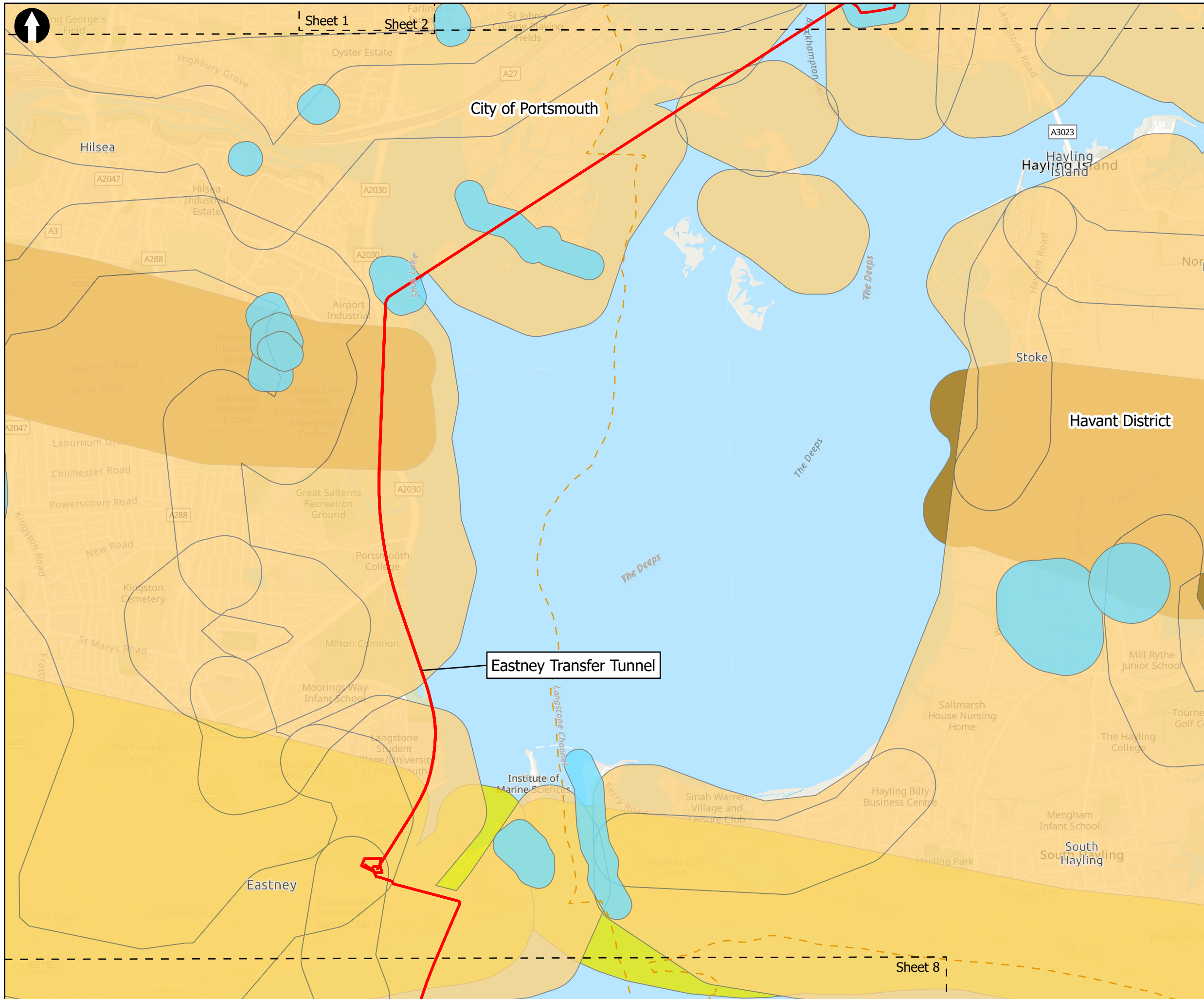
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 Mineral Safeguarding Areas and Safeguarded Sites  
 Sheet 6 of 8

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**Key to Symbols**

Extent boxes 25K	Minerals and Waste Safeguarded Sites
Scoping Area	<b>Mineral Consultation Areas</b>
District boundary	Wastewater Superficial Sand and Gravel MSA
Budds Farm	Soft Sand MSA
Treatment Works	Brick Clay MSA

**Notes**

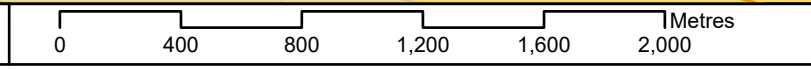
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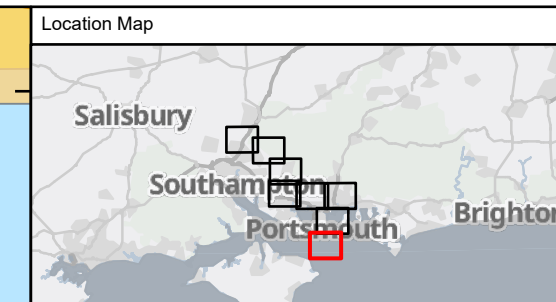
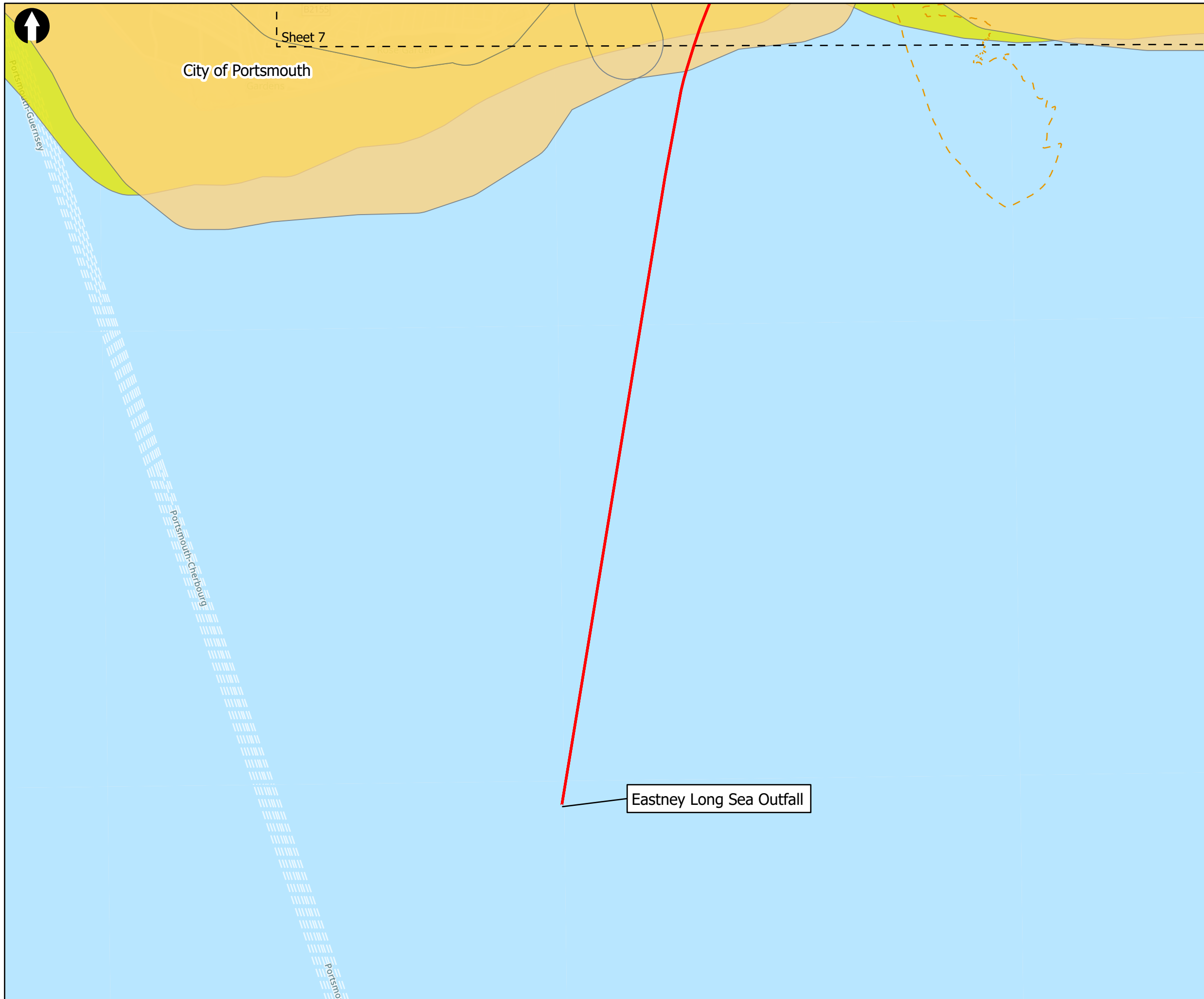
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 Mineral Safeguarding Areas and  
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 Sheet 7 of 8

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Key to Symbols

Extent boxes 25K	Mineral Consultation Areas
Scoping Area	Superficial Sand and Gravel MSA
District boundary	Soft Sand MSA

Notes

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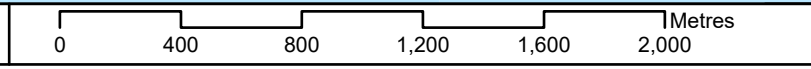
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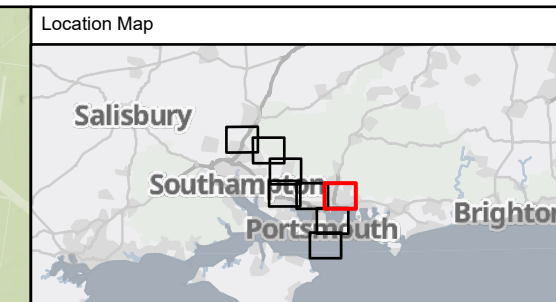
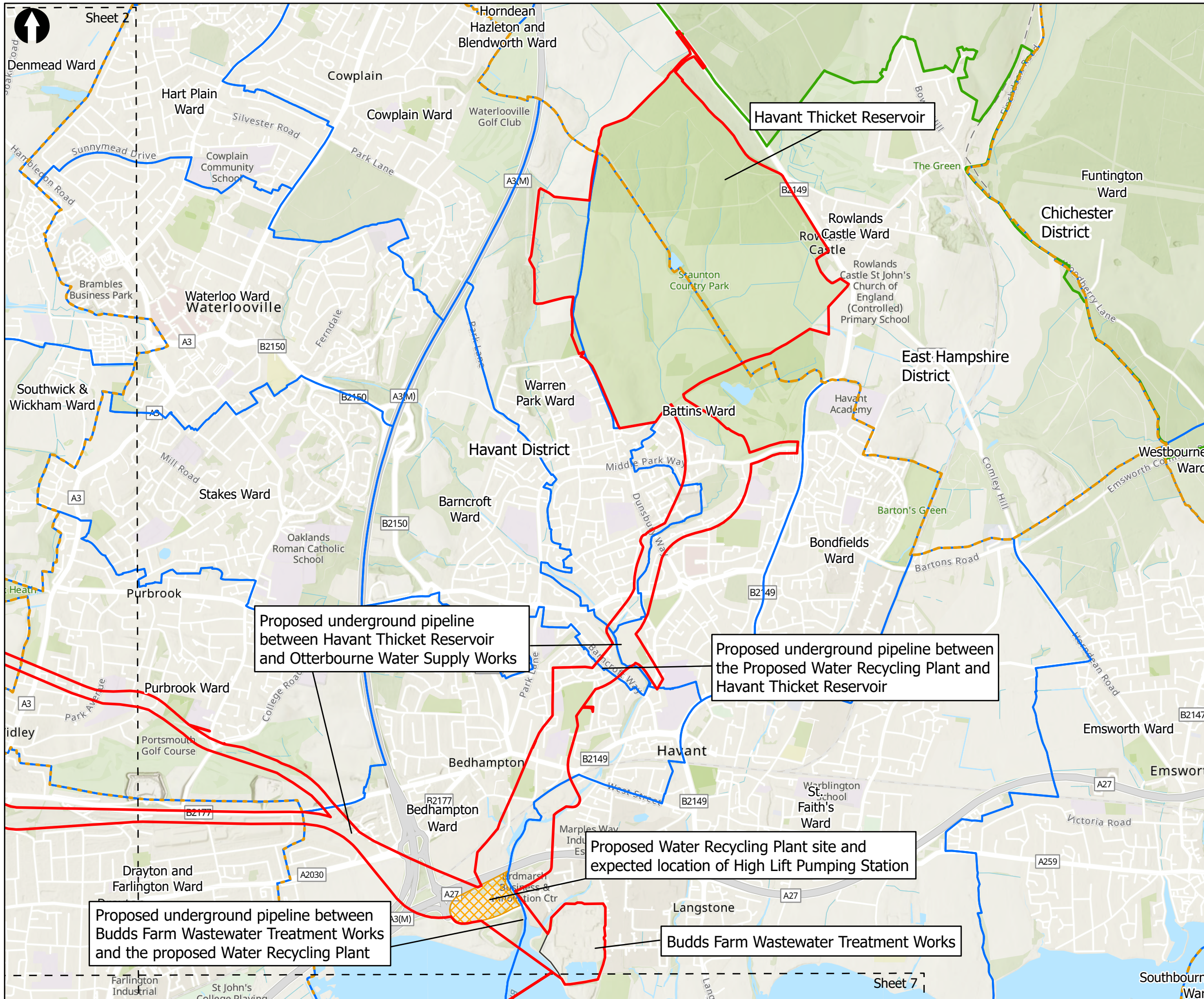
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Figure 15.1  
Mineral Safeguarding Areas and  
Safeguarded Sites  
Sheet 8 of 8

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**Key to Symbols**

	Scoping Area		Ward Boundary
	Water Recycling Plant and High Lift Pumping Station		Budds Farm Wastewater Treatment Works
	Extent boxes 25K		Otterbourne Water Supply Works
	District Boundary		National Parks

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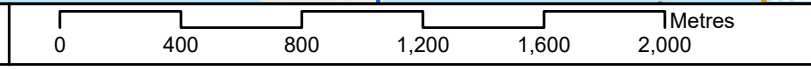
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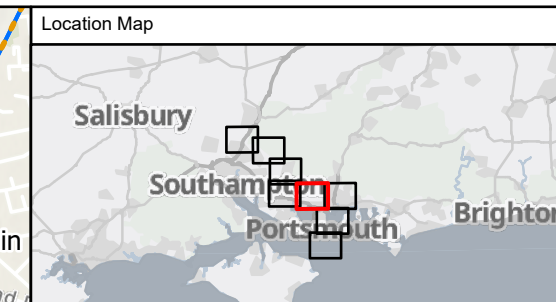
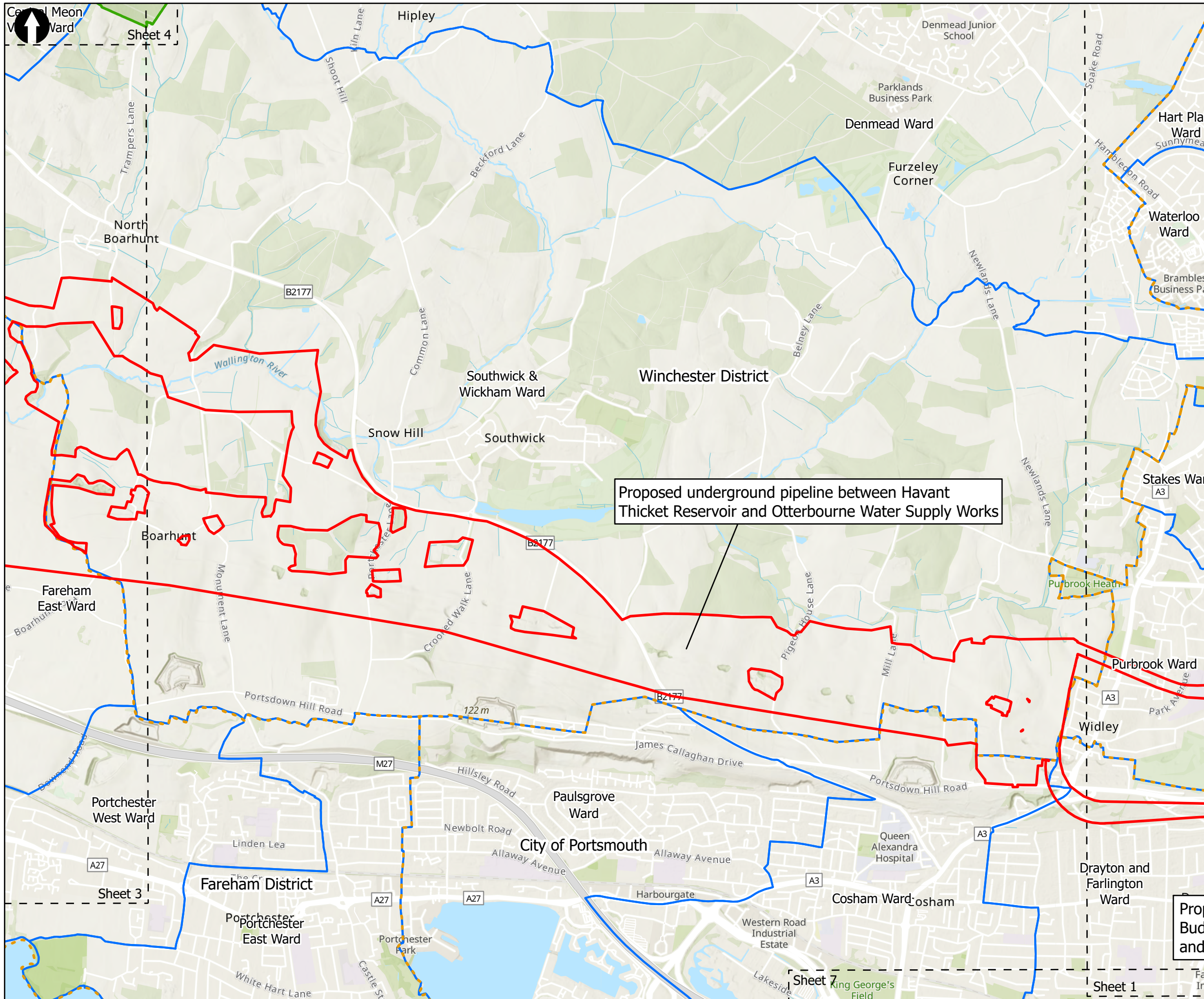


**Title**  
 Figure 16.1  
 Study Area  
 Sheet 1 of 8

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**Key to Symbols**


<span style="color: red;">—</span> Scoping Area	Buds Farm Wastewater Treatment Works
Extent boxes 25K	Otterbourne Water Supply Works
District Boundary	National Parks
Ward Boundary	

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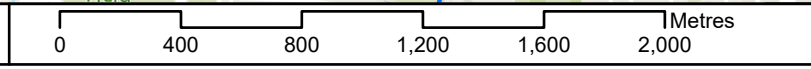
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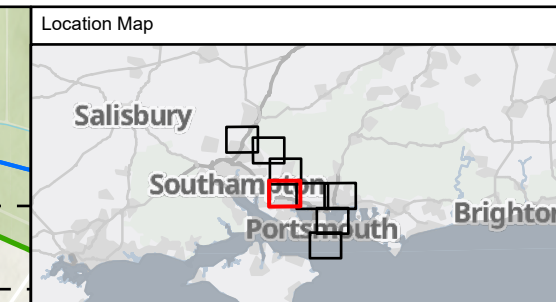
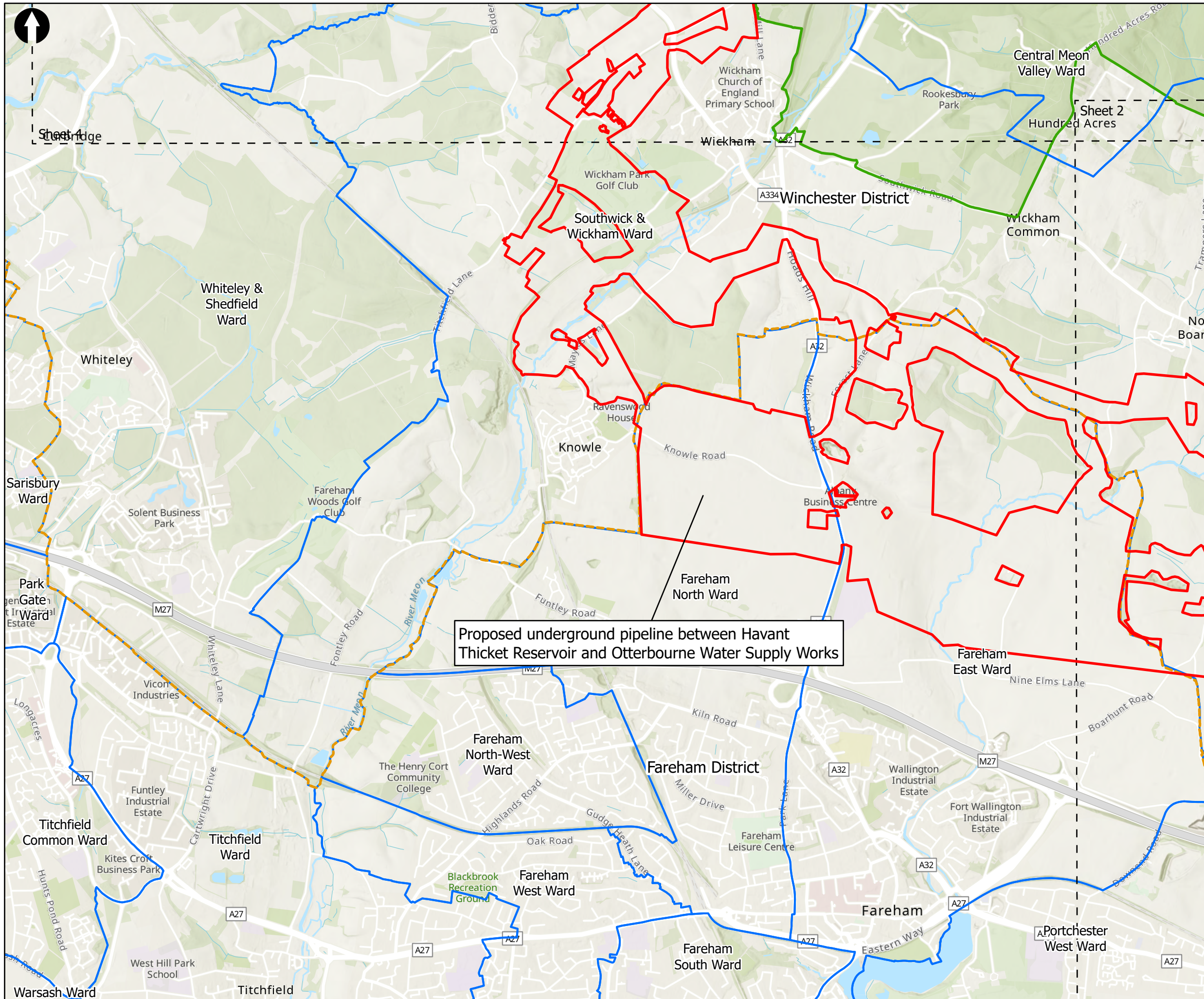
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**Key to Symbols**

	Scoping Area		Budds Farm Wastewater Treatment Works
	Extent boxes 25K		Otterbourne Water Supply Works
	District Boundary		National Parks
	Ward Boundary		

**Notes**

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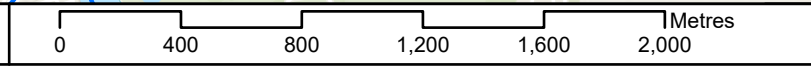
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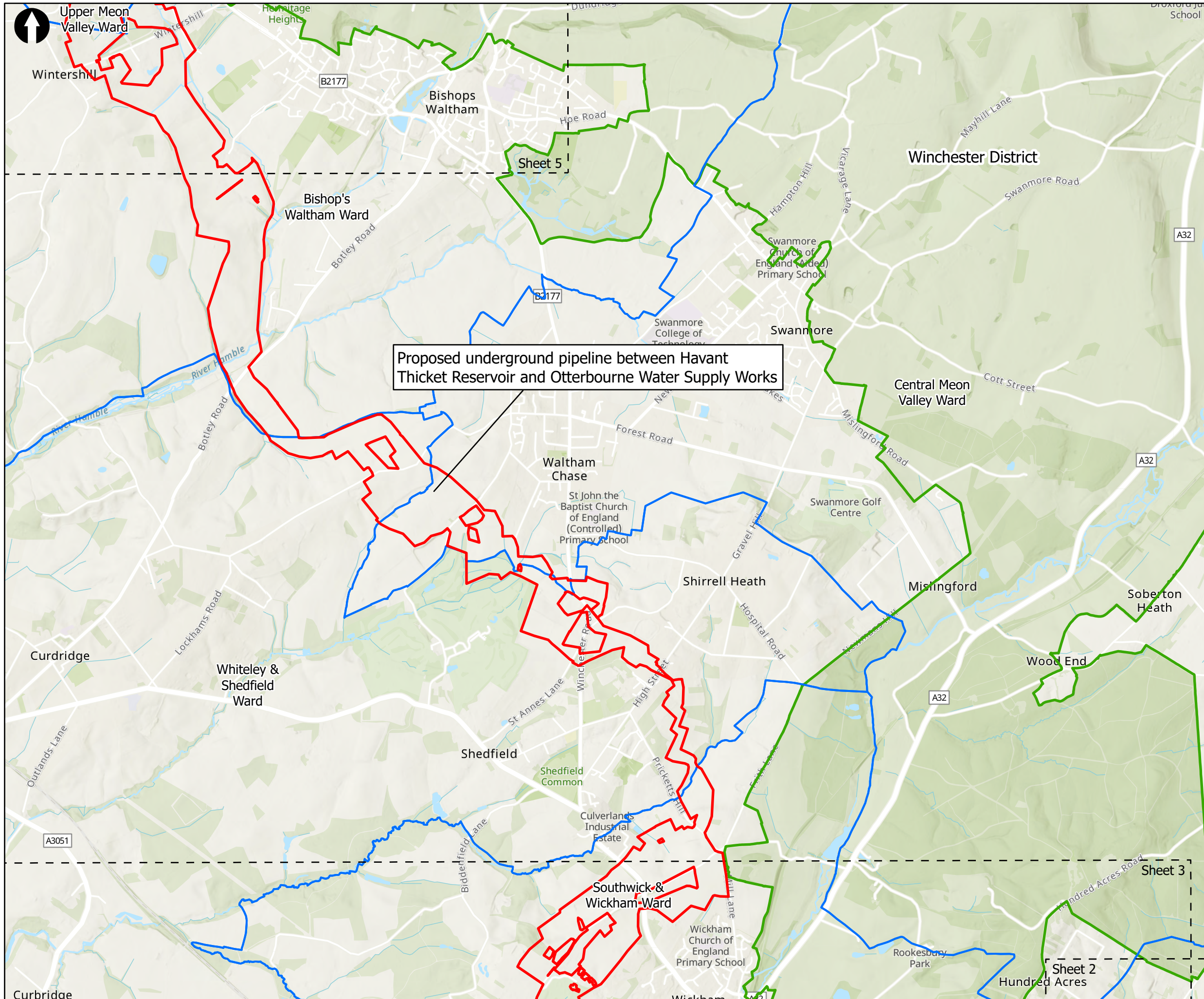


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Study Area  
Sheet 3 of 8

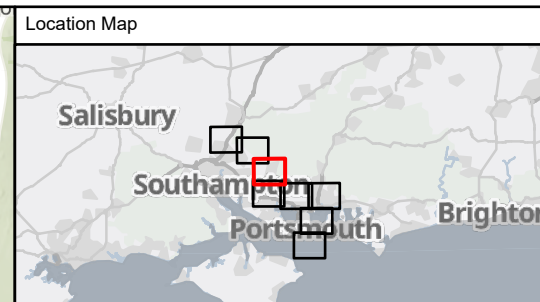
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**


	Scoping Area		Budds Farm Wastewater Treatment Works
	Extent boxes 25K		Otterbourne Water Supply Works
	District Boundary		National Parks
	Ward Boundary		

**Notes**

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**Title**  
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Study Area  
Sheet 4 of 8

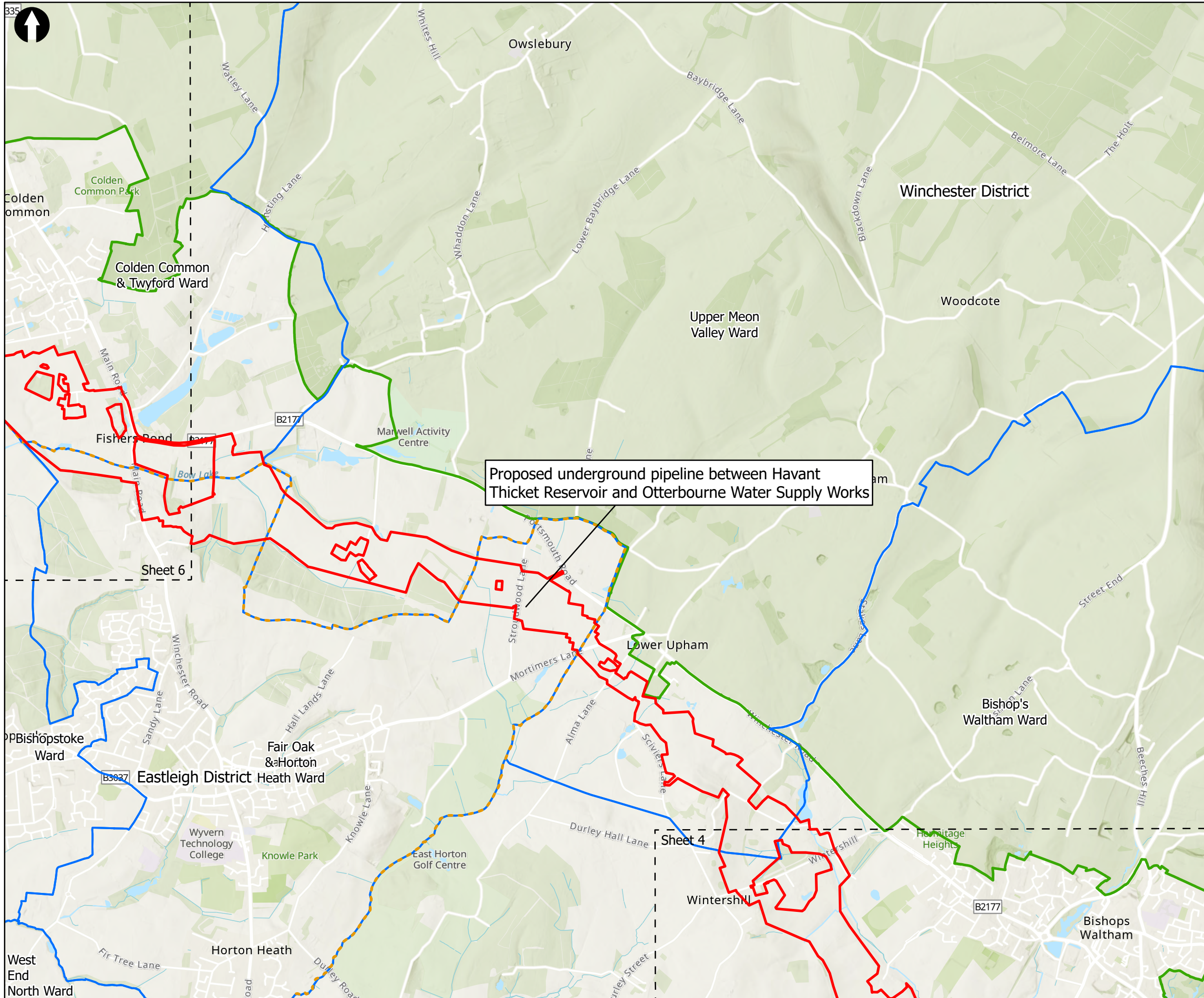
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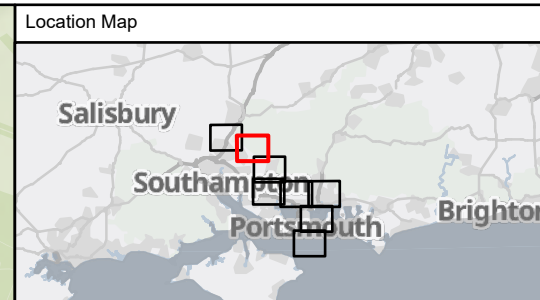


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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



**Key to Symbols**

Scoping Area	Budds Farm Wastewater Treatment Works
Extent boxes 25K	Otterbourne Water Supply Works
District Boundary	National Parks
Ward Boundary	

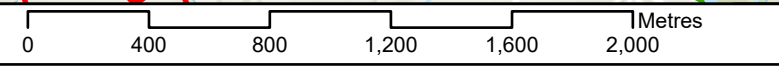
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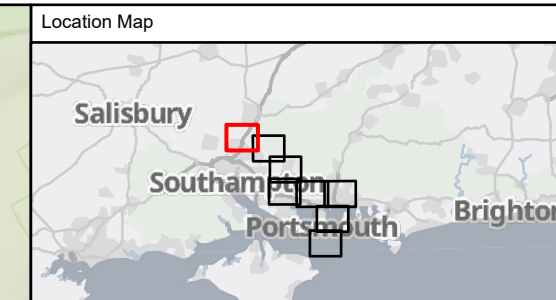
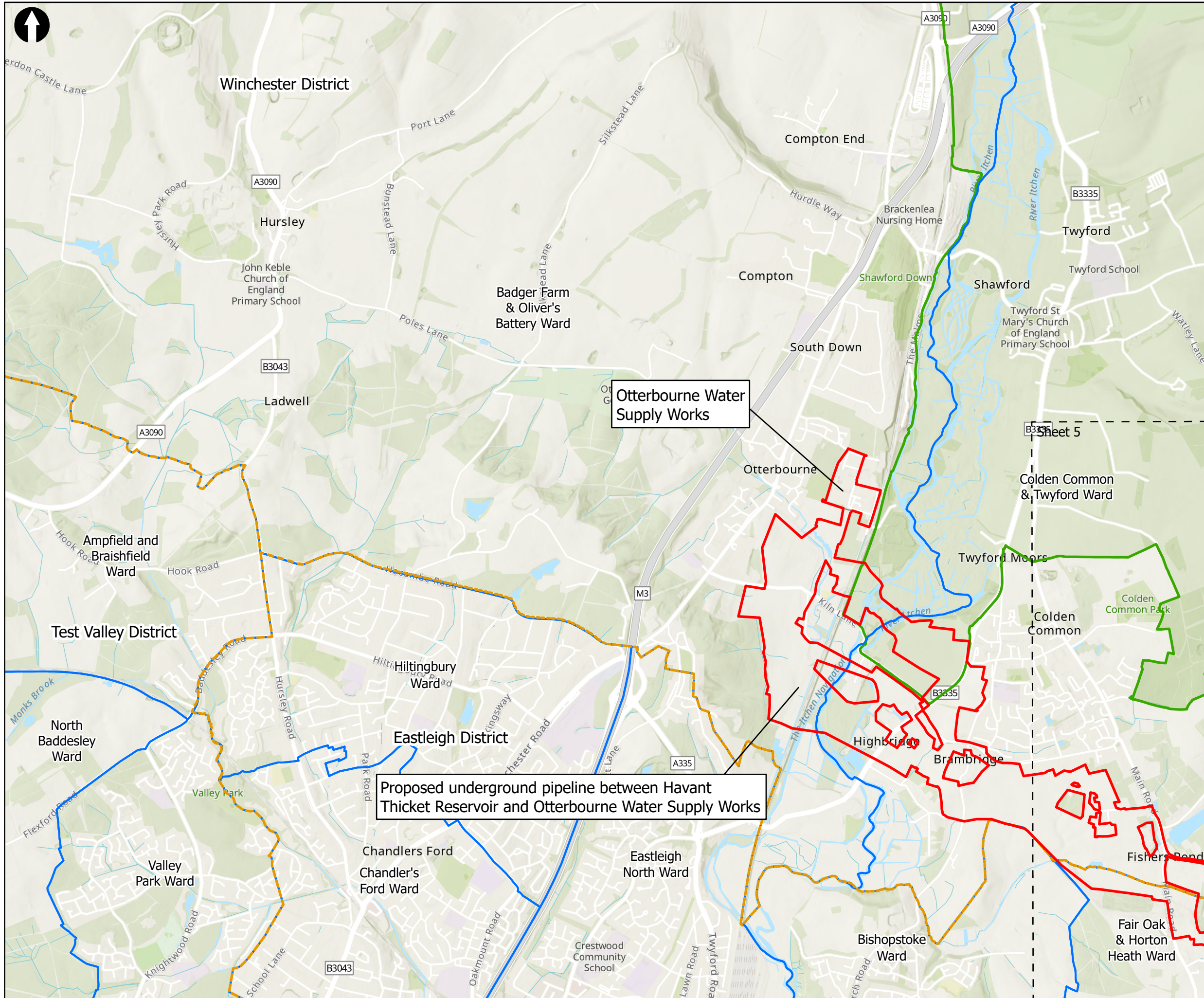
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 Figure 16.1  
 Study Area  
 Sheet 5 of 8

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**710166-SWS-XX-XX-DR-Z-00**





**Key to Symbols**

Scoping Area	Buds Farm Wastewater Treatment Works
Extent boxes 25K	Otterbourne Water Supply Works
District Boundary	National Parks
Ward Boundary	

**Notes**

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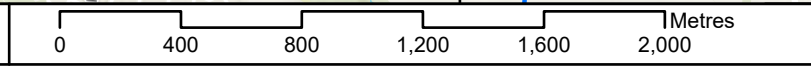
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**Title**  
Figure 16.1  
Study Area  
Sheet 6 of 8

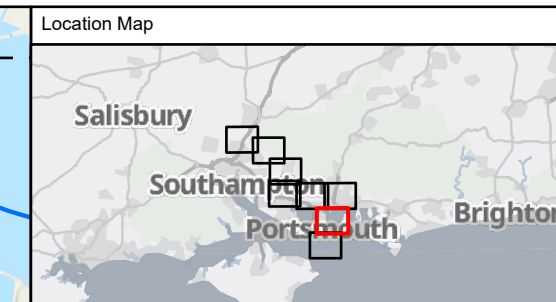
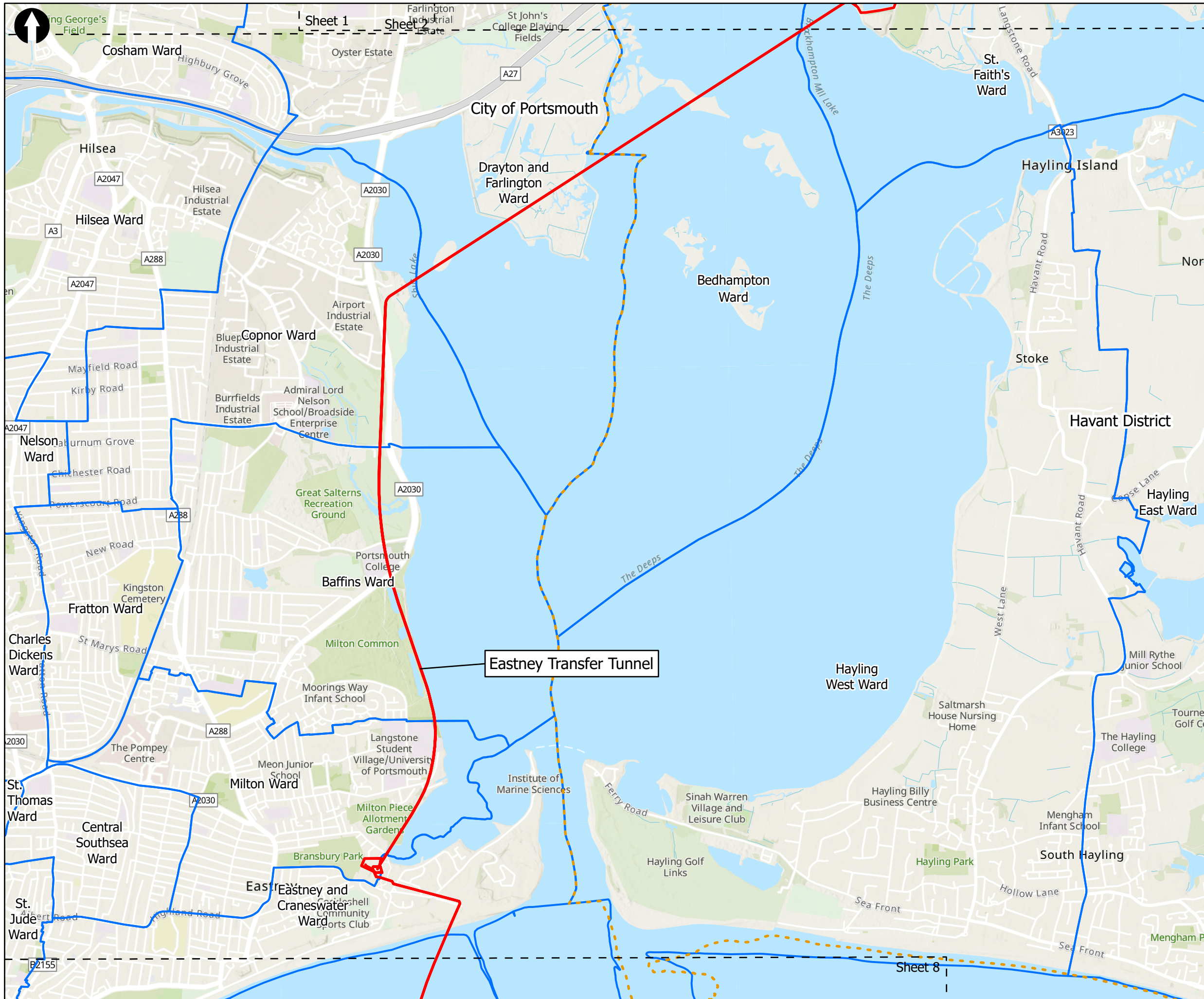
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**710166-SWS-XX-XX-DR-Z-00**





**Key to Symbols**

	Scoping Area		Budds Farm Wastewater Treatment Works
	Extent boxes 25K		Otterbourne Water Supply Works
	District Boundary		National Parks
	Ward Boundary		

**Notes**

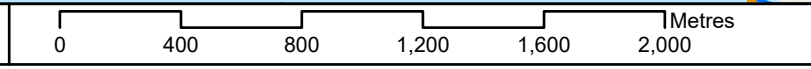
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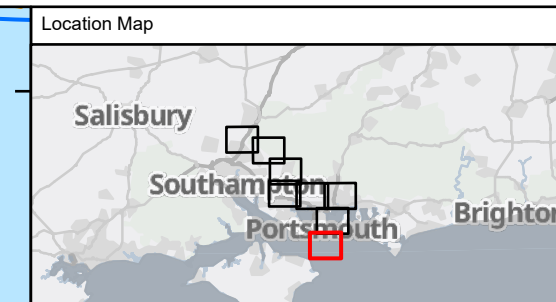
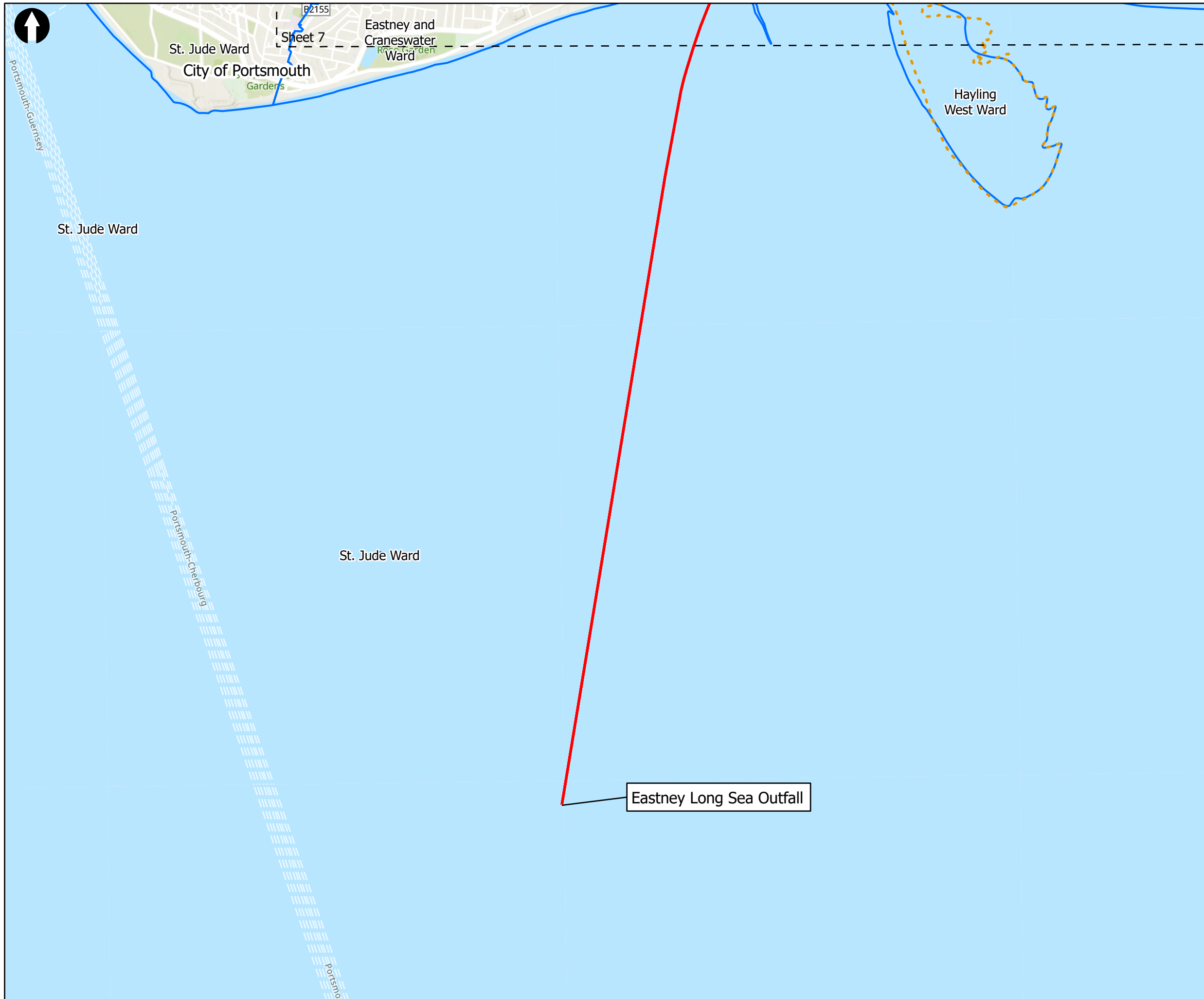
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**Title**  
 Figure 16.1  
 Study Area  
 Sheet 7 of 8

Designed	N/A	-	Check	SF	-
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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	Budds Farm Wastewater Treatment Works
Extent boxes 25K	Otterbourne Water Supply Works
District Boundary	National Parks
Ward Boundary	

**Notes**

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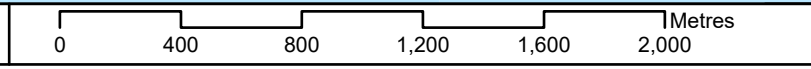
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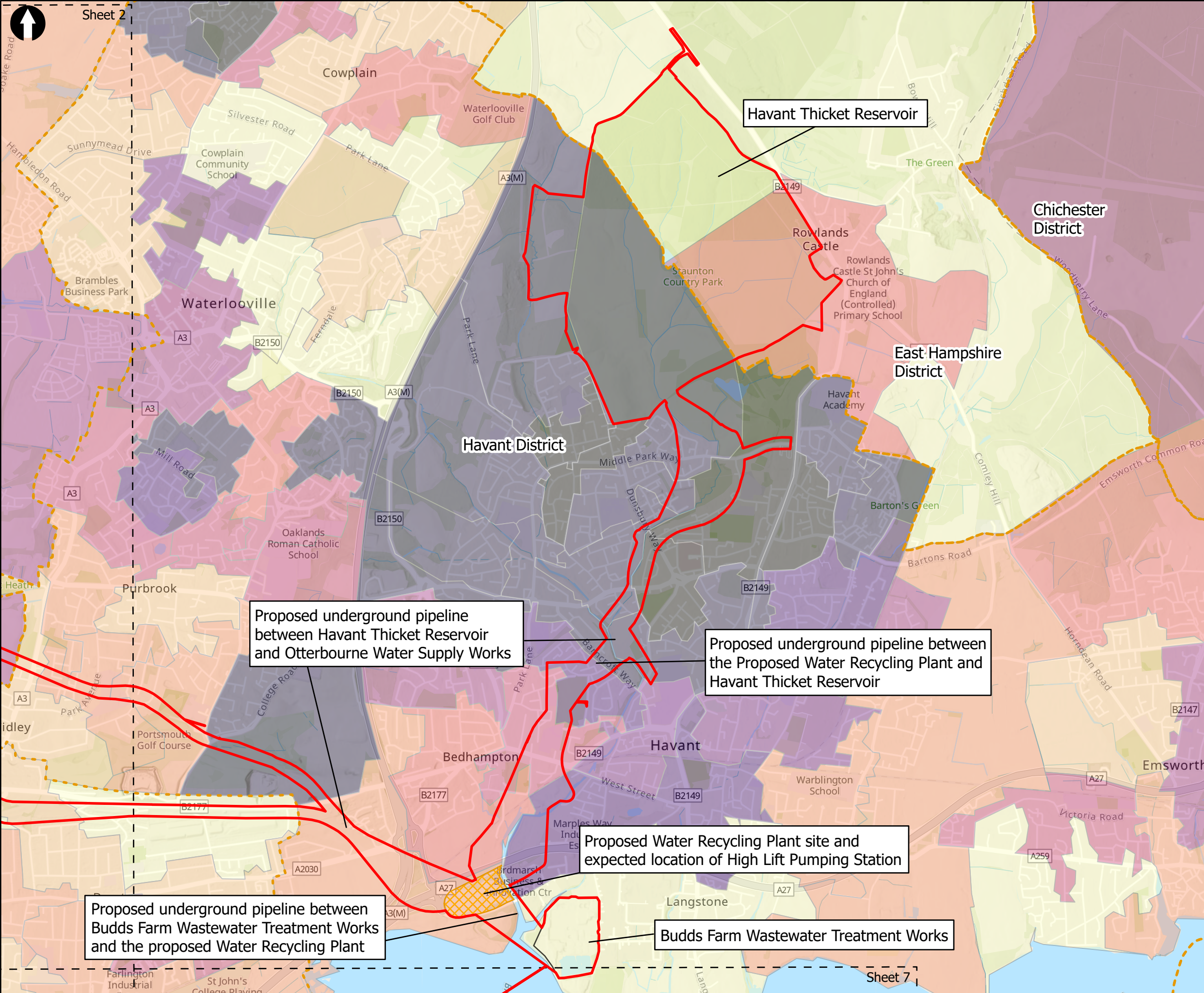


**Title**  
 Figure 16.1  
 Study Area  
 Sheet 8 of 8

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GIS Check	GC	-	Approved	MP	-
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**Key to Symbols**

- Scoping Area
- Water Recycling Plant and High Lift Pumping Station
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

**Indices of Multiple Deprivation (2019) - (Based on LSOA's)**

- Most deprived decile
- 2nd
- 3rd
- 4th
- 5th
- 6th
- 7th
- 8th
- 9th
- Least deprived decile

**Notes**

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Index of Multiple Deprivation  
Sheet 1 of 8

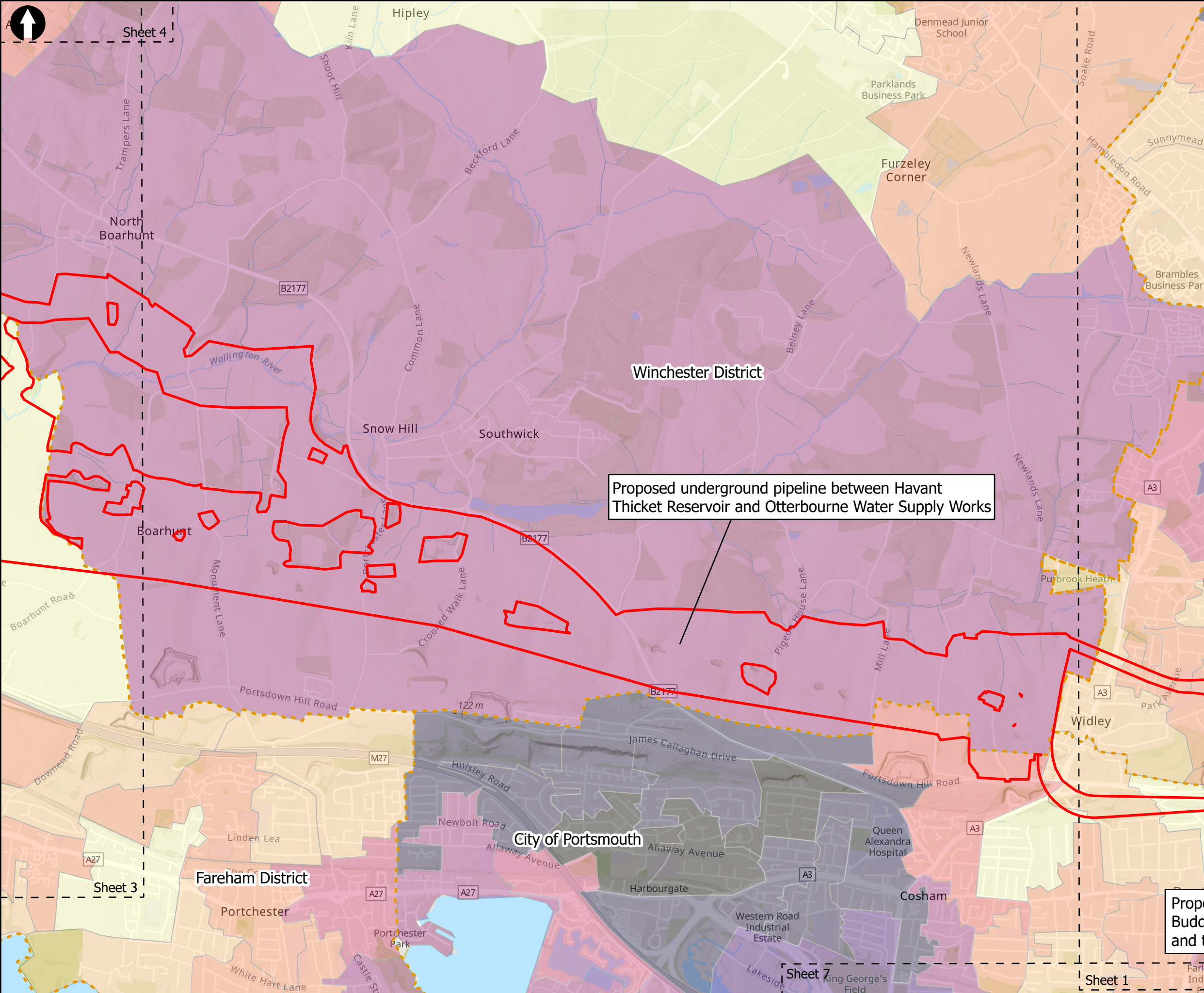
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**710166-SWS-XX-XX-DR-Z-00**

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**Key to Symbols**

- Scoping Area
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

**Indices of Multiple Deprivation (2019) - (Based on LSOA's)**

- Most deprived decile
- 2nd
- 3rd
- 4th
- 5th
- 6th
- 7th
- 8th
- 9th
- Least deprived decile



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

**Notes**

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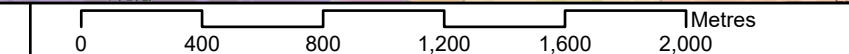



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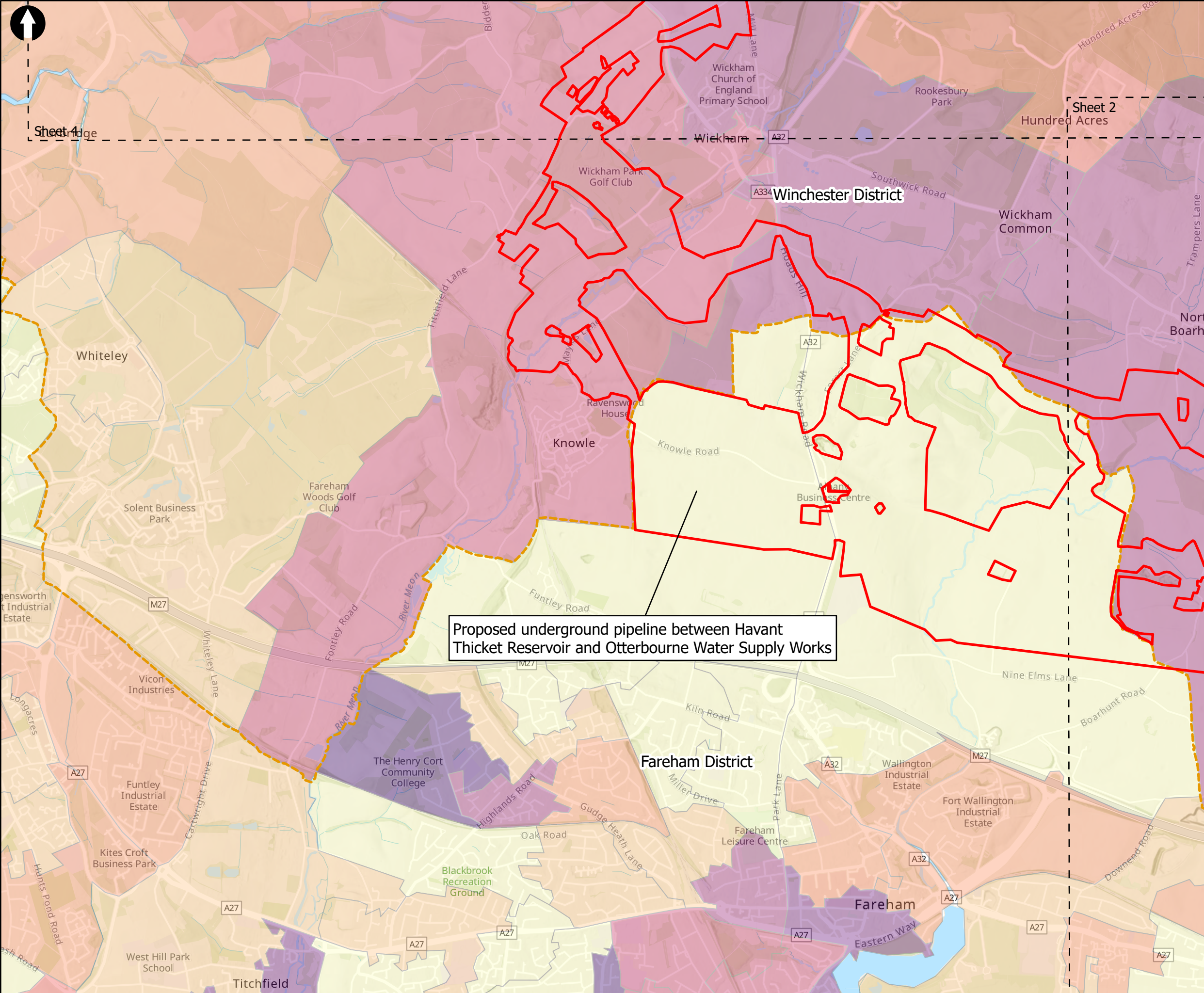
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Sheet 2 of 8

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**710166-SWS-XX-XX-DR-Z-00**







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



Key to Symbols

Scoping Area	Indices of Multiple Deprivation (2019) - (Based on LSOA's)
Extent boxes 25K	
District Boundary	
Budds Farm Wastewater Treatment Works	
Otterbourne Water Supply Works	
	<ul style="list-style-type: none"> <li> Most deprived decile</li> <li> 2nd</li> <li> 3rd</li> <li> 4th</li> <li> 5th</li> <li> 6th</li> <li> 7th</li> <li> 8th</li> <li> 9th</li> <li> Least deprived decile</li> </ul>

Notes

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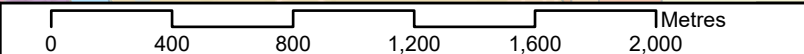


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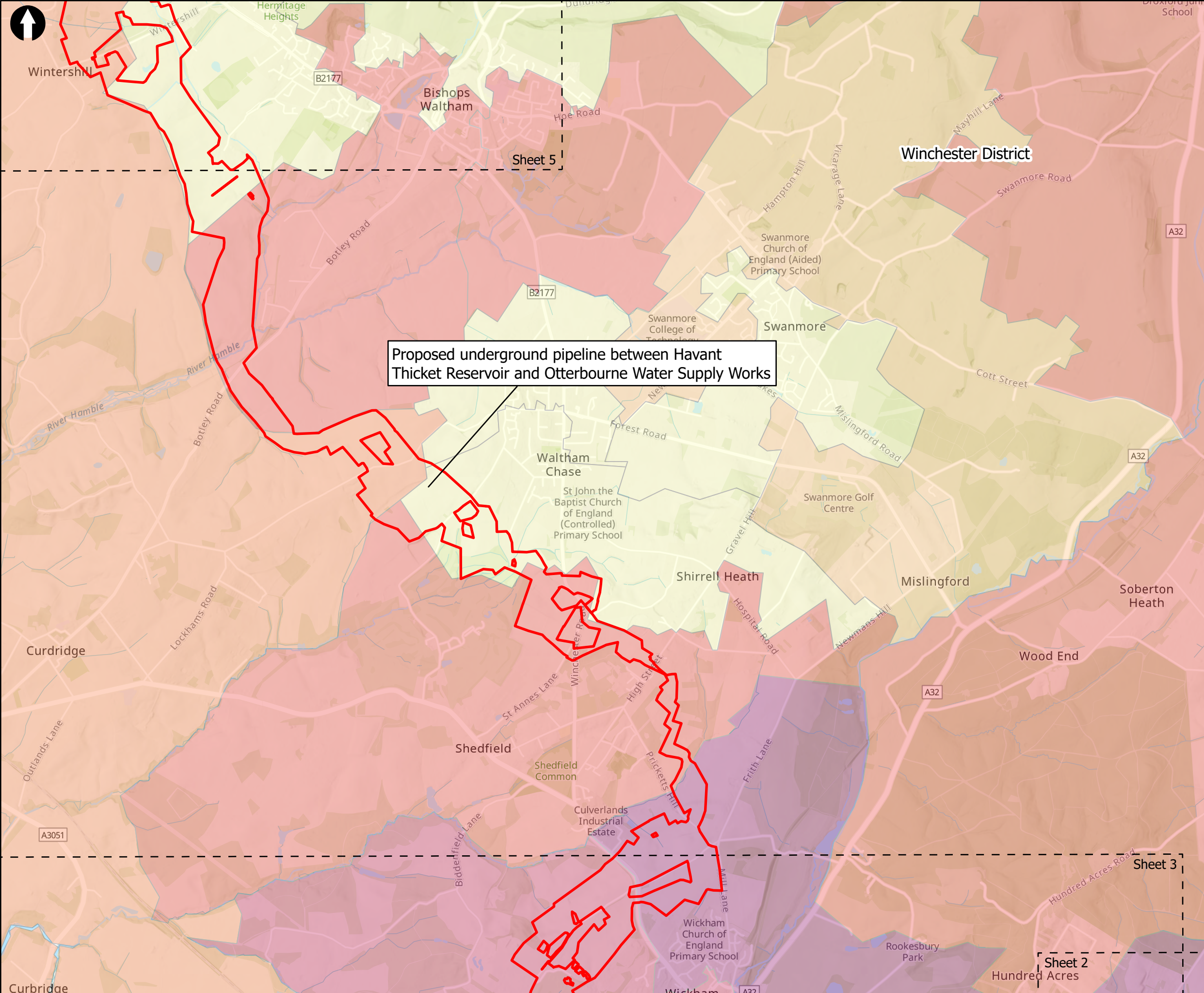
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Sheet 3 of 8

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



**Key to Symbols**

- Scoping Area
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

**Indices of Multiple Deprivation (2019) - (Based on LSOA's)**

- Most deprived decile
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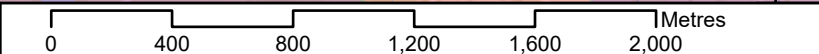
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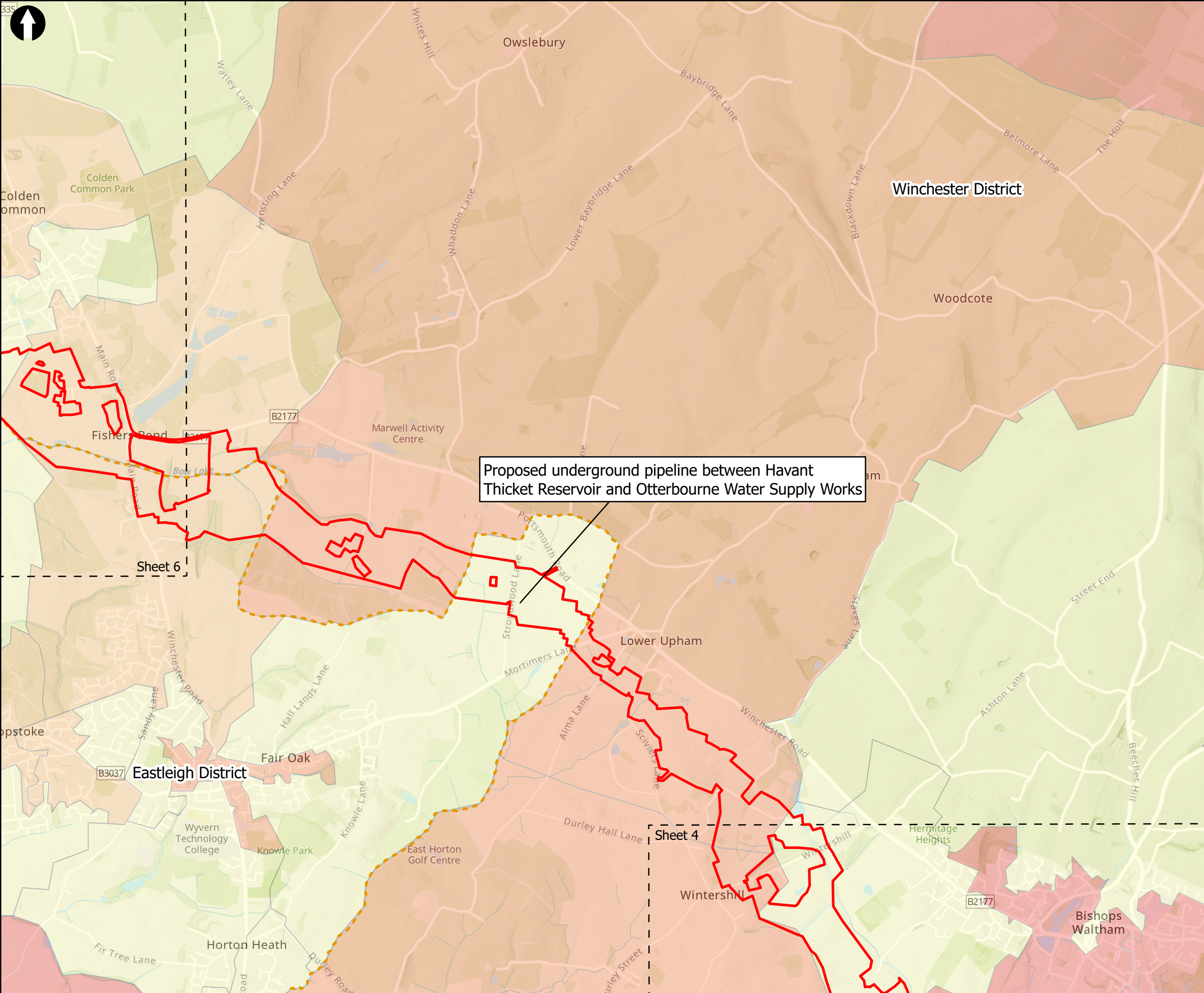
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Index of Multiple Deprivation  
Sheet 4 of 8

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**Key to Symbols**

- Scoping Area
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

**Indices of Multiple Deprivation (2019) - (Based on LSOA's)**

- Most deprived decile
- 2nd
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- 5th
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**Notes**

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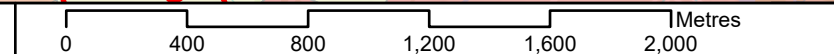
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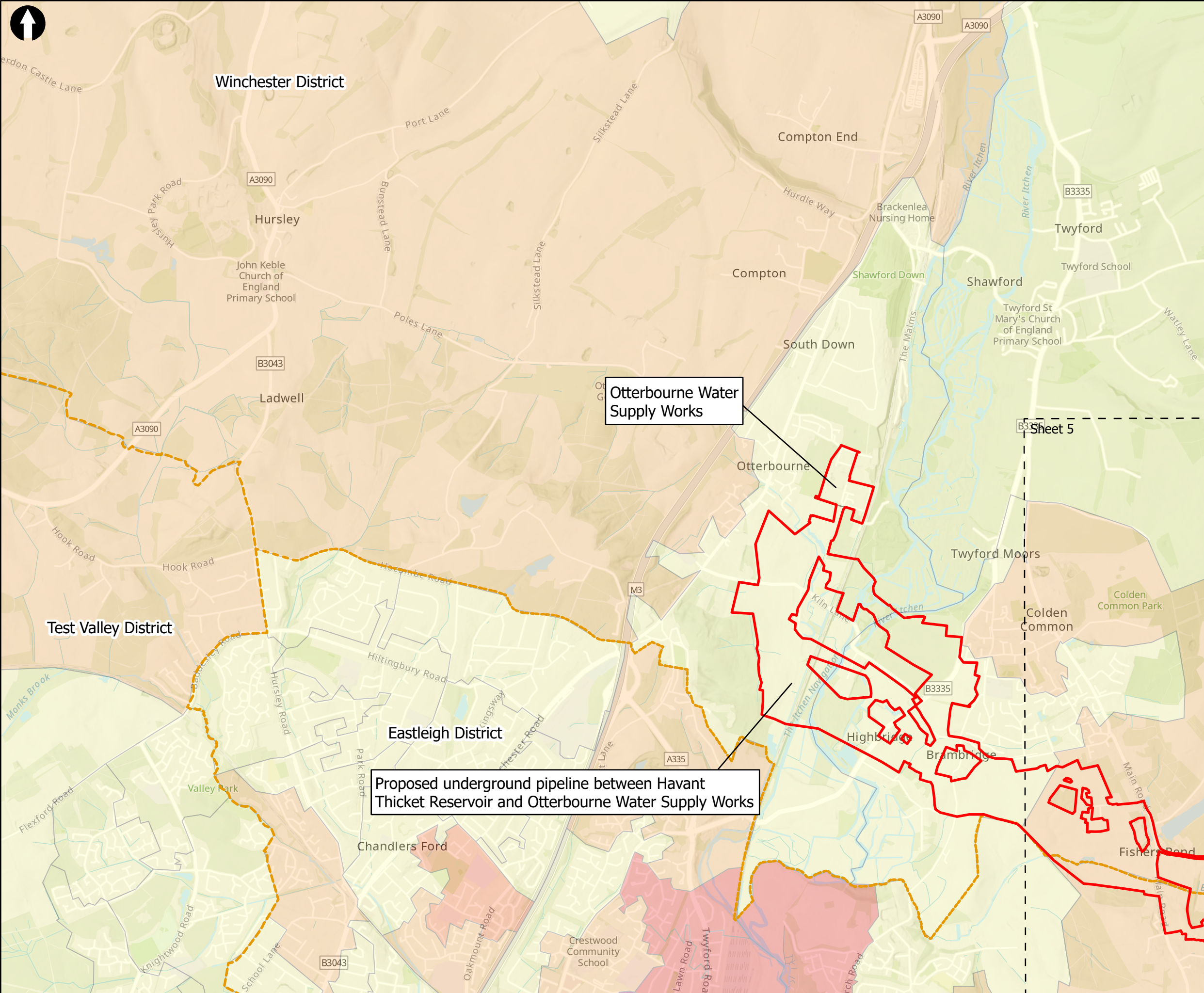

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Figure 16.2  
Index of Multiple Deprivation  
Sheet 5 of 8

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Key to Symbols

- Scoping Area
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

Indices of Multiple Deprivation (2019) - (Based on LSOA's)

- Most deprived decile
- 2nd
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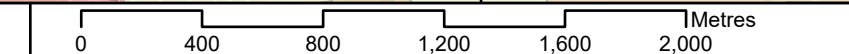
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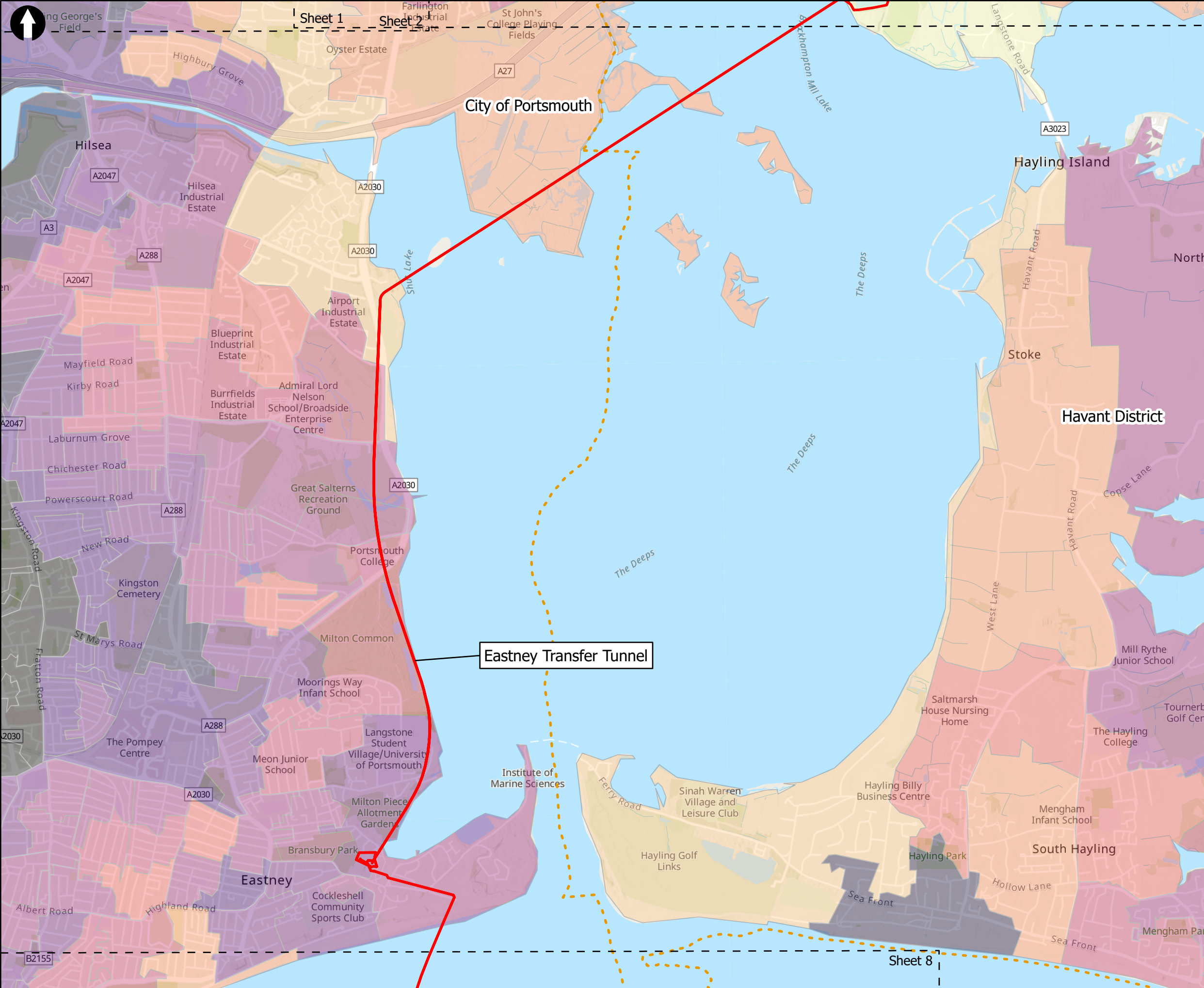
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Index of Multiple Deprivation  
Sheet 6 of 8

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**Key to Symbols**

- Scoping Area
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

**Indices of Multiple Deprivation (2019) - (Based on LSOA's)**

- Most deprived decile
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**Notes**

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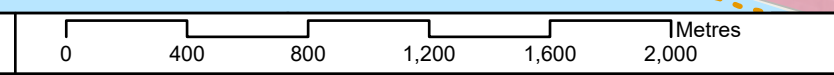
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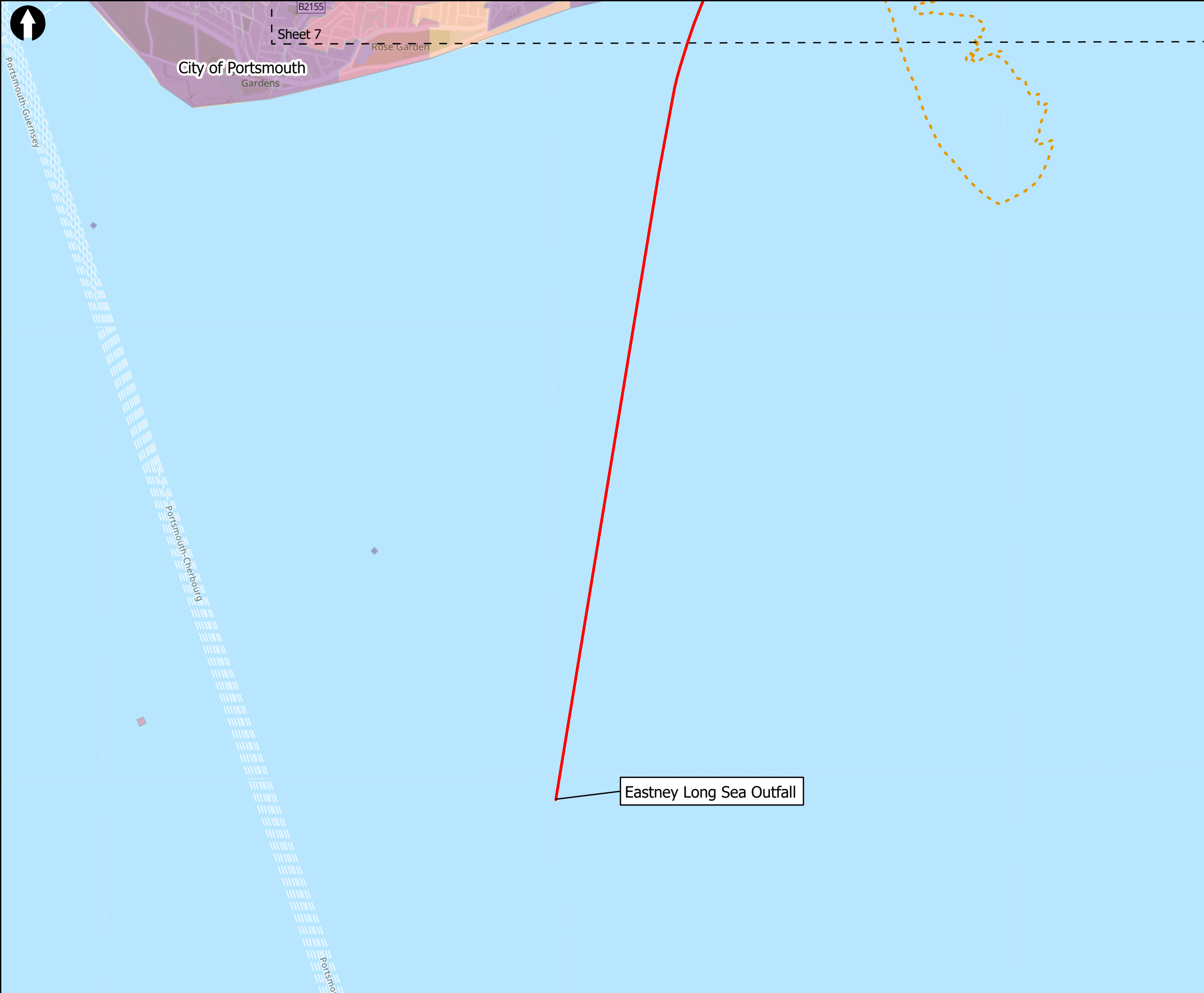
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Sheet 7 of 8

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**Key to Symbols**

- Scoping Area
- Extent boxes 25K
- District Boundary
- Budds Farm Wastewater Treatment Works
- Otterbourne Water Supply Works

**Indices of Multiple Deprivation (2019) - (Based on LSOA's)**

- Most deprived decile
- 2nd
- 3rd
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- 7th
- 8th
- 9th
- Least deprived decile

**Notes**

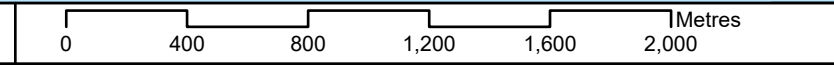
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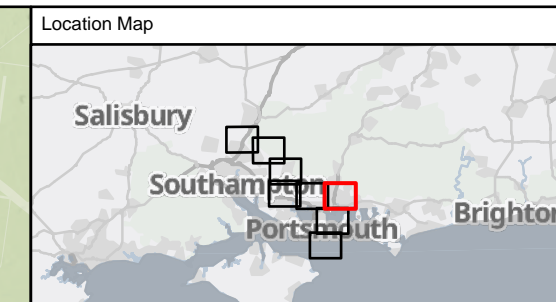
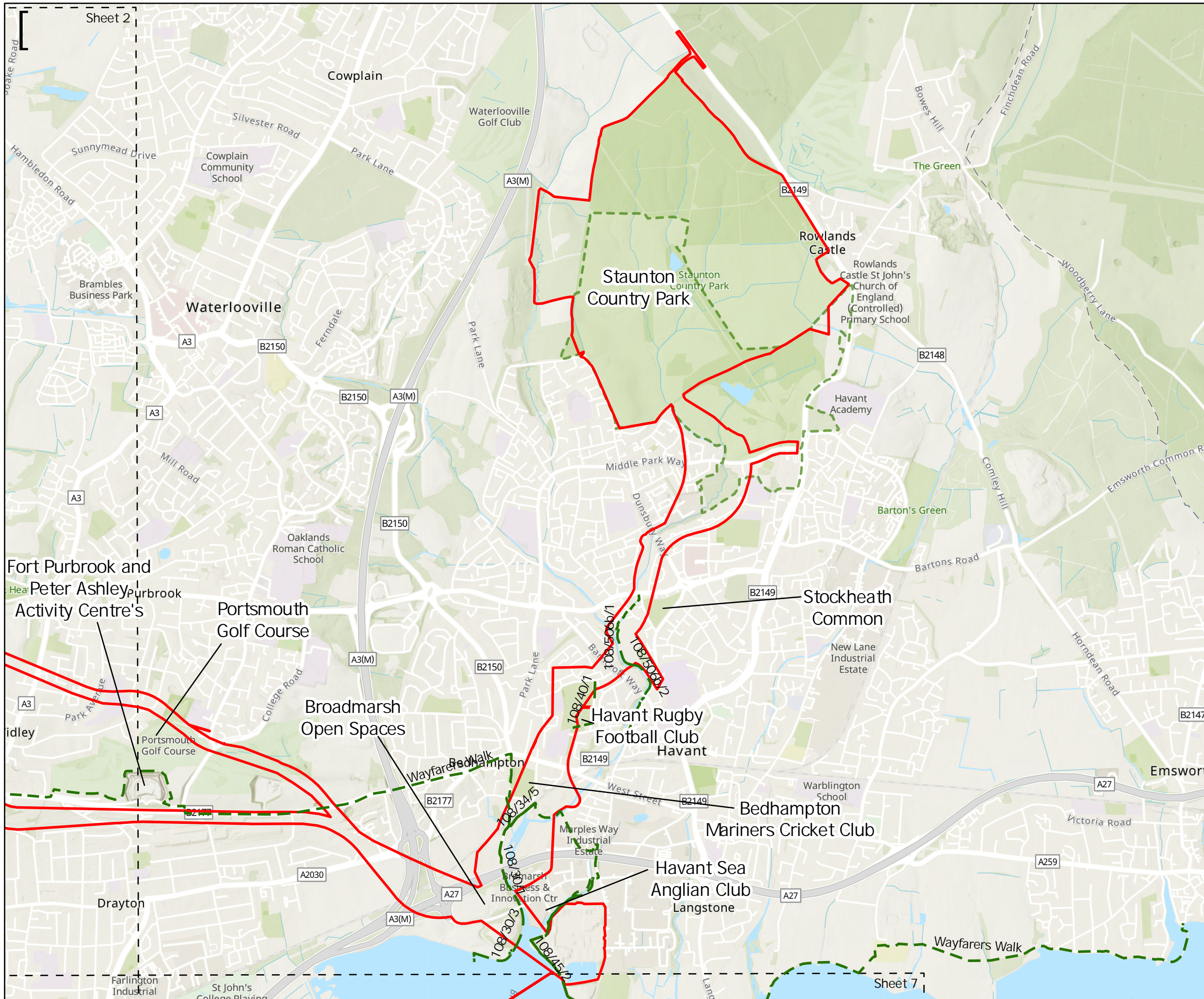
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Figure 16.2  
Index of Multiple Deprivation  
Sheet 8 of 8

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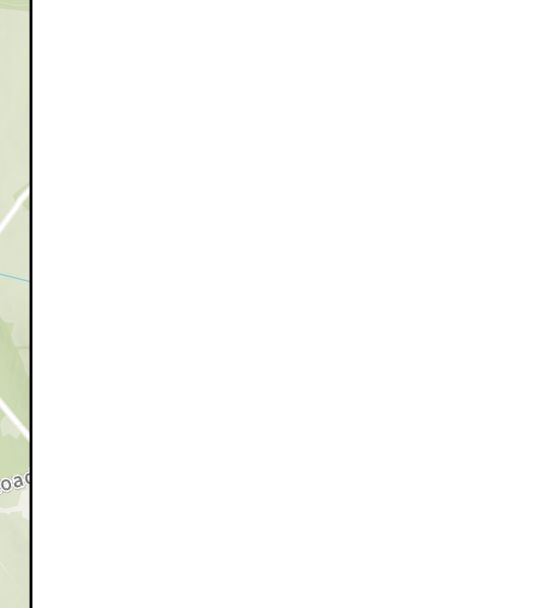






**Key to Symbols**

	Scoping Area		Public Rights of Way (PROW)
	Wayfarers Walk Long Distance Footpath		Staunton Country Park

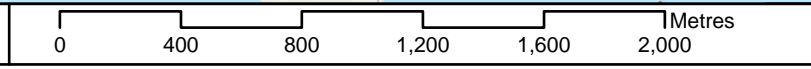


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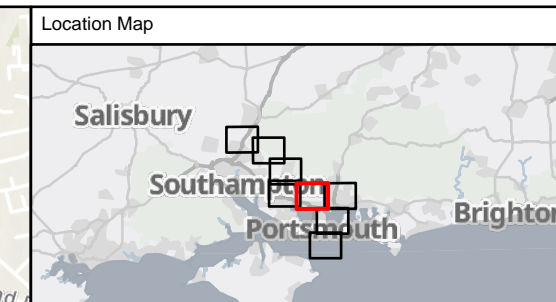
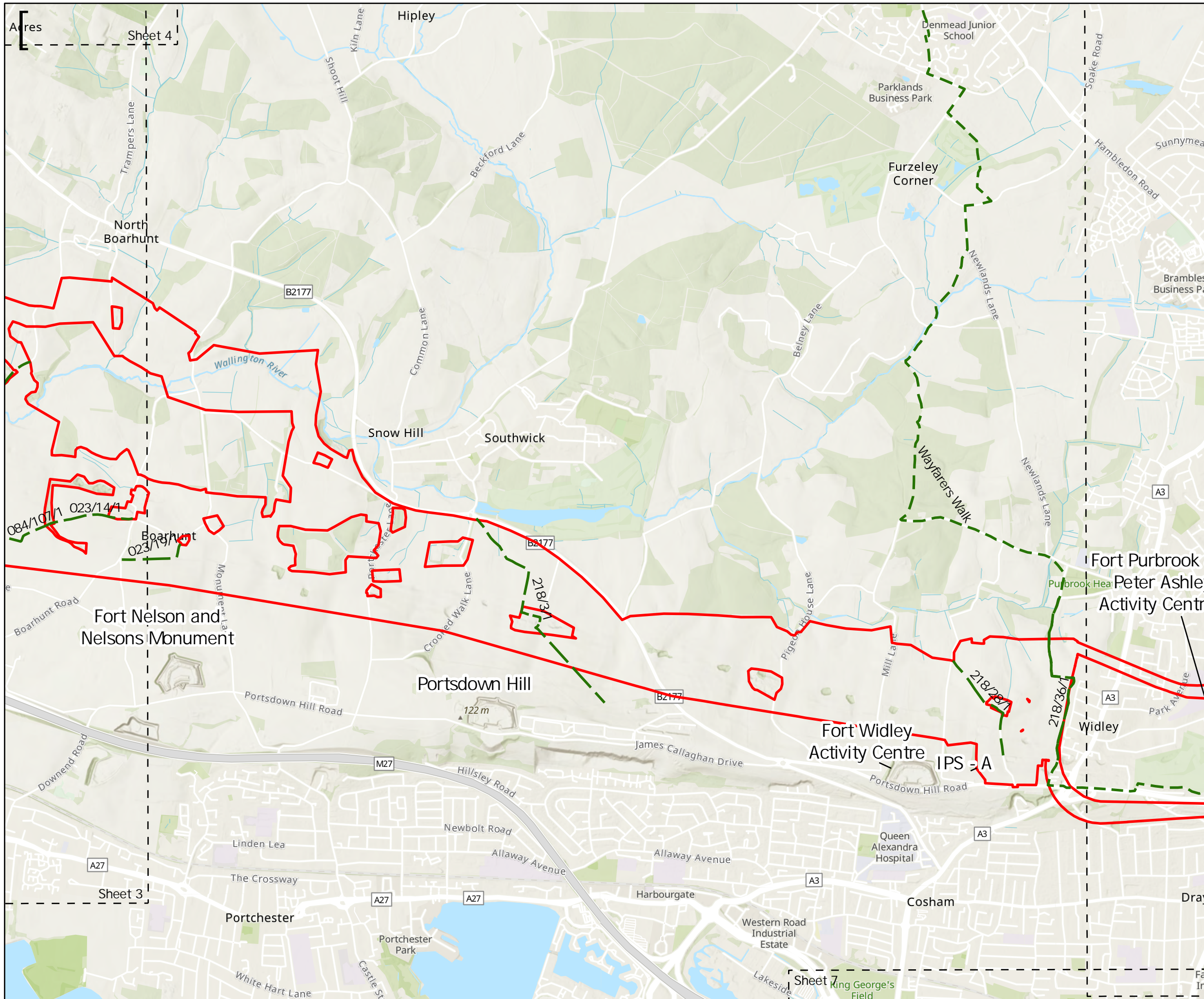


**Title**  
 Figure 16.3  
 Tourism and Recreation Receptors  
 Sheet 1 of 8

Designed	A	-	Check	A	-
Drawn	A	-	Review	A	-
GIS Check	A	-	Approved	A	-
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**Key to Symbols**

Scoping Area	Public Rights of Way (PROW)
Wayfarers Walk Long Distance Footpath	Staunton Country Park

**Notes**

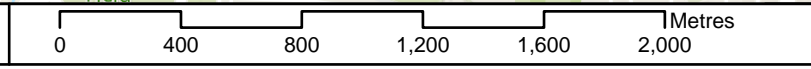
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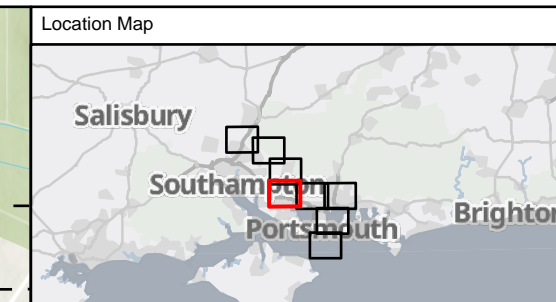
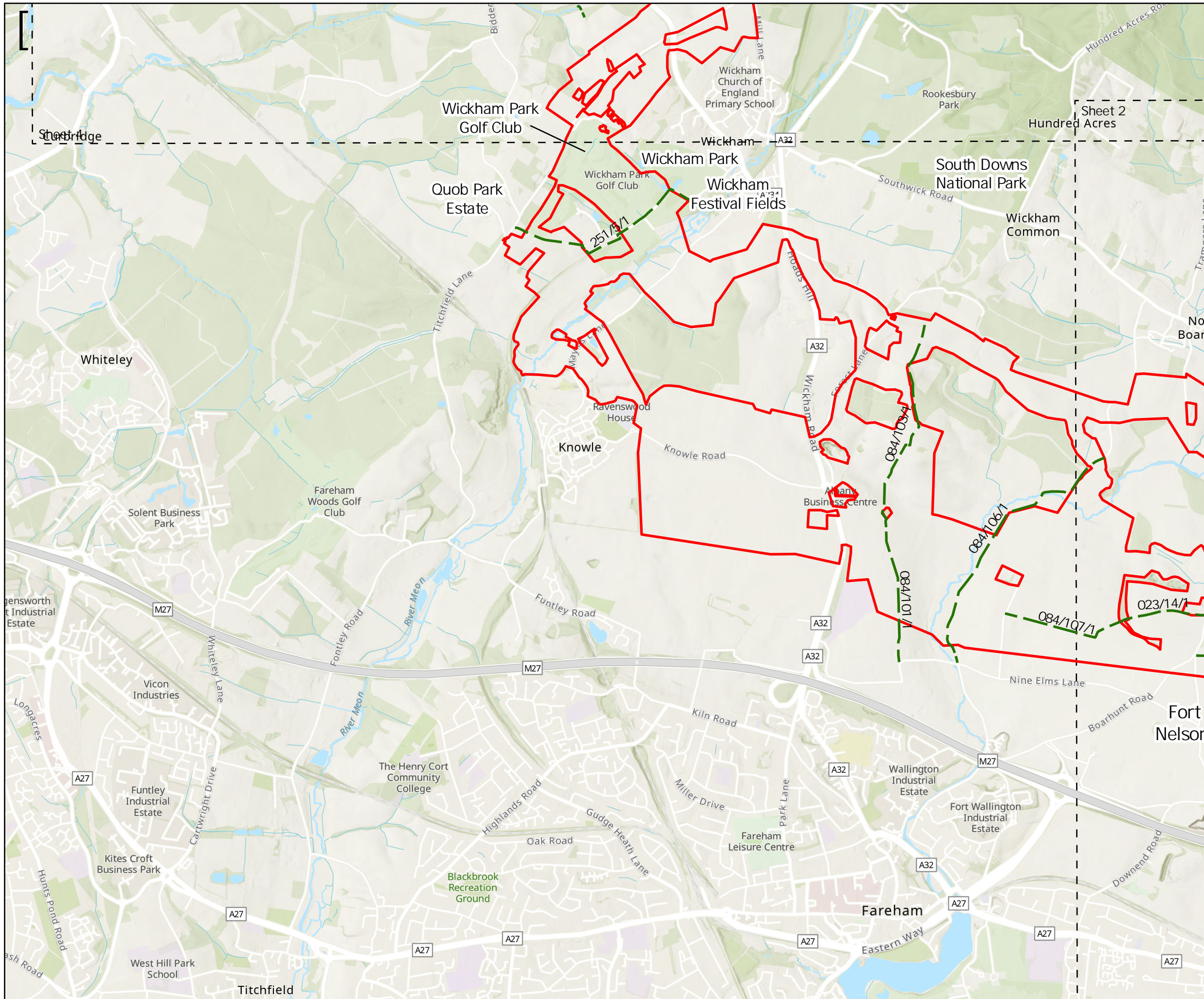


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 Figure 16.3  
 Tourism and Recreation Receptors  
 Sheet 2 of 8

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Drawn	A	-	Review	A	-
GIS Check	A	-	Approved	A	-
Scale at A3	Status	INF	Rev	02	Security
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**Key to Symbols**

- Scoping Area (Red outline)
- Wayfarers Walk Long Distance Footpath (Green dashed line)
- Public Rights of Way (PROW) (Green dashed line)
- Staunton Country Park (Green area)

**Notes**

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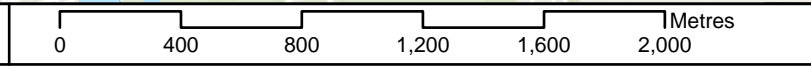
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**Figure 16.3**  
**Tourism and Recreation Receptors**  
**Sheet 3 of 8**

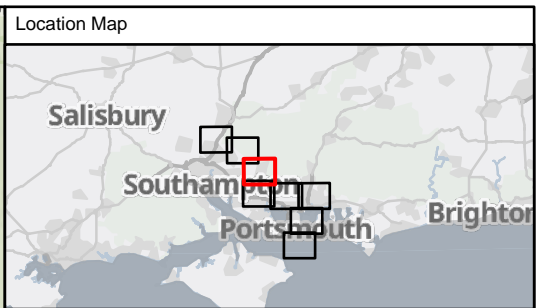
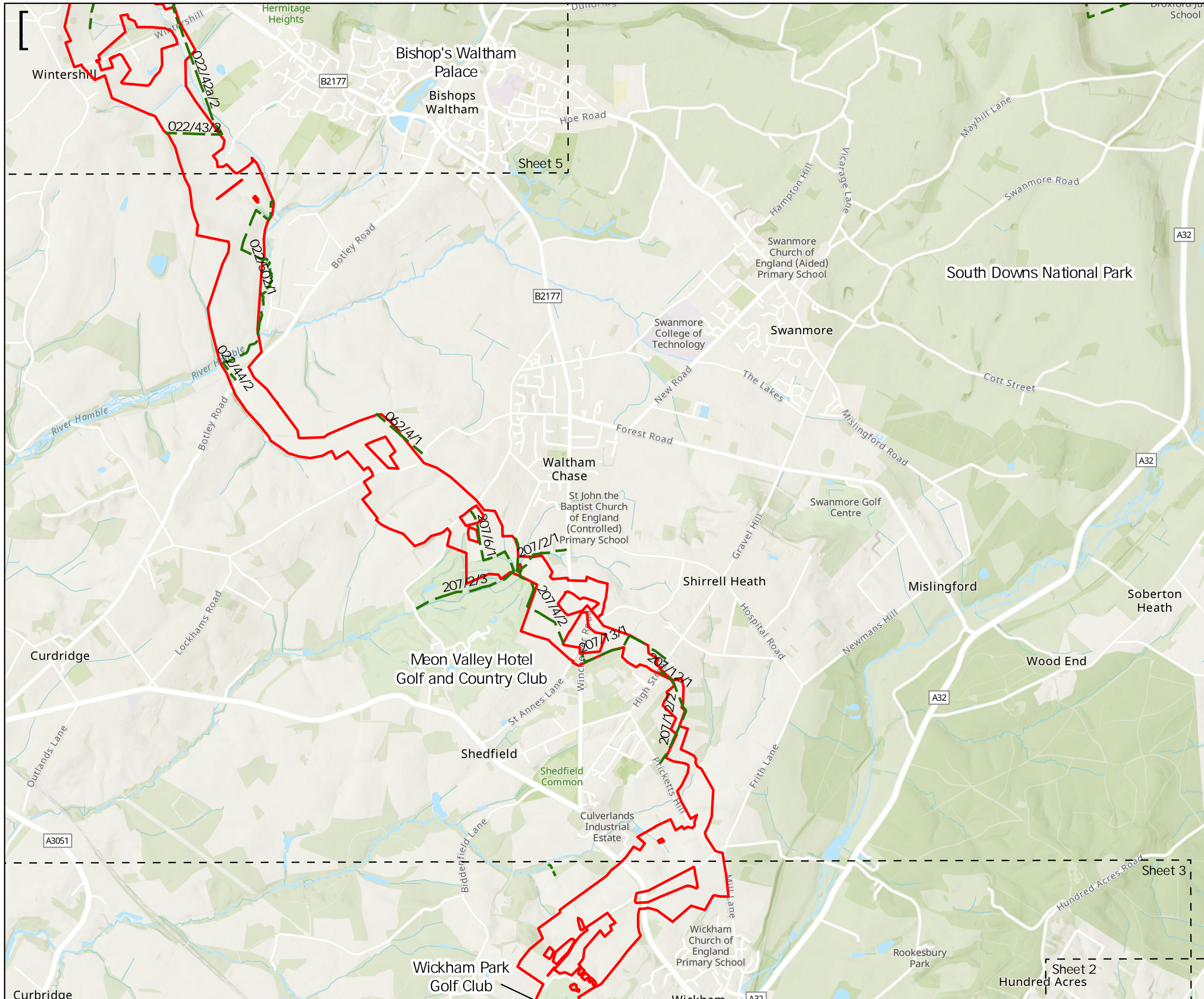
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**710166-SWS-XX-XX-DR-Z-00**





**Key to Symbols**

- Scoping Area
- Public Rights of Way (PROW)
- - - Wayfarers Walk Long Distance Footpath
- - - Staunton Country Park

**Notes**  
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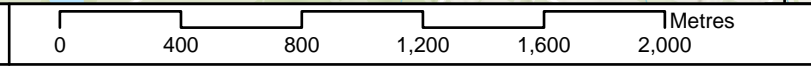
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 Sheet 4 of 8

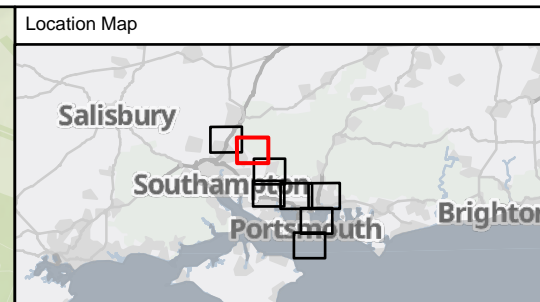
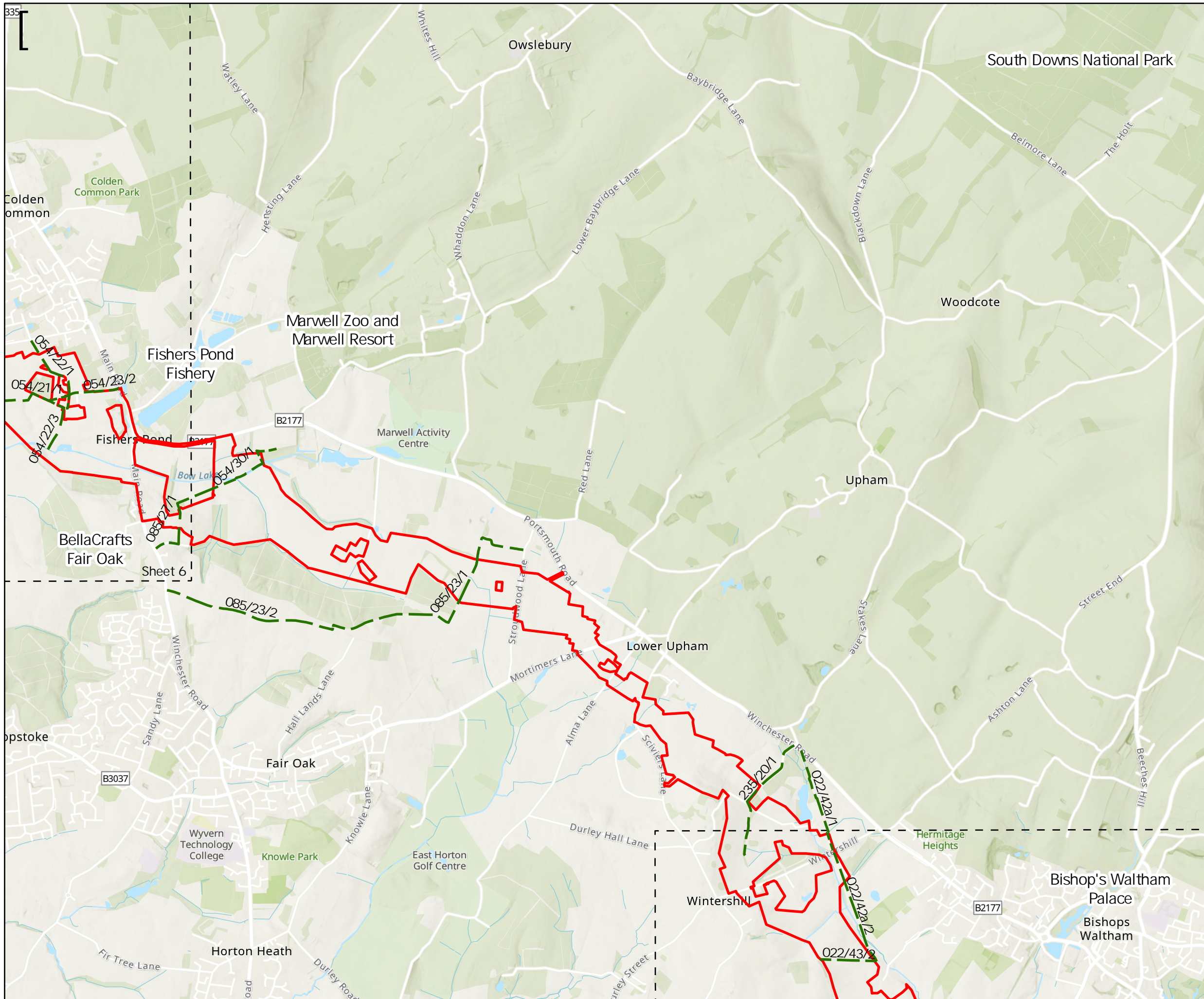
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**Key to Symbols**

Scoping Area	Public Rights of Way (PRoW)
Wayfarers Walk Long Distance Footpath	Staunton Country Park

**Notes**

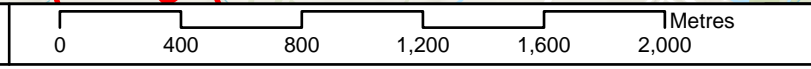
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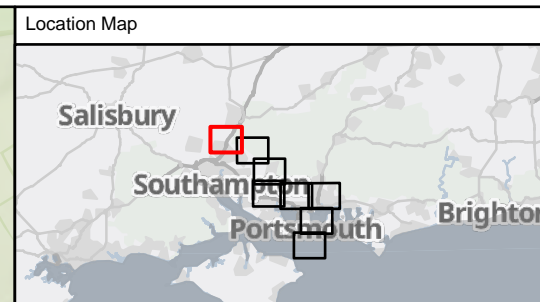
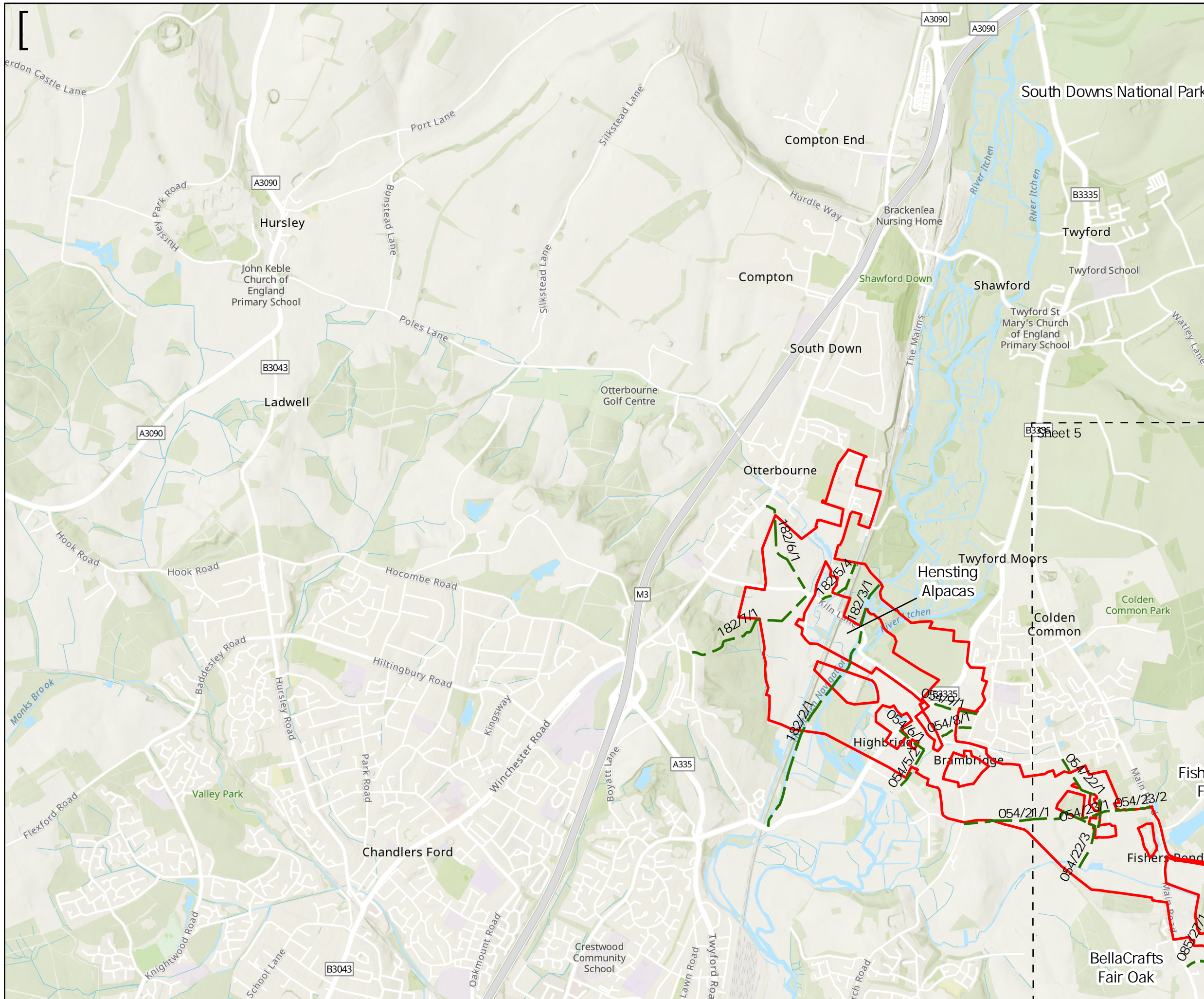


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 Tourism and Recreation Receptors  
 Sheet 5 of 8

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**Key to Symbols**

Scoping Area	Public Rights of Way (PRoW)
Wayfarers Walk Long Distance Footpath	Staunton Country Park

**Notes**

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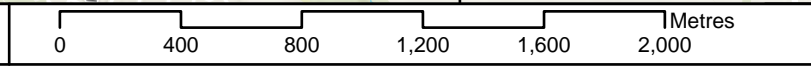
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 Tourism and Recreation Receptors  
 Sheet 6 of 8

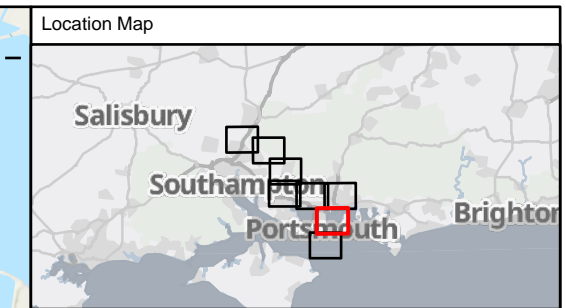
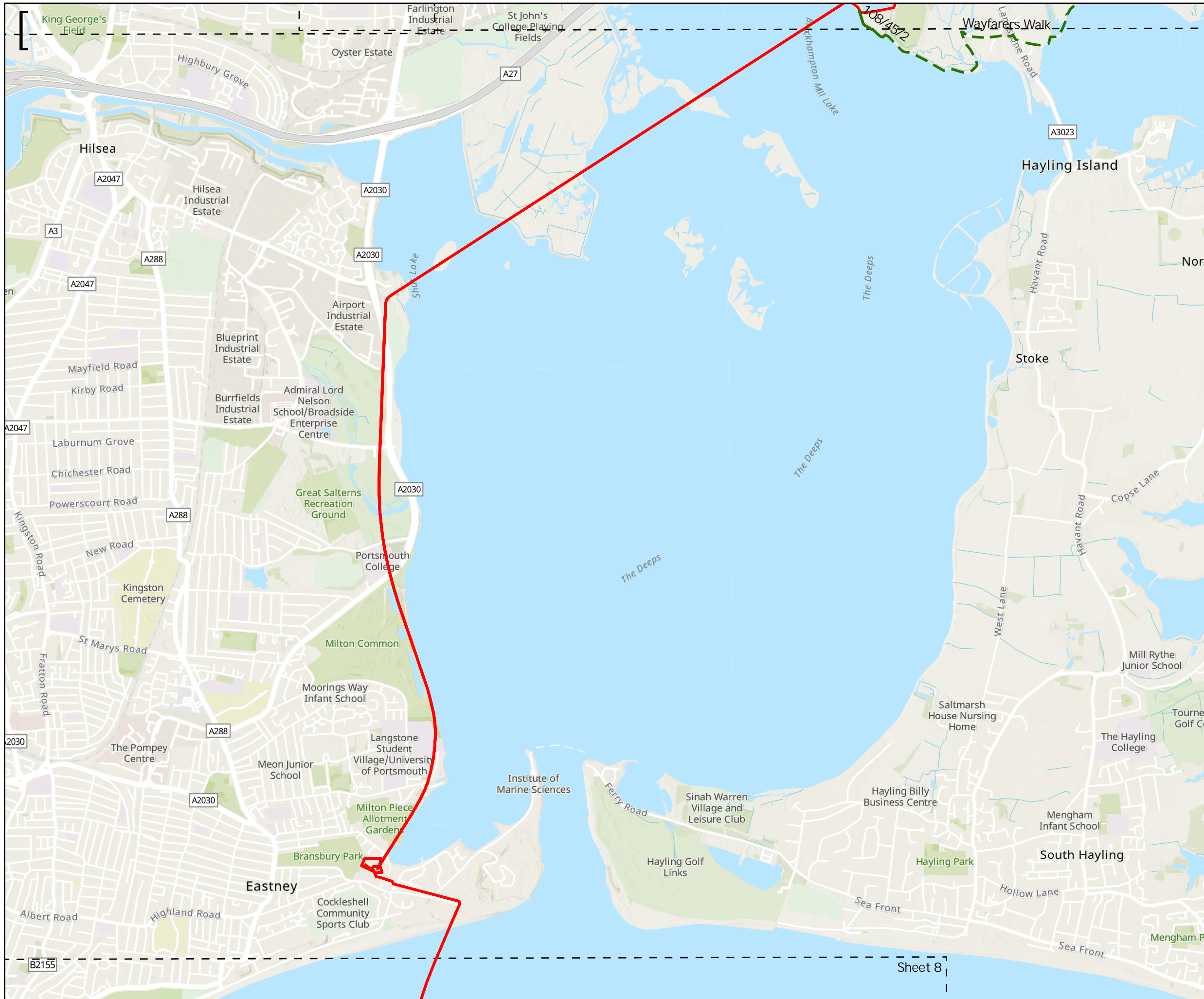
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Key to Symbols

- Scoping Area (Red line)
- Wayfarers Walk Long Distance Footpath (Green dashed line)
- Public Rights of Way (PROW) (Green dashed line)
- Staunton Country Park (Green area)

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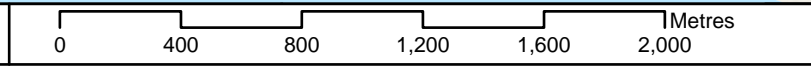
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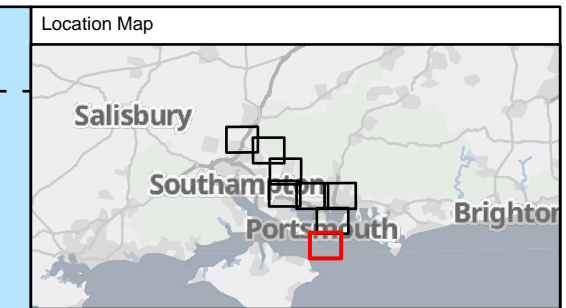
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**Figure 16.3**  
**Tourism and Recreation Receptors**  
 Sheet 7 of 8

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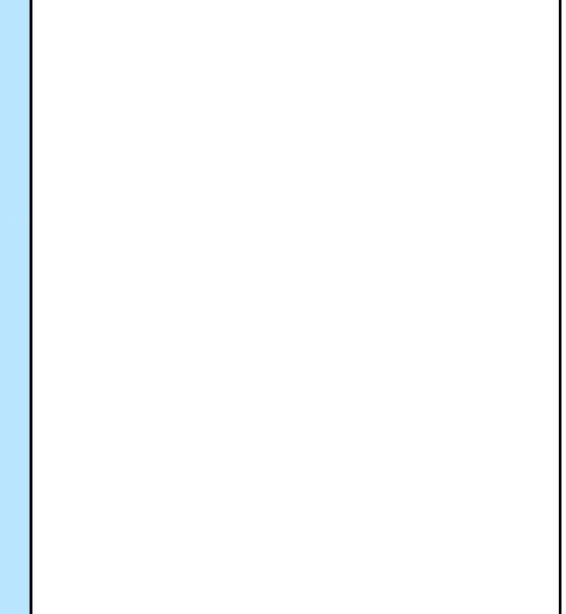






**Key to Symbols**

Scoping Area	Public Rights of Way (PRoW)
Wayfarers Walk Long Distance Footpath	Staunton Country Park



**Notes**

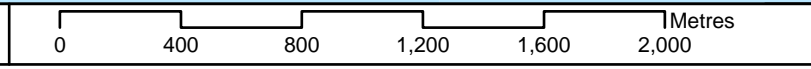
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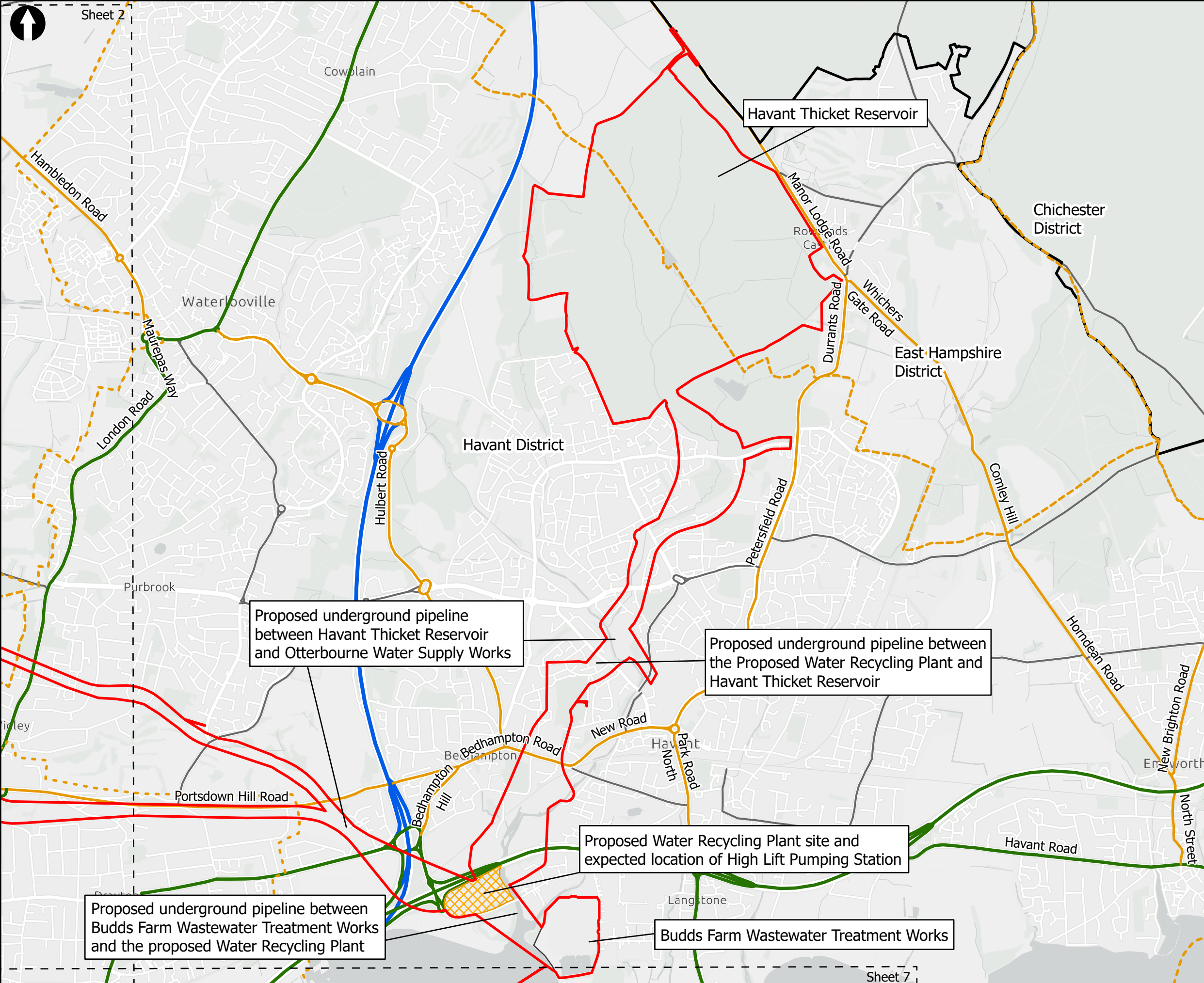
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 Sheet 8 of 8

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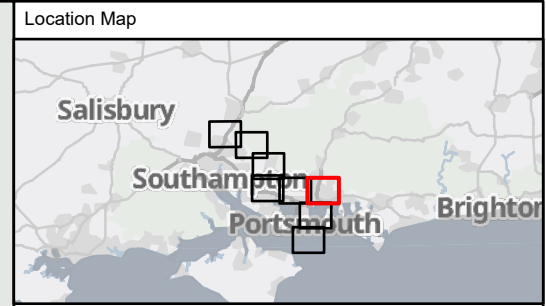
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Proposed underground pipeline between the Proposed Water Recycling Plant and Havant Thicket Reservoir

Proposed Water Recycling Plant site and expected location of High Lift Pumping Station

Proposed underground pipeline between Budds Farm Wastewater Treatment Works and the proposed Water Recycling Plant

Budds Farm Wastewater Treatment Works



Key to Symbols



Scoping Area	OS Open Roads
Extent boxes 25K	A Road
District boundary	B Road
Water Recycling Plant and High Lift Pumping Station	Classified Unnumbered
Budds Farm Wastewater Treatment Works	Motorway
South Downs National Park	

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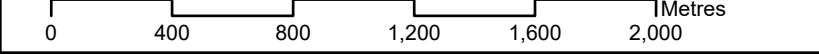
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Traffic and Transport Study Area:  
Preferred Corridor and key links  
Sheet 1 of 8

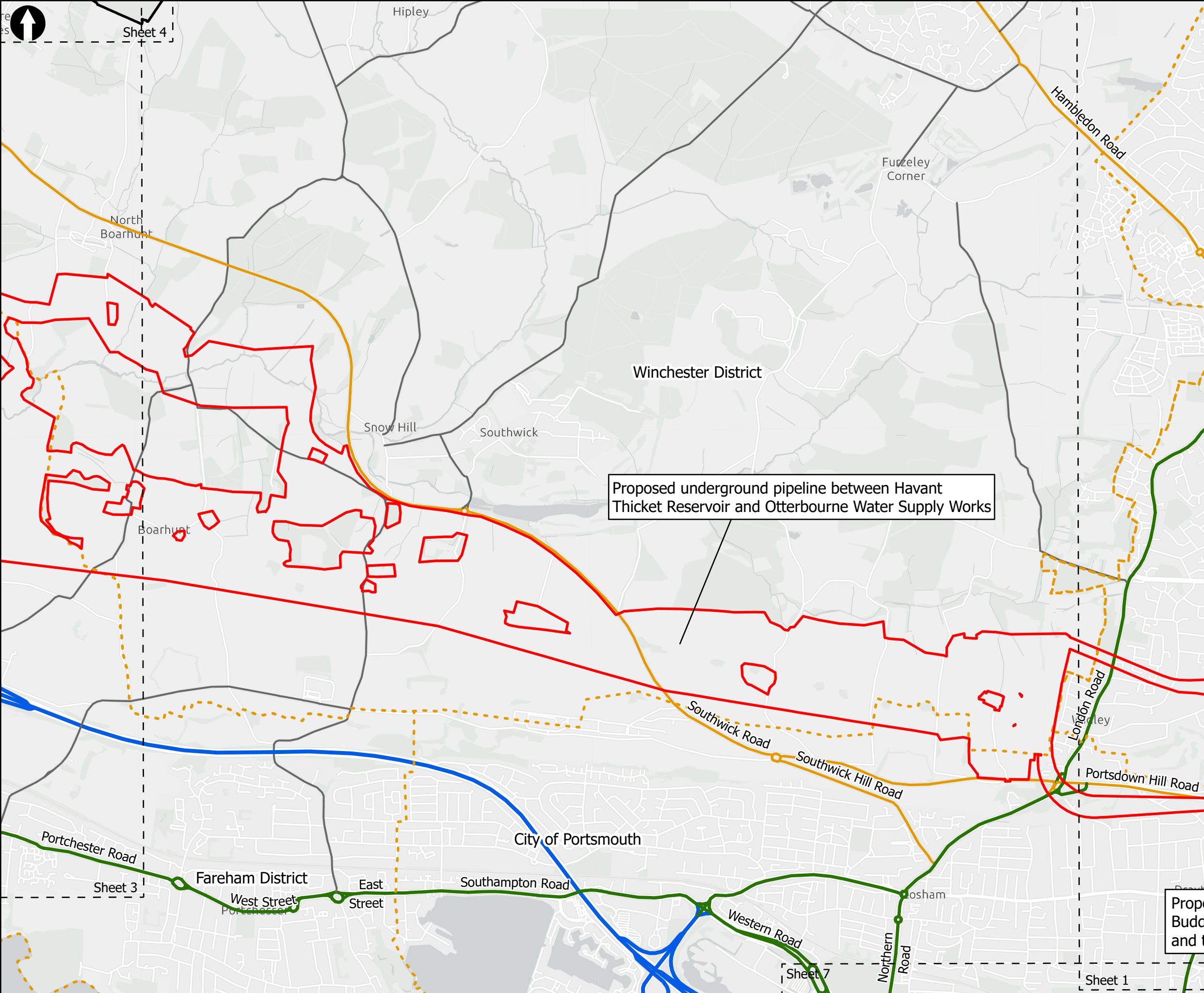
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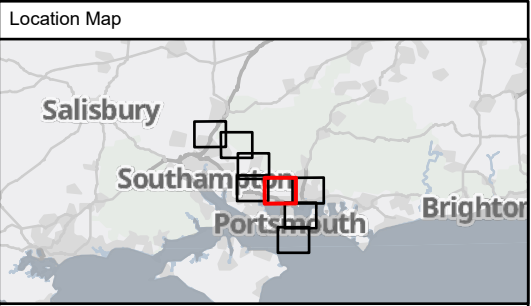
Sheet 2

Sheet 7





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



Key to Symbols

	Scoping Area		B Road
	Extent boxes 25K		Classified Unnumbered
	District boundary		Motorway
	South Downs National Park		
OS Open Roads			
	A Road		

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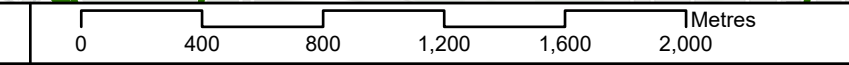


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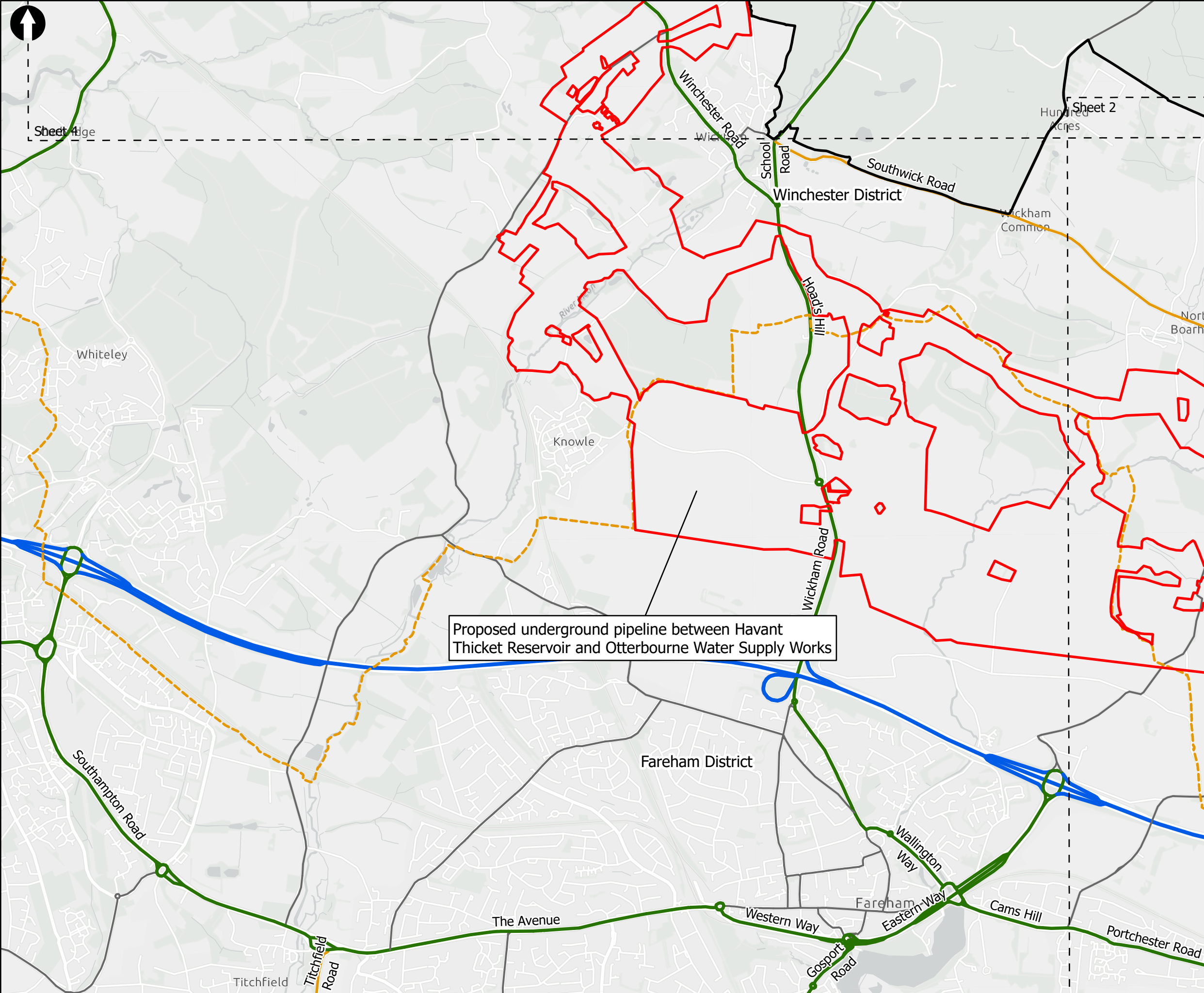
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Traffic and Transport Study Area:  
Preferred Corridor and key links  
Sheet 2 of 8

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



Key to Symbols

	Scoping Area		B Road
	Extent boxes 25K		Classified Unnumbered
	District boundary		Motorway
	South Downs National Park		

OS Open Roads

	A Road
--	--------

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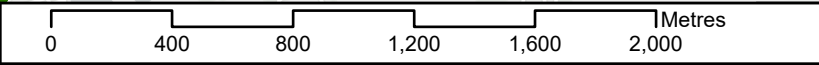
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Traffic and Transport Study Area:  
Preferred Corridor and key links  
Sheet 3 of 8

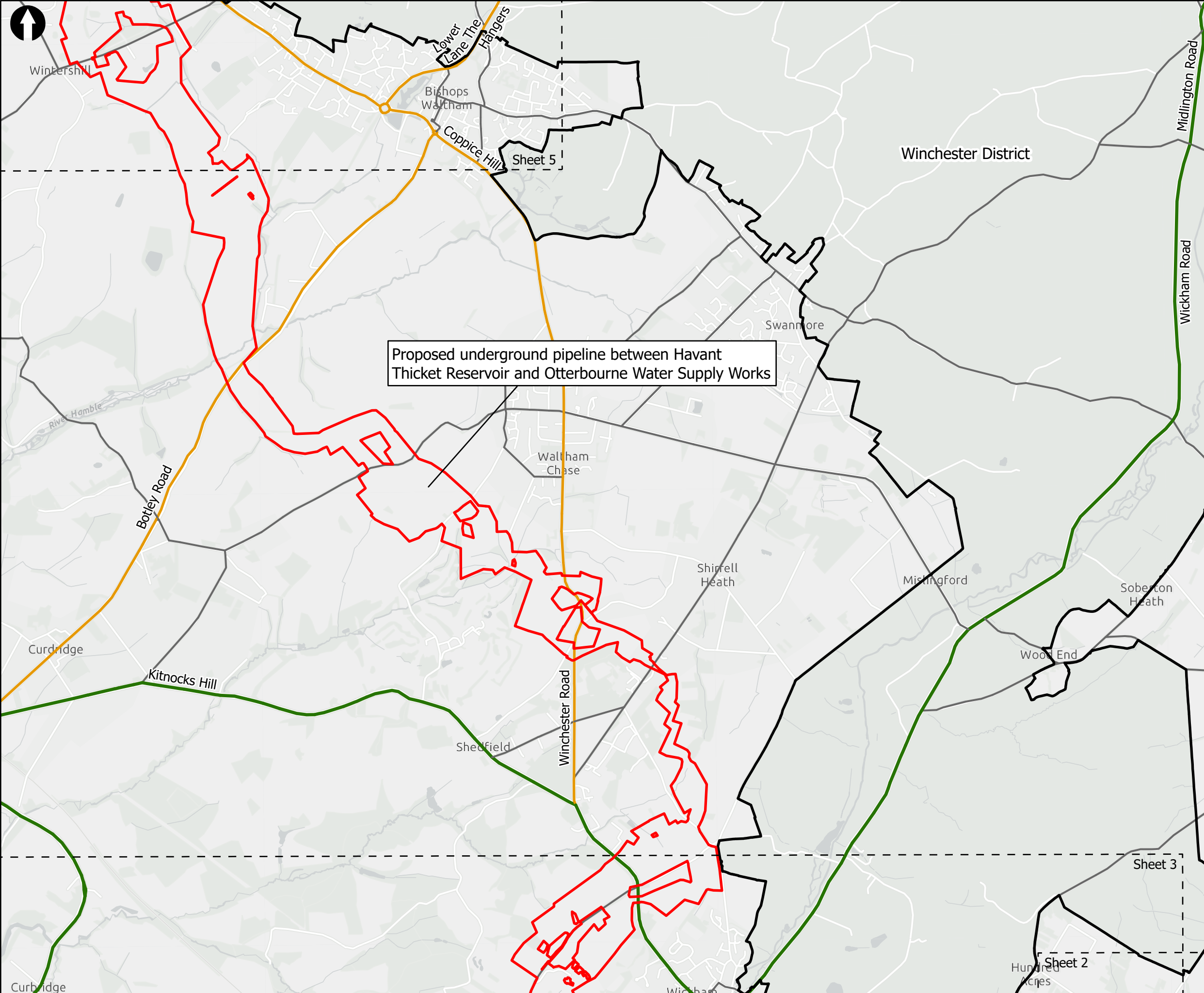
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



Key to Symbols

Scoping Area	B Road
Extent boxes 25K	Classified Unnumbered
District boundary	
South Downs National Park	
OS Open Roads	
A Road	

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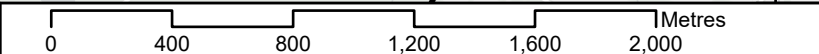
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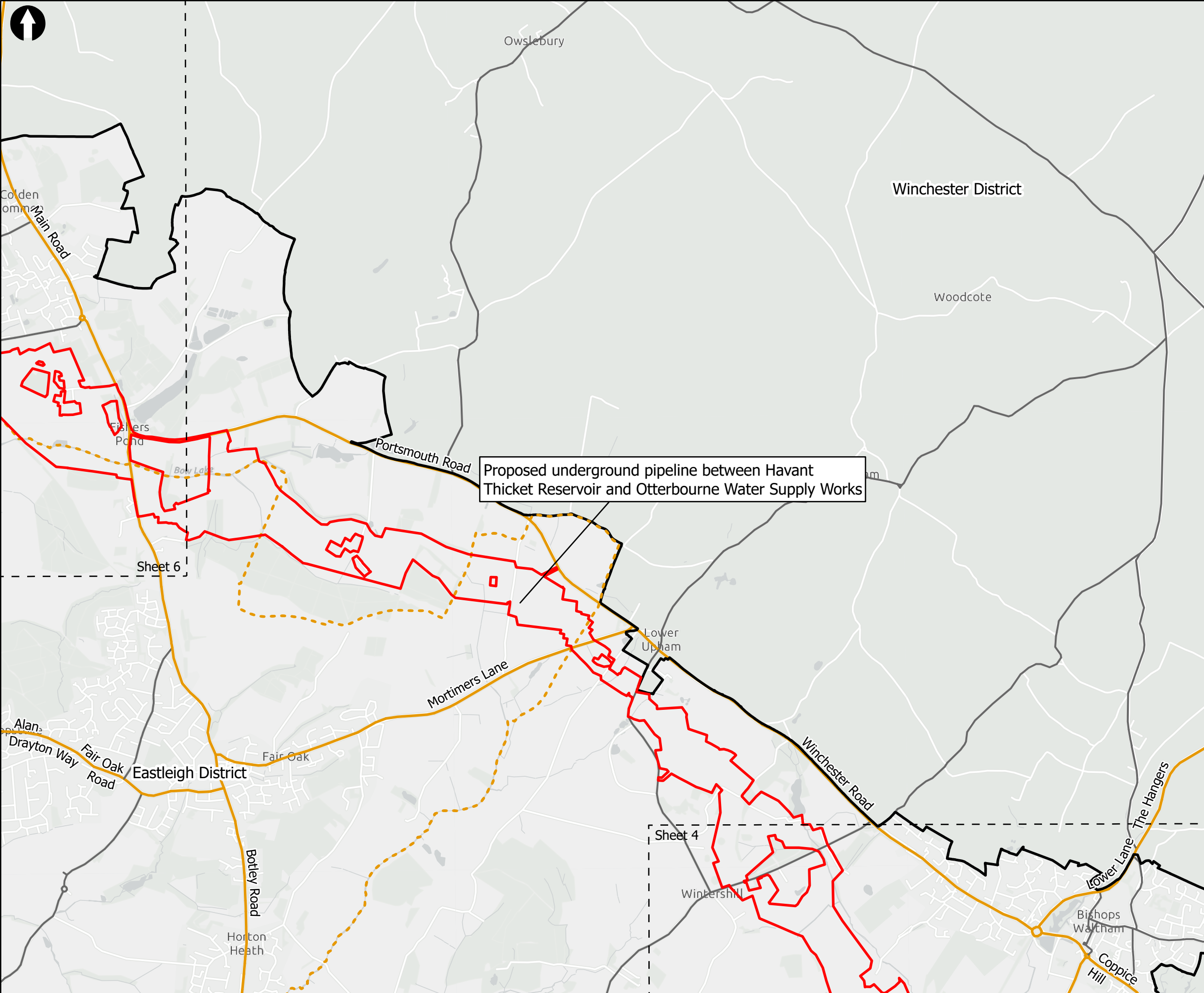
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 Traffic and Transport Study Area:  
 Preferred Corridor and key links  
 Sheet 4 of 8

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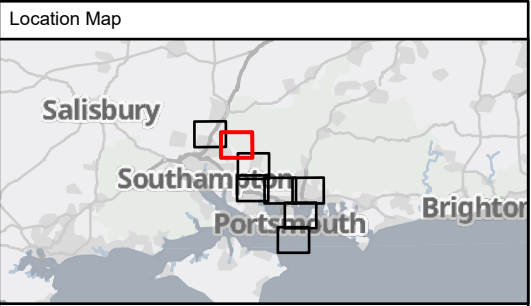
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Proposed underground pipeline between Havant Thicket Reservoir and Otterbourne Water Supply Works



Key to Symbols

Scoping Area	OS Open Roads
Extent boxes 25K	B Road
District boundary	Classified Unnumbered
South Downs National Park	

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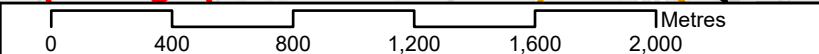
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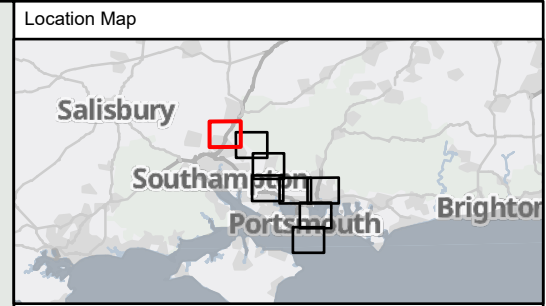
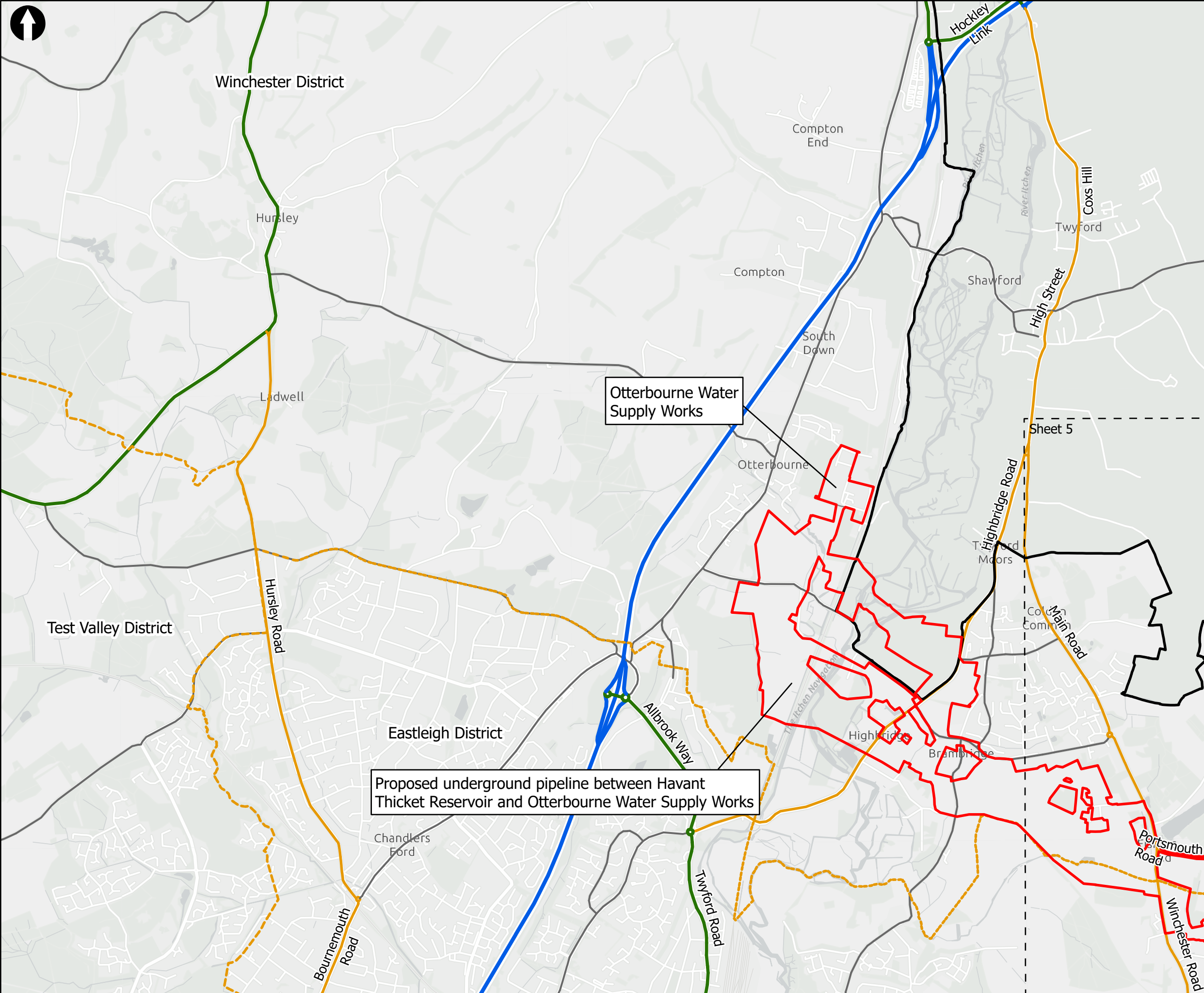



Title  
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 Traffic and Transport Study Area:  
 Preferred Corridor and key links  
 Sheet 5 of 8

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**Key to Symbols**



Scoping Area	B Road
Extent boxes 25K	Classified Unnumbered
District boundary	Motorway
Otterbourne Water Supply Works	
South Downs National Park	
<b>OS Open Roads</b>	
A Road	

**Notes**

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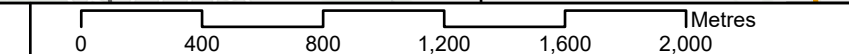
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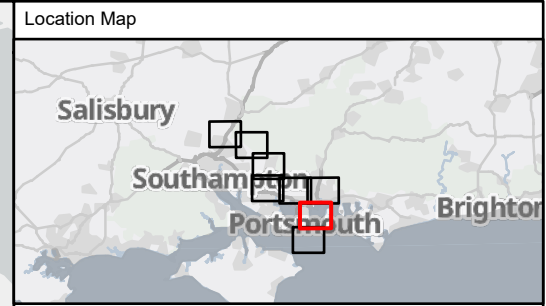
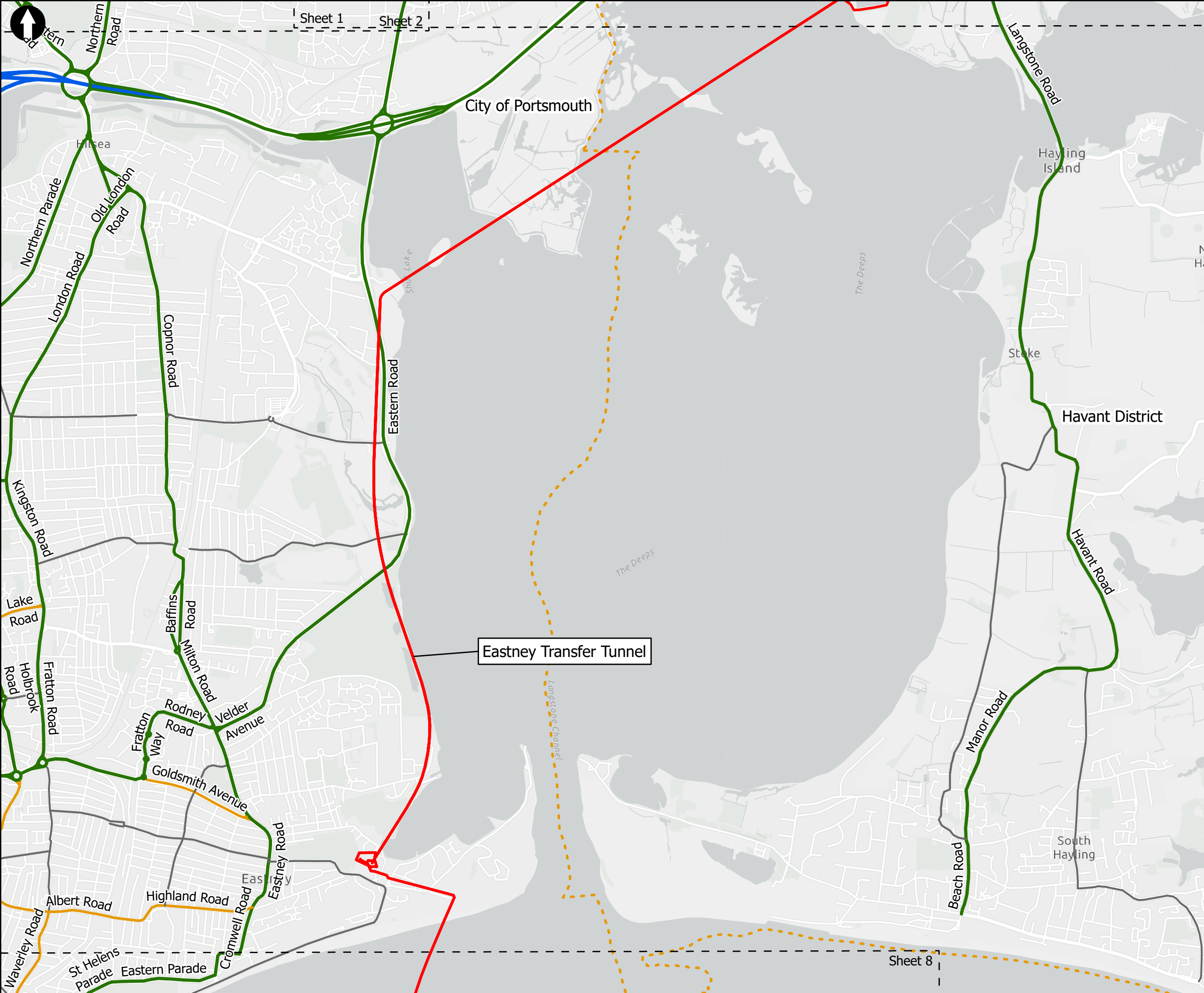



**Title**  
 Figure 17.1  
 Traffic and Transport Study Area:  
 Preferred Corridor and key links  
 Sheet 6 of 8

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Key to Symbols

Scoping Area	B Road
Extent boxes 25K	Classified Unnumbered
District boundary	Motorway
Budds Farm Wastewater Treatment Works	
OS Open Roads	
A Road	

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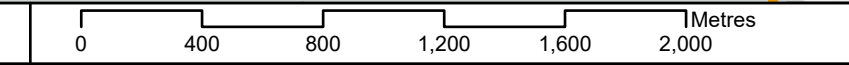
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**Figure 17.1**  
**Traffic and Transport Study Area:**  
**Preferred Corridor and key links**  
**Sheet 7 of 8**

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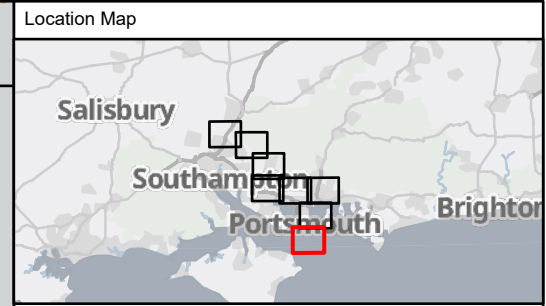
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Clarence Parade  
Clarendon Road  
St Helens Parade  
Eastern Parade  
City of Portsmouth



Key to Symbols

Scoping Area	B Road
Extent boxes 25K	Classified Unnumbered
District boundary	
OS Open Roads	
A Road	

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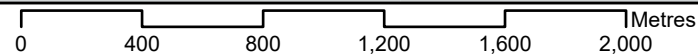
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Title  
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 Traffic and Transport Study Area:  
 Preferred Corridor and key links  
 Sheet 8 of 8

Designed	N/A	-	Check	SF	-
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GIS Check	GC	-	Approved	MP	-
Scale at A3	Status	Rev	Security		
1:25,000	INF	02	STD		

Eastney Long Sea Outfall







from  
Southern  
Water. 

The logo graphic for Southern Water, featuring three stylized white waves of varying lengths, with the longest wave on the right.