

# W1-SG: South Gloucestershire Boundary



W1-SG-0.5MW



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**Project Title:**  
RENEWABLE ENERGY  
RESOURCE  
ASSESSMENT  
STUDY (RERAS)



**LEGEND**  
South Gloucestershire Boundary

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**AECOM Internal Project No:**  
60642451

**Drawing Title:**

South Gloucestershire  
Boundary

Scale at A3: 1:110,000

**Drawing No:** **Rev:**

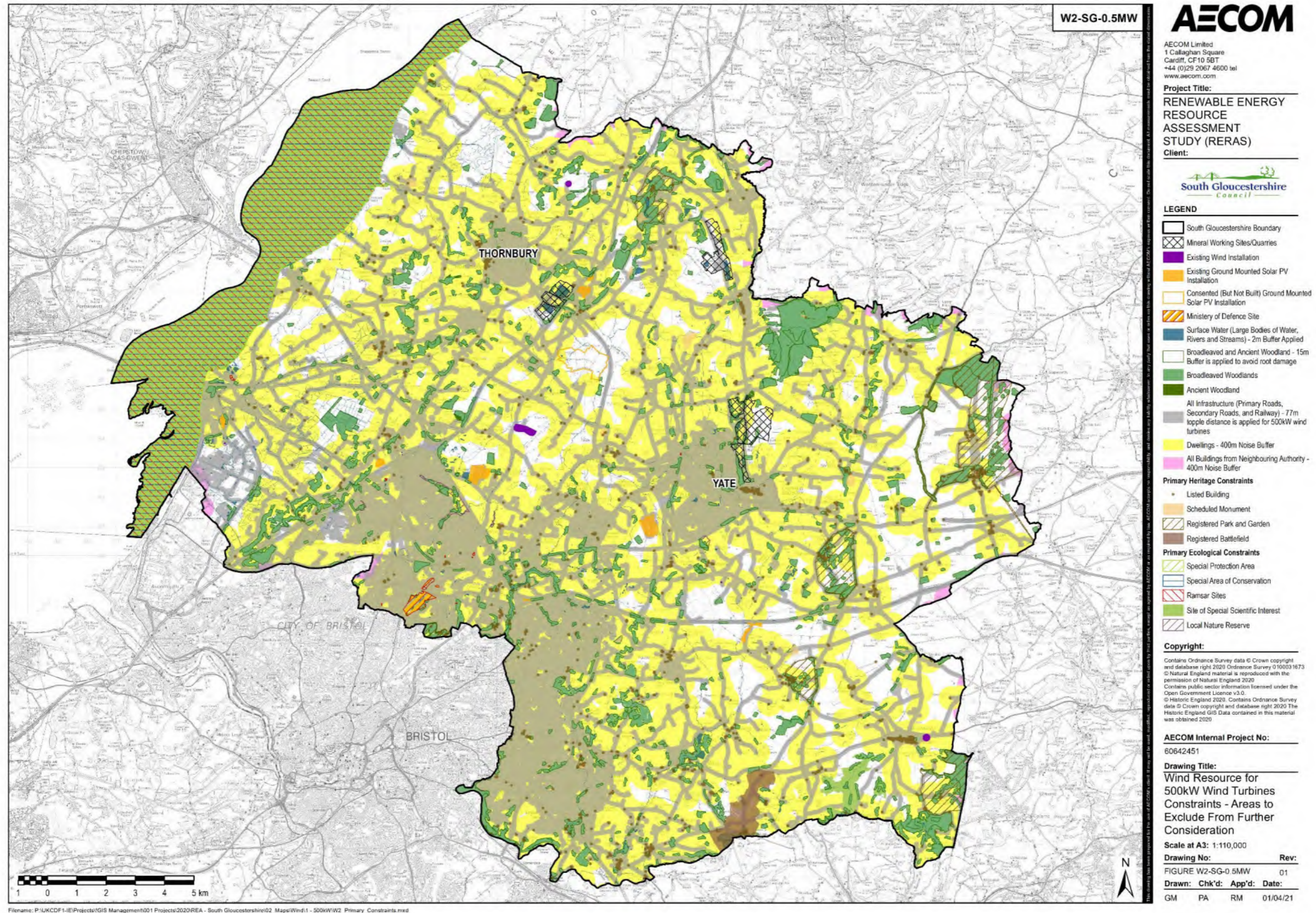
FIGURE W1-SG-0.5MW 01

**Drawn:** **Chk'd:** **App'd:** **Date:**

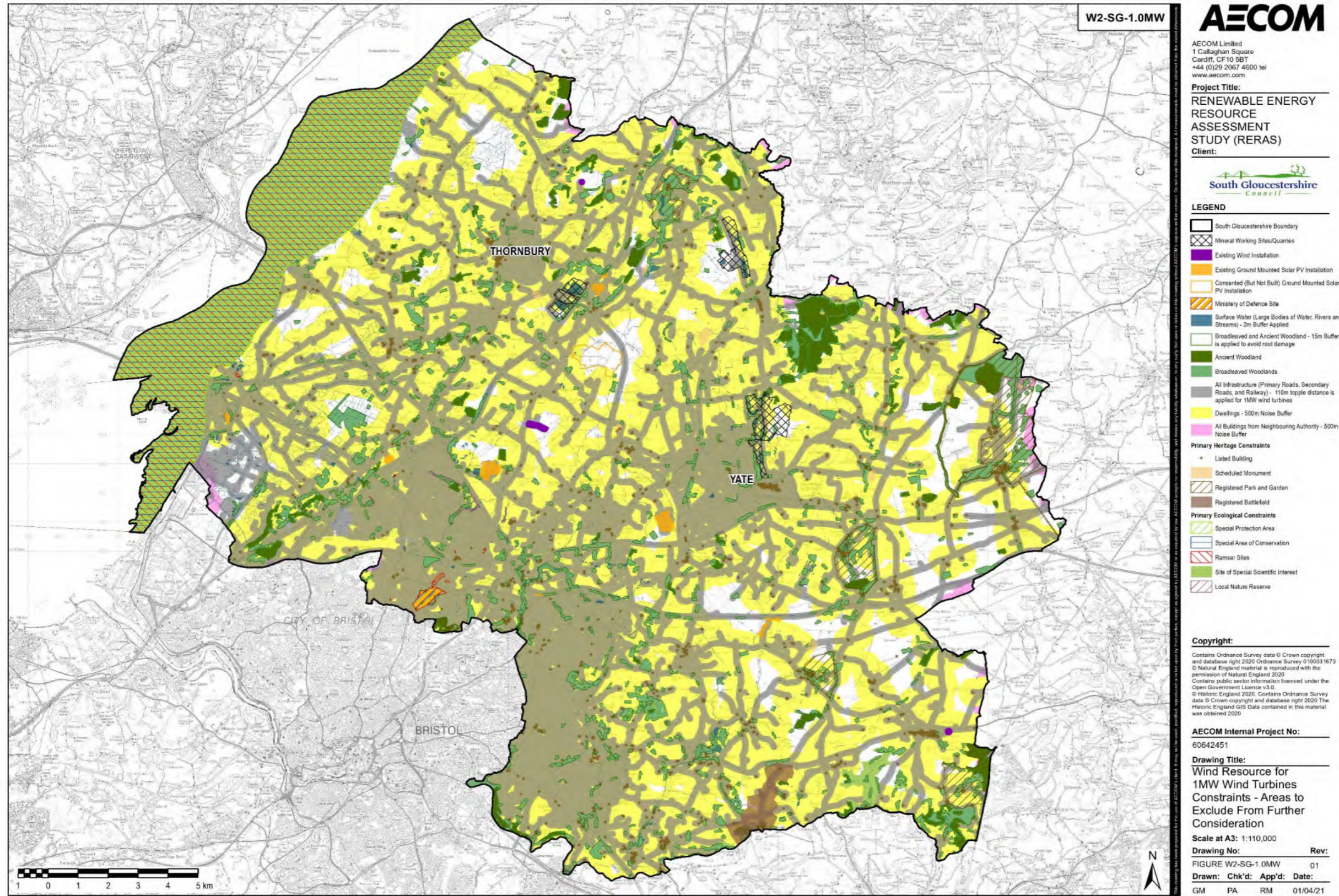
GM PA RM 26/03/21

Filename: P:\UKCDF\1-IE\Projects\GIS Management\001 Projects\2020\REA - South Gloucestershire\02 Maps\Wind\1 - 500kW\W1 County Boundary.mxd

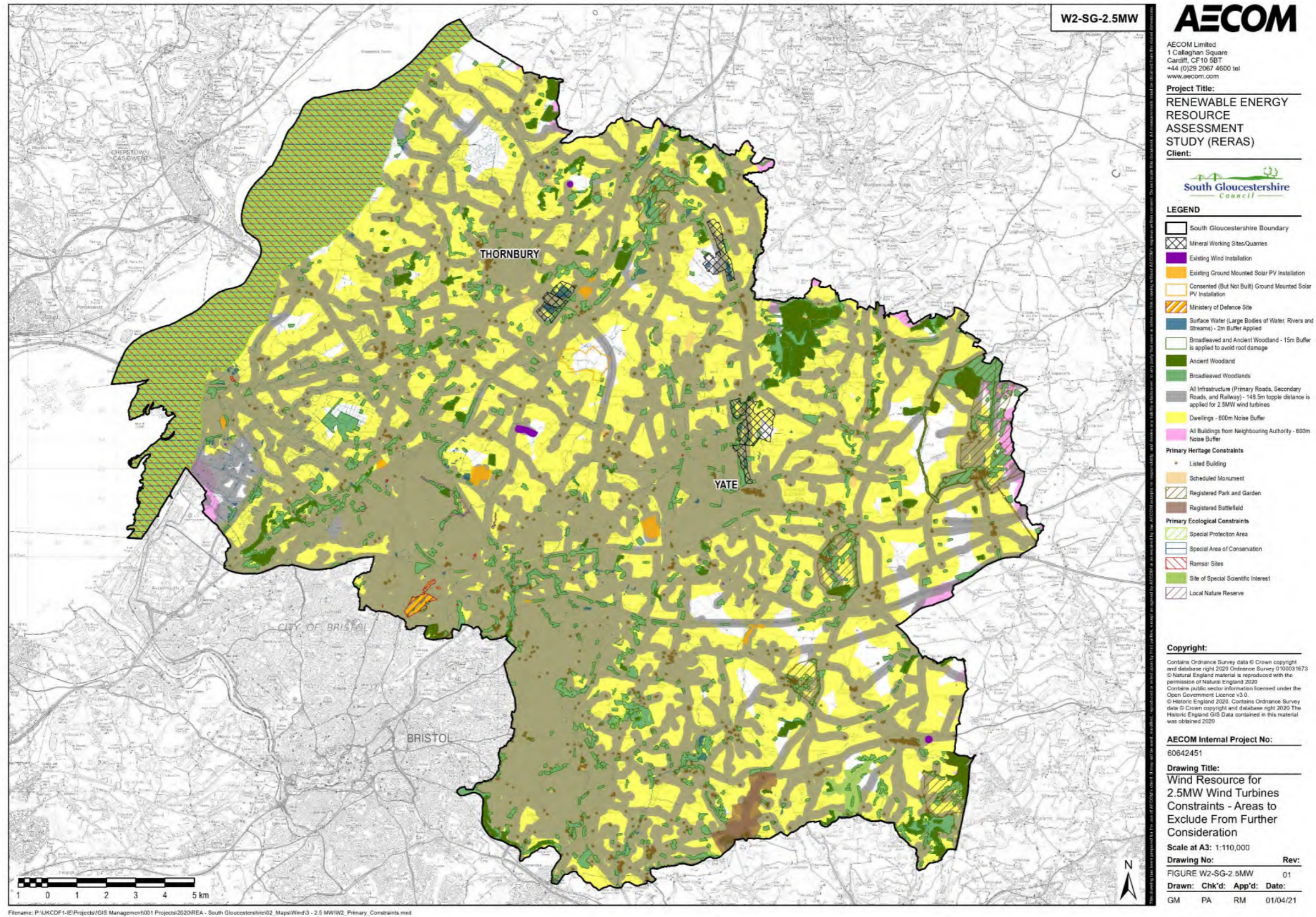
# W2-SG-0.5MW: Wind Resource for 500kW Wind Turbines Constraints – Areas to Exclude from Further Consideration



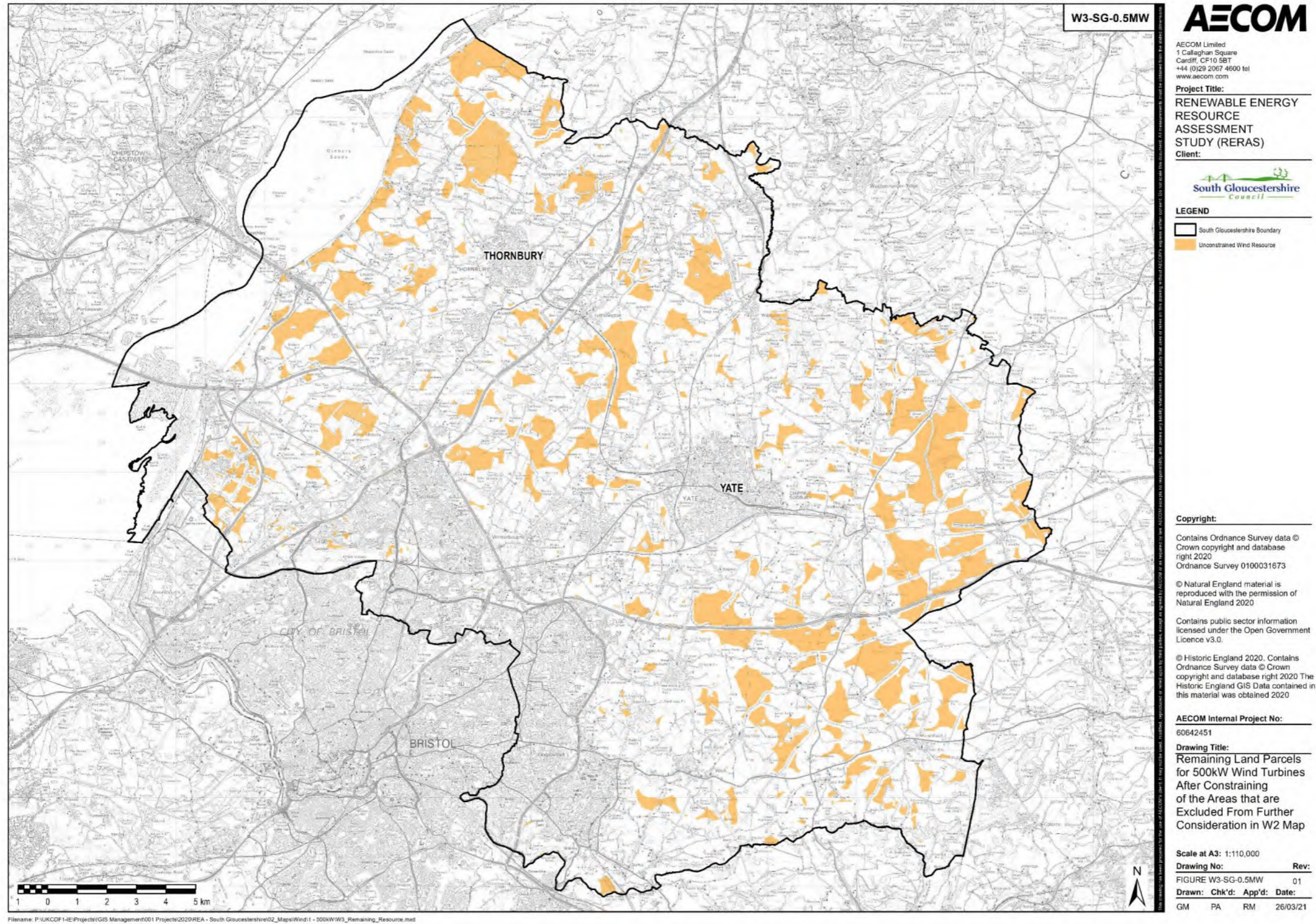
# W2-SG-1.0MW: Wind Resource for 1.0MW Wind Turbines Constraints – Areas to Exclude from Further Consideration



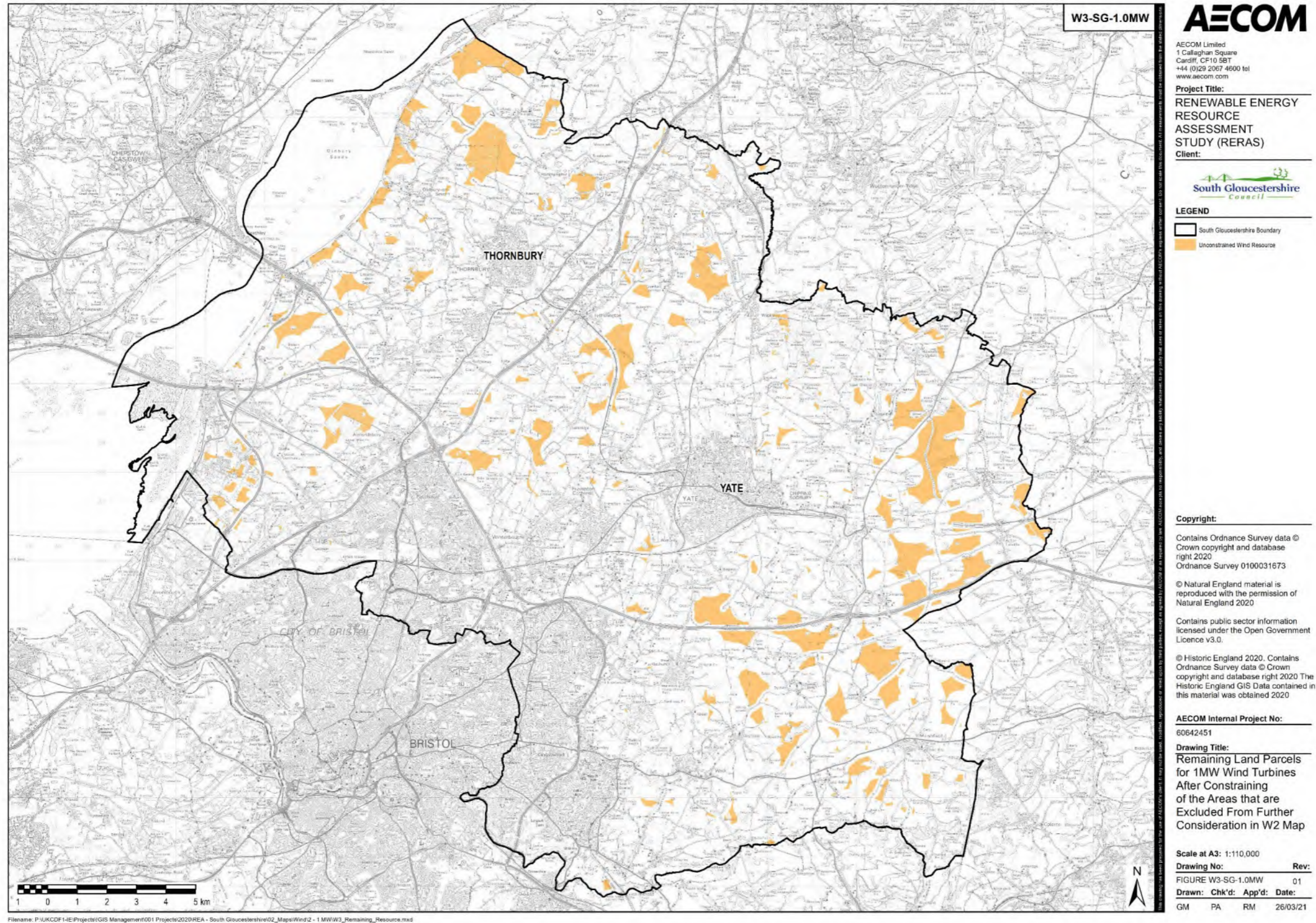
# W2-SG-2.5MW: Wind Resource for 2.5MW Wind Turbines Constraints – Areas to Exclude from Further Consideration



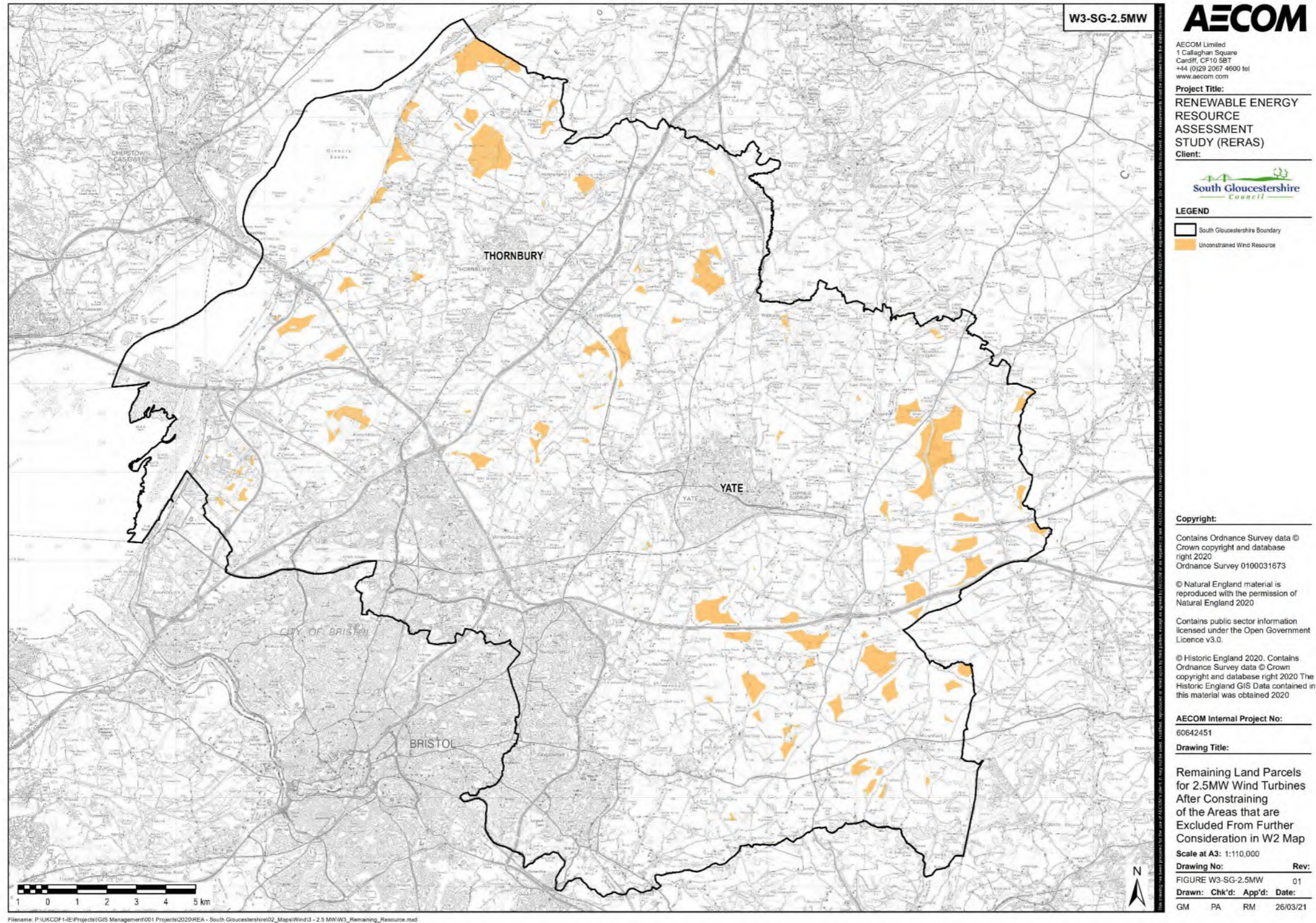
# W3-SG-0.5MW: Remaining Land Parcels for 500kW Wind Turbines After Constraining of the Areas that are Excluded from Further Consideration in W2 Map



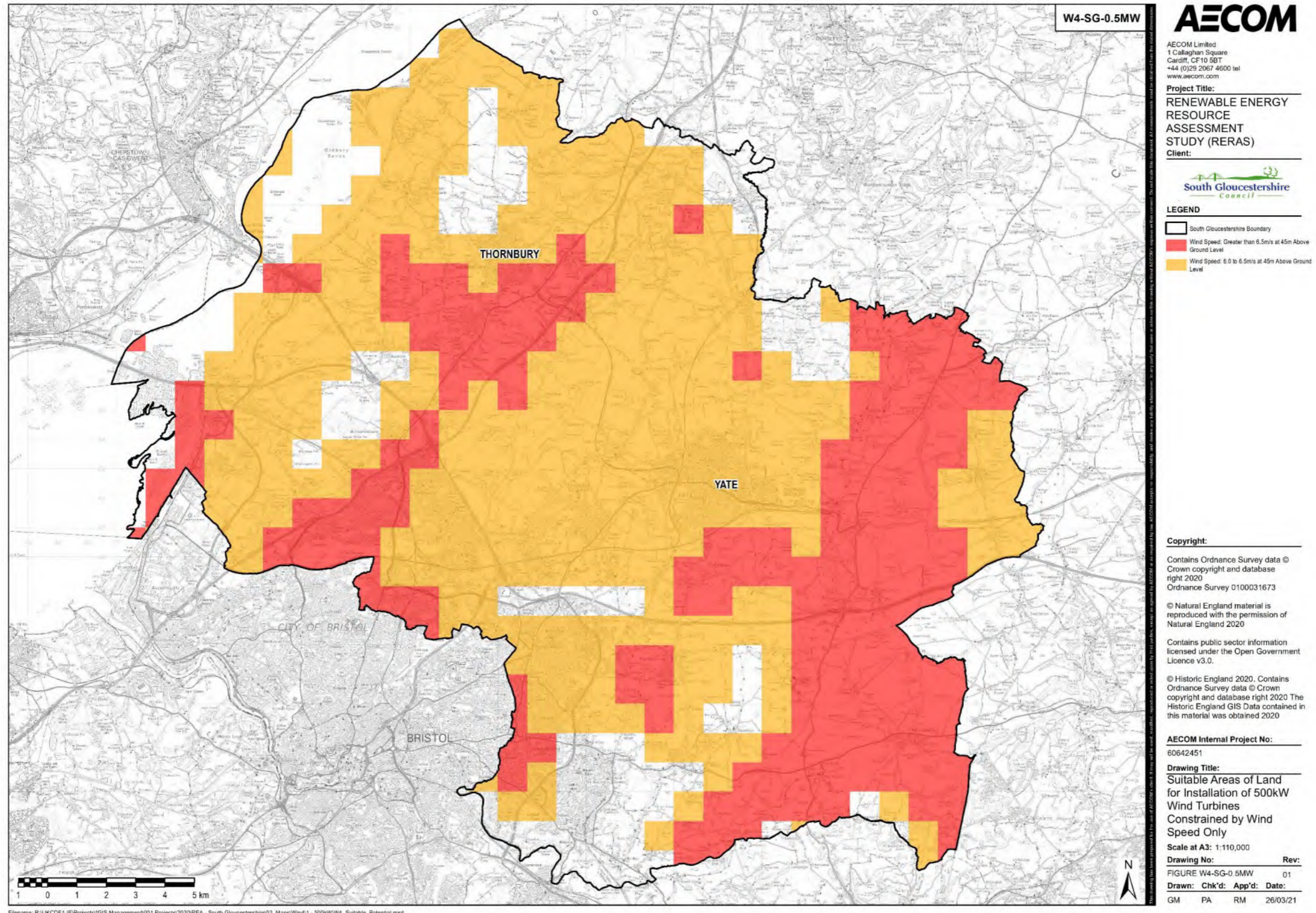
# W3-SG-1.0MW: Remaining Land Parcels for 1.0MW Wind Turbines After Constraining of the Areas that are Excluded from Further Consideration in W2 Map



# W3-SG-2.5MW: Remaining Land Parcels for 2.5MW Wind Turbines After Constraining of the Areas that are Excluded from Further Consideration in W2 Map

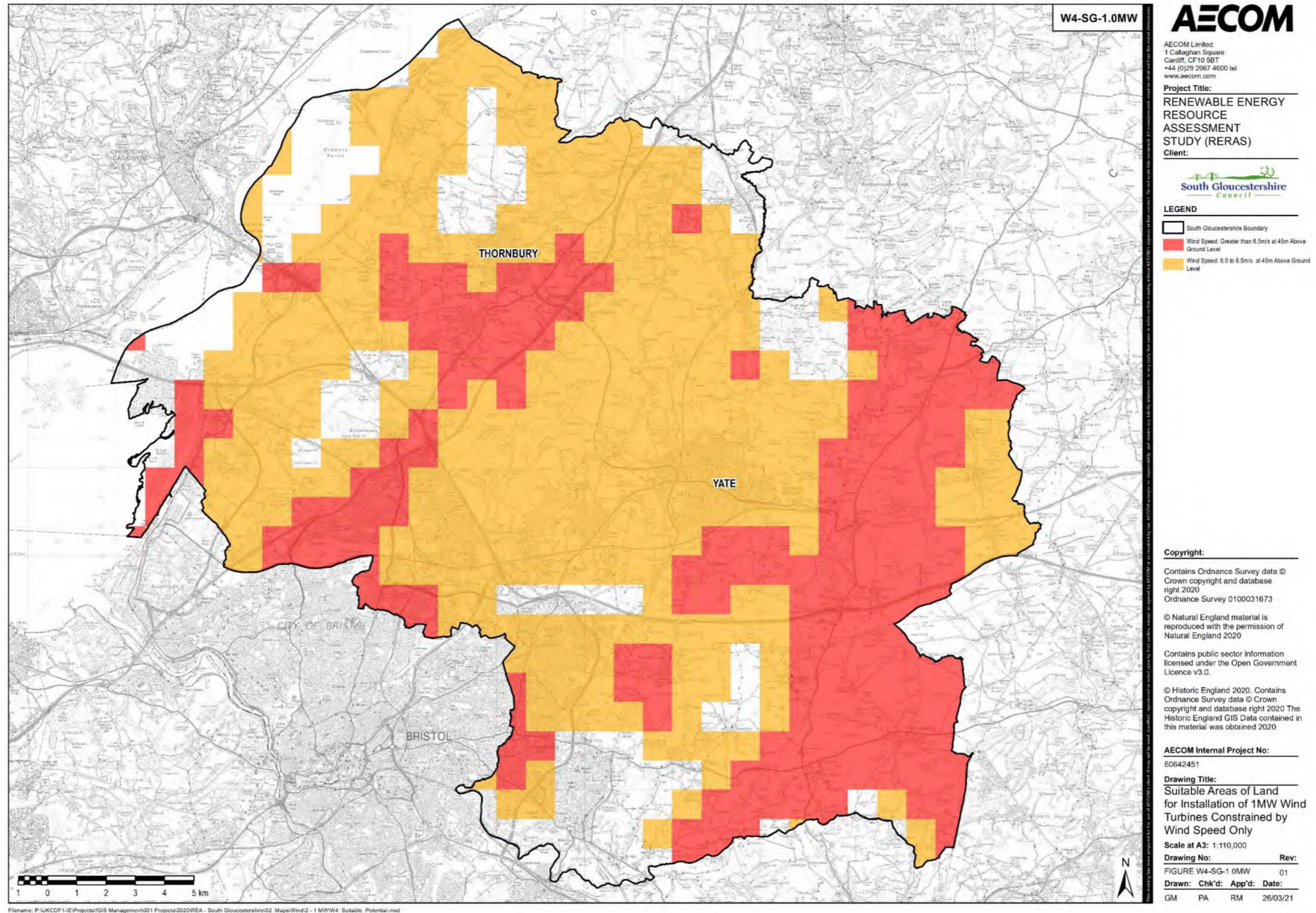


# W4-SG-0.5MW: Suitable Areas of Land for Installation of 500kW Wind Turbines Constrained by Wind Speed Only

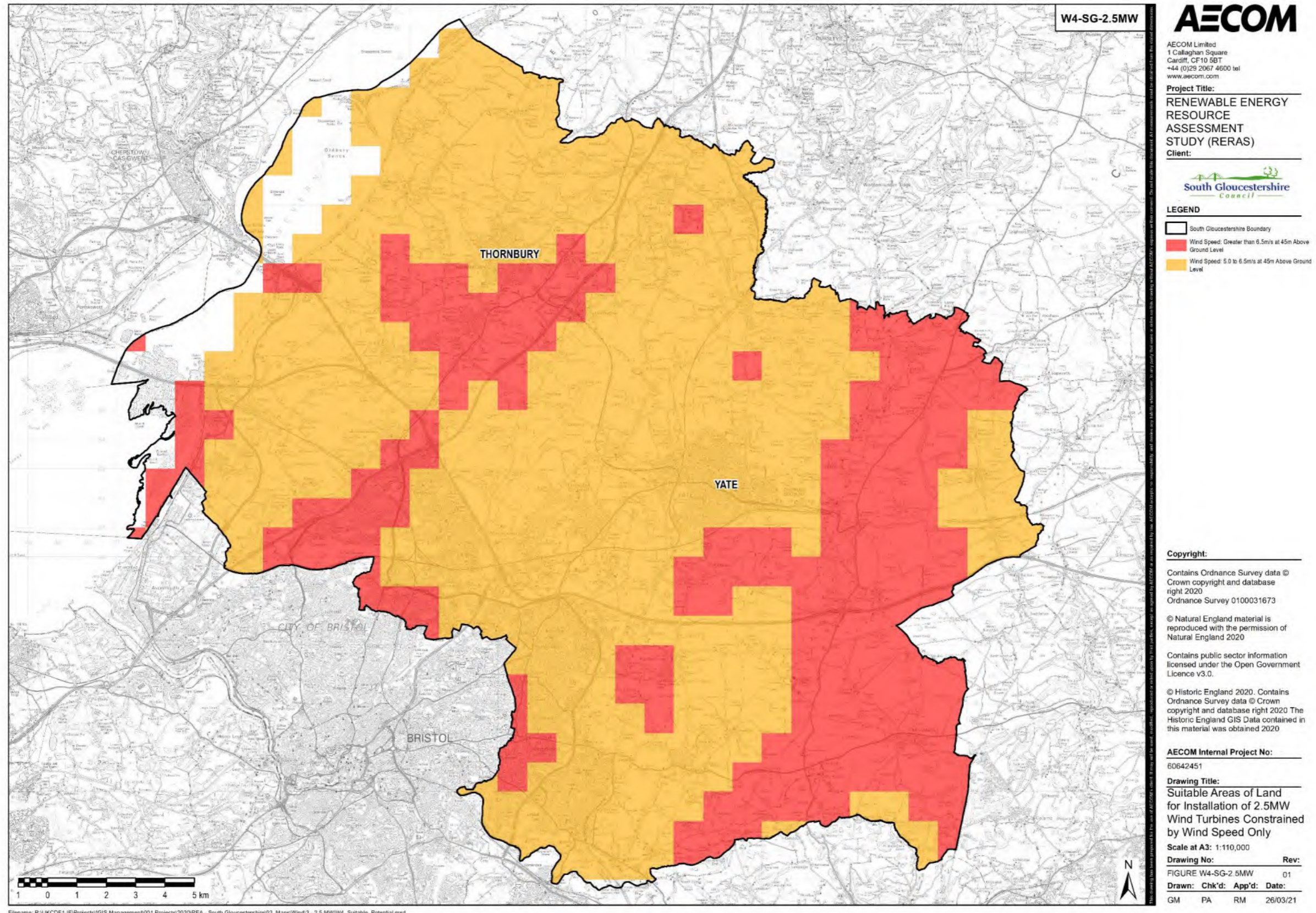




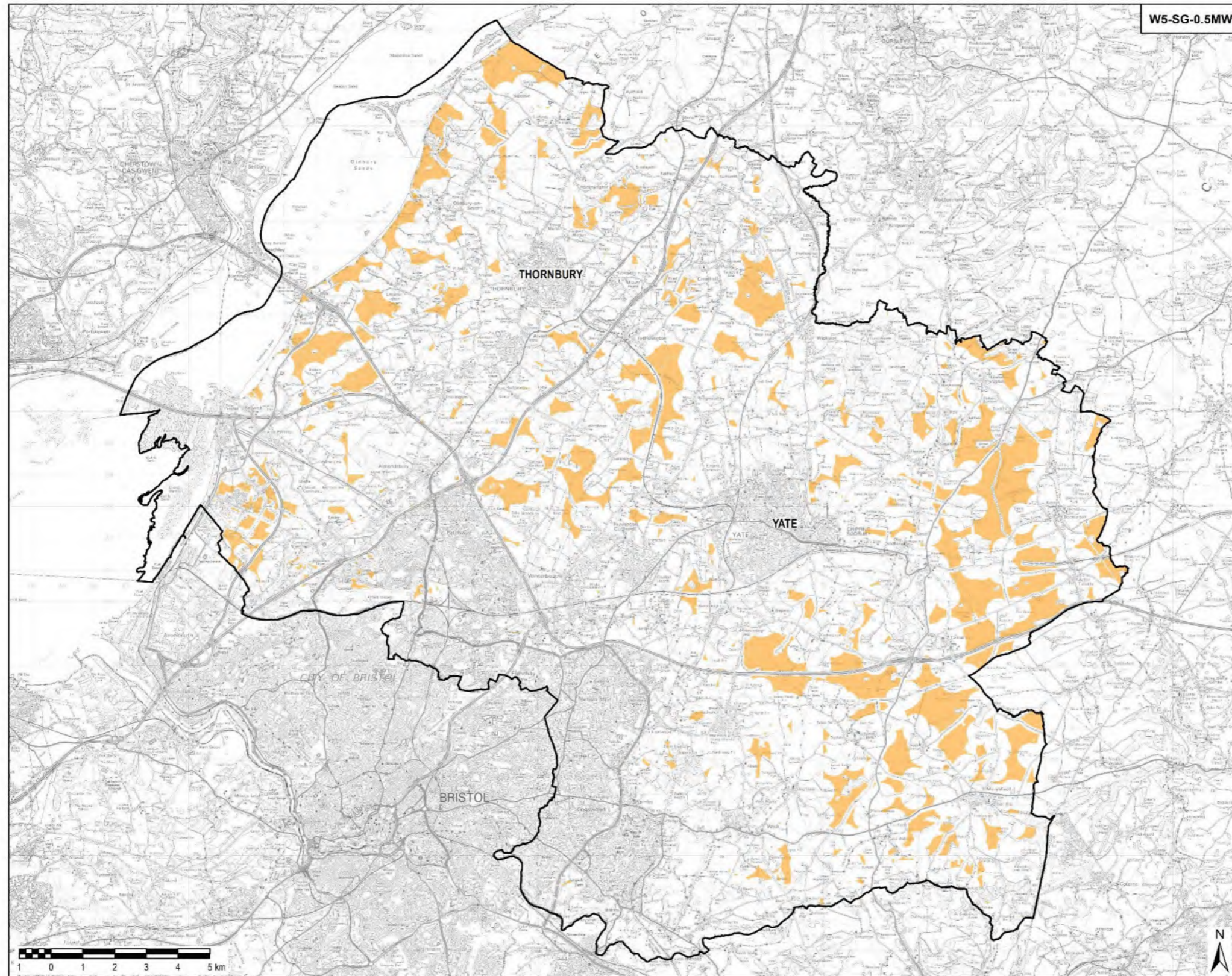
# W4-SG-1.0MW: Suitable Areas of Land for Installation of 1.0MW Wind Turbines Constrained by Wind Speed Only



# W4-SG-2.5MW: Suitable Areas of Land for Installation of 2.5MW Wind Turbines Constrained by Wind Speed Only



# W5-SG-0.5MW: Remaining Land Parcels from Resource Map (W3) After Constraining the Unsuitable Areas due to Wind Speed Map (W4) for Installation of 500kW Wind Turbines



Filename: P:\UKCDF1-HE\Projects\GIS Management\001 Projects\2020\REA - South Gloucestershire\02\_Maps\Wind1 - 500kW\W5\_Land\_Remaining\_After\_W3.mxd



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**Drawing Title:**

Remaining Land Parcels  
From Resource Map (W3)  
After Constraining the  
Unsuitable Areas due to  
Wind Speed Map (W4) for  
Installation of 500kW  
Wind Turbines

Scale at A3: 1:110,000

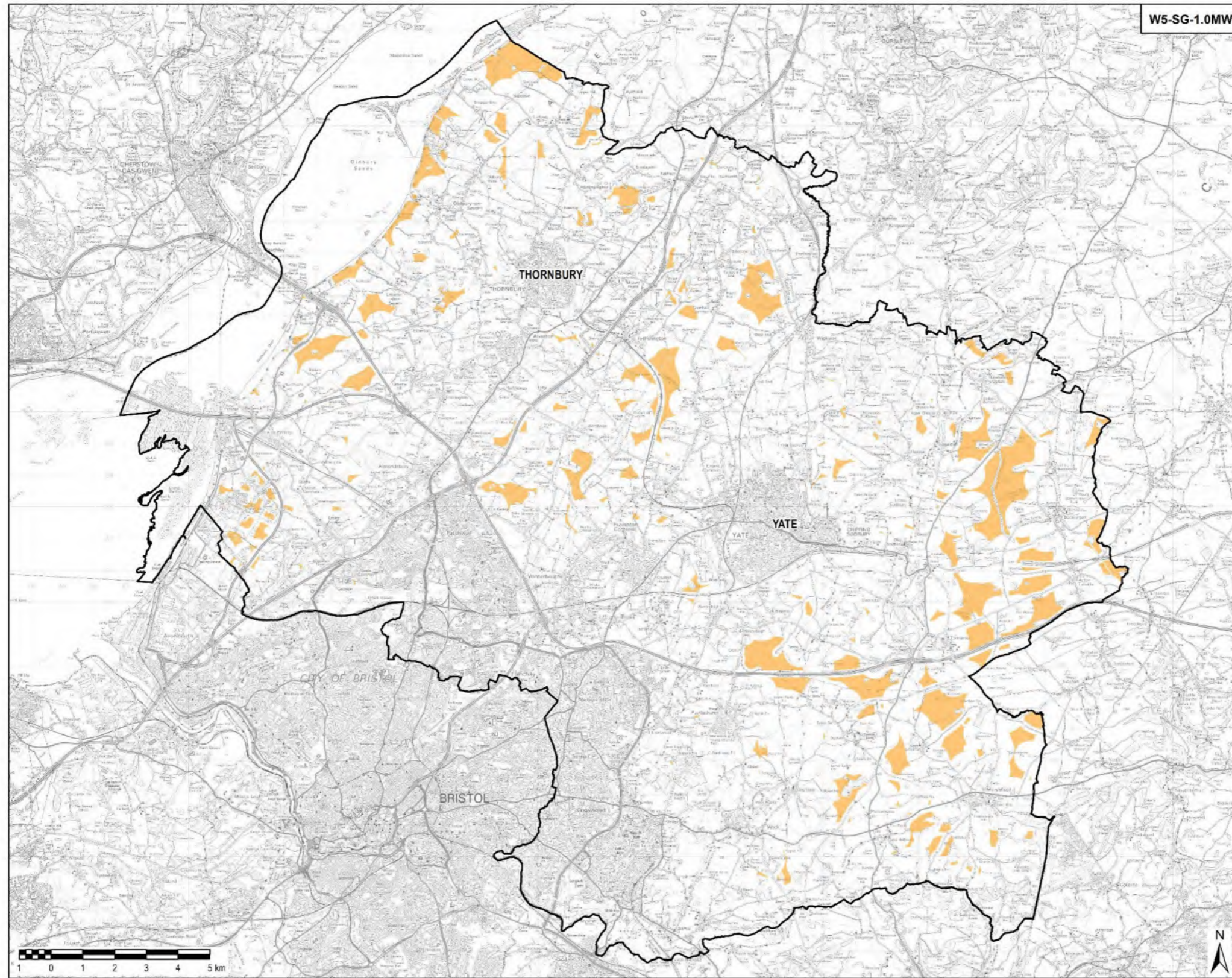
**Drawing No:** **Rev:**

FIGURE W5-SG-0.5MW 01

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# W5-SG-1.0MW: Remaining Land Parcels from Resource Map (W3) After Constraining the Unsuitable Areas due to Wind Speed Map (W4) for Installation of 1MW Wind Turbines



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After Constraining the  
Unsuitable Areas due to  
Wind Speed Map (W4) for  
Installation of 1MW  
Wind Turbines

Scale at A3: 1:110,000

**Drawing No:** **Rev:**

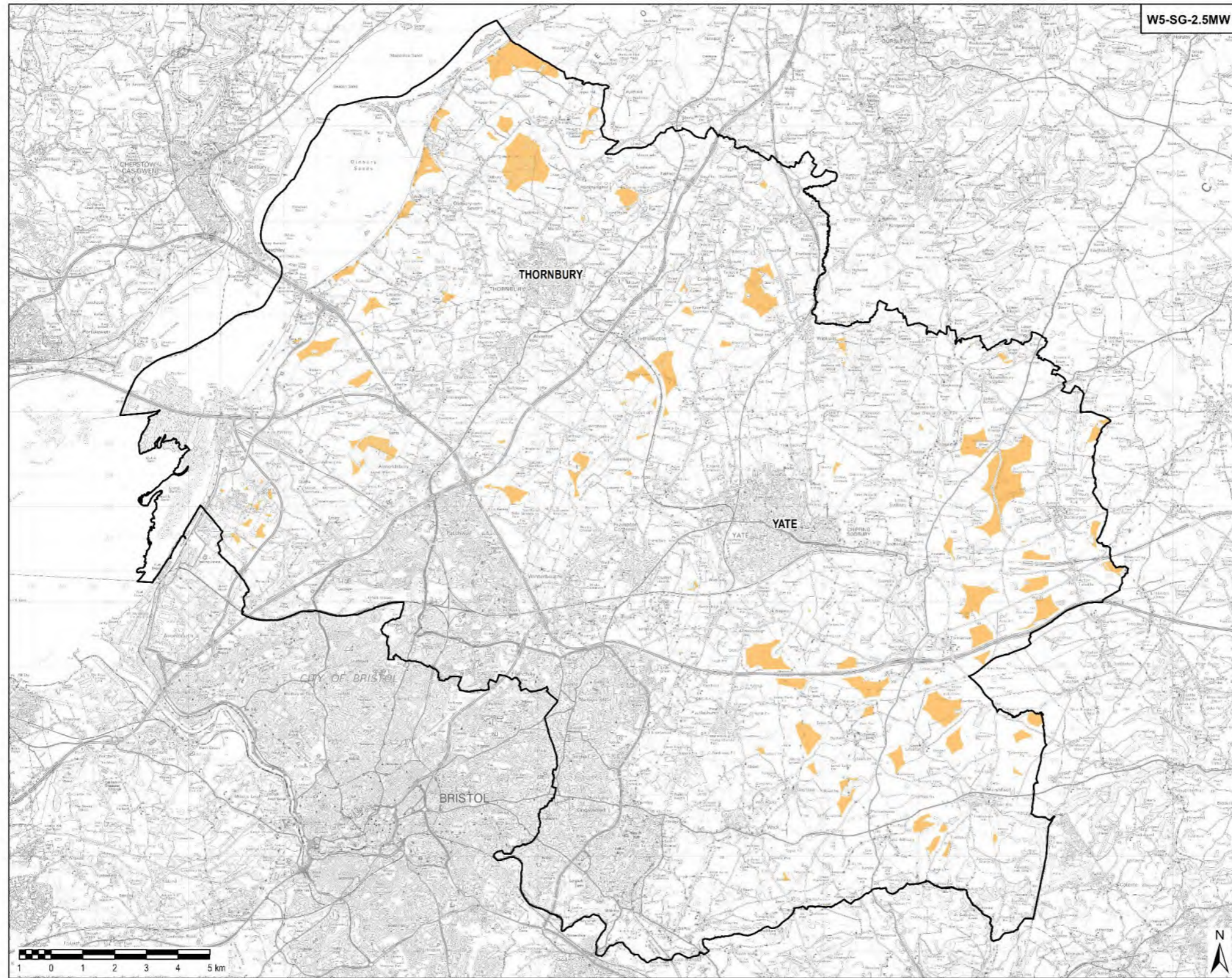
FIGURE W5-SG-1.0MW 01

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GM PA RM 26/03/21

Filename: P:\UKCDF\HE\Projects\GIS Management\001 Projects\2020\REA - South Gloucestershire\02\_Maps\Wind\2 - 1 MW\W5\_Land\_Remaining\_After\_W3.mxd

# W5-SG-2.5MW: Remaining Land Parcels from Resource Map (W3) After Constraining the Unsuitable Areas due to Wind Speed Map (W4) for Installation of 2.5MW Wind Turbines



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After Constraining the  
Unsuitable Areas due to  
Wind Speed Map (W4) for  
Installation of 2.5MW  
Wind Turbines

Scale at A3: 1:110,000

**Drawing No:** **Rev:**

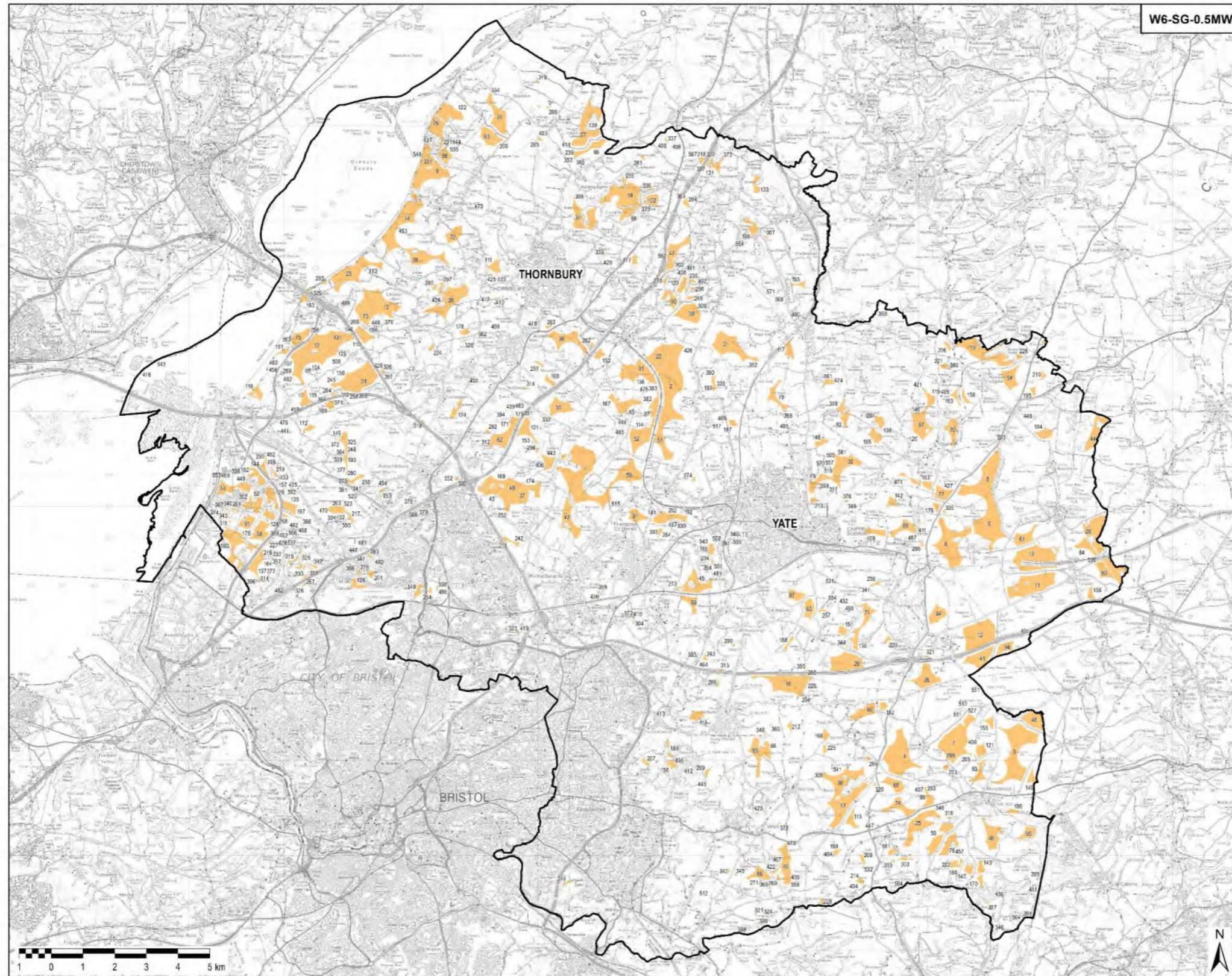
FIGURE W5-SG-2.5MW 01

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Filename: P:\UKCDF\HE\Projects\GIS Management\001 Projects\2020\REA - South Gloucestershire\02\_Maps\Wind3 - 2.5 MW\W5\_Land\_Remaining\_After\_W3.mxd

# W6-SG-500kW: Remaining Land Parcels from W5 Map for 500kW Wind Turbines After Constraining Land Slivers, Fire Breaks and Tracks, As Well As Parcels of Land Allocated to 1.0MW and 2.5MW Wind Turbines



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**Note:**  
There are 573 Local Search Areas in total for 0.5MW. These have not all been labelled on this drawing to avoid overcrowding.

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Remaining Land Parcels From W5 Map for 500kW Wind Turbines After Constraining Land Slivers, Fire Breaks and Tracks, As Well As Parcels of Land Allocated to 1MW and 2.5MW Wind Turbines

Scale at A3: 1:110,000

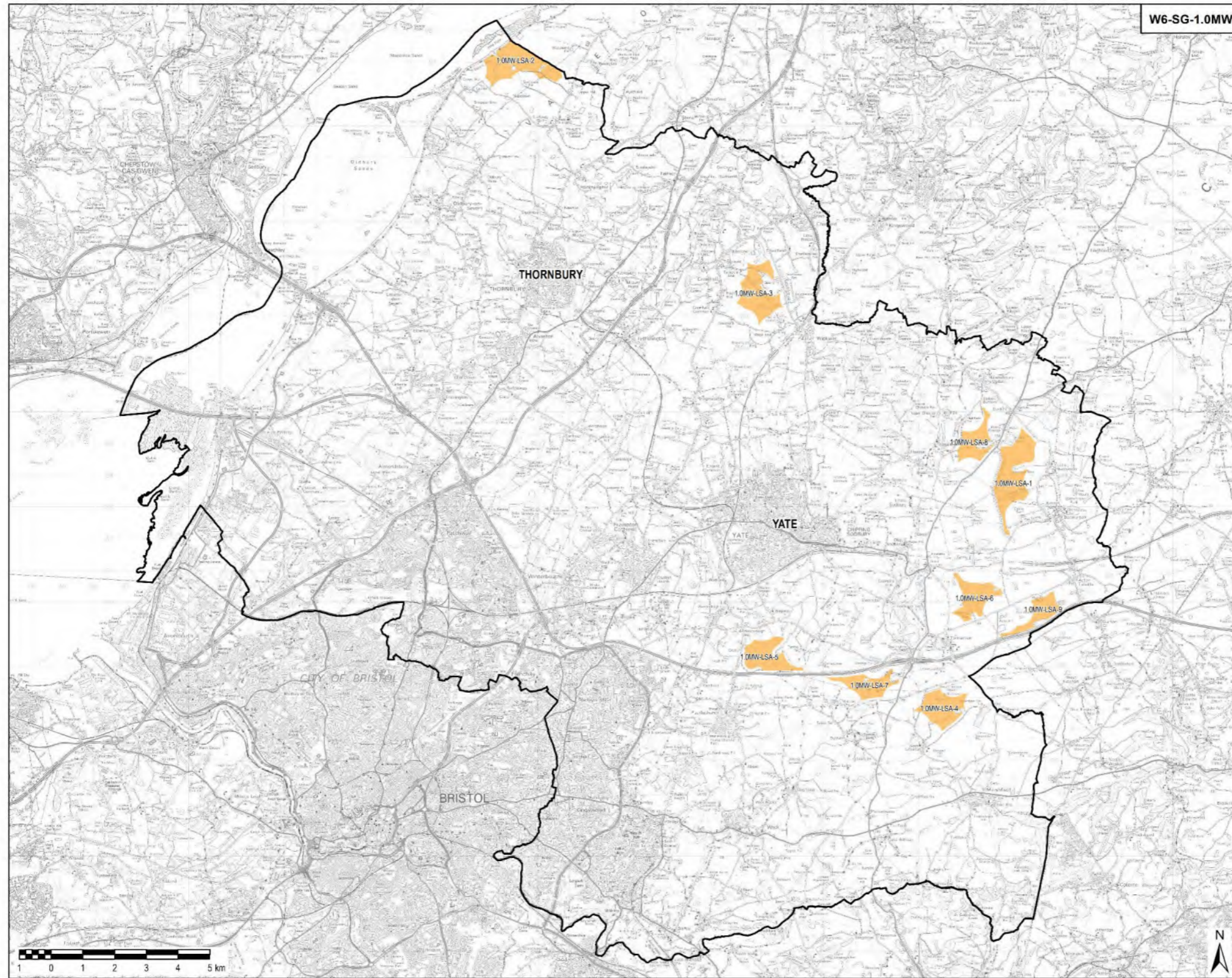
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**FIGURE W6-SG-0.5MW**

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GM PA RM 06/10/21

Filename: \\e:\aecom\proj\01\UK\CDP1-HE\Projects\GIS Management\001 Projects\2020\REA - South Gloucestershire\02\_Maps\Wind1 - 500kW\W6\_Land\_Remaining\_After\_W5.mxd

# W6-SG-1.0MW: Remaining Land Parcels from W5 Map After Constraining Land Slivers, Fire Breaks and Tracks, As Well As Parcels of Land Insufficient to Support a Wind Farm of 5MW or More Based on 1.0 MW Wind Turbines



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Fire Breaks and Tracks,  
As Well As Parcels of  
Land Insufficient to  
Support a Wind Farm of  
5MW or More Based on  
1 MW Wind Turbines

Scale at A3: 1:110,000

**Drawing No:** **Rev:**

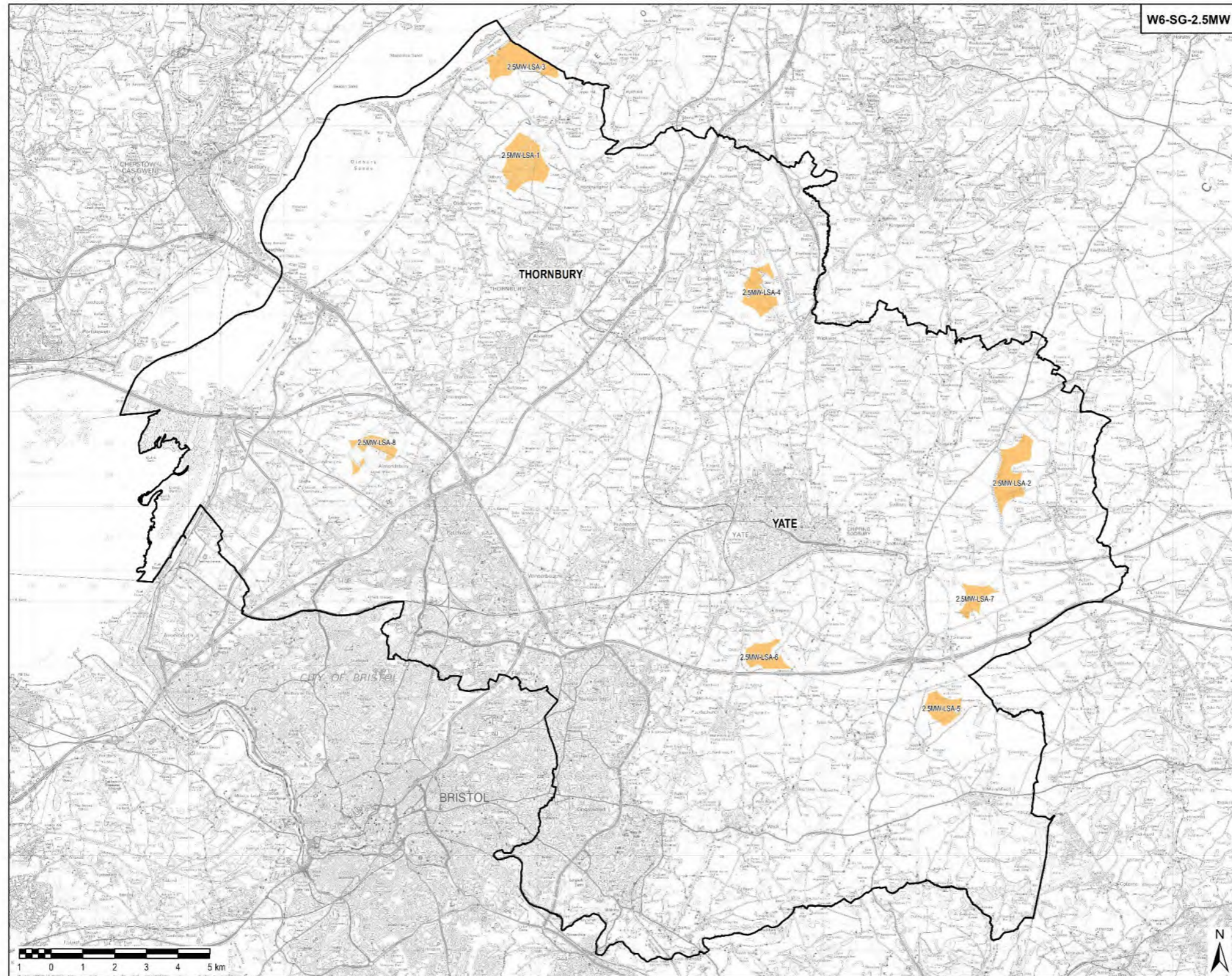
FIGURE W6-SG-1.0MW 01

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# W6-SG-2.5MW: Remaining Land Parcels from W5 Map After Constraining Land Slivers, Fire Breaks and Tracks, As Well As Parcels of Land Insufficient to Support a Wind Farm of 5MW or More Based on 2.5MW Wind Turbines



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Remaining Land Parcels  
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Fire Breaks and Tracks,  
As Well As Parcels of  
Land Insufficient to  
Support a Wind Farm of  
5MW or More Based on  
2.5MW Wind Turbines

Scale at A3: 1:110,000

**Drawing No:** **Rev:**

FIGURE W6-SG-2.5MW 01

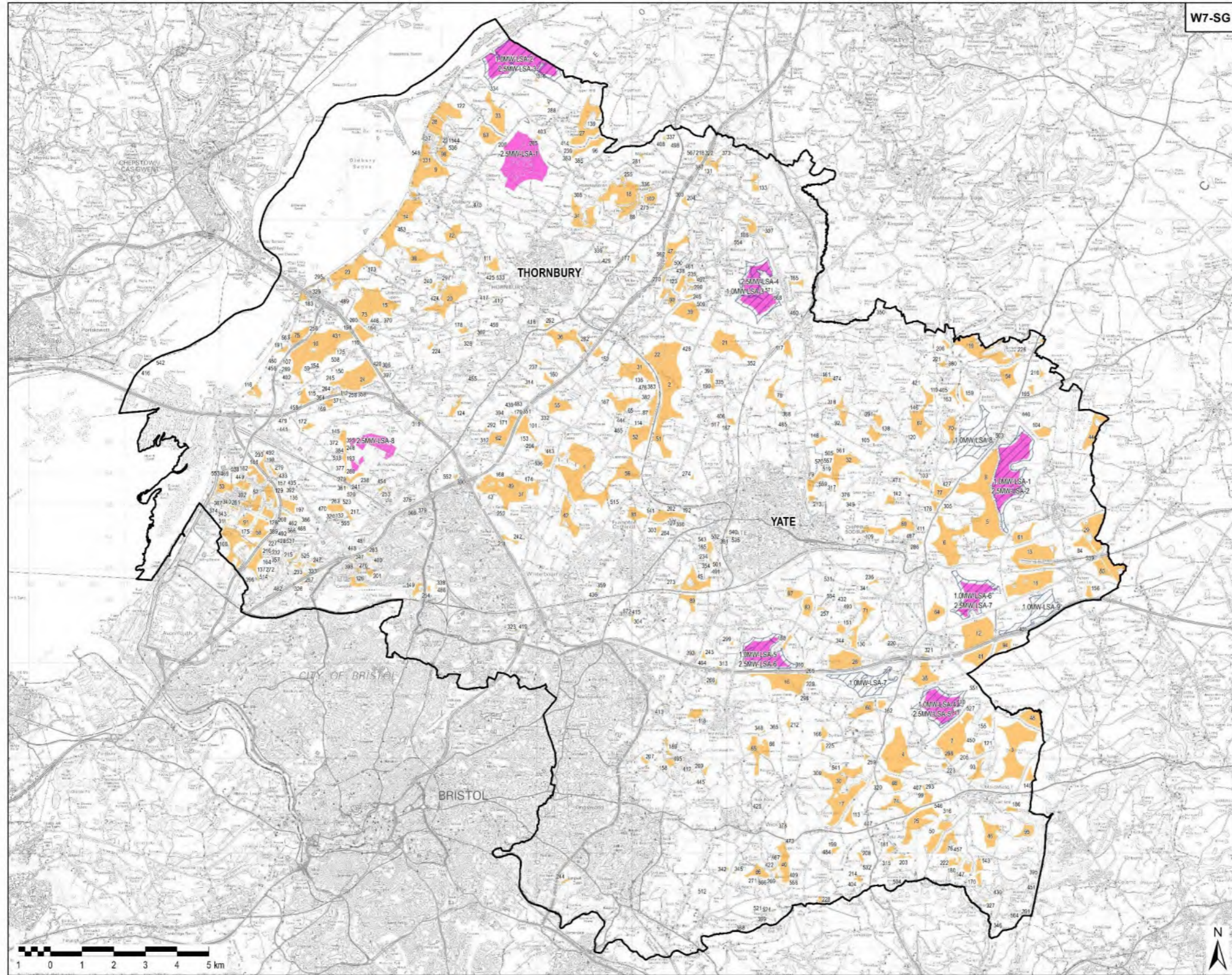
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GM PA RM 26/03/21

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# W7-SG: Combined Wind Search Areas in South Gloucestershire



W7-SG



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- South Gloucestershire Boundary
- Unconstrained Wind Resource - 0.5MW
- Unconstrained Wind Resource - 1.0MW
- Unconstrained Wind Resource - 2.5MW

**Note:**  
There are 573 Local Search Areas in total for 0.5MW. These have not all been labelled on this drawing to avoid overcrowding.

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**Drawing Title:**

Combined Wind Search Areas in South Gloucestershire

Scale at A3: 1:110,000

**Drawing No:** **Rev:**

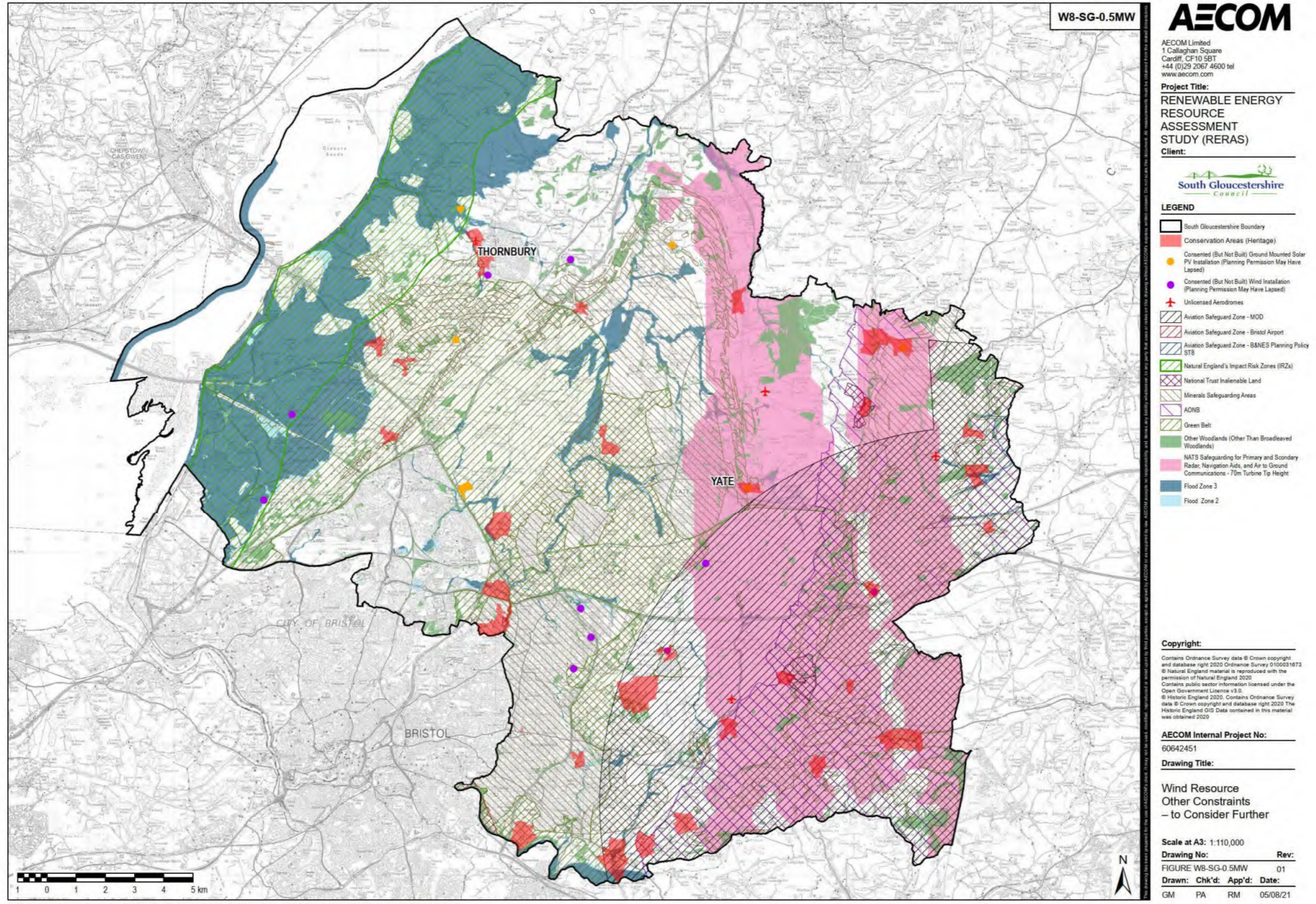
FIGURE W7-SG 01

**Drawn:** Chk'd: App'd: **Date:**

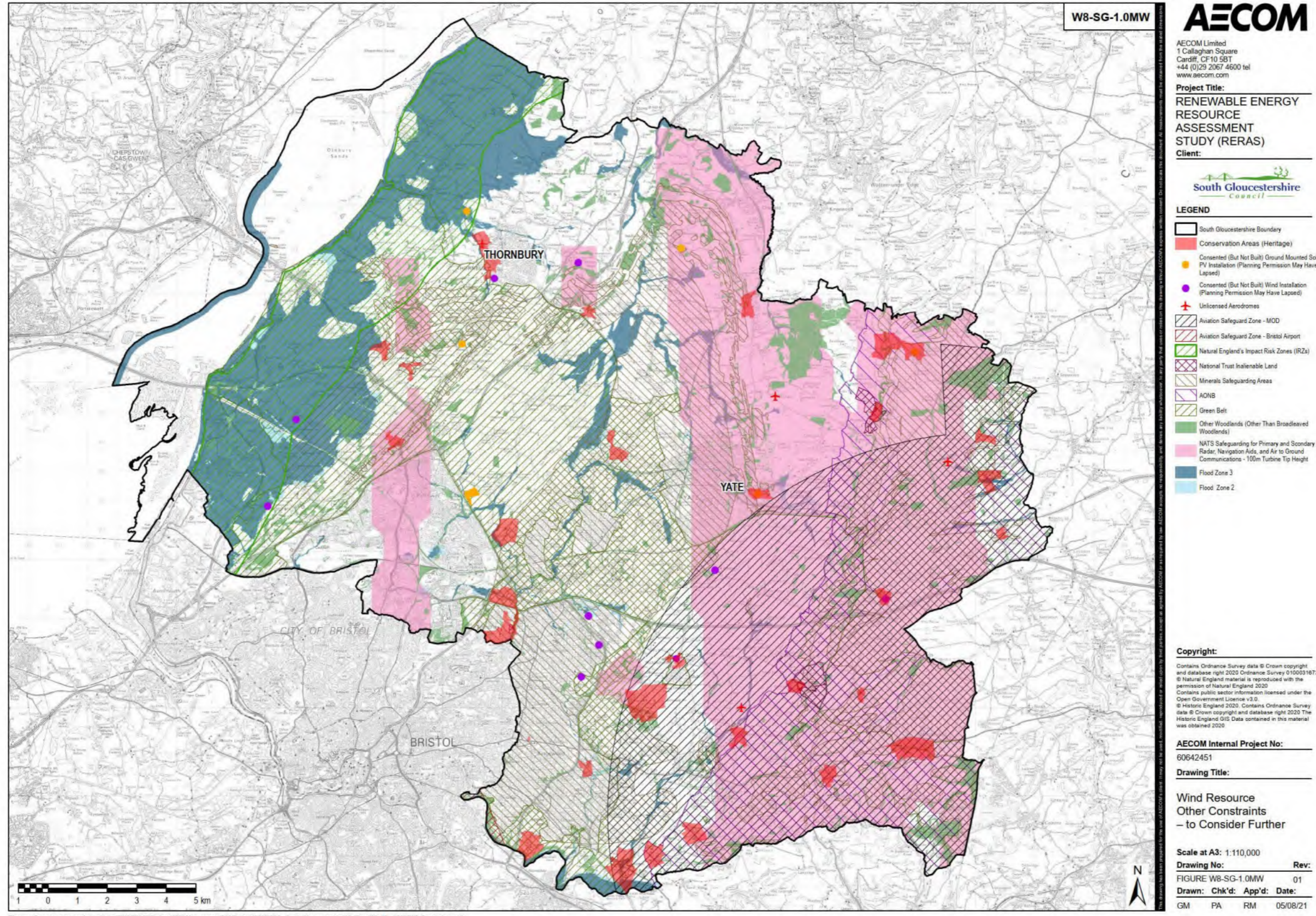
GM PA RM 06/10/21

Filename: You.aecomnet.com\ouproject\01\KCCDF1-IE\Projects\GIS Management\01 Projects\2020\REA - South Gloucestershire\02 Maps\Wind\W7 Combined Wind.mxd

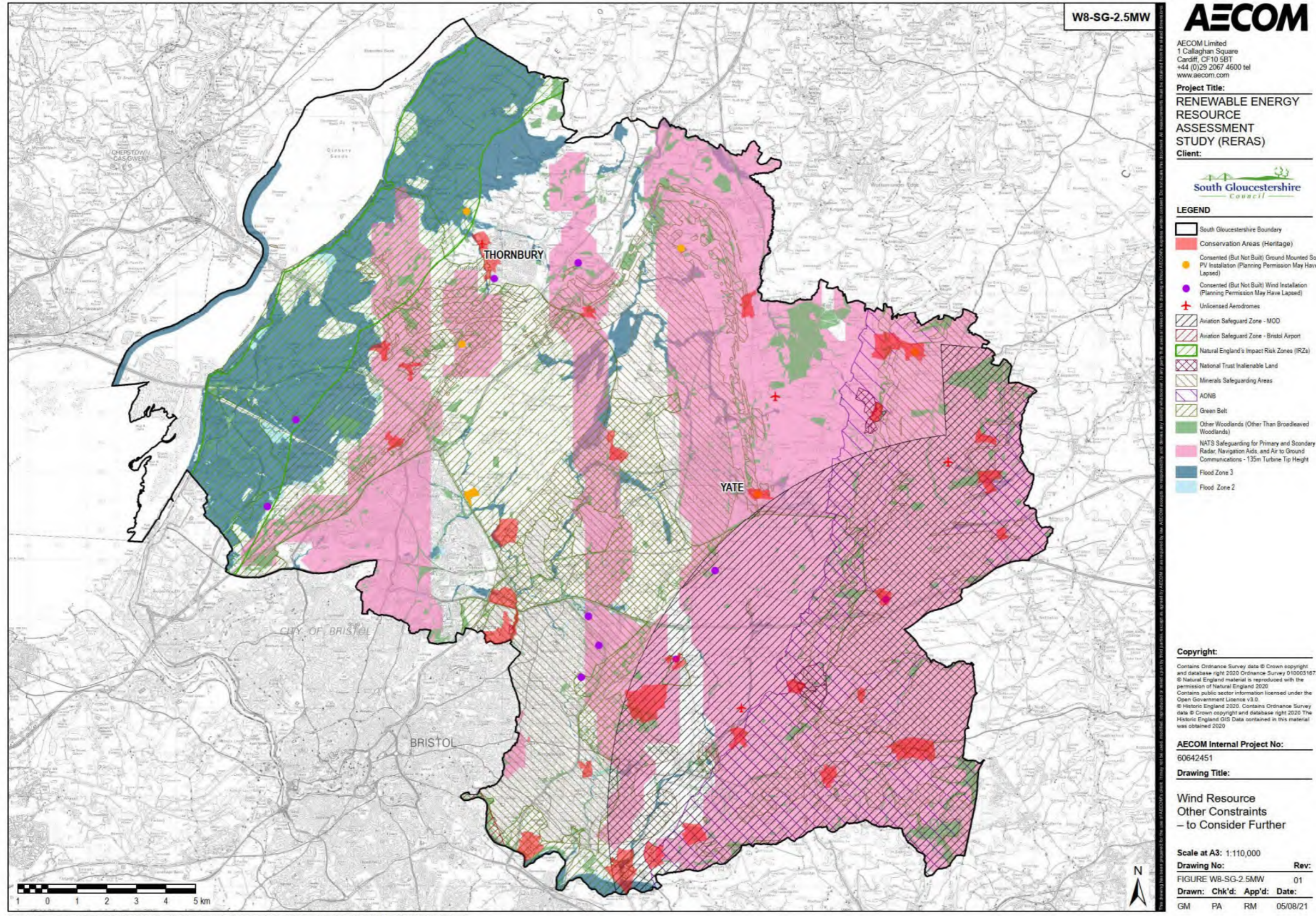
# W8-SG -0.5MW: Wind Resource Other Constraints – to Consider Further



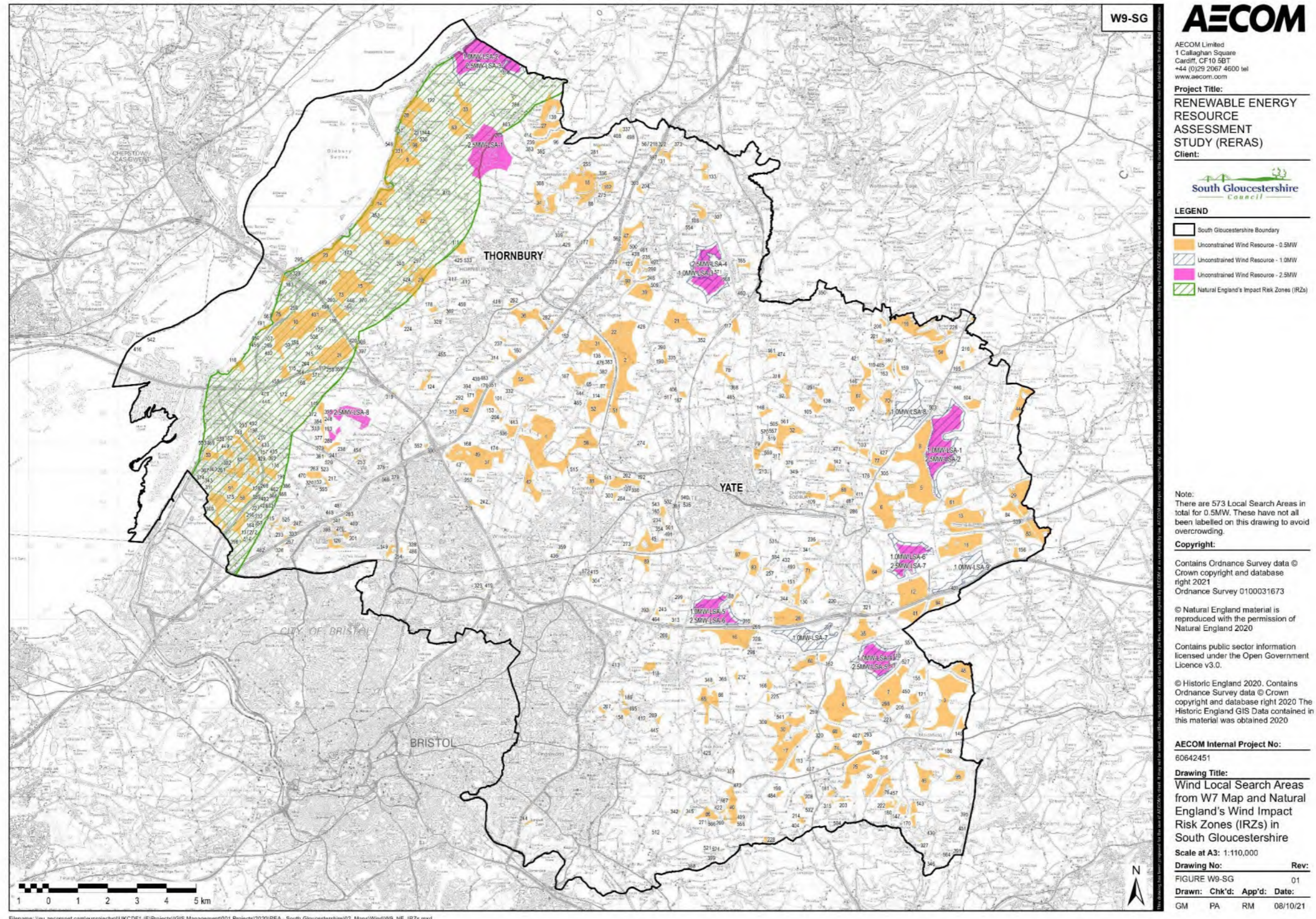
# W8-SG-1.0MW: Wind Resource Other Constraints – to Consider Further



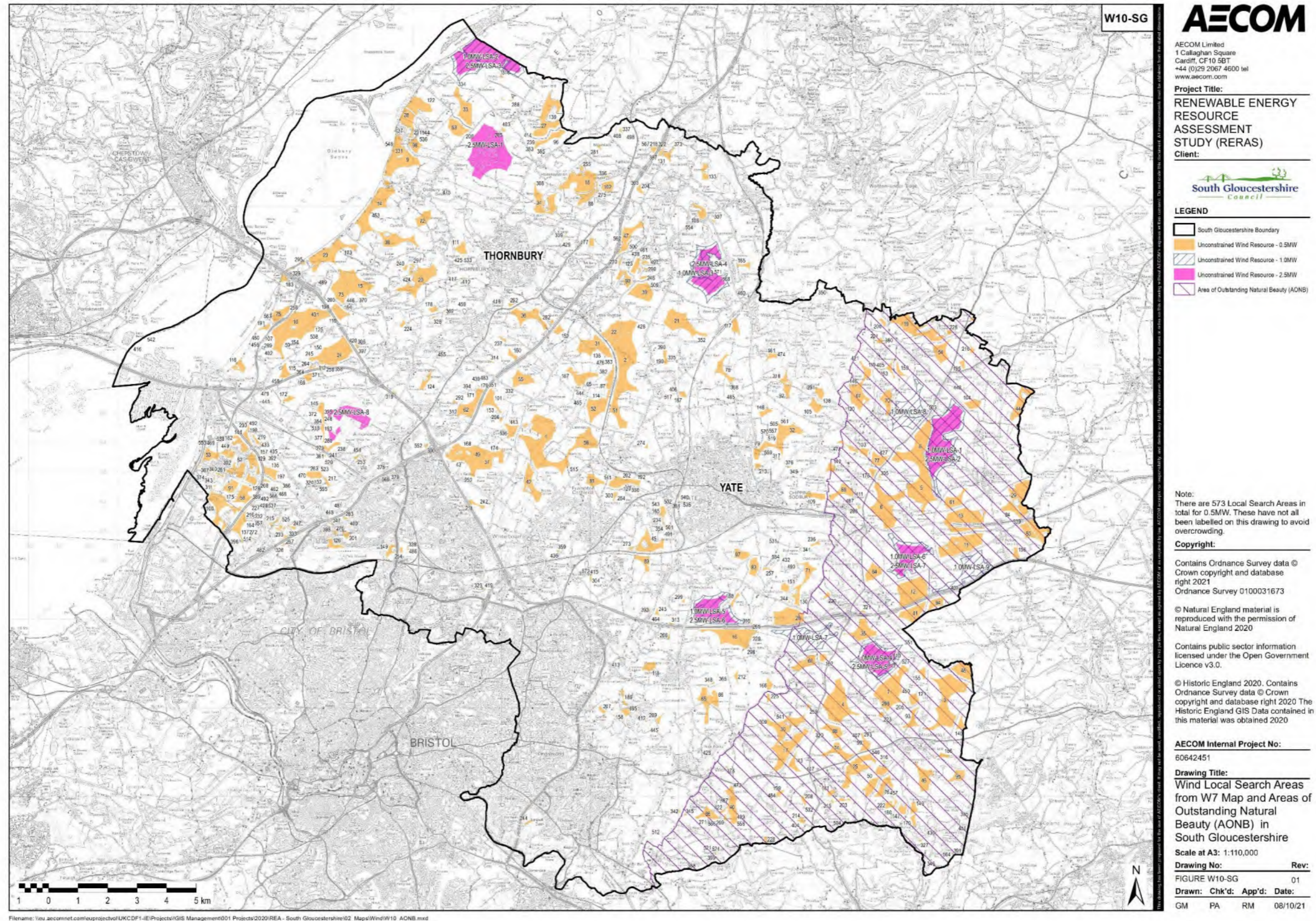
# W8-SG-2.5MW: Wind Resource Other Constraints – to Consider Further



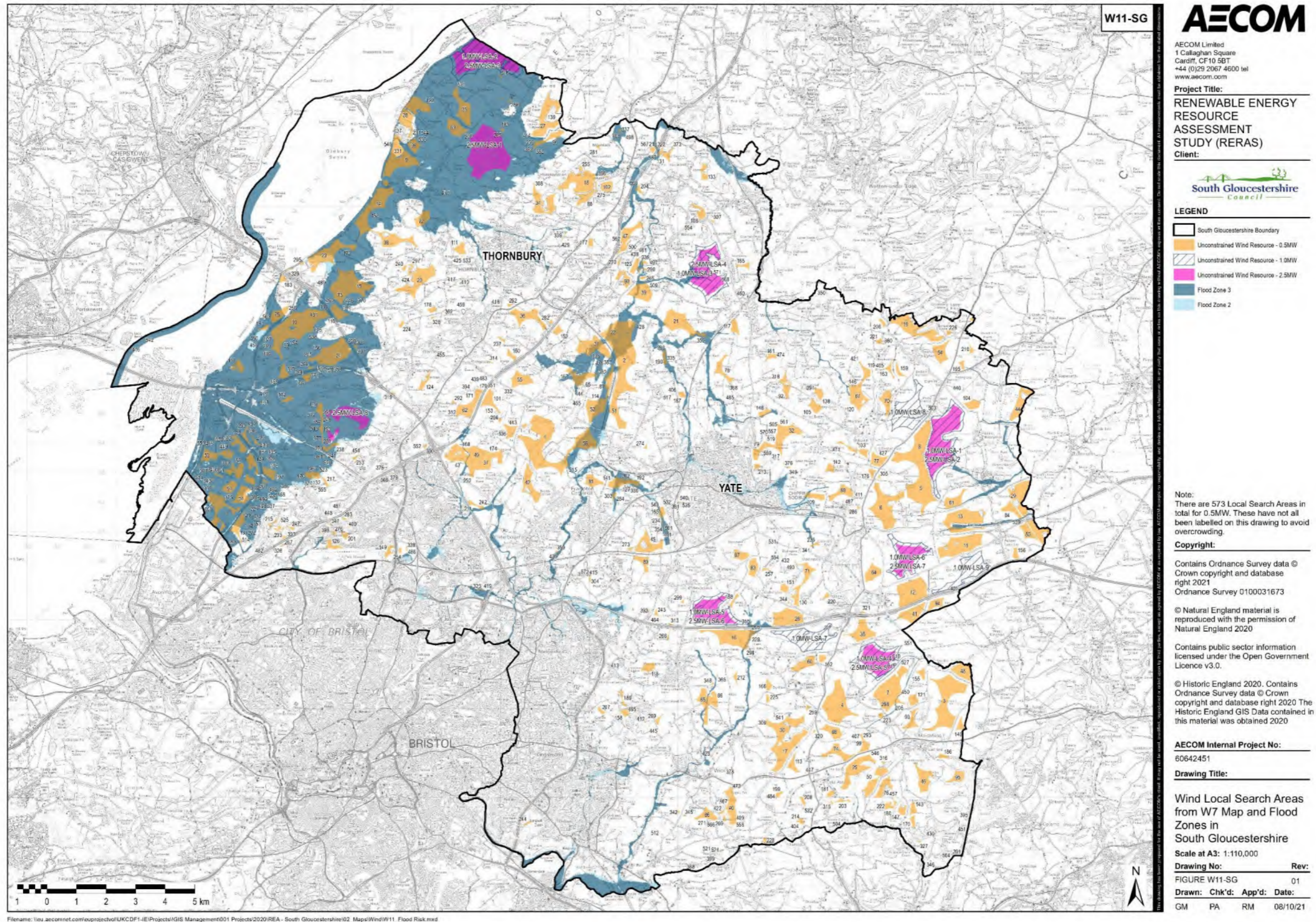
# W9-SG: Wind Local Search Areas from W7 Map and Natural England's Wind Impact Risk Zones (IRZs) in South Gloucestershire



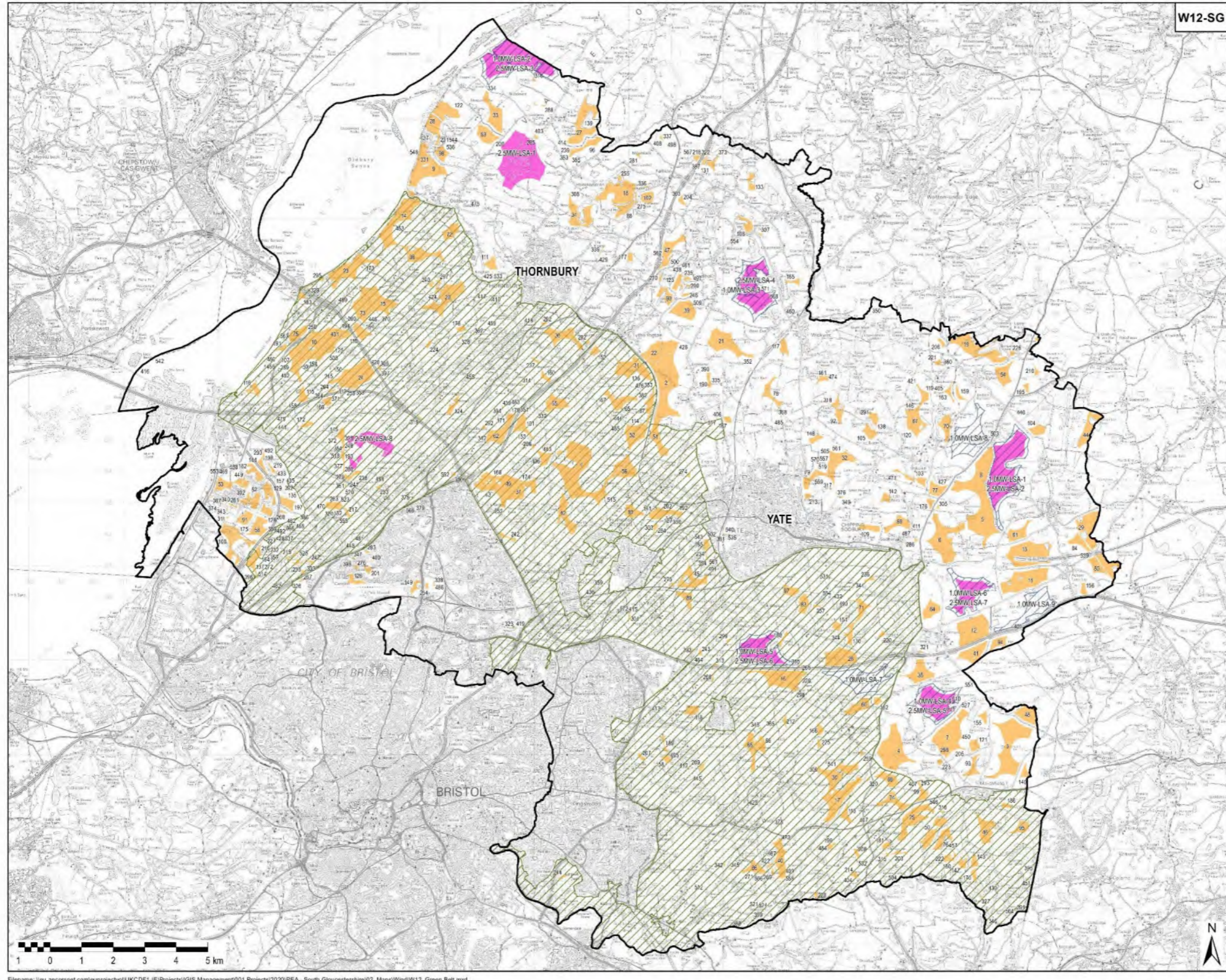
# W10-SG: Wind Local Search Areas from W7 Map and Areas of Outstanding Natural Beauty (AONB) in South Gloucestershire



# W11-SG: Wind Local Search Areas from W7 Map and Flood Zones in South Gloucestershire



# W12-SG: Wind Local Search Areas from W7 Map and Green Belt Area in South Gloucestershire



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- South Gloucestershire Boundary
- Unconstrained Wind Resource - 0.5MW
- Unconstrained Wind Resource - 1.0MW
- Unconstrained Wind Resource - 2.5MW
- Green Belt

**Note:**  
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**Drawing Title:**

Wind Local Search Areas from W7 Map and Green Belt Area in South Gloucestershire  
Scale at A3: 1:110,000

**Drawing No:** **Rev:**

FIGURE W12-SG 01

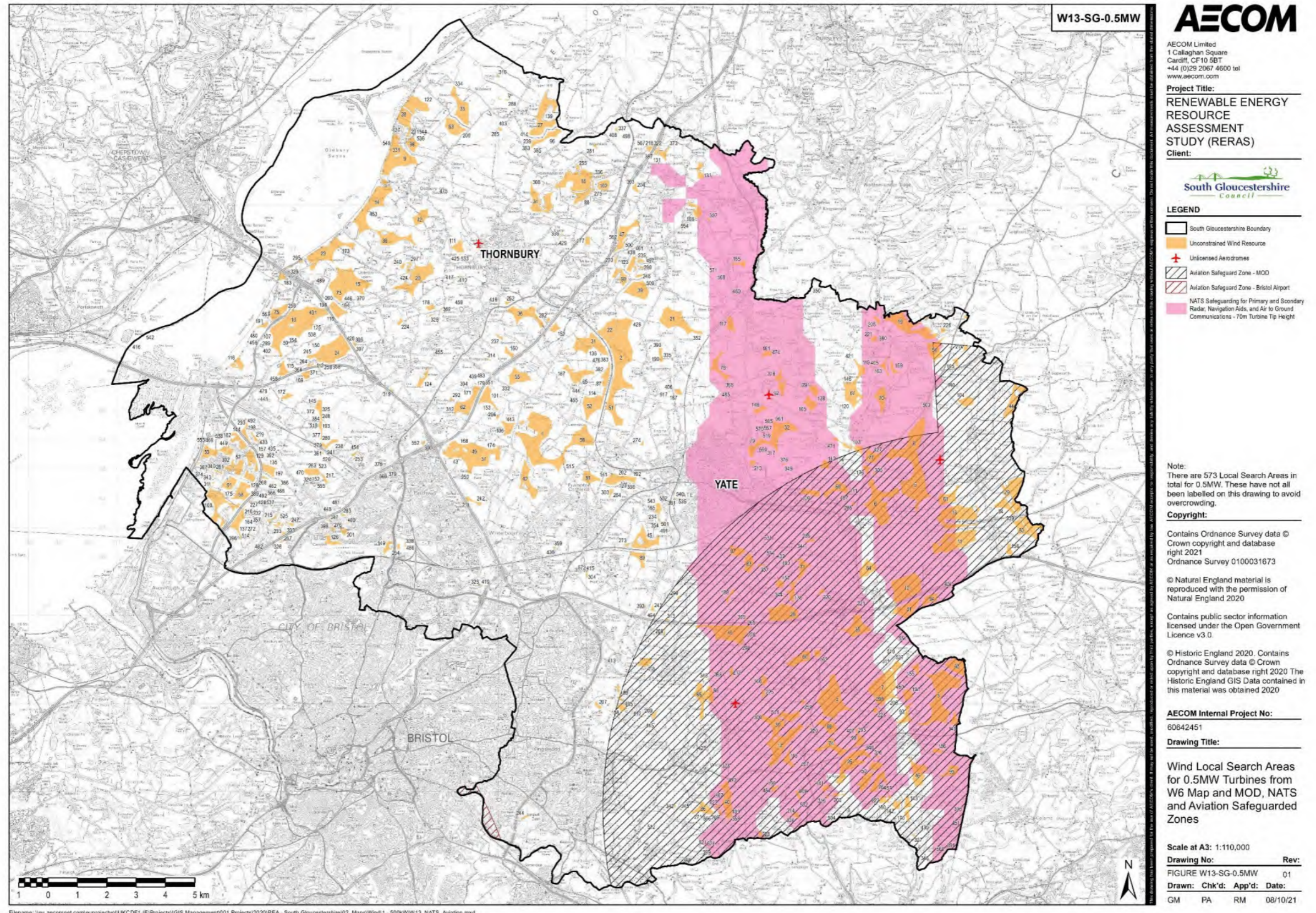
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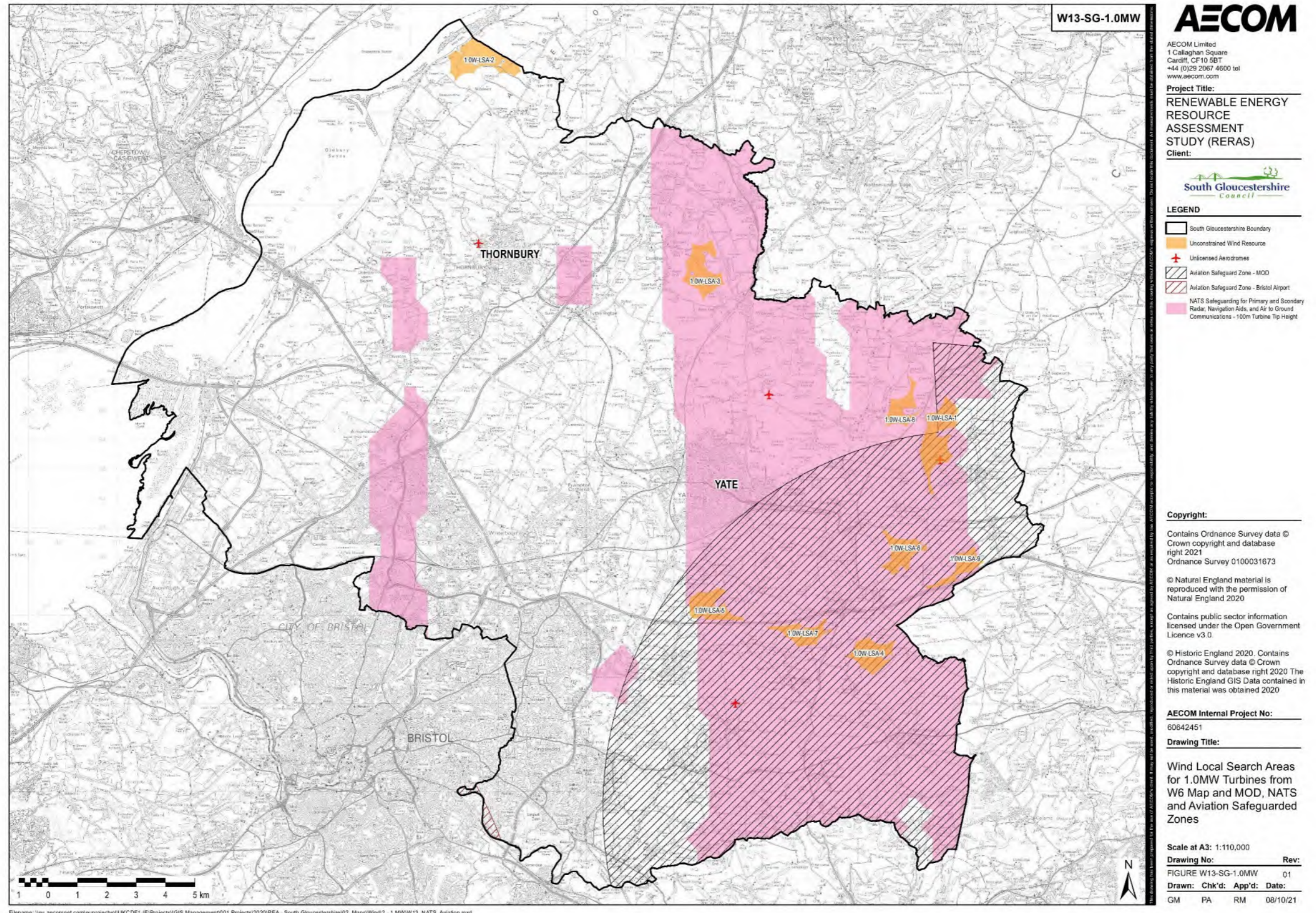
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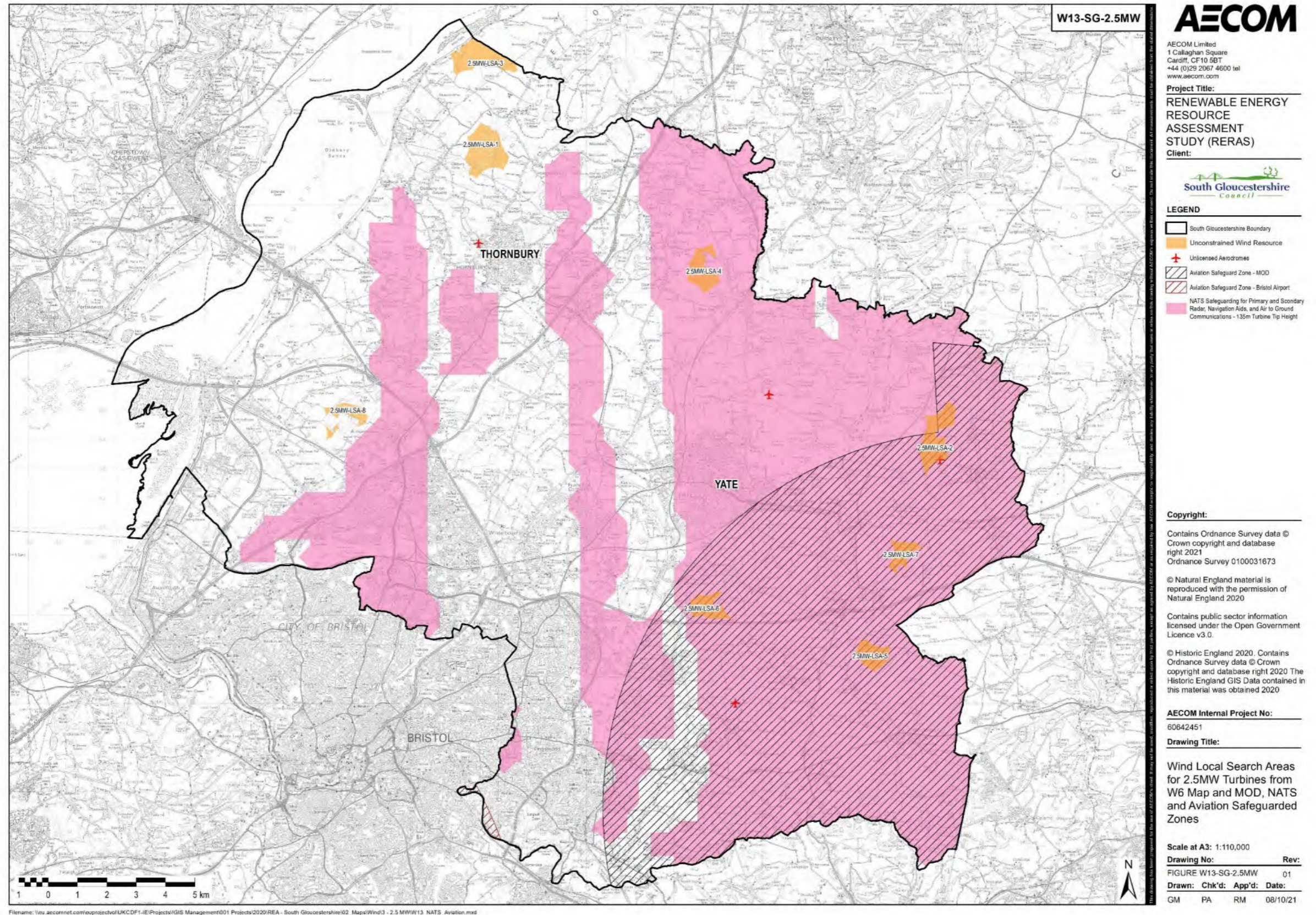
# W13-SG-0.5MW: Wind Local Search Areas for 500kW Turbines from S6 Map and MOD, NATS and Aviation Safeguarded Zones



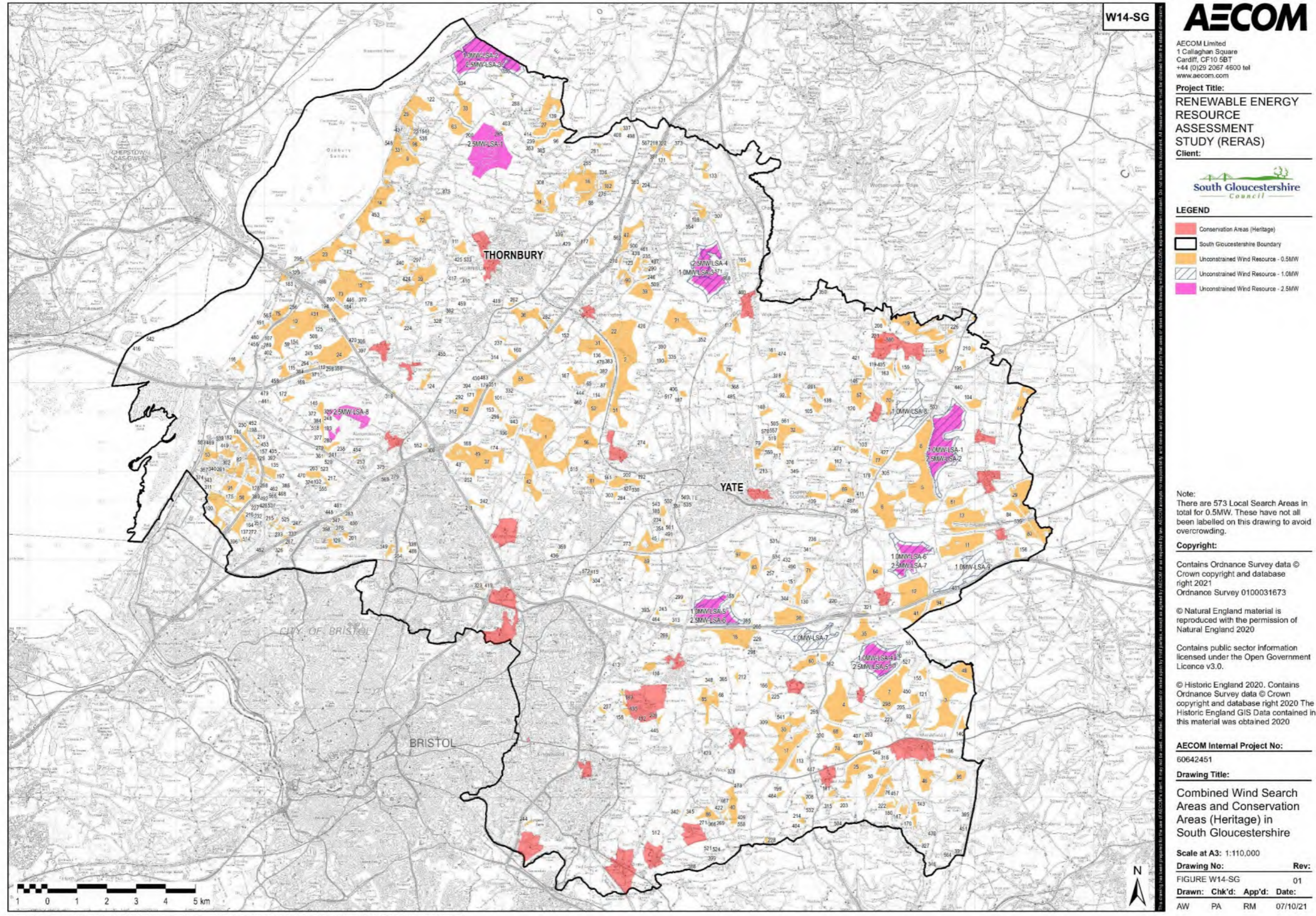
# W13-SG-1.0MW: Wind Local Search Areas for 1.0MW Turbines from S6 Map and MOD, NATS and Aviation Safeguarded Zones



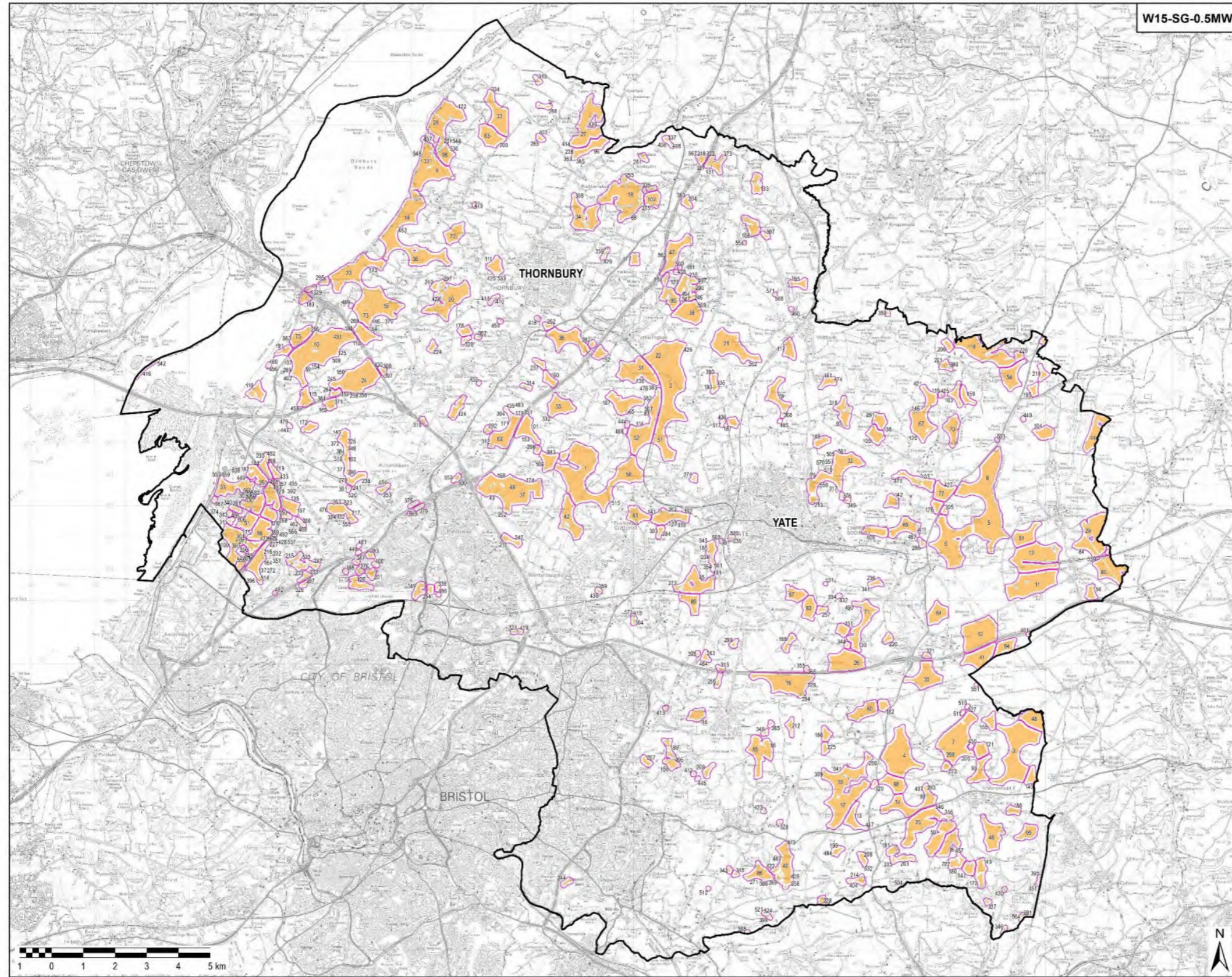
# W13-SG-2.5MW: Wind Local Search Areas for 2.5MW Turbines from S6 Map and MOD, NATS and Aviation Safeguarded Zones



# W14-SG: Combined Wind Search Areas and Conservation Areas (Heritage) in South Gloucestershire



# W15-SG-0.5MW: Buffer Zones for Wind Local Search Areas from 500kW Turbines



W15-SG-0.5MW



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 [Black outline] South Gloucestershire Boundary  
 [Orange fill] Unconstrained Wind Resource  
 [Pink outline] 70m Buffer Topple Distance

**Note:**  
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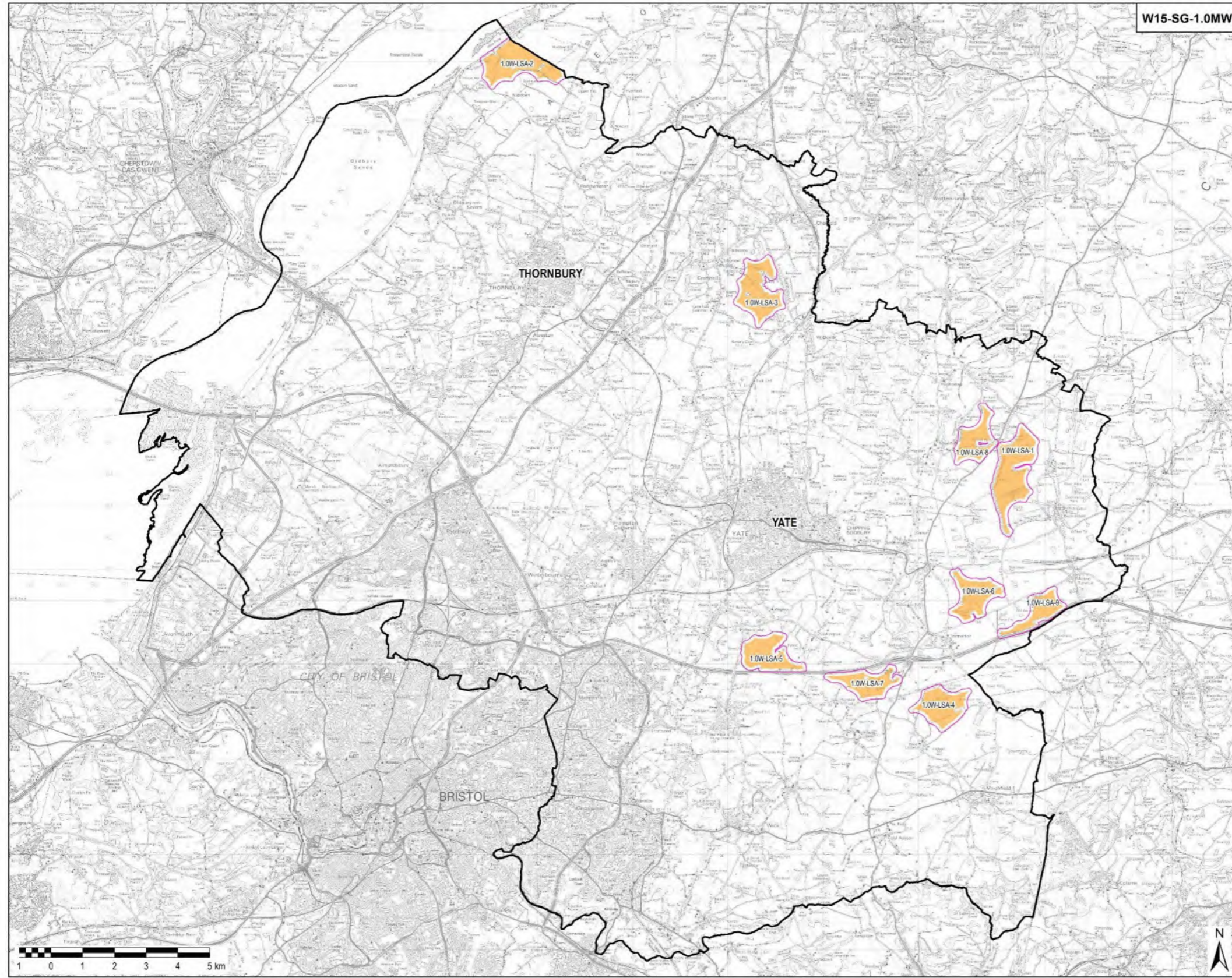
**Drawing Title:**

Buffer Zones for Wind Local Search Areas from 500kW Turbines

**Scale at A3:** 1:110,000  
**Drawing No:** Rev:  
 FIGURE W15-SG-0.5MW 01  
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# W15-SG-1.0MW: Buffer Zones for Wind Local Search Areas from 1.0MW Turbines



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 South Gloucestershire Boundary  
 Unconstrained Wind Resource  
 100m Buffer Topple Distance

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**AECOM Internal Project No:**  
60642451

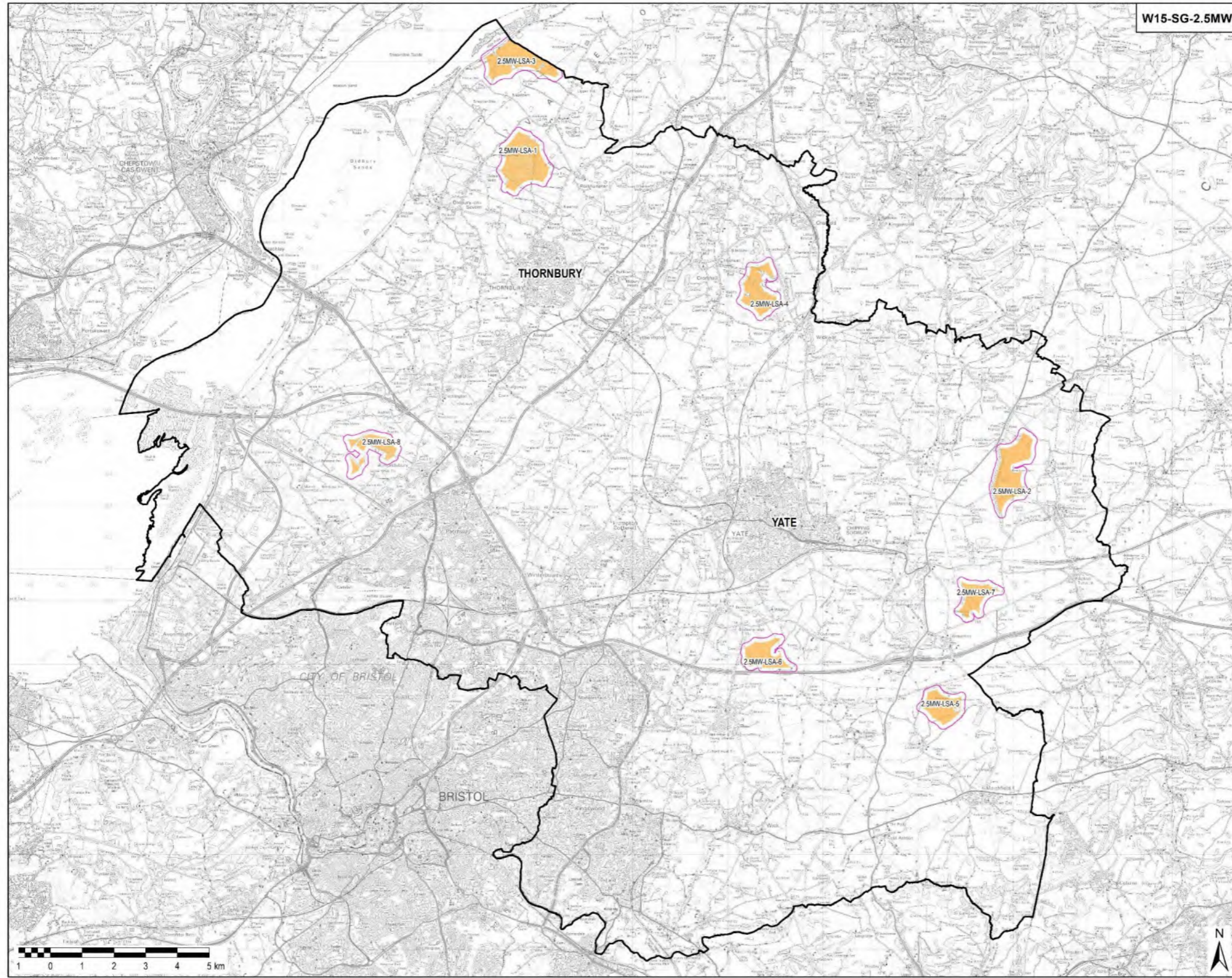
**Drawing Title:**

Buffer Zones for Wind  
Local Search Areas  
from 1.0MW Turbines

**Scale at A3:** 1:110,000  
**Drawing No:** FIGURE W15-SG-1.0MW  
**Rev:** 01  
**Drawn:** GM **Chk'd:** PA **App'd:** RM **Date:** 01/10/21

Filename: \\euc.aecom.net\project\UK\CDP1-IE\Projects\GIS Management\001 Projects\2020\REA - South Gloucestershire\02\_Maps\Wind2 - 1 MW\W15\_LSA.mxd

# W15-SG-2.5MW: Buffer Zones for Wind Local Search Areas from 2.5MW Turbines



W15-SG-2.5MW



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**Project Title:**  
RENEWABLE ENERGY  
RESOURCE  
ASSESSMENT  
STUDY (RERAS)  
**Client:**



**LEGEND**  
 South Gloucestershire Boundary  
 Unconstrained Wind Resource  
 135m Buffer Topple Distance

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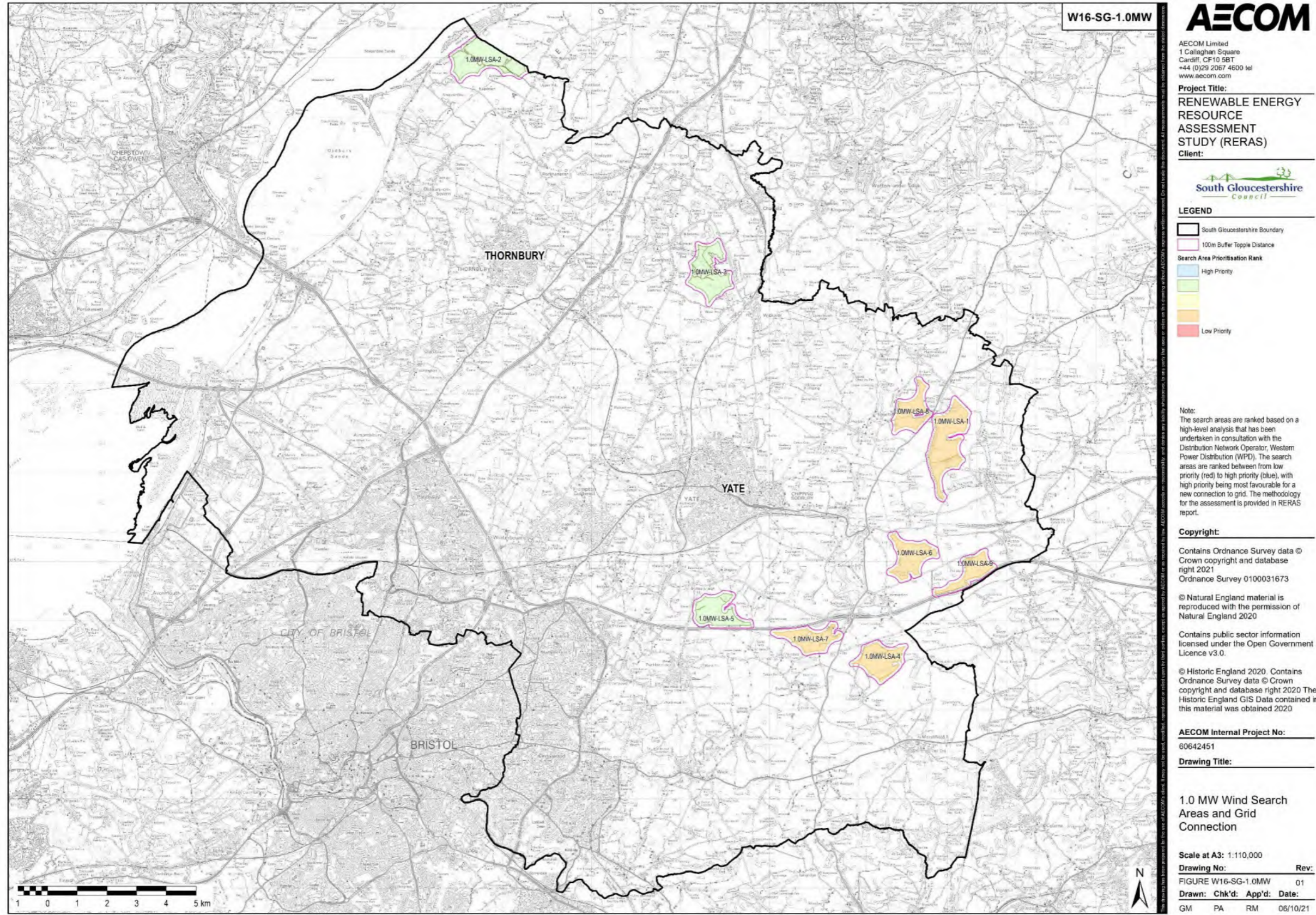
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Buffer Zones for Wind  
Local Search Areas  
from 2.5MW Turbines

**Scale at A3:** 1:110,000  
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**Drawn:** GM **Chk'd:** PA **App'd:** RM **Date:** 01/10/21

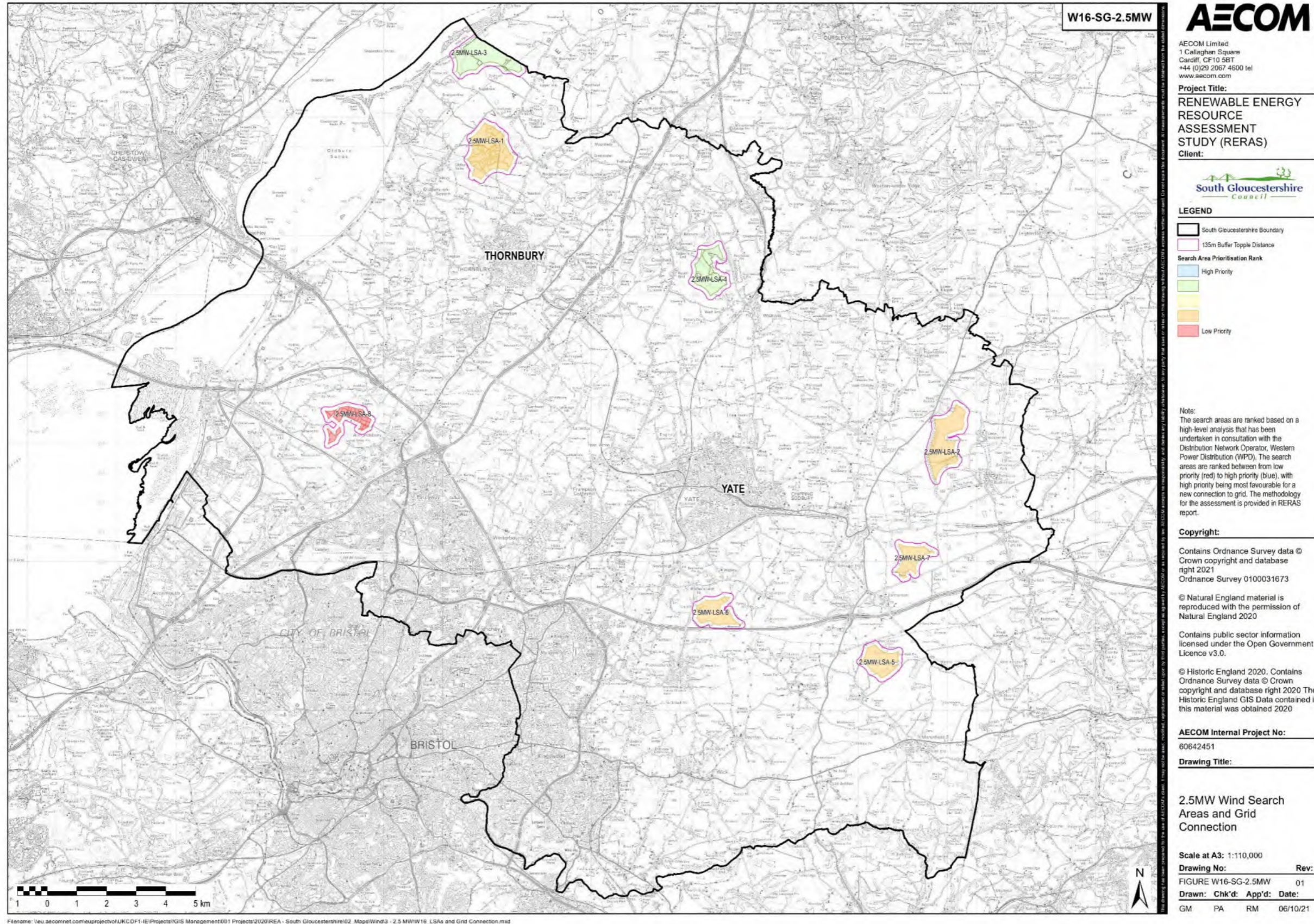
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# W16-SG-1.0MW: Wind Search Areas and Grid Connection

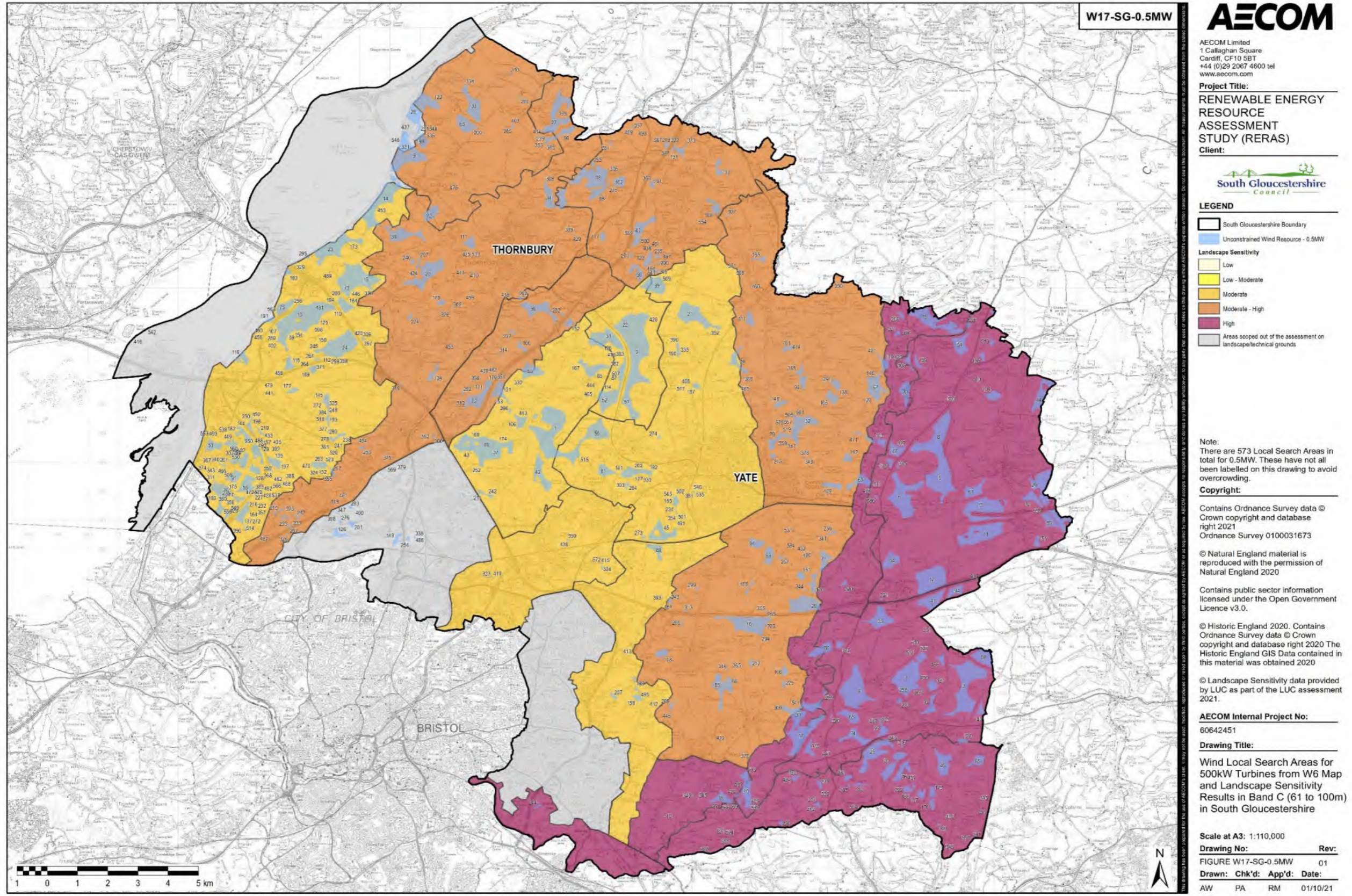




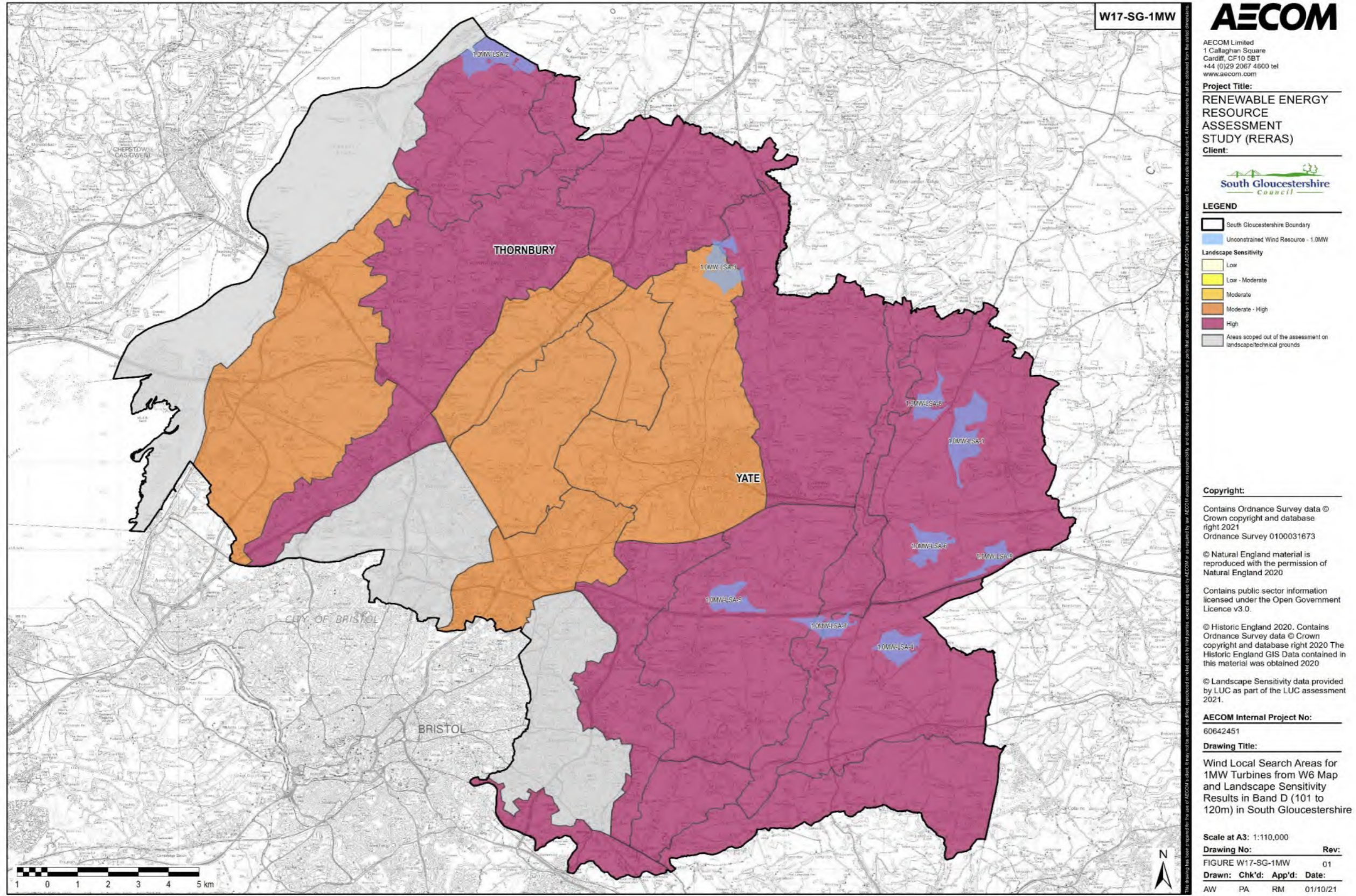
# W16-SG-2.5MW: Wind Search Areas and Grid Connection



# W17-SG: Wind Search Areas and Landscape Sensitivity Results in Band C – 0.5MW SAs



# W17-SG: Wind Search Areas and Landscape Sensitivity Results in Band D – 1.0MW SAs



# W17-SG: Wind Search Areas and Landscape Sensitivity Results in Band E – 2.5MW SAs

