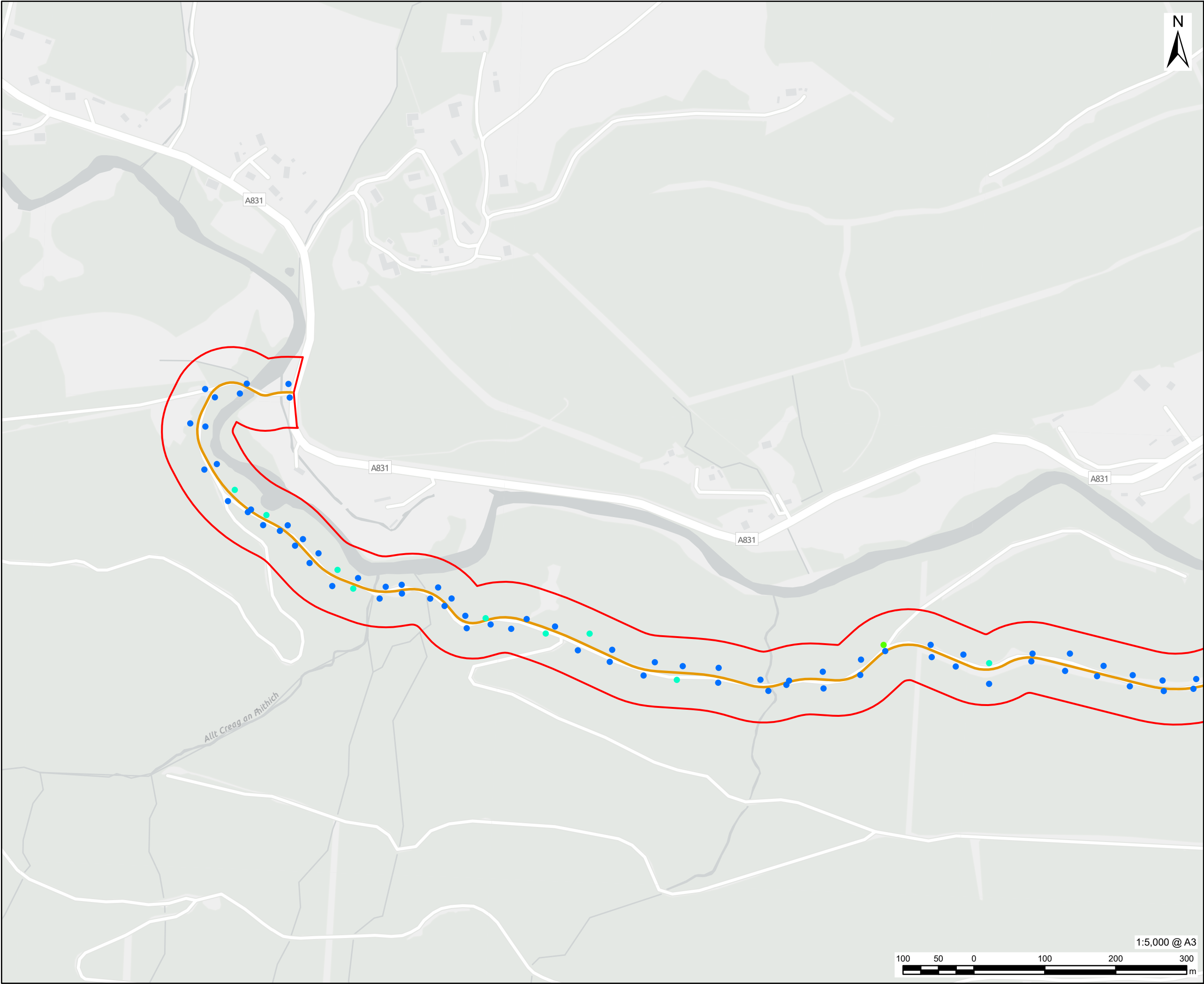


AI_4_08 - Preliminary Peat Landslide Hazard and Risk Assessment: Stage 1 Response Supporting Figures.

(Appendix A to AI_4_07)

- Figure 15.3.8 - Peat Probe Survey Results
- Figure 15.3.9 - Peat Depth Interpolation Plan
- Figure 15.3.10 - Peat Slide Assessed Hazard
- Figure 15.3.12 - Geomorphology
- Figure 15.3.13 - Risk Mapping



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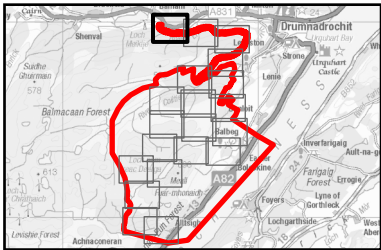
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LEGEND

- Site Boundary
- Upper Control Works Outline
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Peat Probe Location & Depth (m)

- 0.00 - 0.50
- 0.51 - 1.00
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- 2.01 - 2.50
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- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
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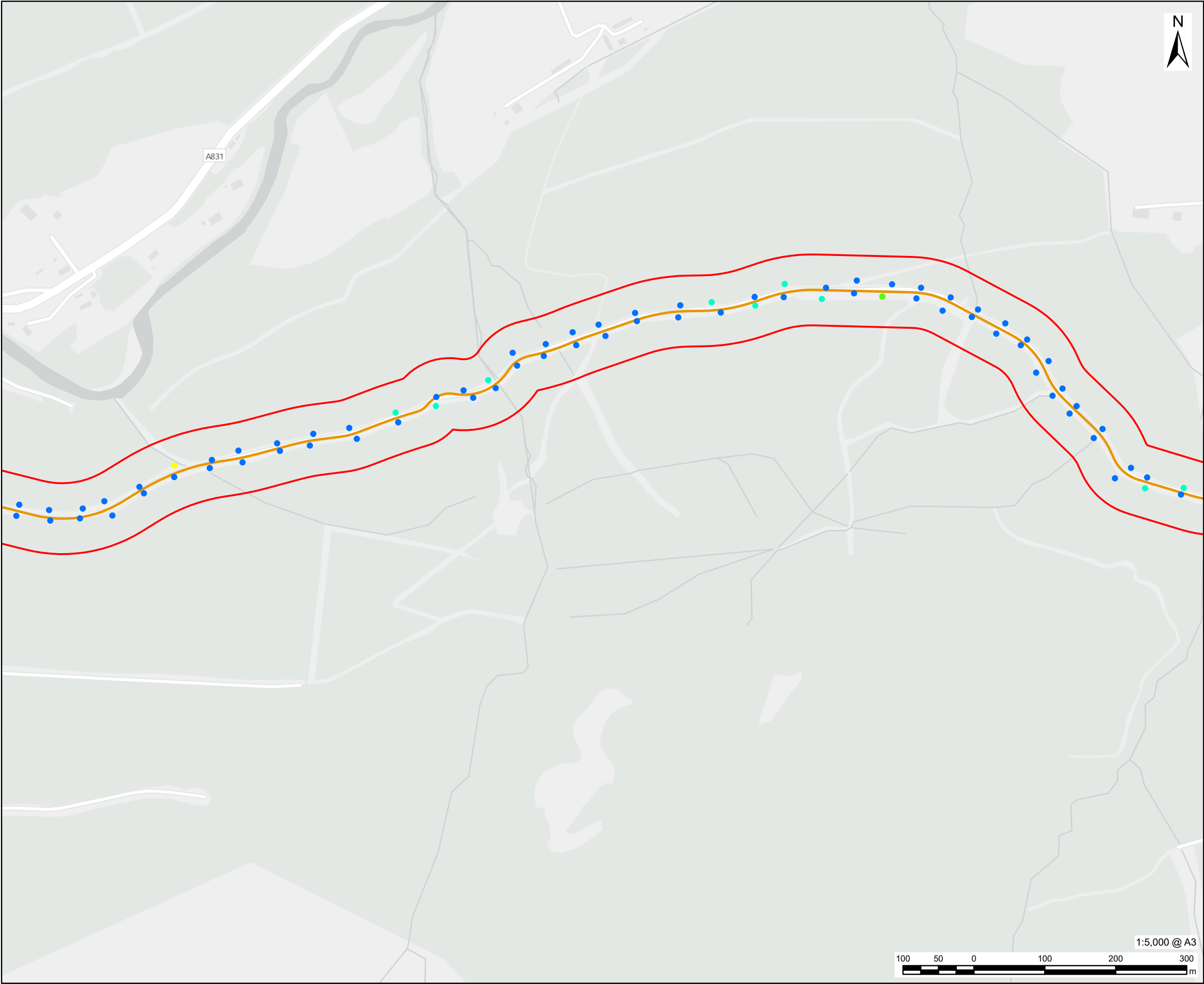
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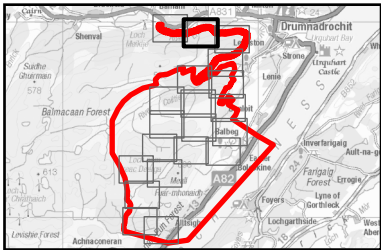
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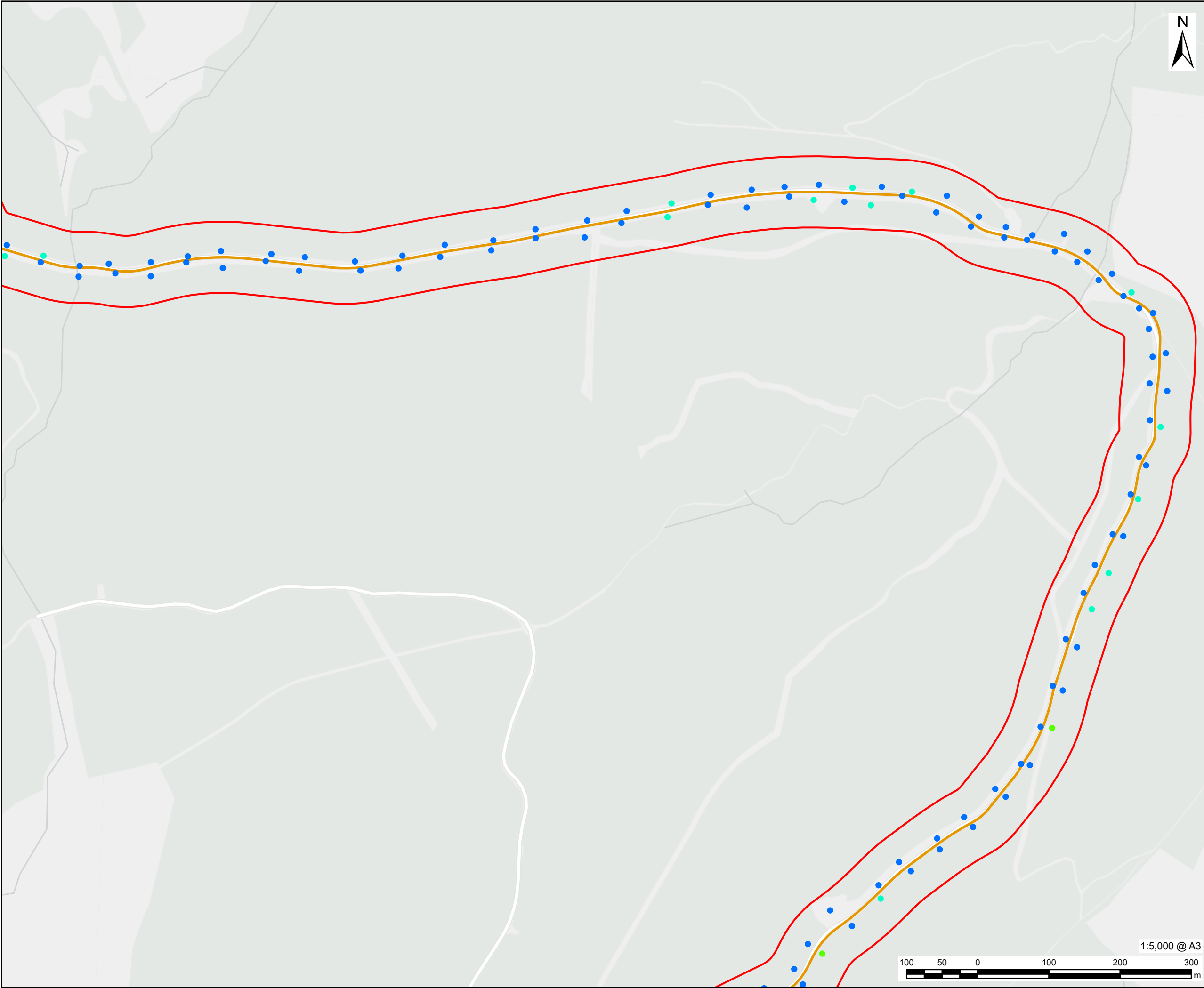
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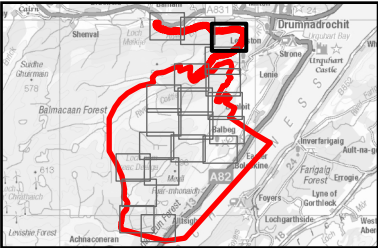
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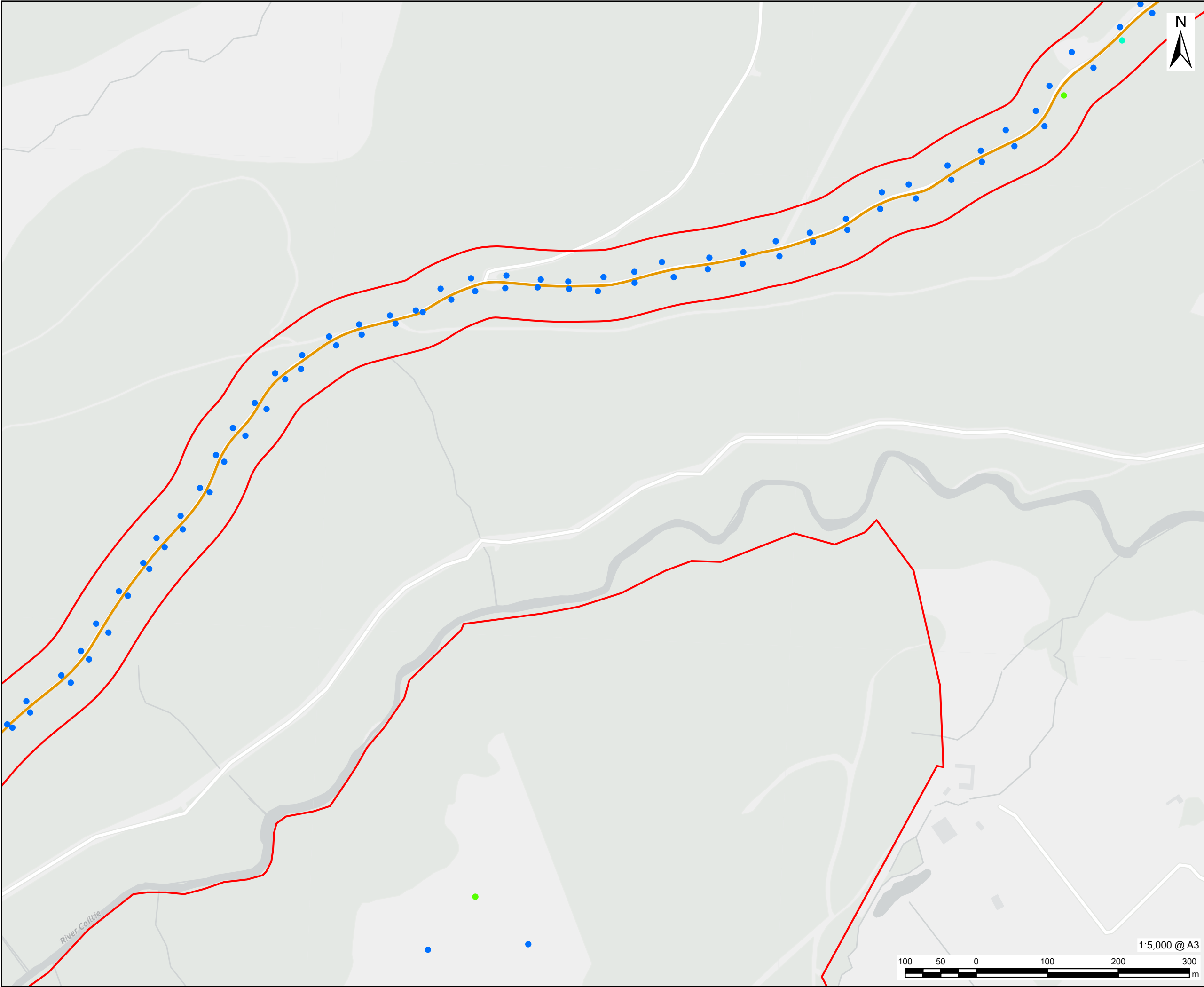
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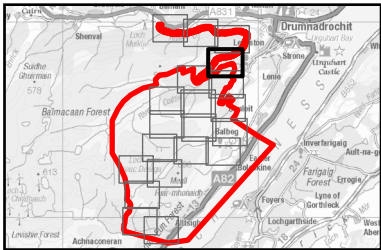
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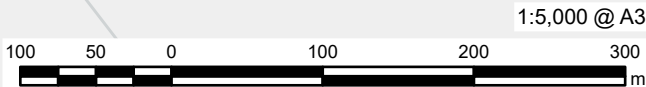
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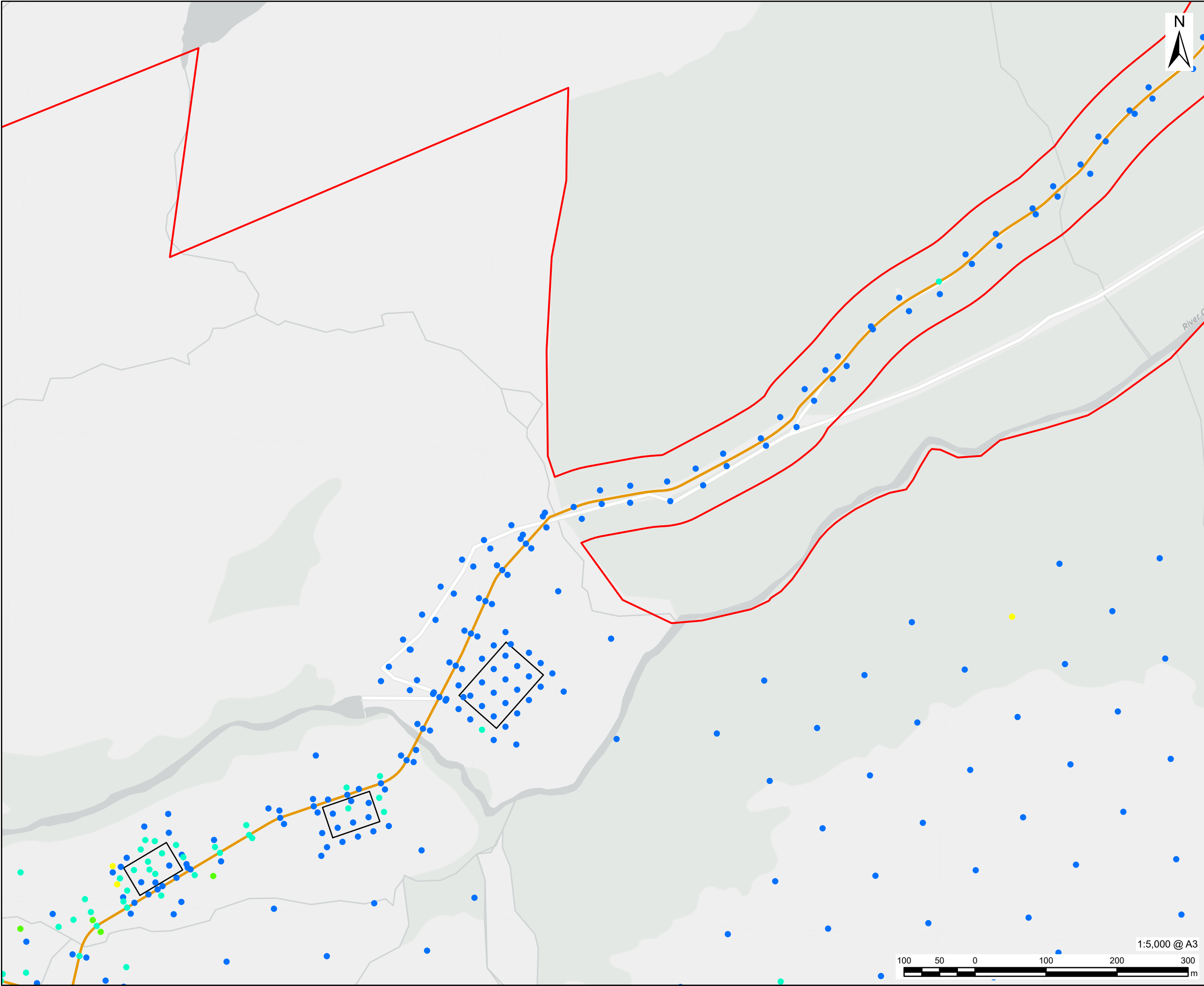
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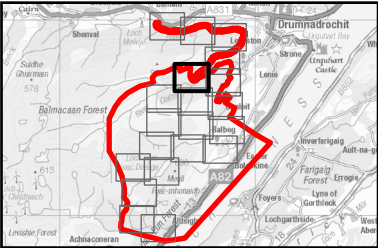
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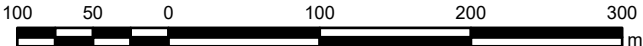
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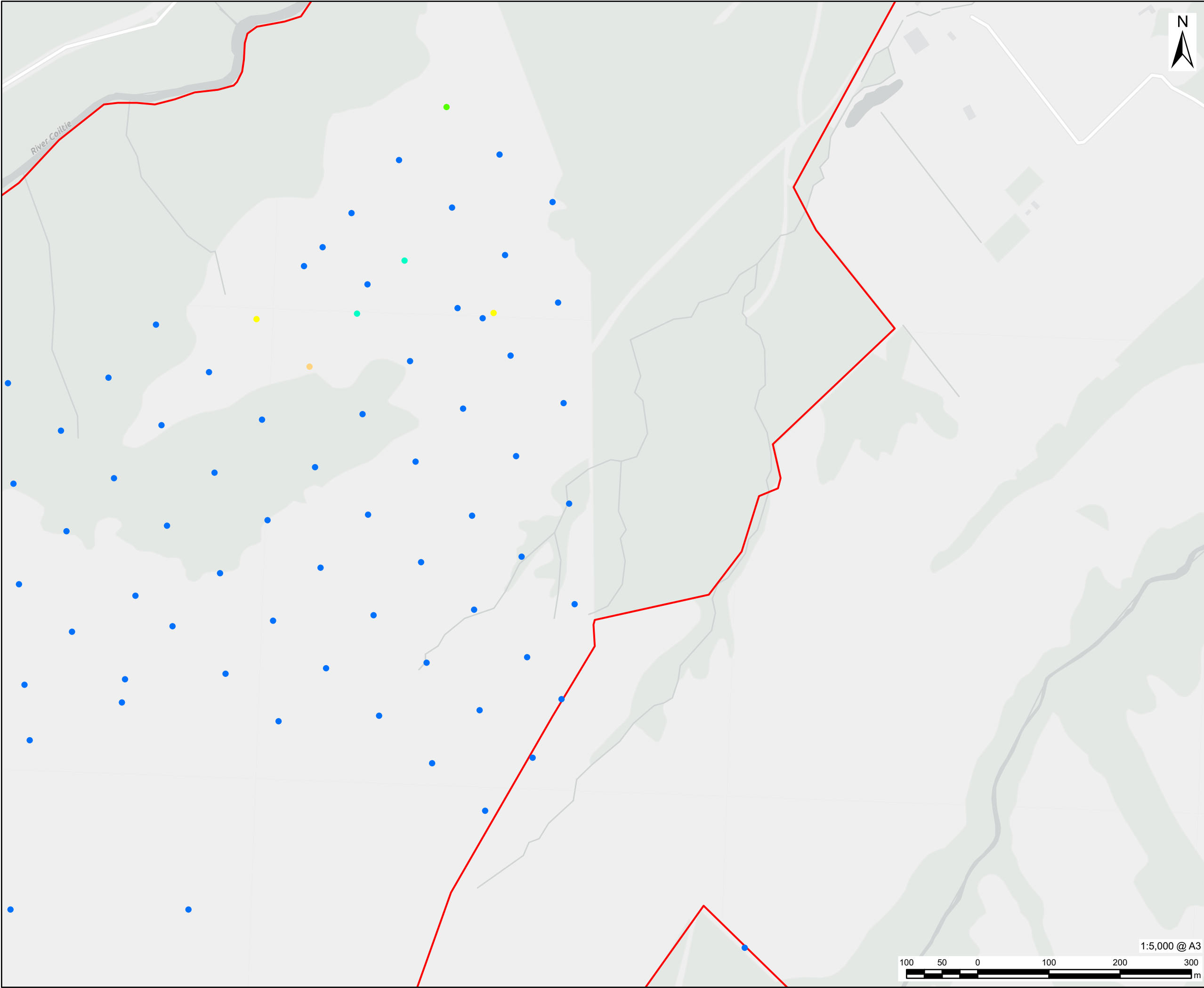
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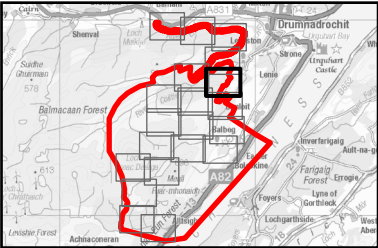
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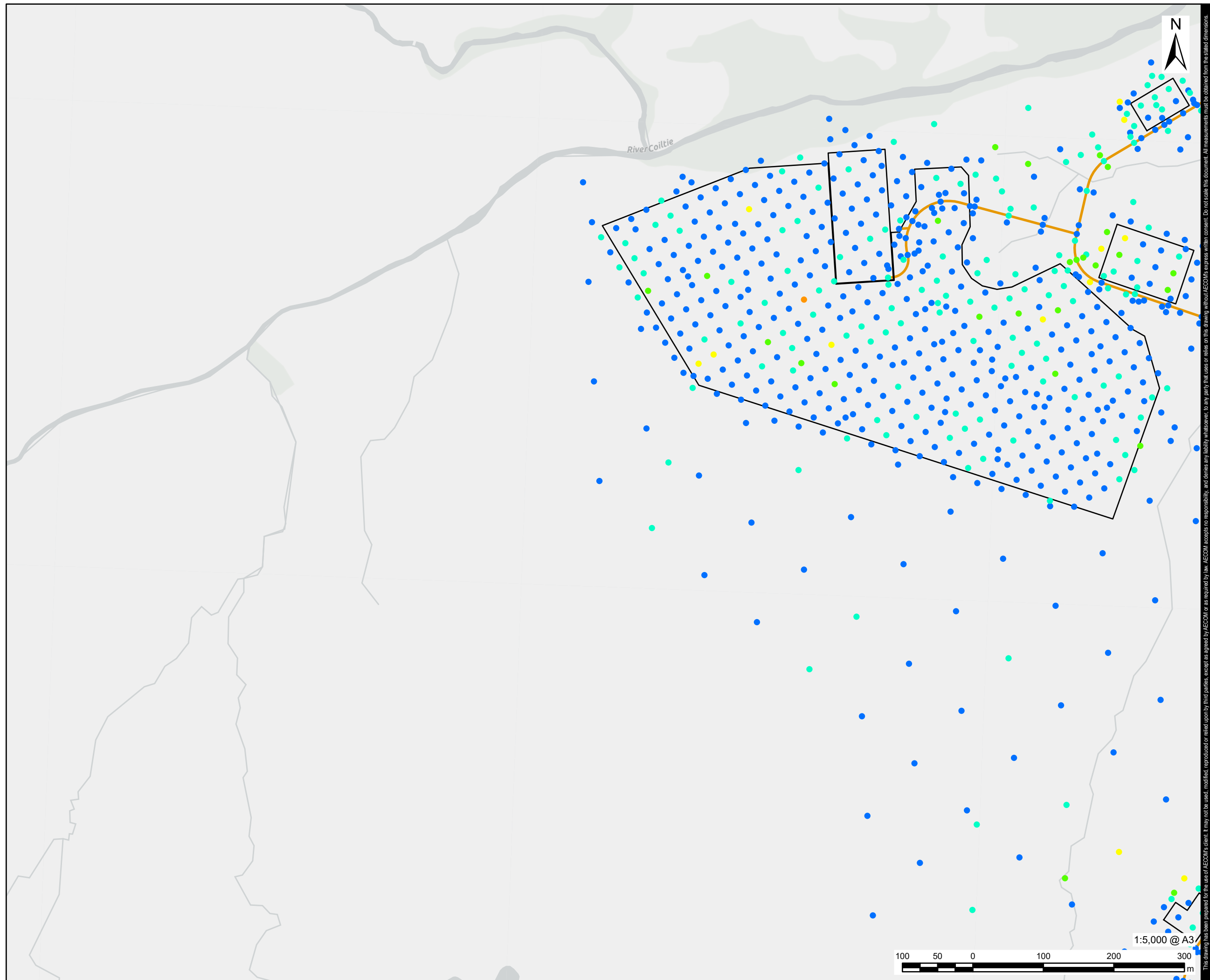
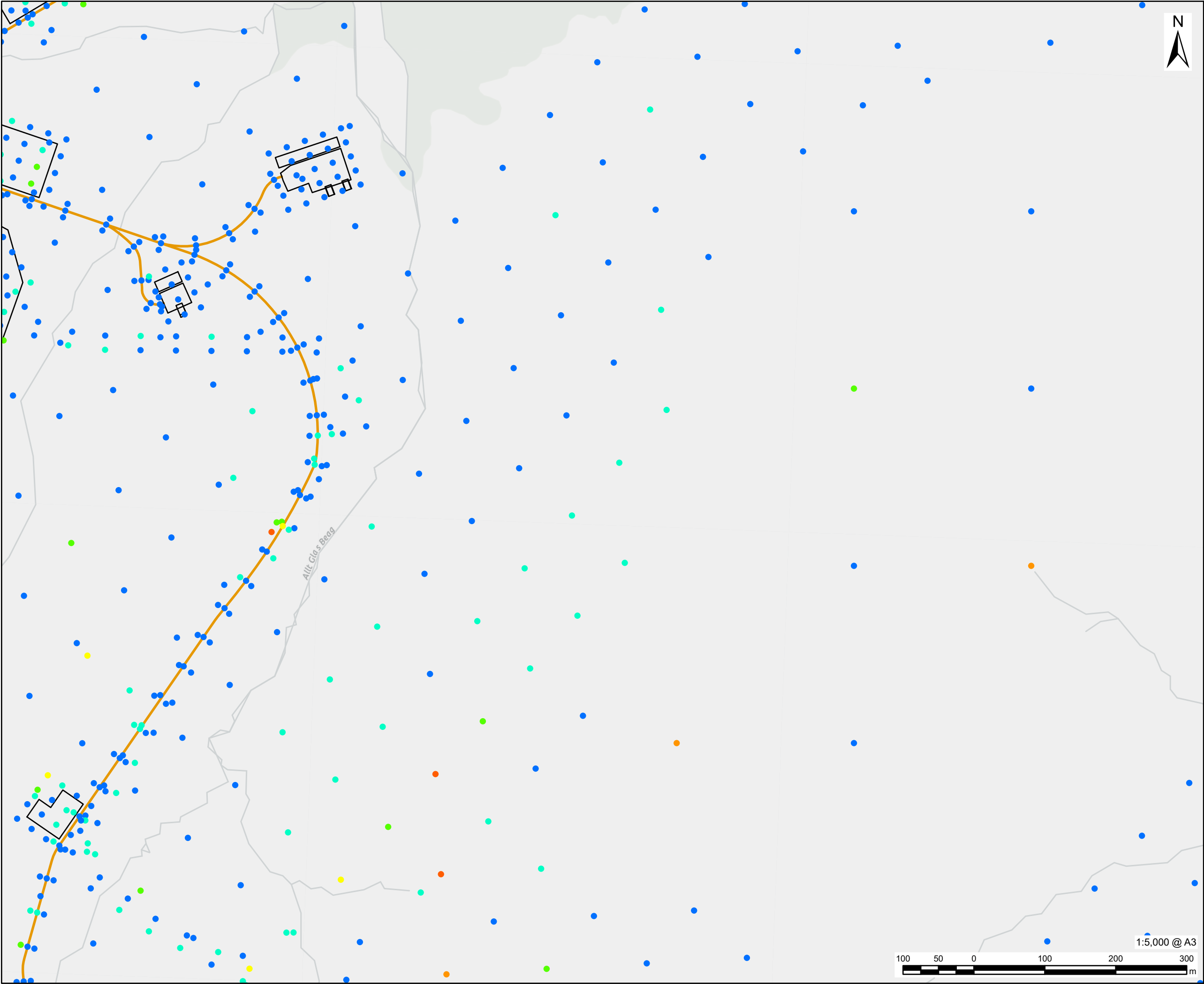


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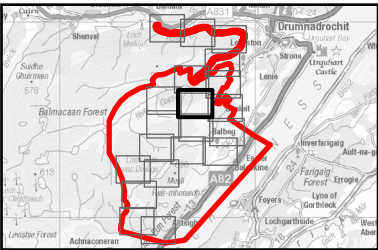
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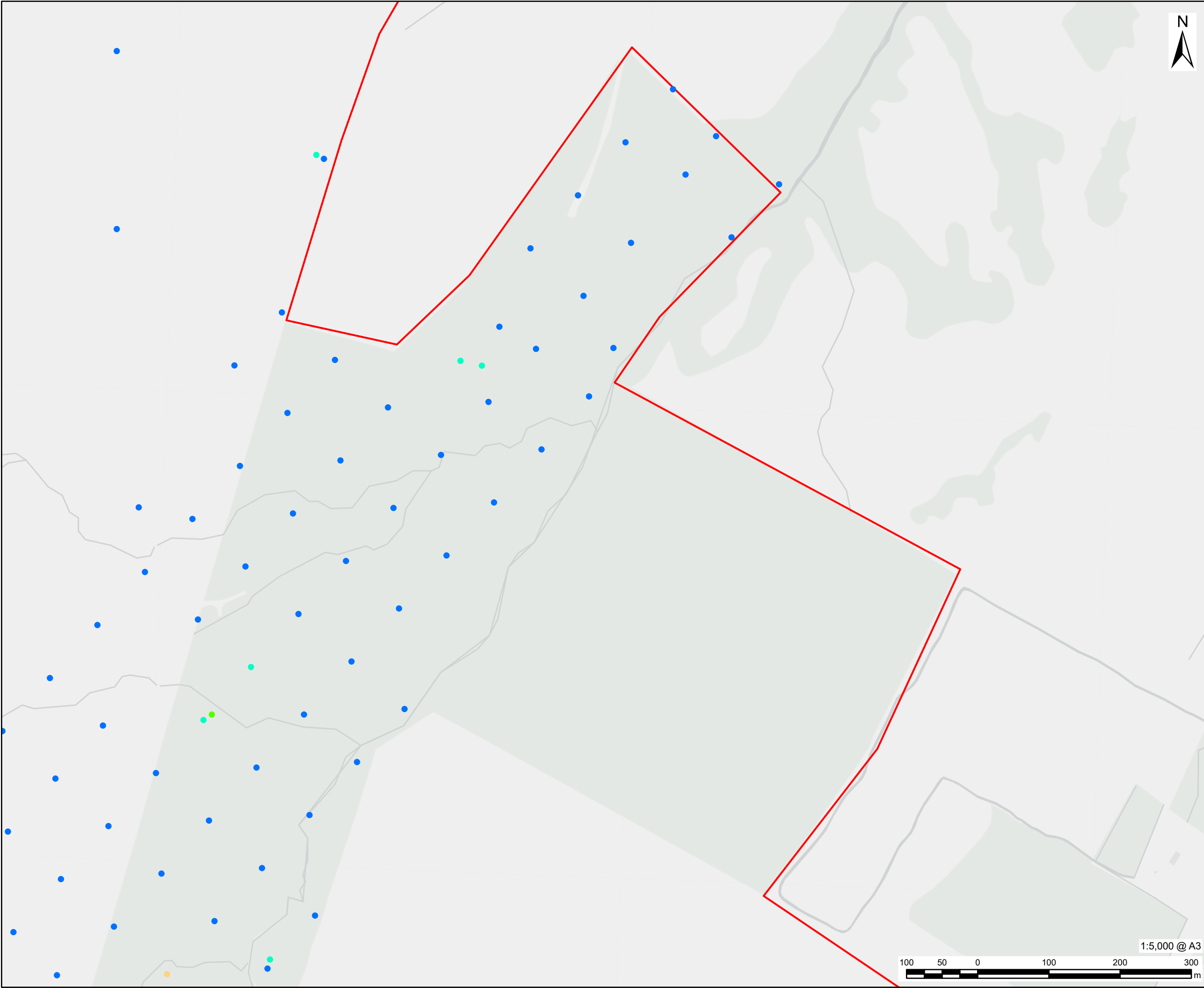
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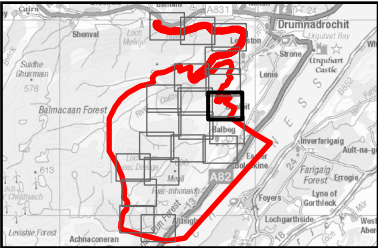
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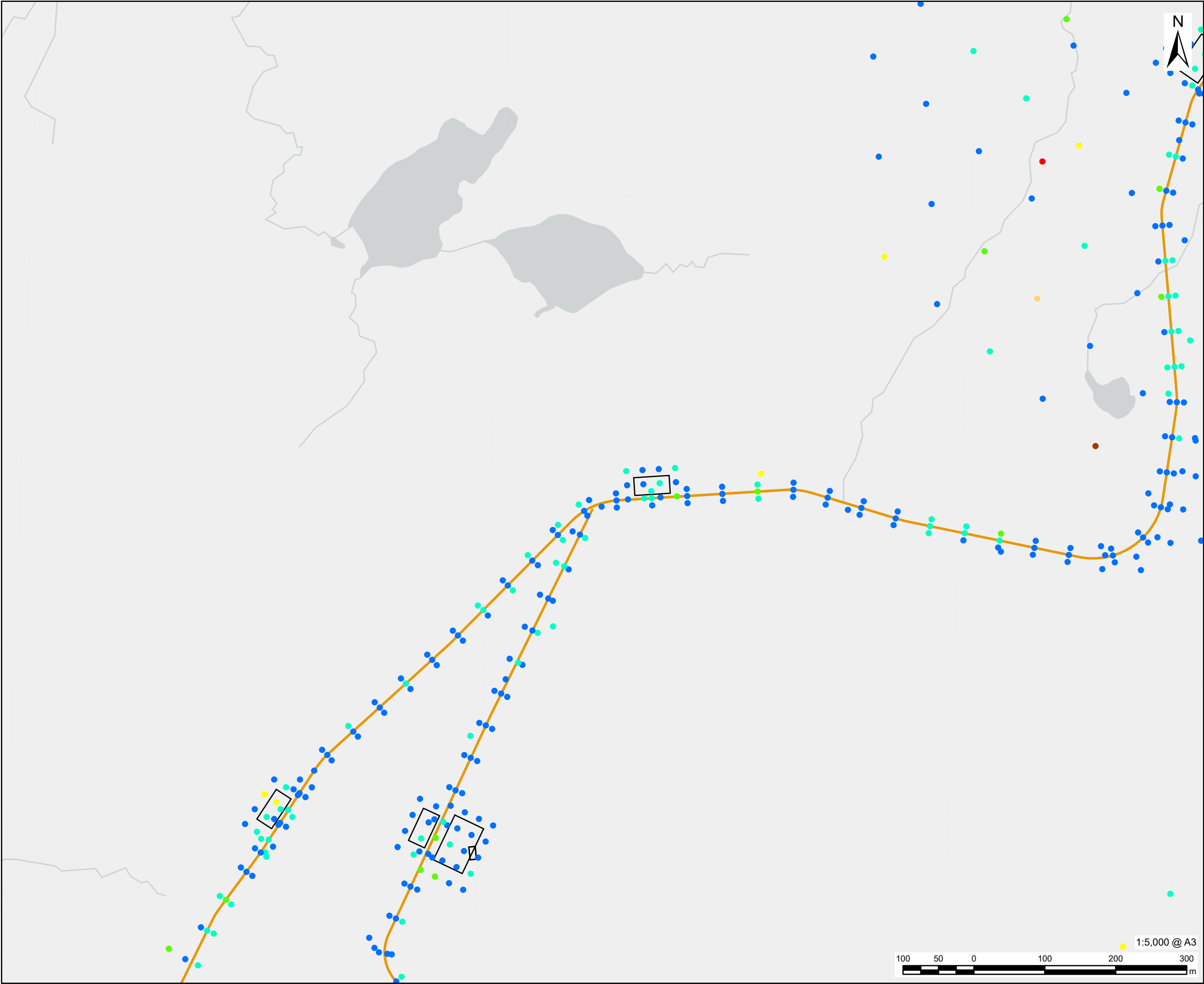
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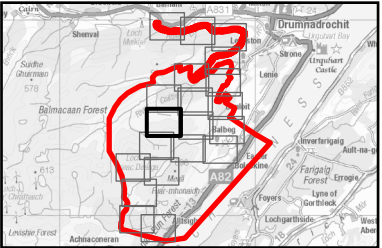
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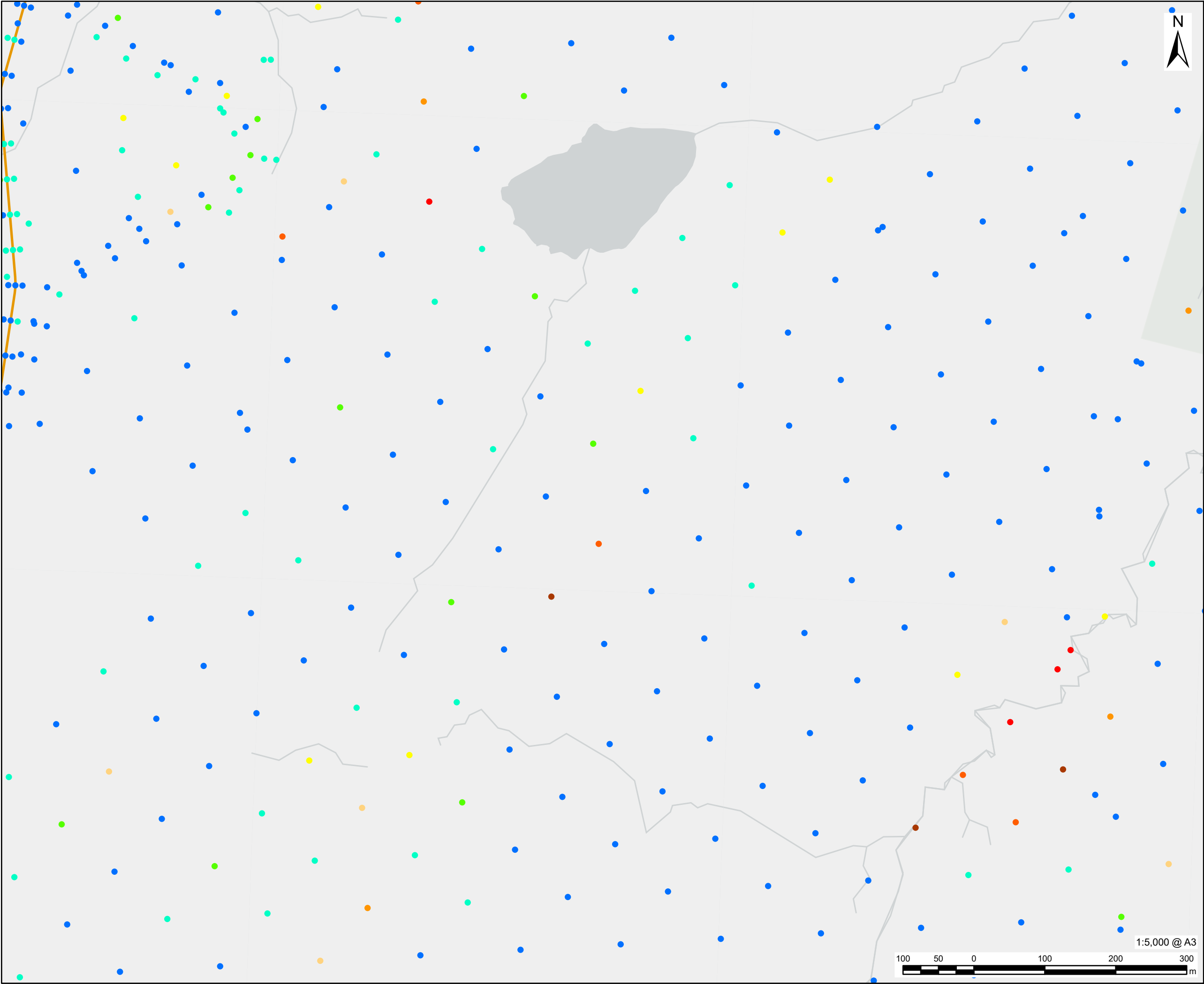
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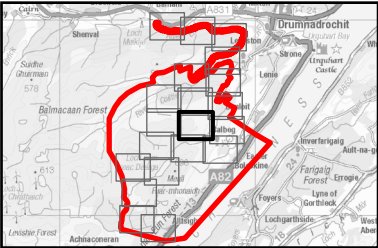
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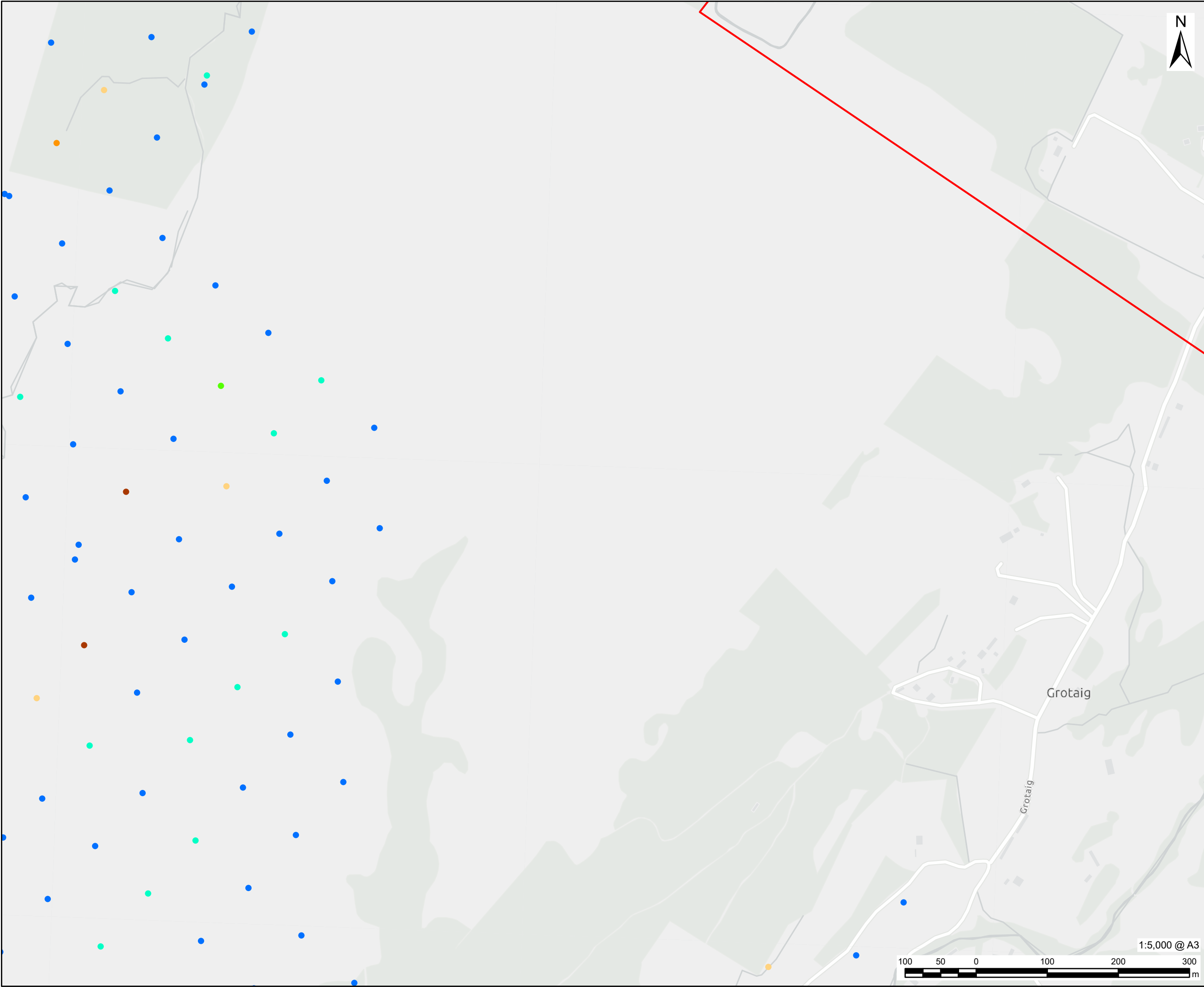
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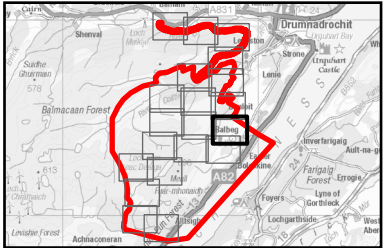
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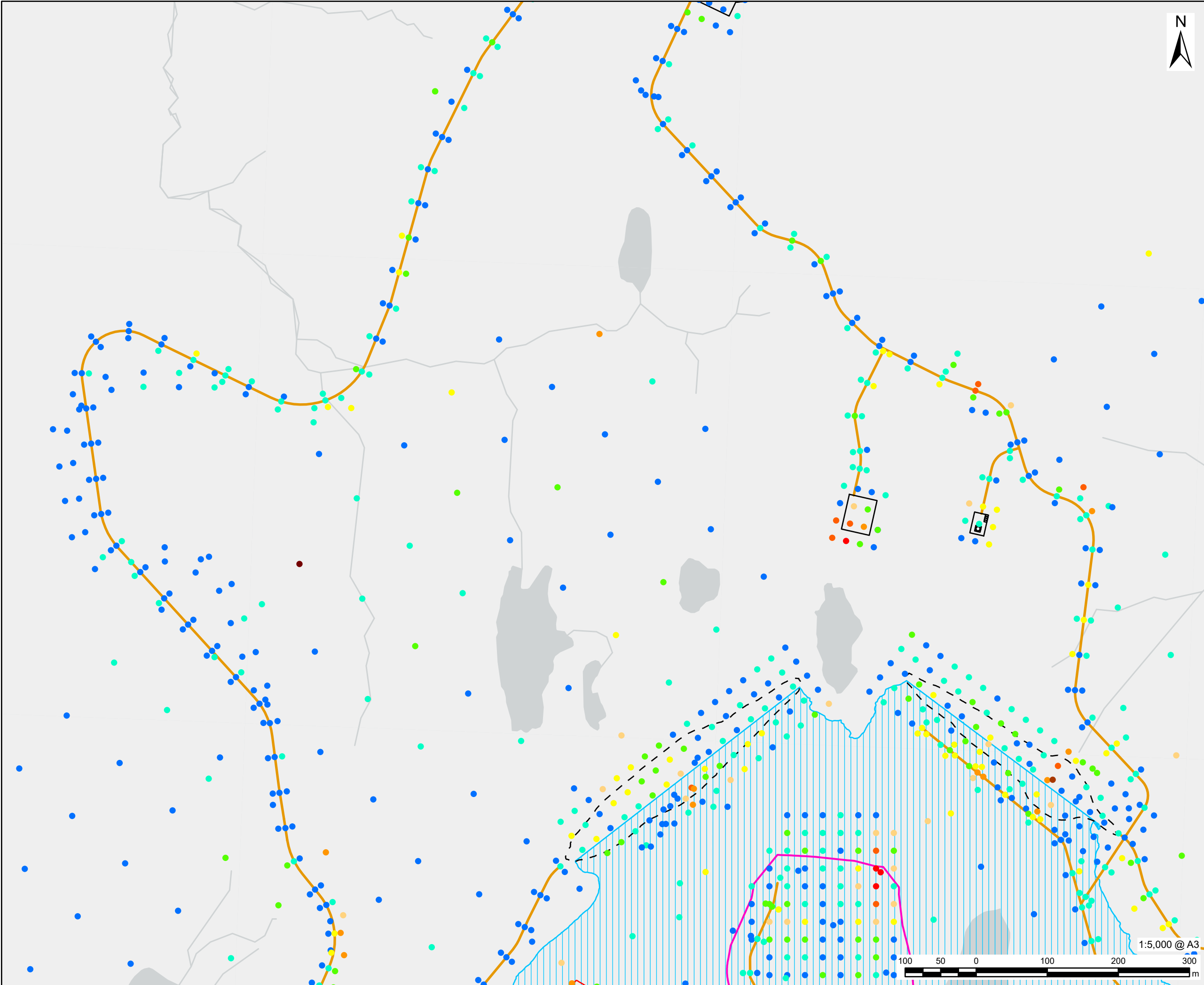
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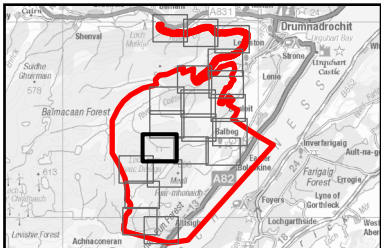
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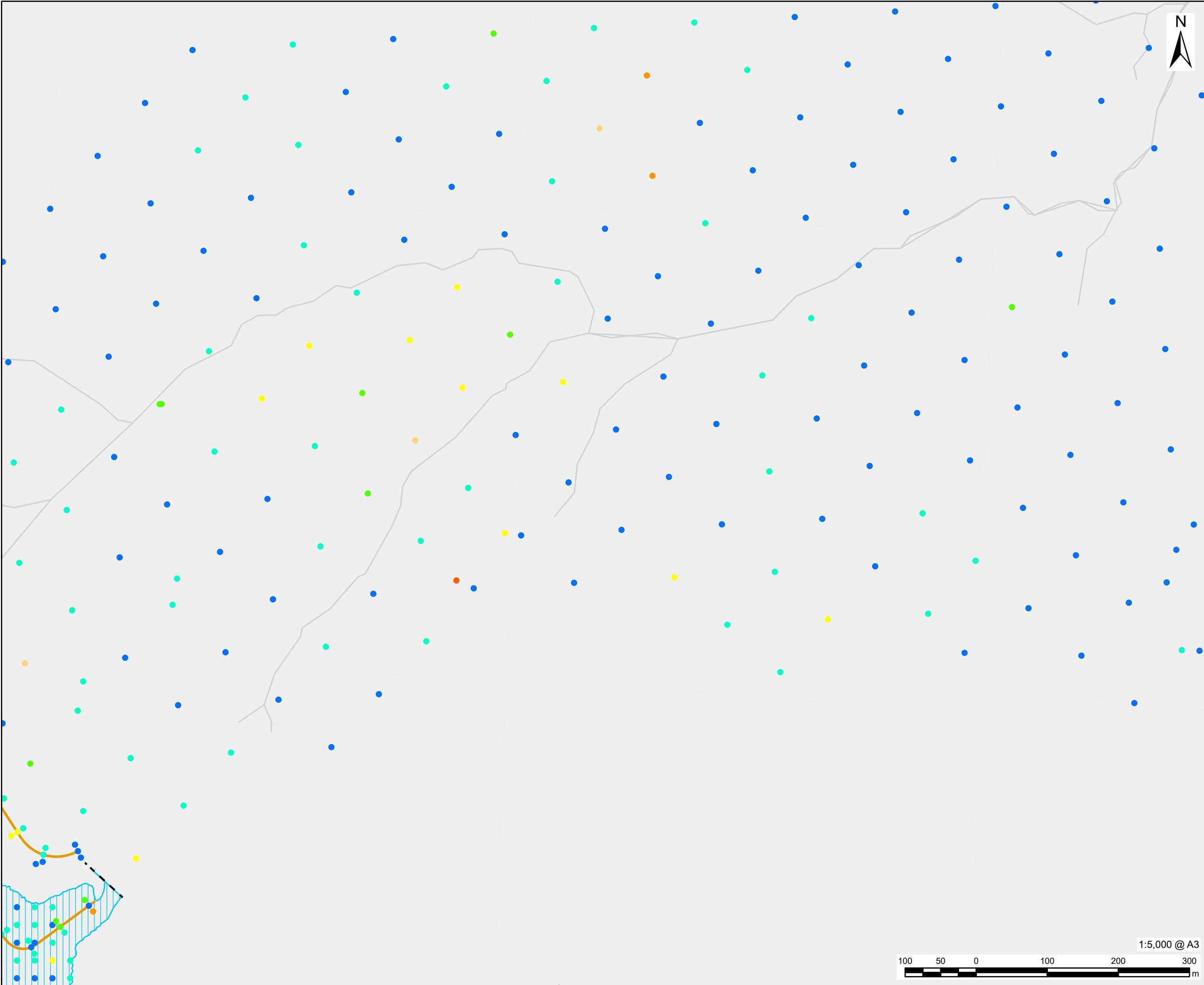
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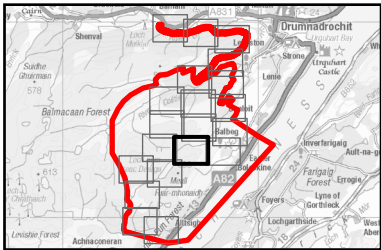
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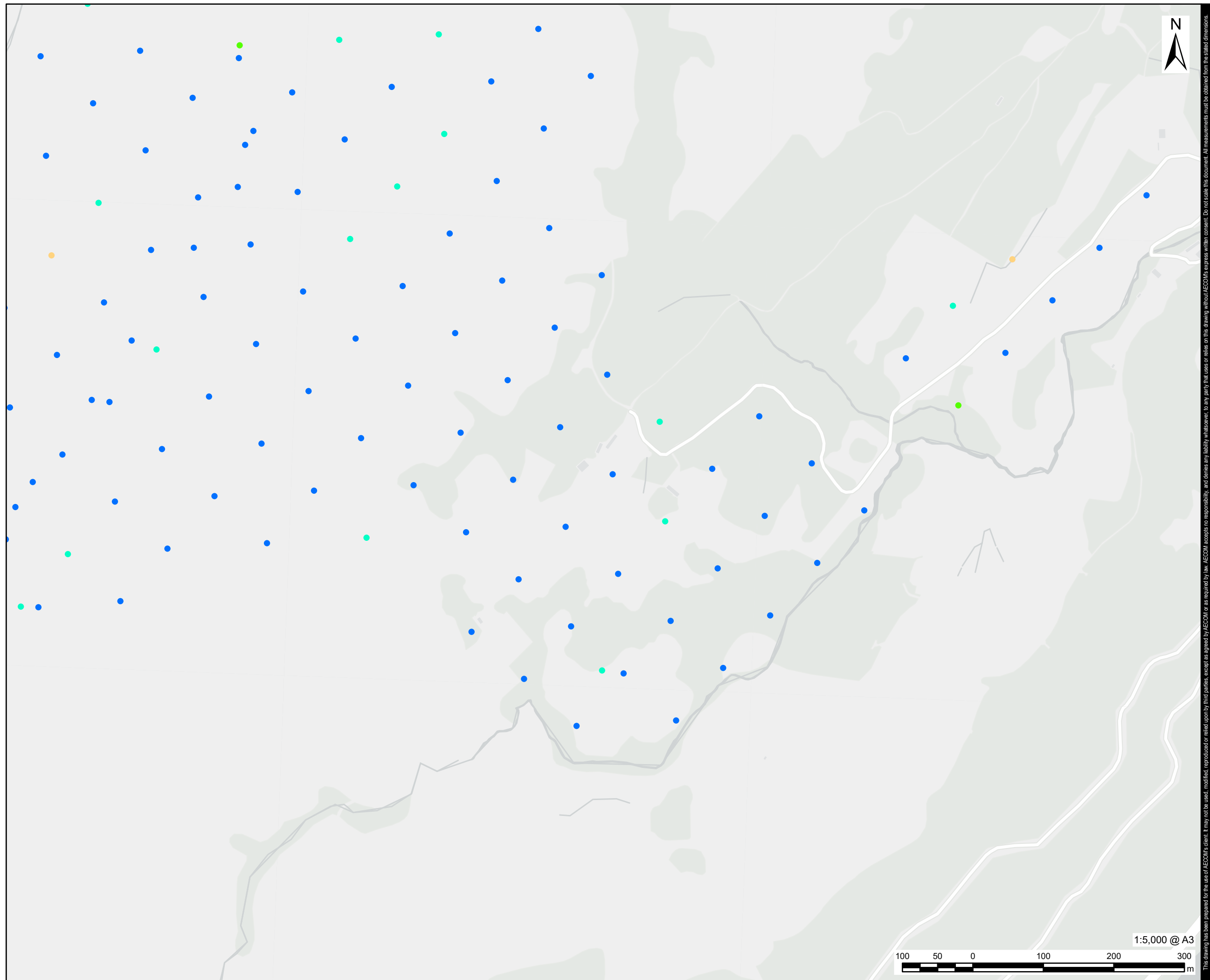
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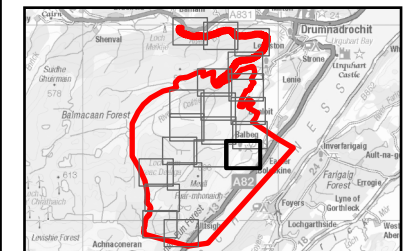
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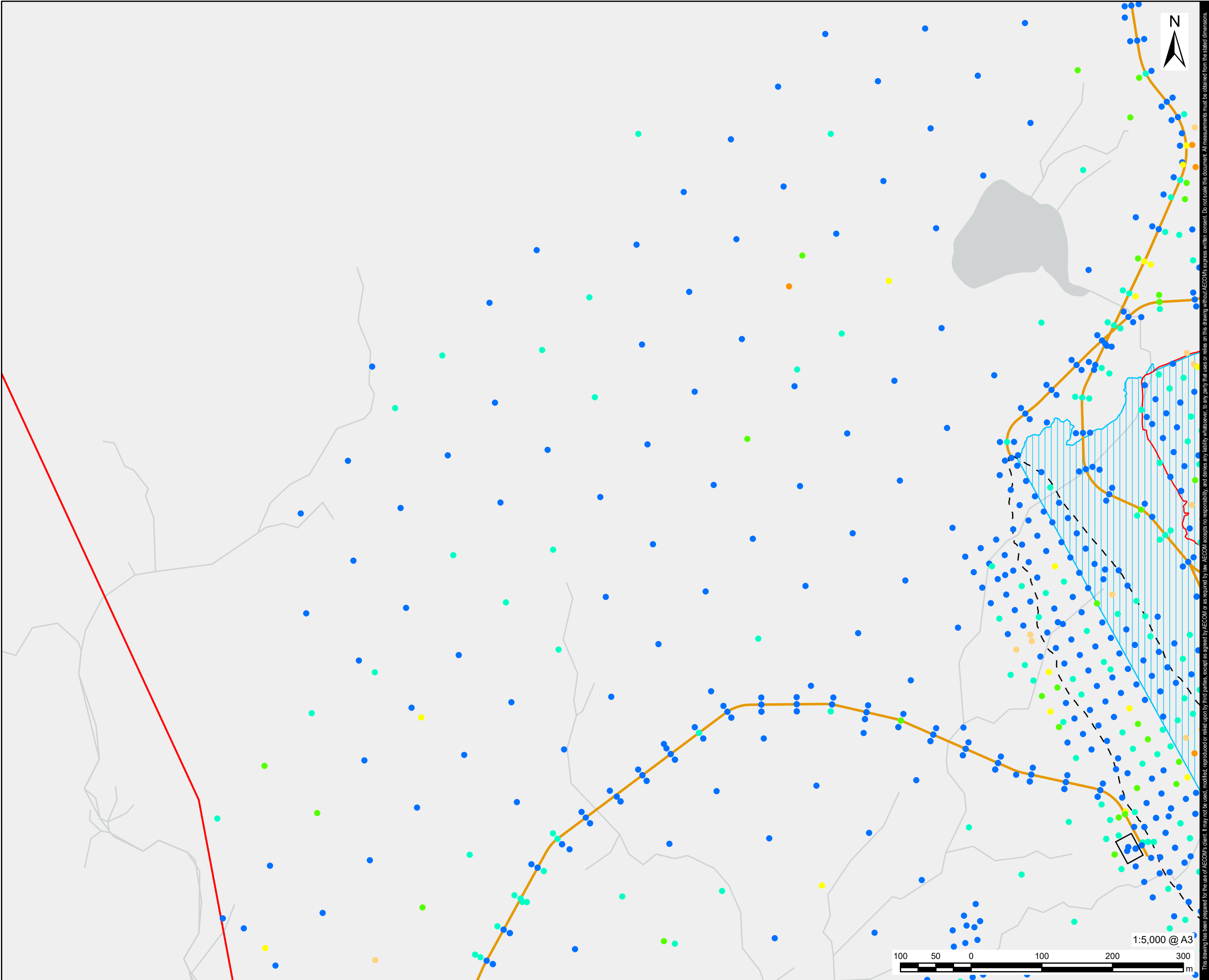
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Figure 15.3.8

Page 15 of 20



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PROJECT
Glen Earrach Pumped Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

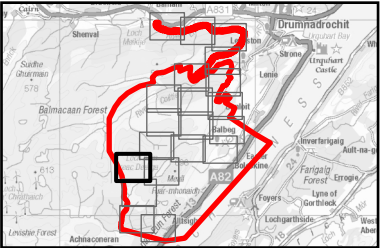
CONSULTANT
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Edinburgh
EH3 5DA
www.aecom.com

LEGEND

- Site Boundary
- Upper Control Works Outline
- Compounds
- Access Tracks
- Borrow Pit
- Embankment & Spillway
- Headpond

Peat Probe Location & Depth (m)

- 0.00 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01+



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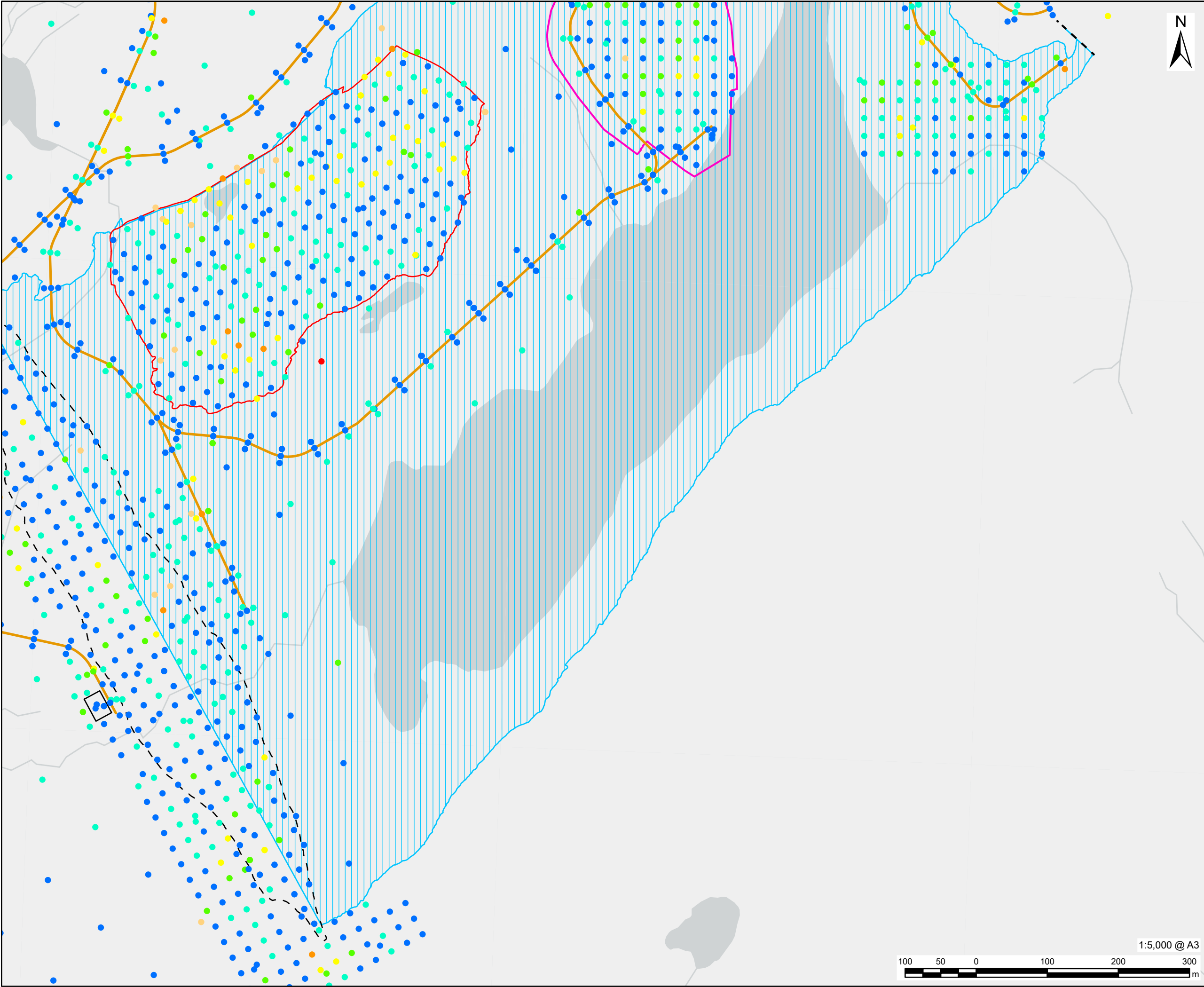
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ISSUE PURPOSE
DRAFT

PROJECT NUMBER
60719875

FIGURE TITLE
Peat Probe Survey Results

FIGURE NUMBER
Figure 15.3.8



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PROJECT

Glen Earrach Pumped
Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

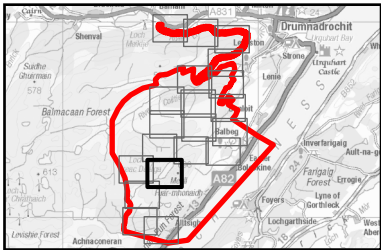
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LEGEND

- Site Boundary
- Upper Control Works Outline
- Compounds
- Access Tracks
- Borrow Pit
- Embankment & Spillway
- Headpond

Peat Probe Location & Depth (m)

- 0.00 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01+



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PROJECT NUMBER

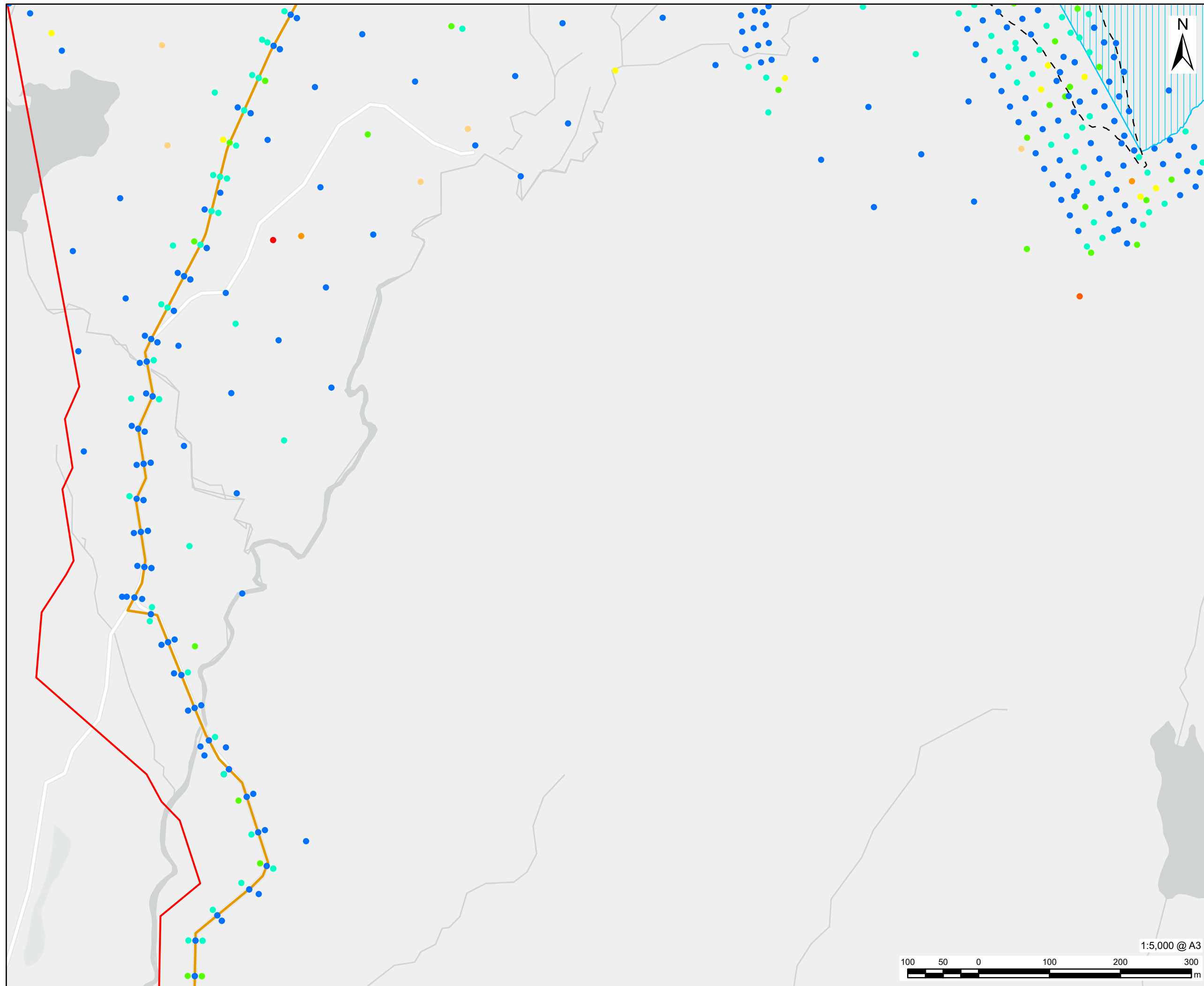
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FIGURE TITLE

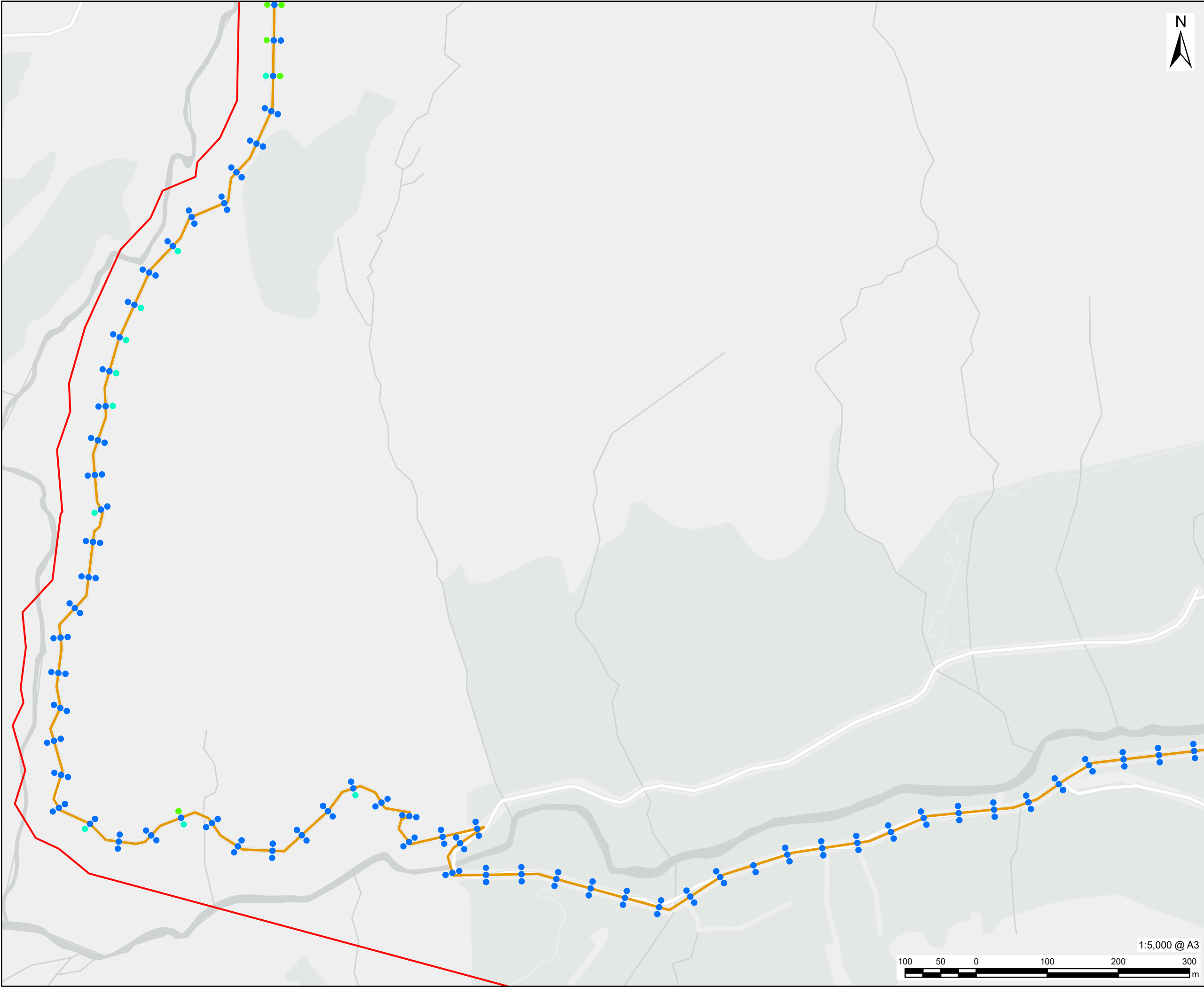
Peat Probe Survey Results

FIGURE NUMBER

Figure 15.3.8



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PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

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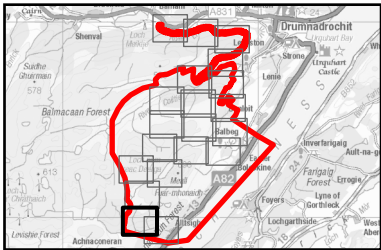
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LEGEND

- Site Boundary
- Upper Control Works Outline
- Compounds
- Access Tracks
- Borrow Pit
- Embankment & Spillway
- Headpond

Peat Probe Location & Depth (m)

- 0.00 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01+



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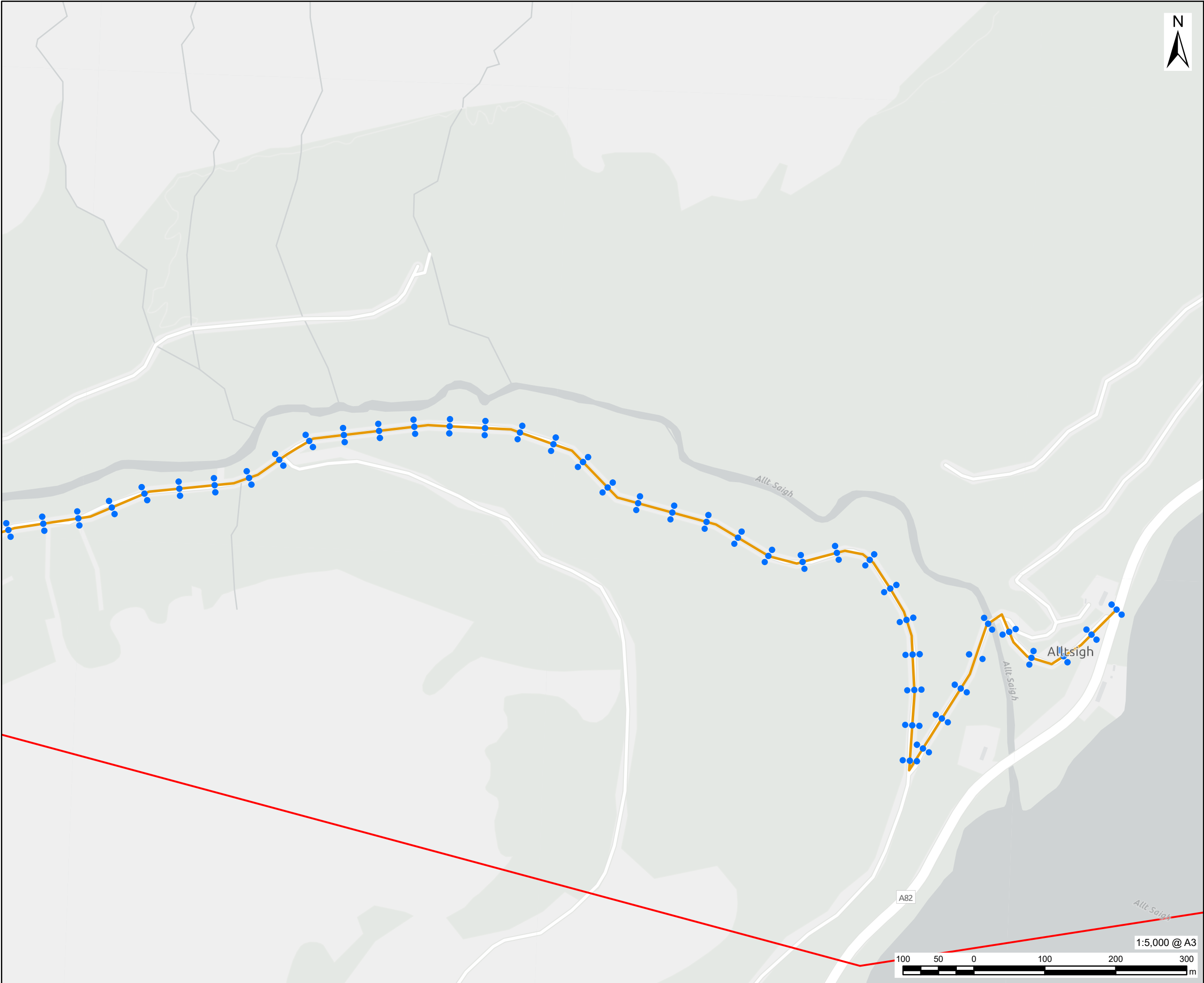
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FIGURE TITLE

Peat Probe Survey Results

FIGURE NUMBER

Figure 15.3.8



AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

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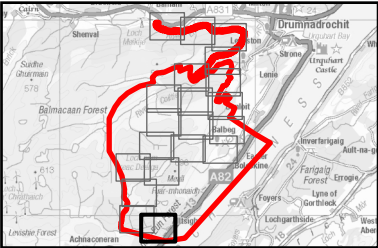
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LEGEND

- Site Boundary
- Upper Control Works Outline
- Compounds
- Access Tracks
- Borrow Pit
- Embankment & Spillway
- Headpond

Peat Probe Location & Depth (m)

- 0.00 - 0.50
- 0.51 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 2.50
- 2.51 - 3.00
- 3.01 - 3.50
- 3.51 - 4.00
- 4.01 - 4.50
- 4.51 - 5.00
- 5.01+



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PROJECT NUMBER

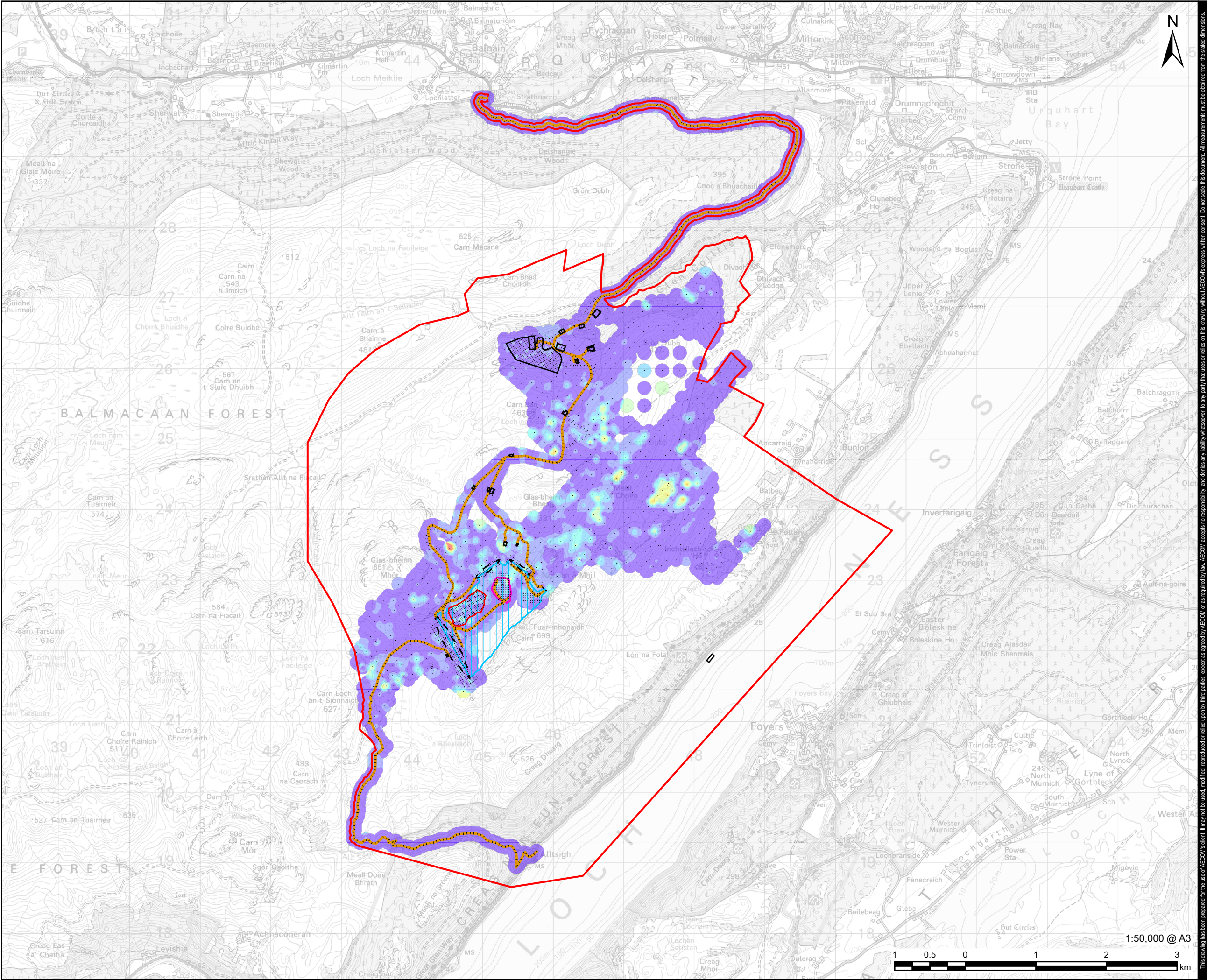
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FIGURE TITLE

Peat Probe Survey Results

FIGURE NUMBER

Figure 15.3.8



PROJECT
Glen Earrach Pumped
Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

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- LEGEND**
- Site Boundary
 - Peat Probe Location
 - Compounds
 - Access Tracks
 - Upper Control Works Outline
 - Borrow Pit
 - Embankment & Spillway
 - Headpond
 - Peat Depth Interpolation (m)
 - 0.00 - 0.50
 - 0.51 - 1.00
 - 1.01 - 1.50
 - 1.51 - 2.00
 - 2.01 - 3.00
 - 3.01 - 4.00
 - 4.01 - 5.00
 - 5.01 - 6.00
 - 6.01 +

NOTES

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The peat depths are based on an interpolated peat surface, based on individual peat probes taken across the site. The results are only indicative and should not be relied upon for detailed design or construction.
Peat Interpolation method used: Inverse Distance Weighting.

Total No. of Probes: 5,329

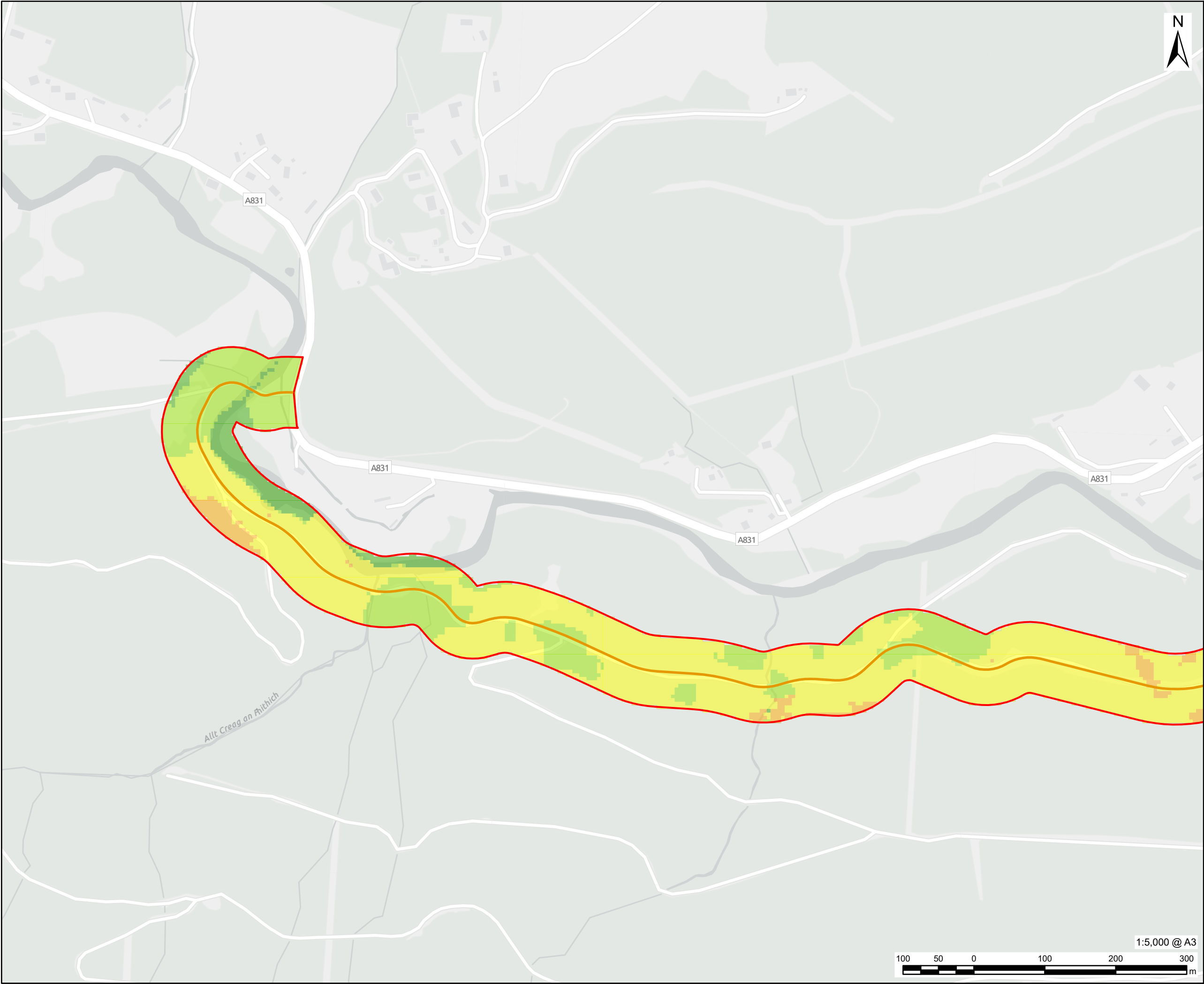
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PROJECT NUMBER
60719875

FIGURE TITLE
Peat Depth Interpolation Plan

FIGURE NUMBER
Figure 15.3.9



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LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
 - Probable

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ISSUE PURPOSE
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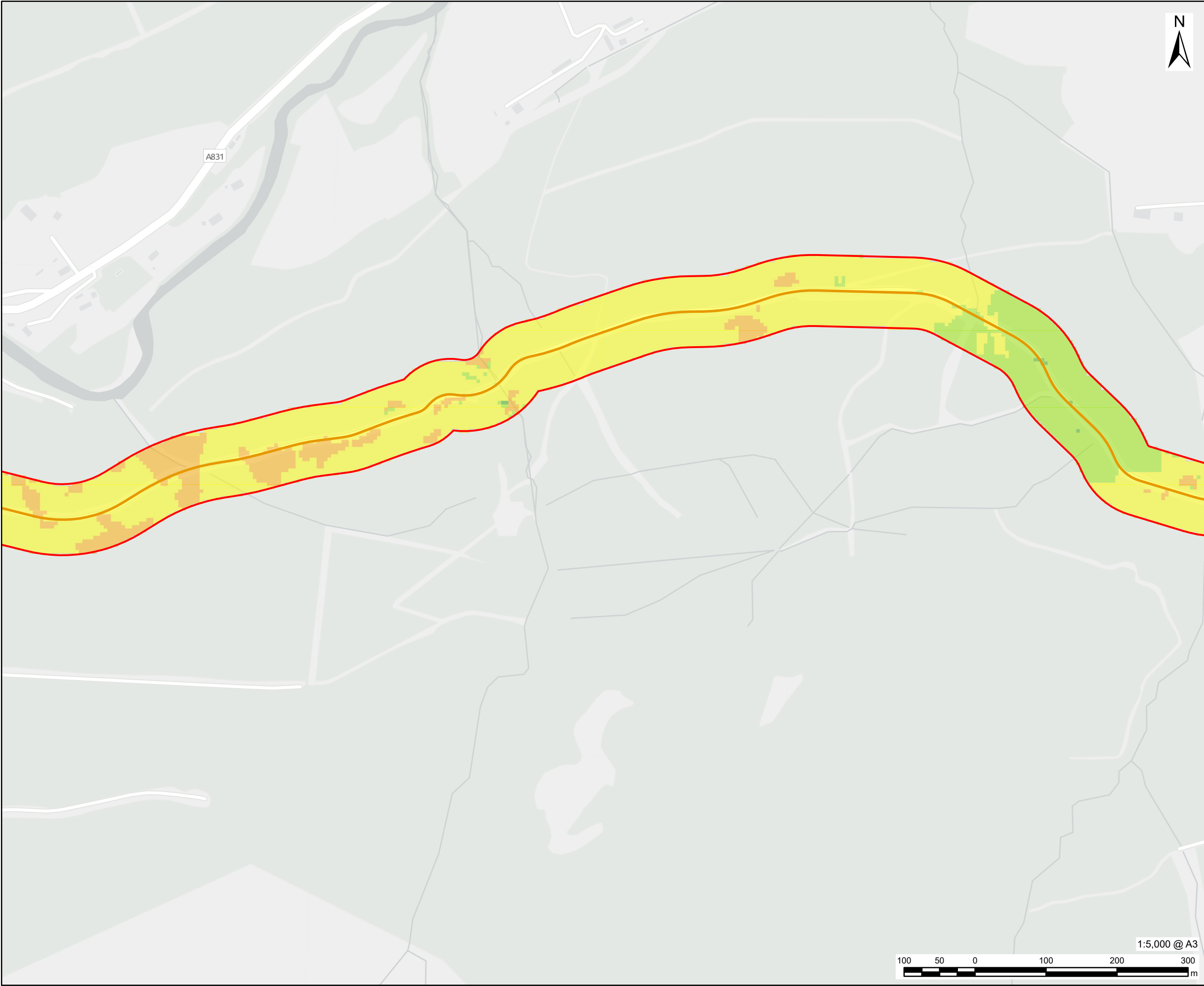
FIGURE TITLE
Peat Slide Assessed Hazard

FIGURE NUMBER
Figure 15.3.10

1:5,000 @ A3

100 50 0 100 200 300 m

Page 1 of 20



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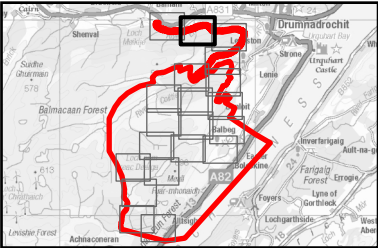
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LEGEND

- Site Boundary
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 - Likely
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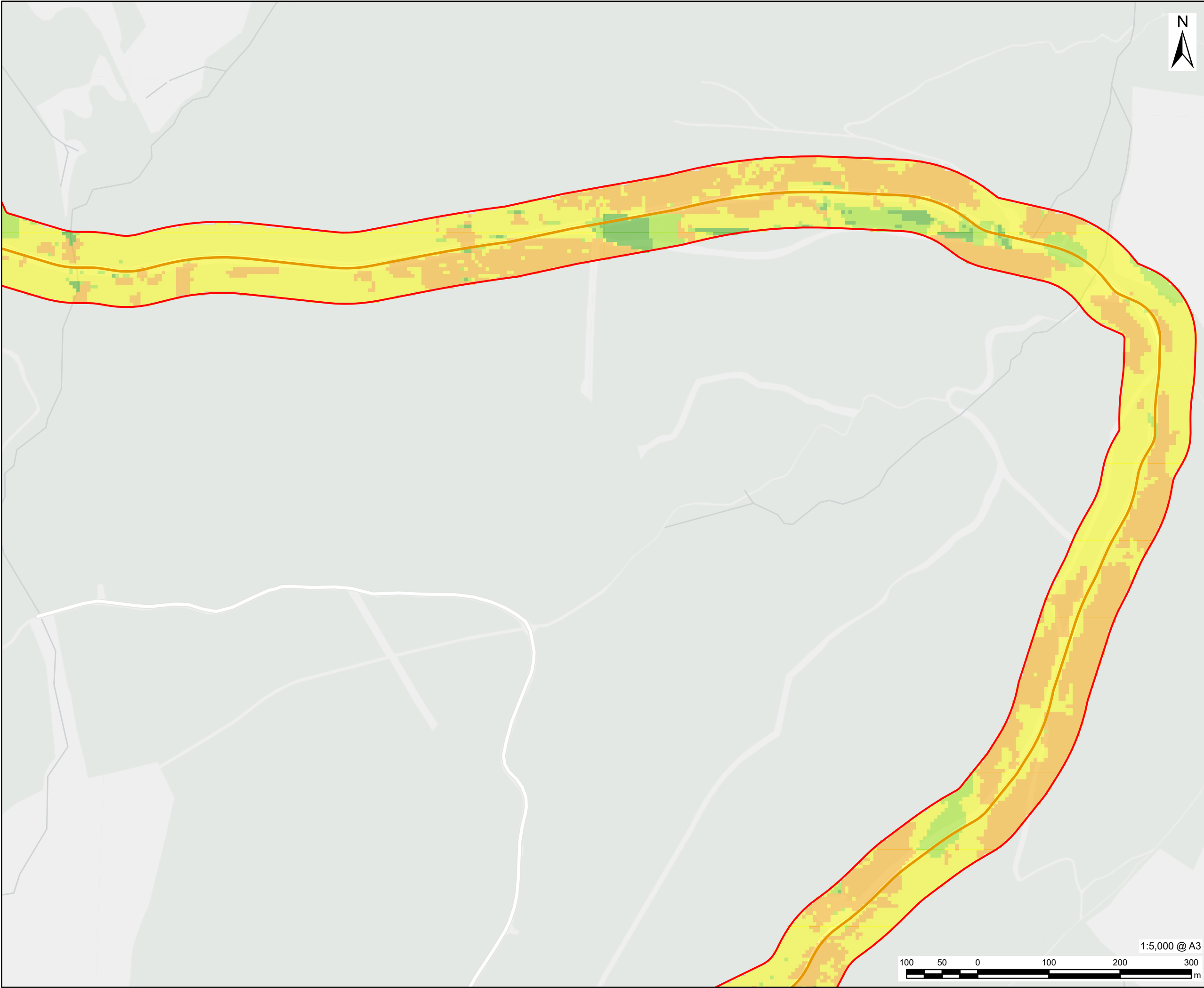
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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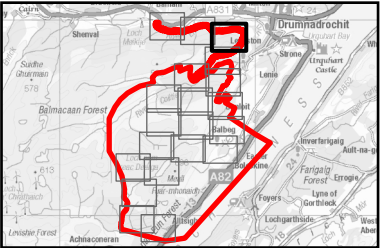
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LEGEND

- Site Boundary
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- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard**
 - Negligible
 - Unlikely
 - Likely
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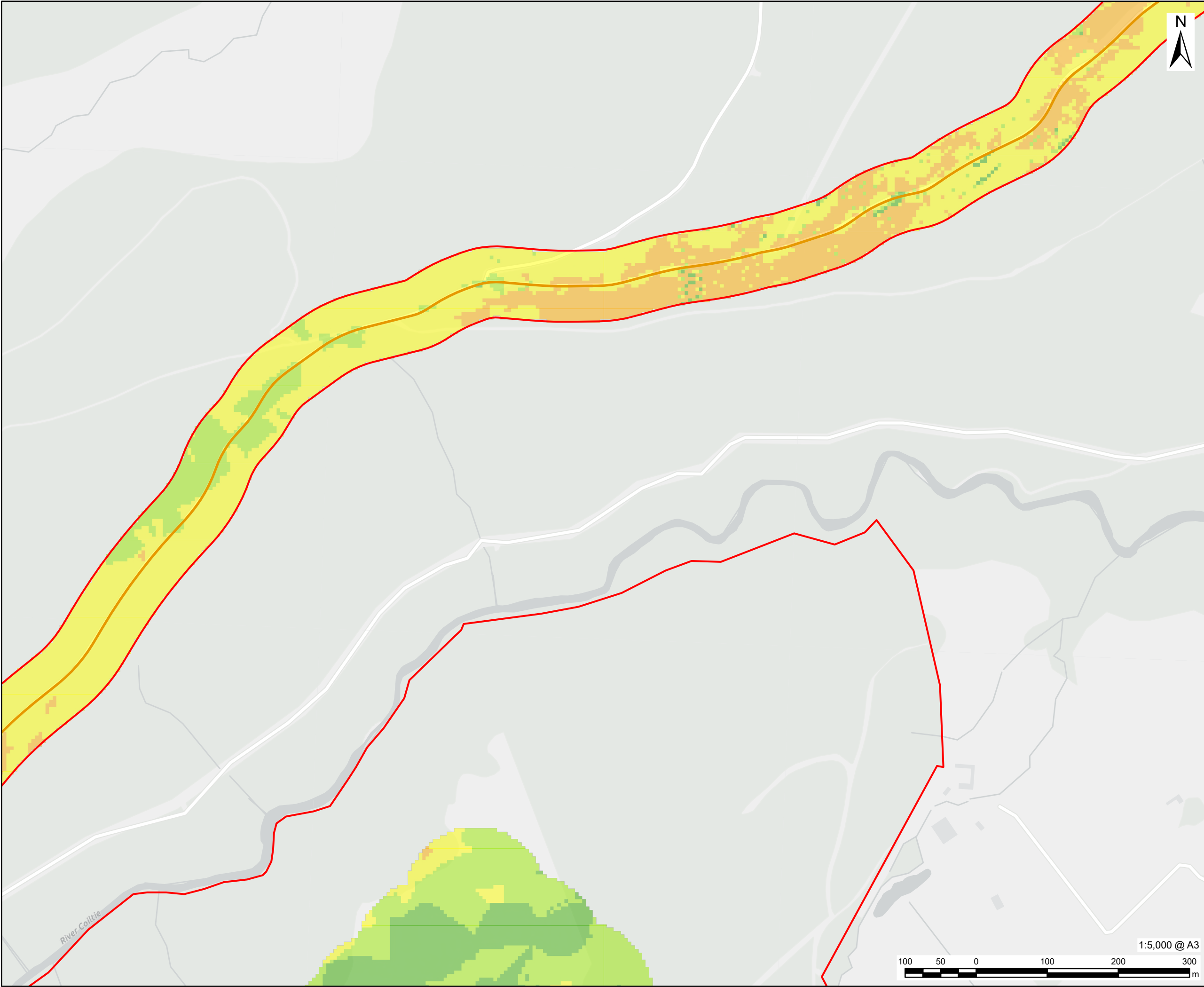
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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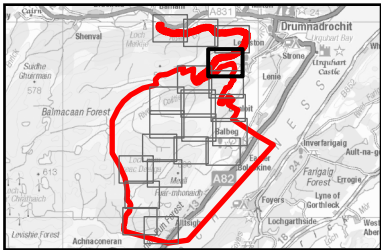
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LEGEND

- Site Boundary
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PROJECT NUMBER

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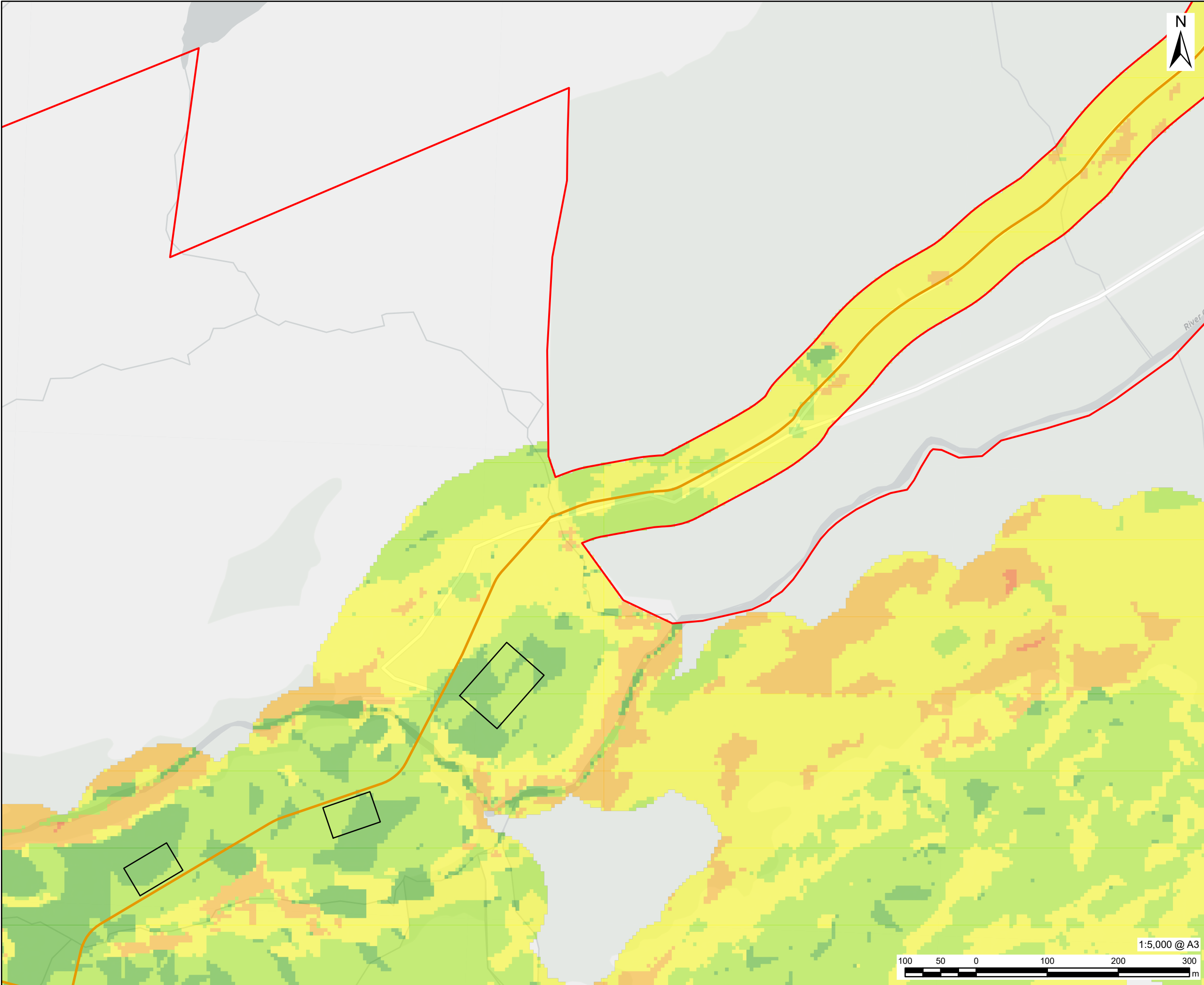
FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10

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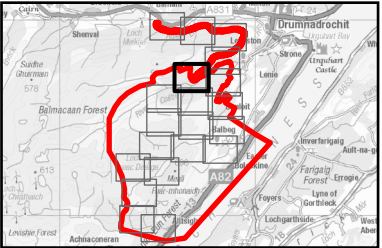
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CLIENT
Glen Earrach Energy Ltd.

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LEGEND

- Site Boundary
- Compounds
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- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
 - Probable
 - Almost certain



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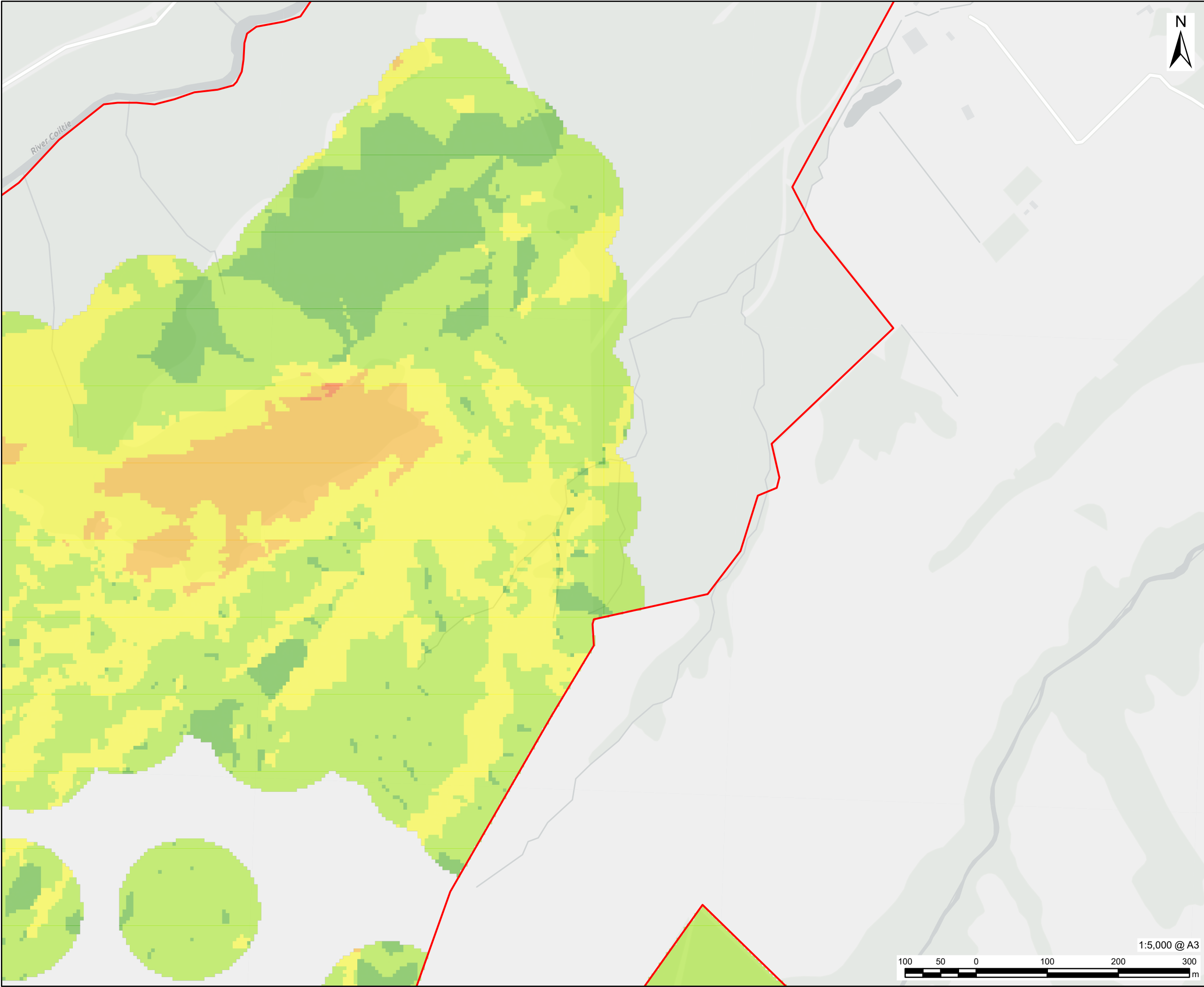
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ISSUE PURPOSE
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PROJECT NUMBER
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FIGURE TITLE
Peat Slide Assessed Hazard

FIGURE NUMBER
Figure 15.3.10



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Storage Hydro

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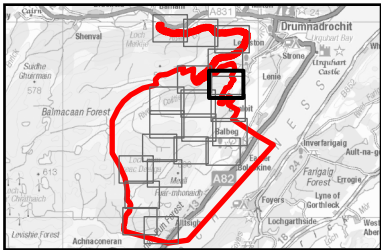
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LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
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- Embankment & Spillway
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- Peat Slide Assessed Hazard
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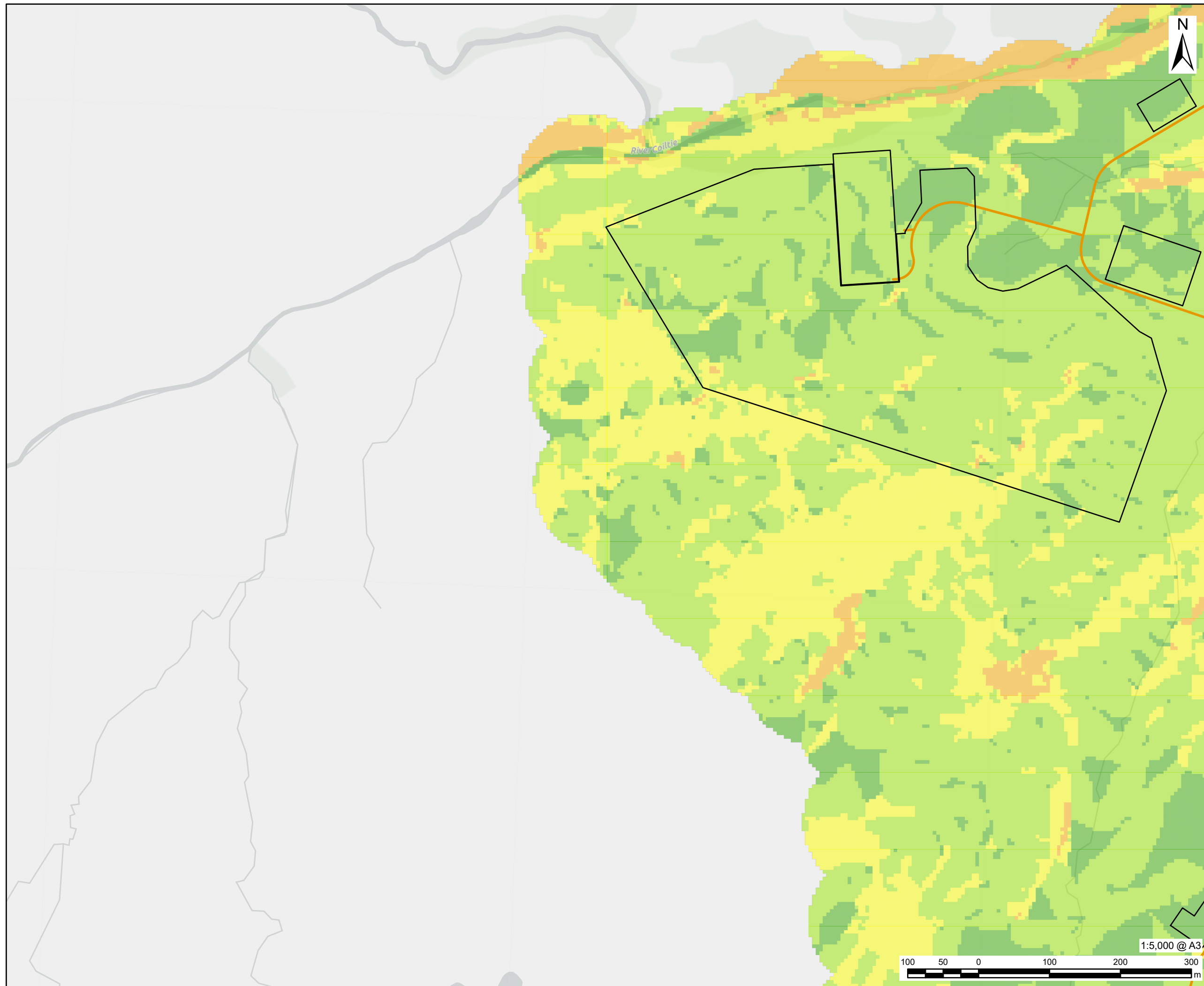
FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10

Page 6 of 20



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LEGEND

 Site Boundary

 Compounds

 Access Tracks

 Borrow Pit

 Upper Control Works Outline

 Embankment & Spillway

 Headpond

Peat Slide Assessed Hazard

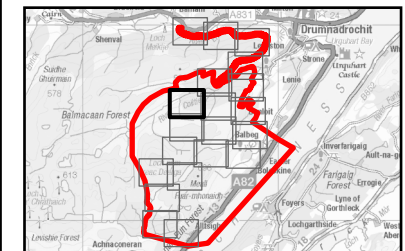
 Negligible

 Unlikely

 Likely

 Probable

 Almost certain



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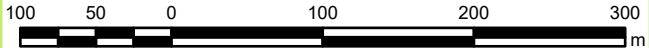
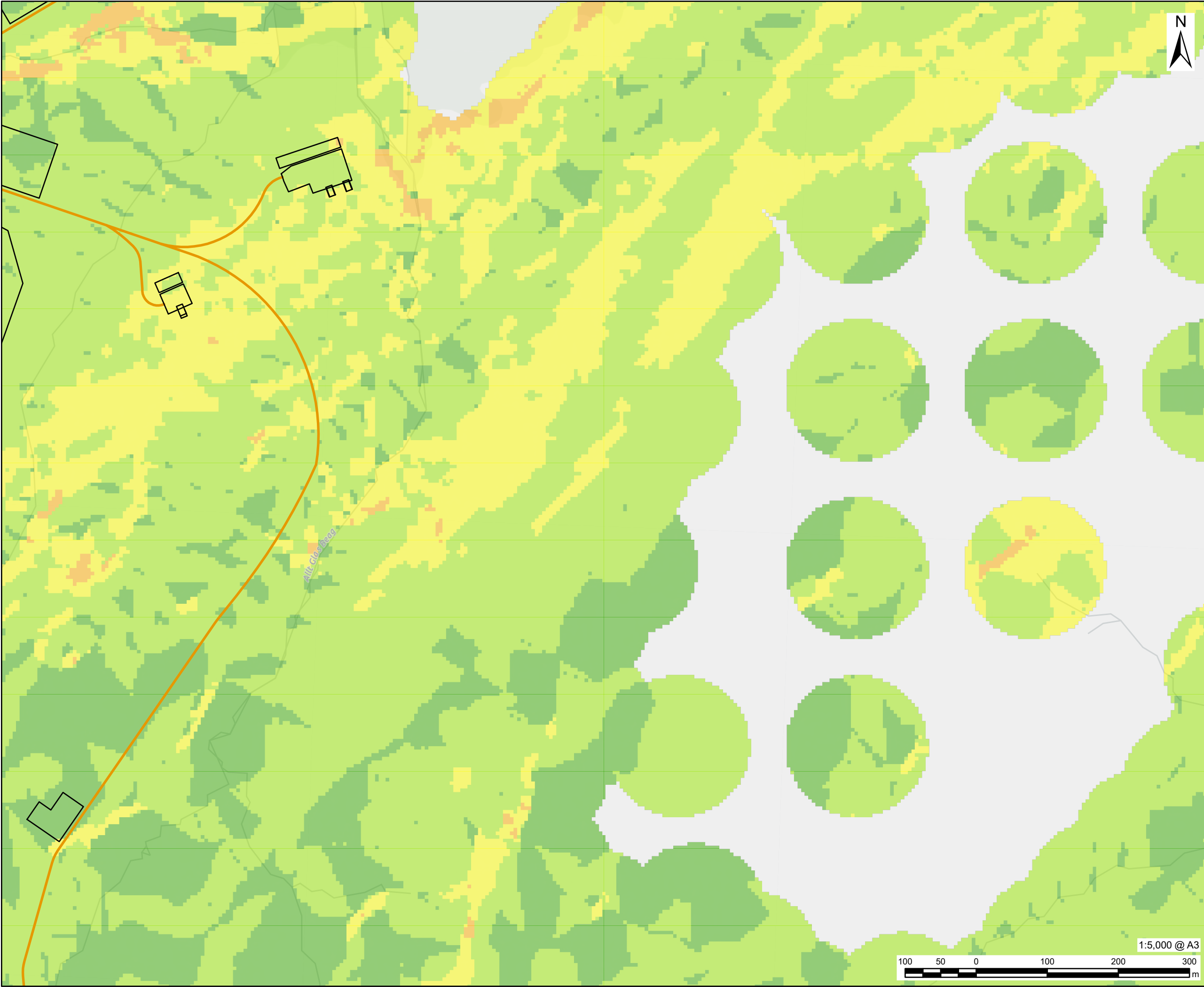
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FIGURE TITLE

FIGURE NUMBER

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PROJECT

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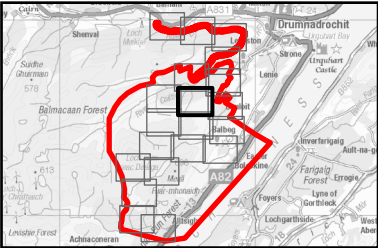
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LEGEND

- Site Boundary
- Compounds
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- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
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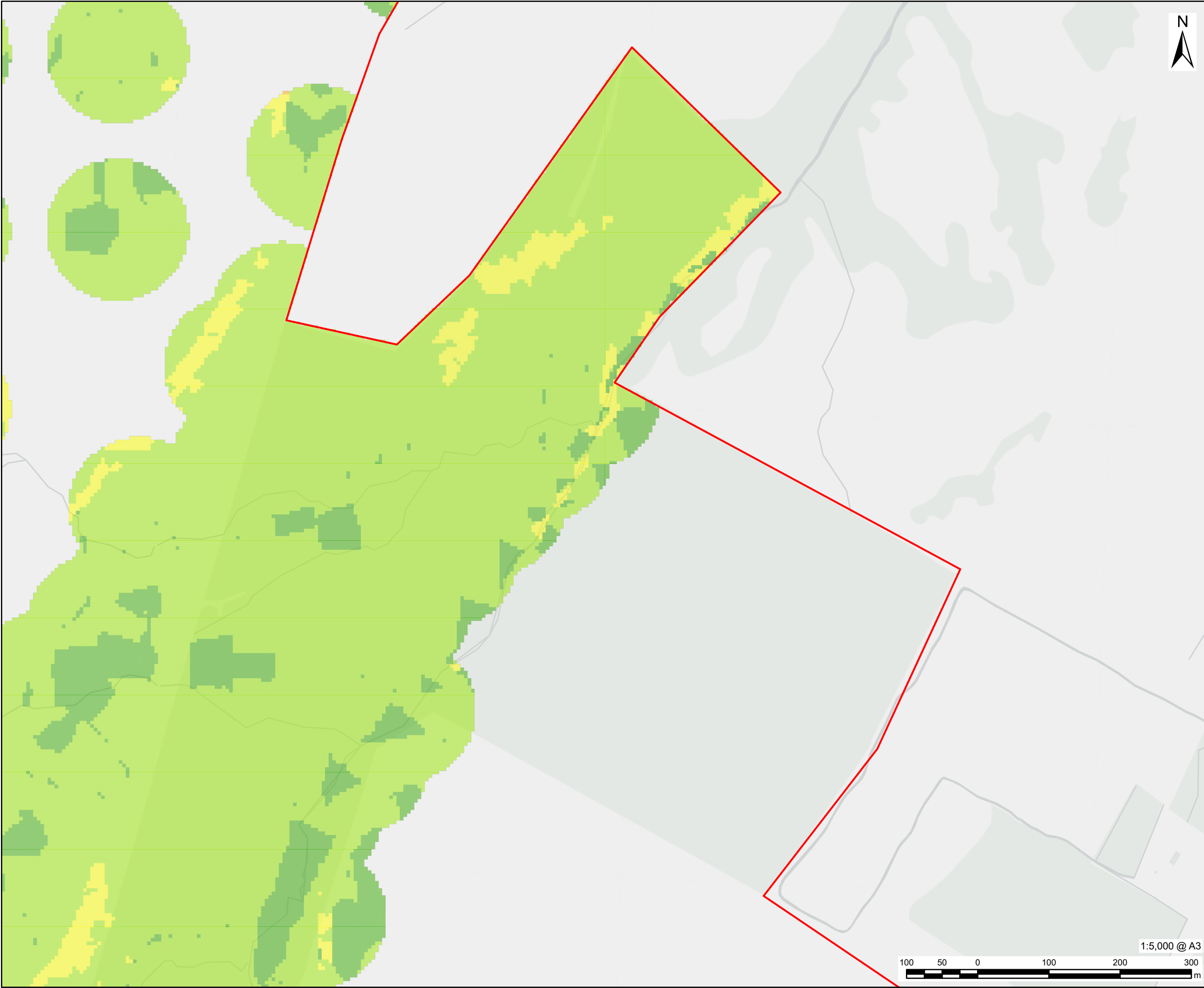
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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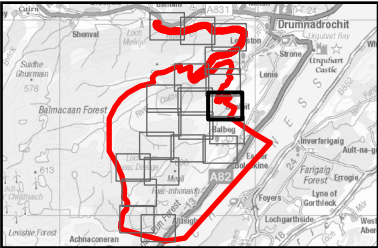
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LEGEND

- Site Boundary
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- Peat Slide Assessed Hazard**
 - Negligible
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ISSUE PURPOSE

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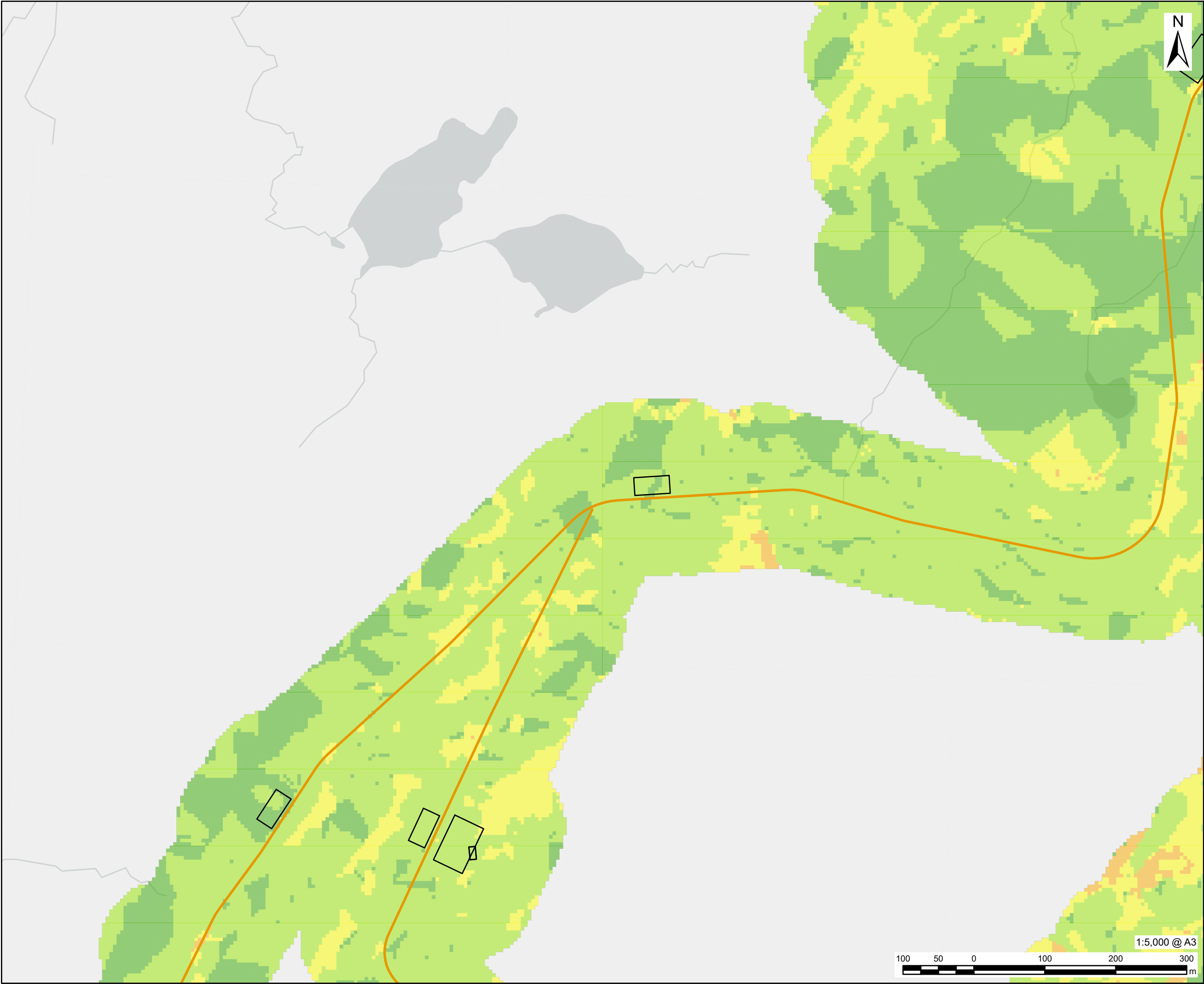
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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LEGEND

Site Boundary

Compounds

Access Tracks

Borrow Pit

Upper Control Works Outline

Embankment & Spillway

Headpond

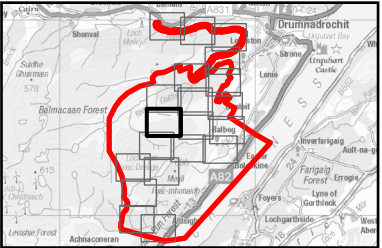
Peat Slide Assessed Hazard

Negligible

Unlikely

Likely

Probable



NOTES

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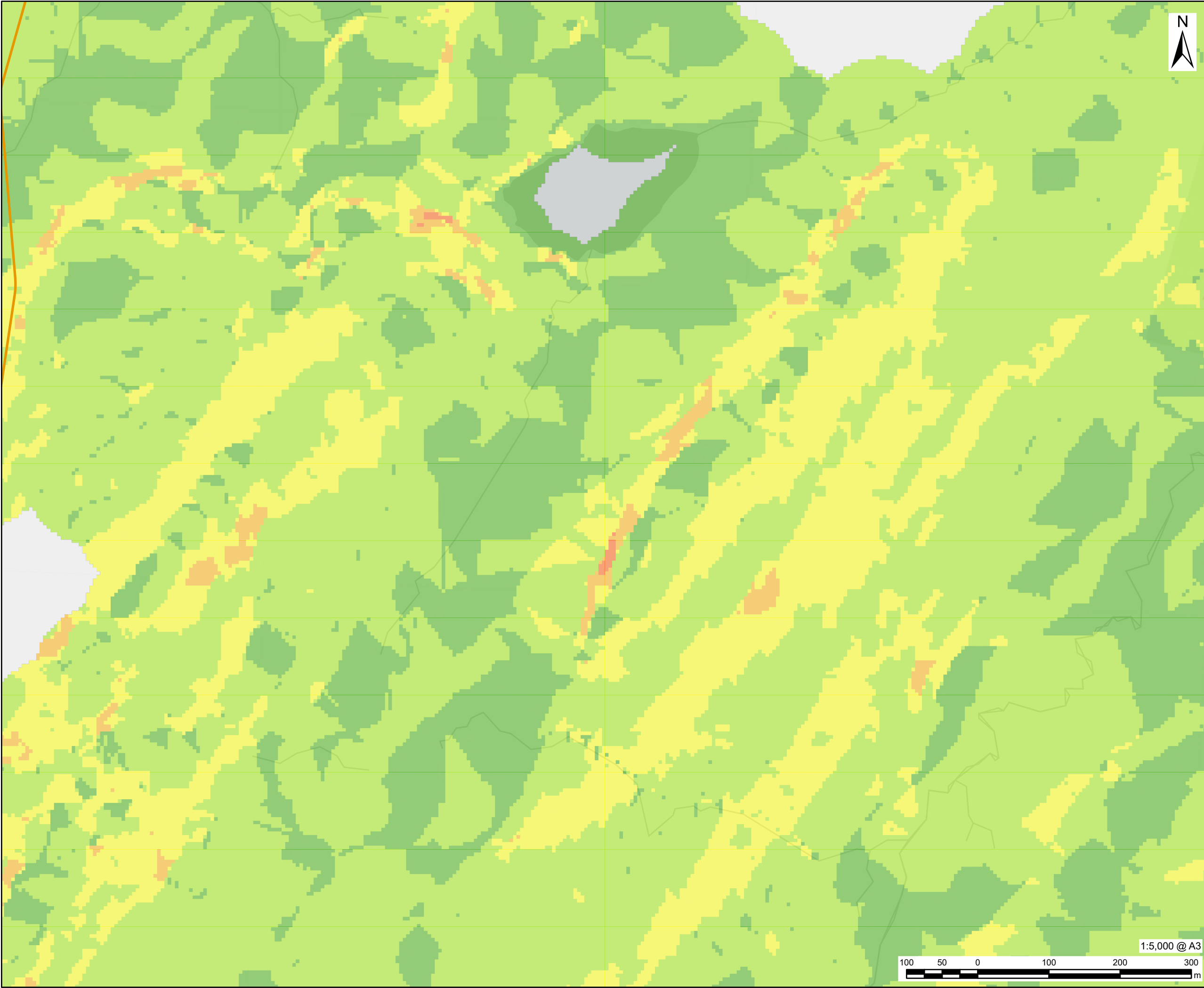
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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LEGEND

Site Boundary

Compounds

Access Tracks

Borrow Pit

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Embankment & Spillway

Headpond

Peat Slide Assessed Hazard

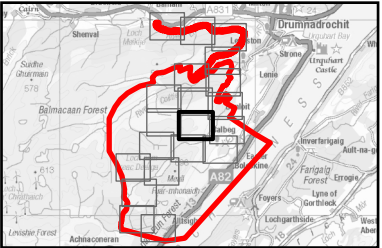
Negligible

Unlikely

Likely

Probable

Almost certain



NOTES

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PROJECT NUMBER

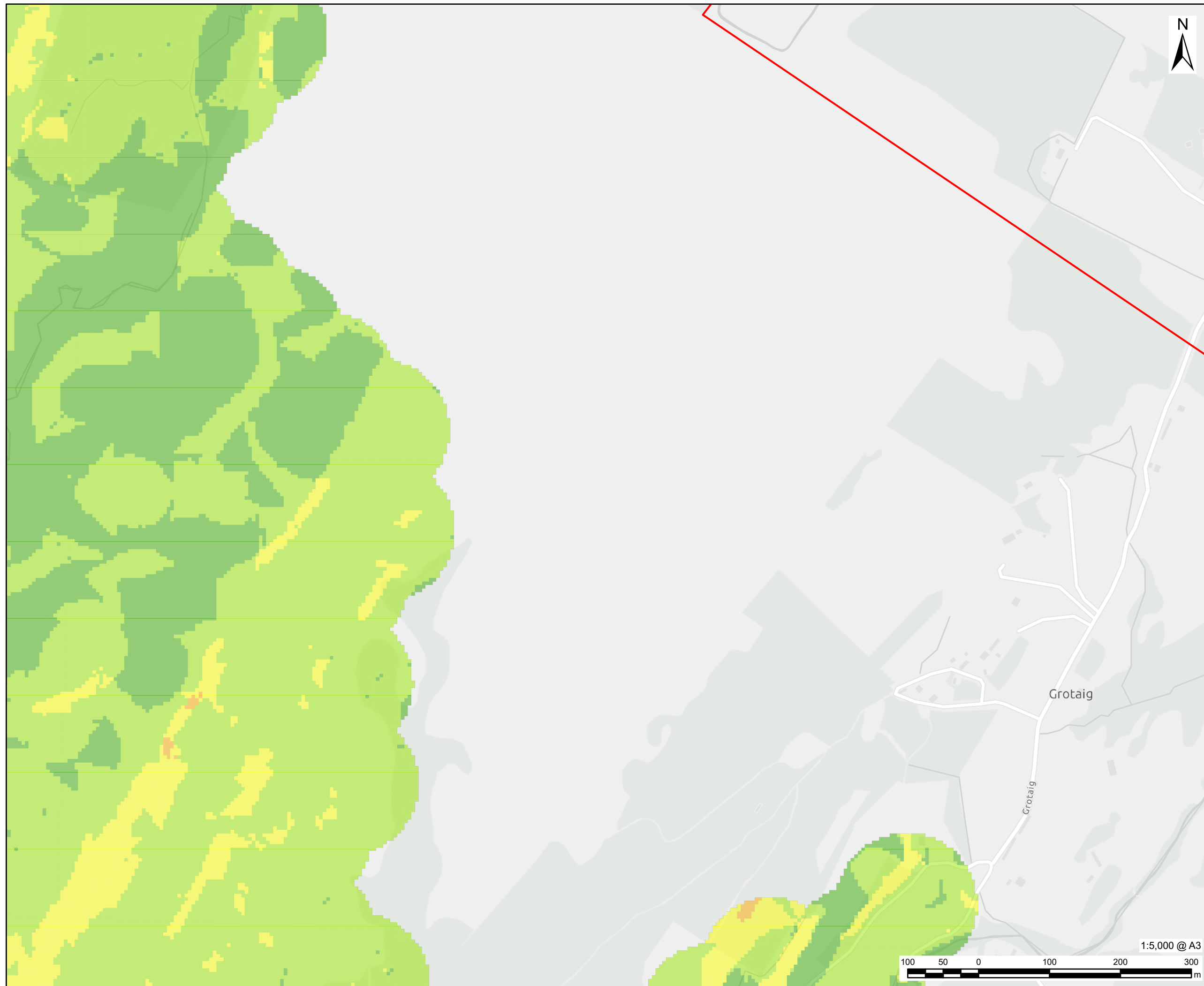
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FIGURE TITLE

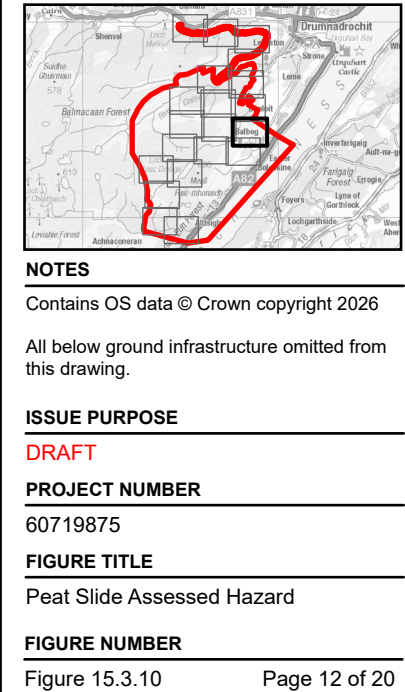
Peat Slide Assessed Hazard

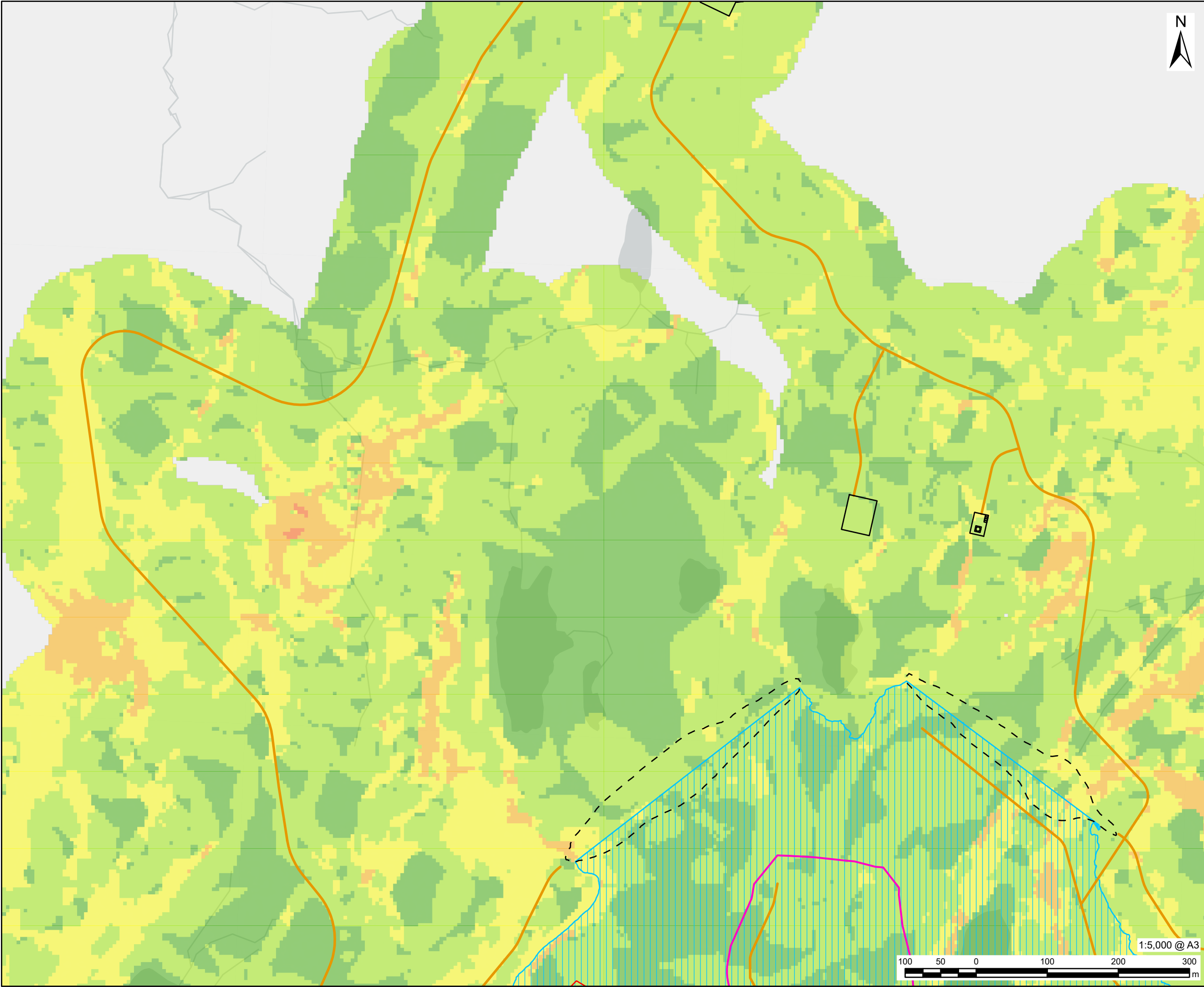
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Figure 15.3.10



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PROJECT
Glen Earrach Pumped Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

CONSULTANT
AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

Site Boundary

Compounds

Access Tracks

Borrow Pit

Upper Control Works Outline

Embankment & Spillway

Headpond

Peat Slide Assessed Hazard

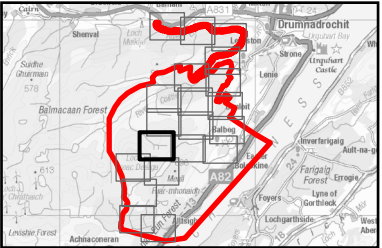
Negligible

Unlikely

Likely

Probable

Almost certain



NOTES

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ISSUE PURPOSE

DRAFT

PROJECT NUMBER

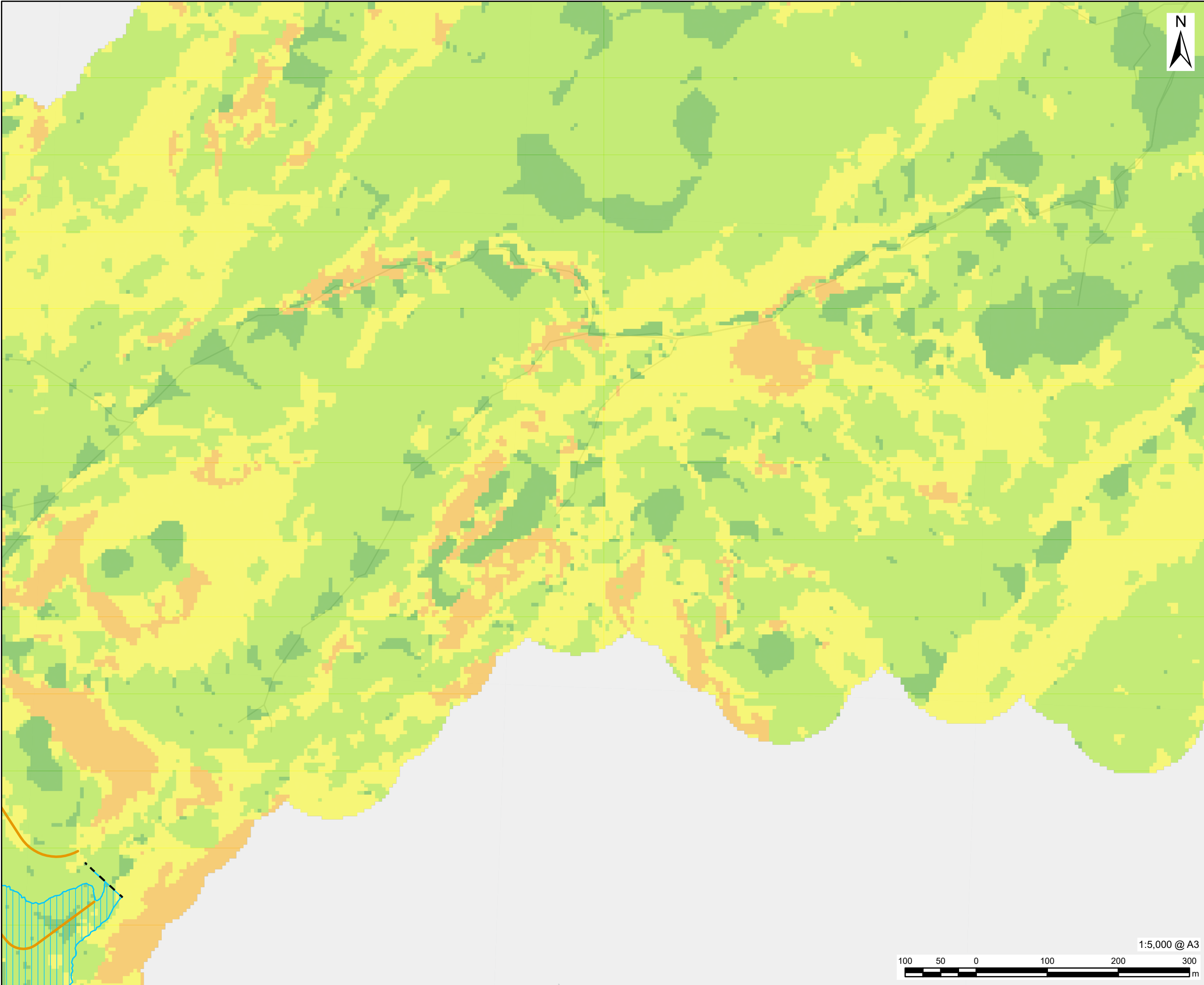
60719875

FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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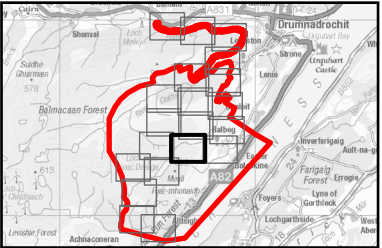
PROJECT
Glen Earrach Pumped Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

CONSULTANT
AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
 - Probable



NOTES
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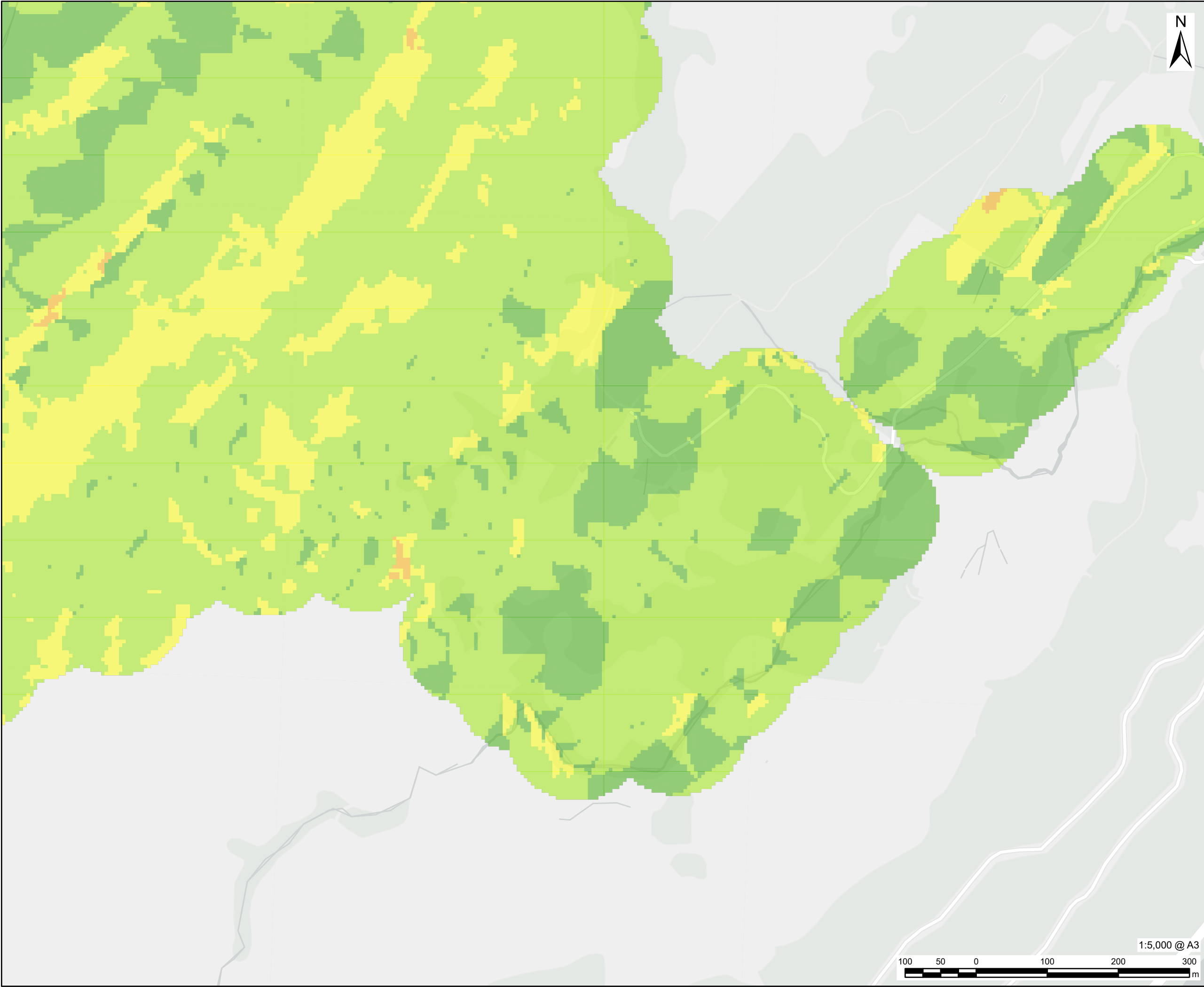
All below ground infrastructure omitted from this drawing.

ISSUE PURPOSE
DRAFT

PROJECT NUMBER
60719875

FIGURE TITLE
Peat Slide Assessed Hazard

FIGURE NUMBER
Figure 15.3.10



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CLIENT
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LEGEND

Site Boundary

Compounds

Access Tracks

Borrow Pit

Upper Control Works Outline

Embankment & Spillway

Headpond

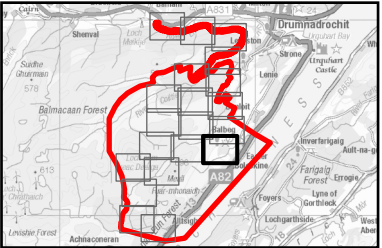
Peat Slide Assessed Hazard

Negligible

Unlikely

Likely

Probable



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ISSUE PURPOSE

DRAFT

PROJECT NUMBER

60719875

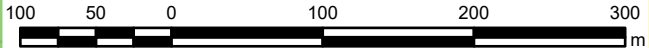
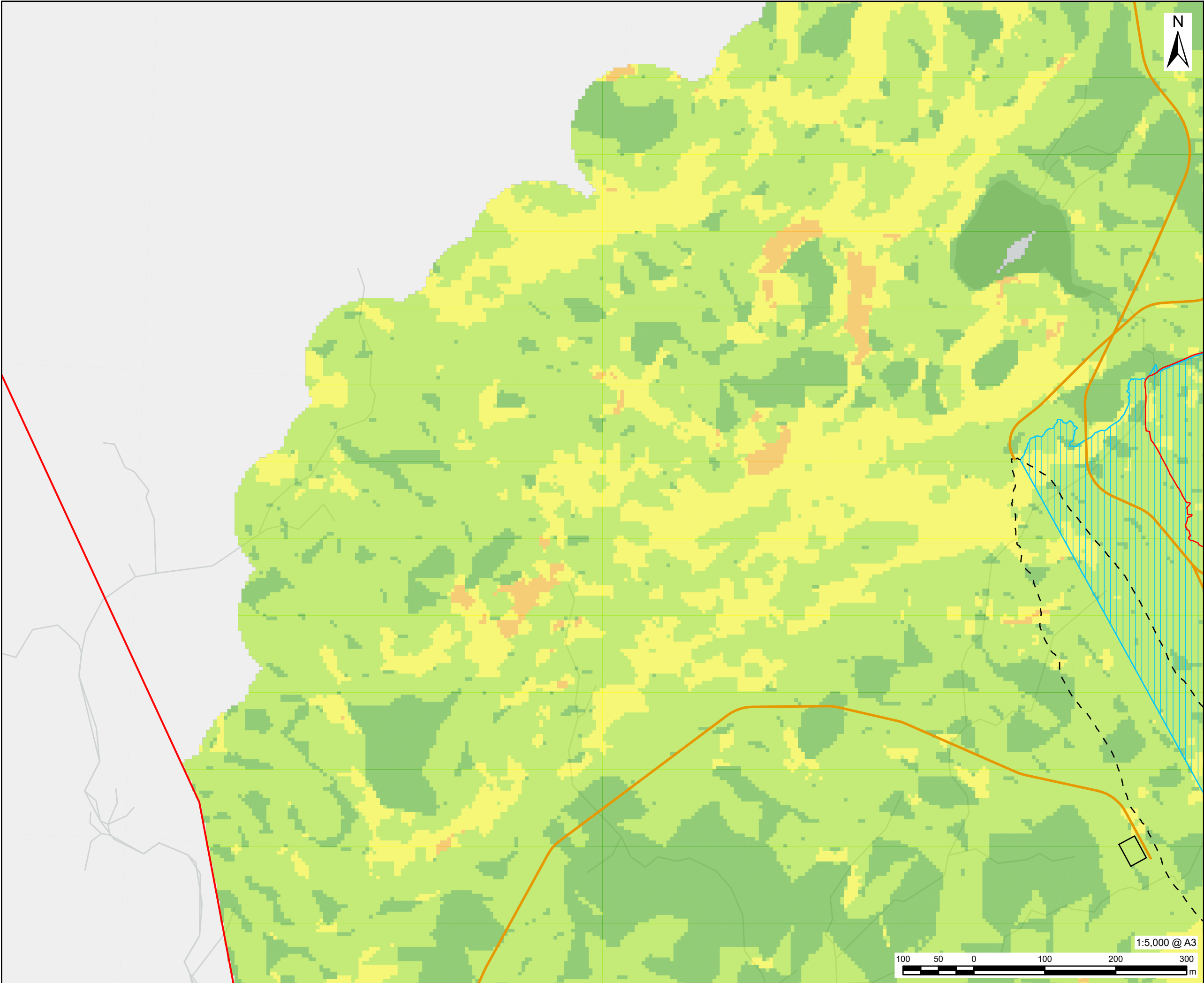
FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10





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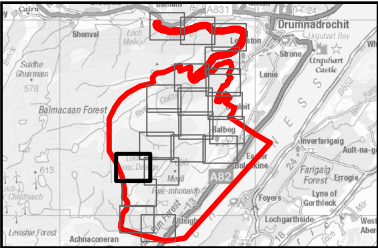
Glen Earrach Energy Ltd.

CONSULTANT

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www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
 - Probable



NOTES

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ISSUE PURPOSE

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PROJECT NUMBER

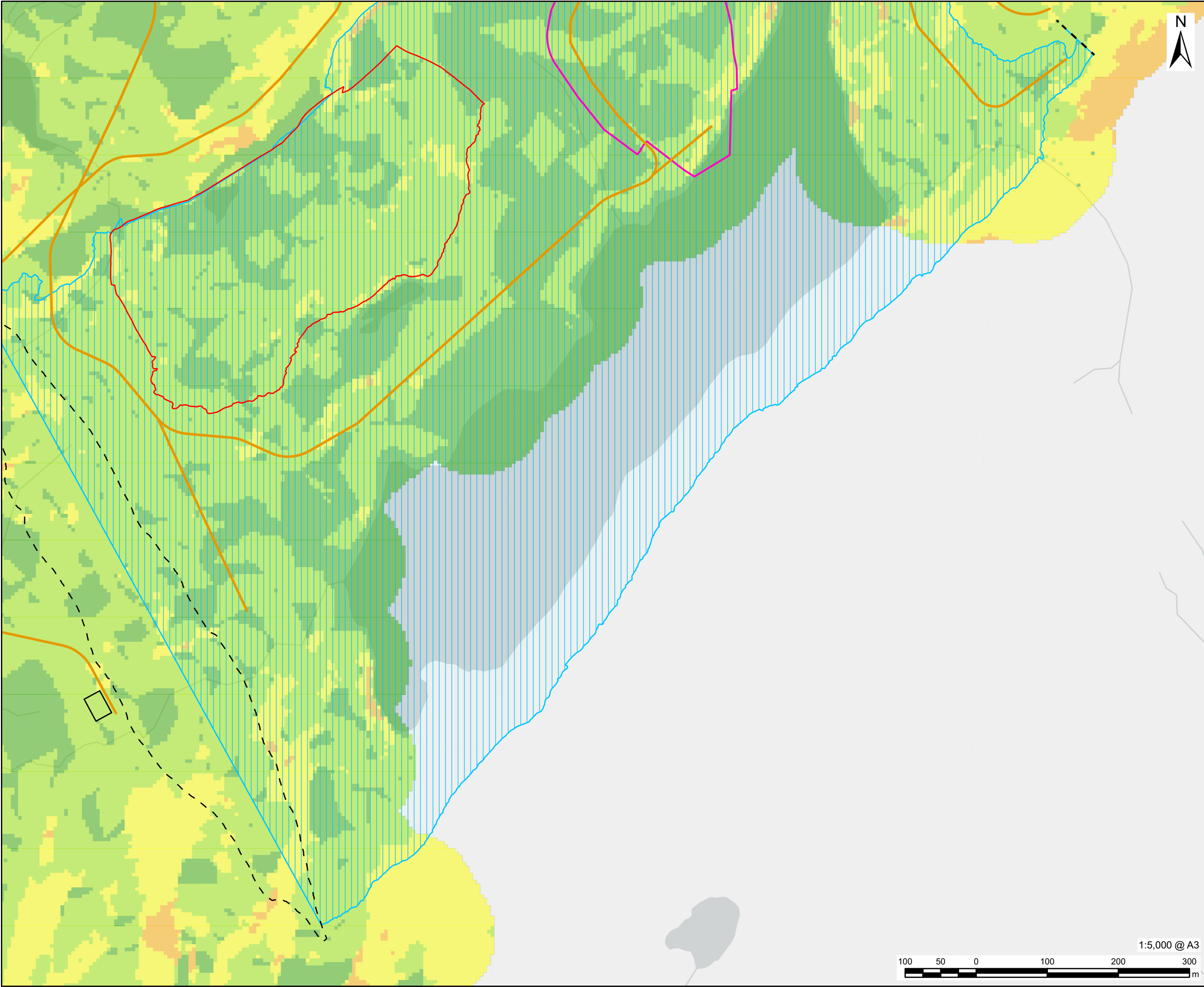
60719875

FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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PROJECT

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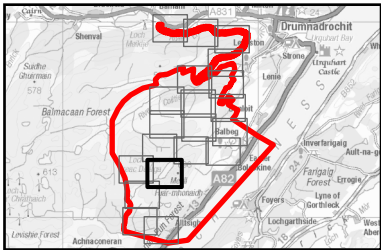
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www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
 - Probable



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ISSUE PURPOSE

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PROJECT NUMBER

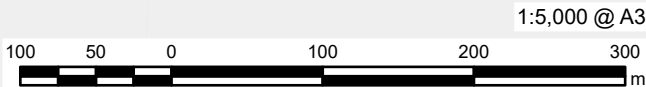
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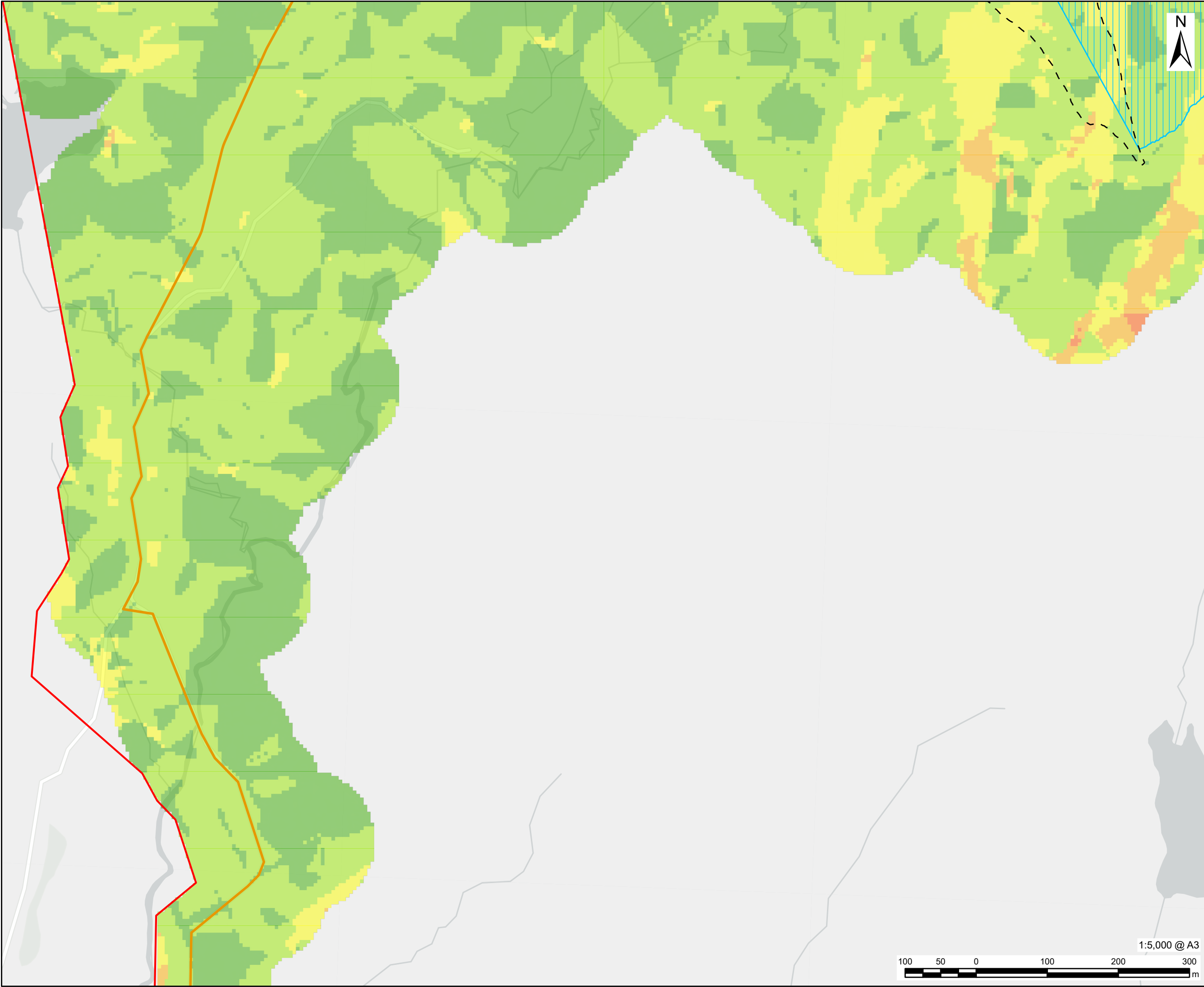
FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10





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LEGEND

Site Boundary

Compounds

Access Tracks

Borrow Pit

Upper Control Works Outline

Embankment & Spillway

Headpond

Peat Slide Assessed Hazard

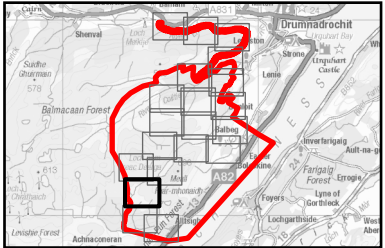
Negligible

Unlikely

Likely

Probable

Almost certain



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ISSUE PURPOSE

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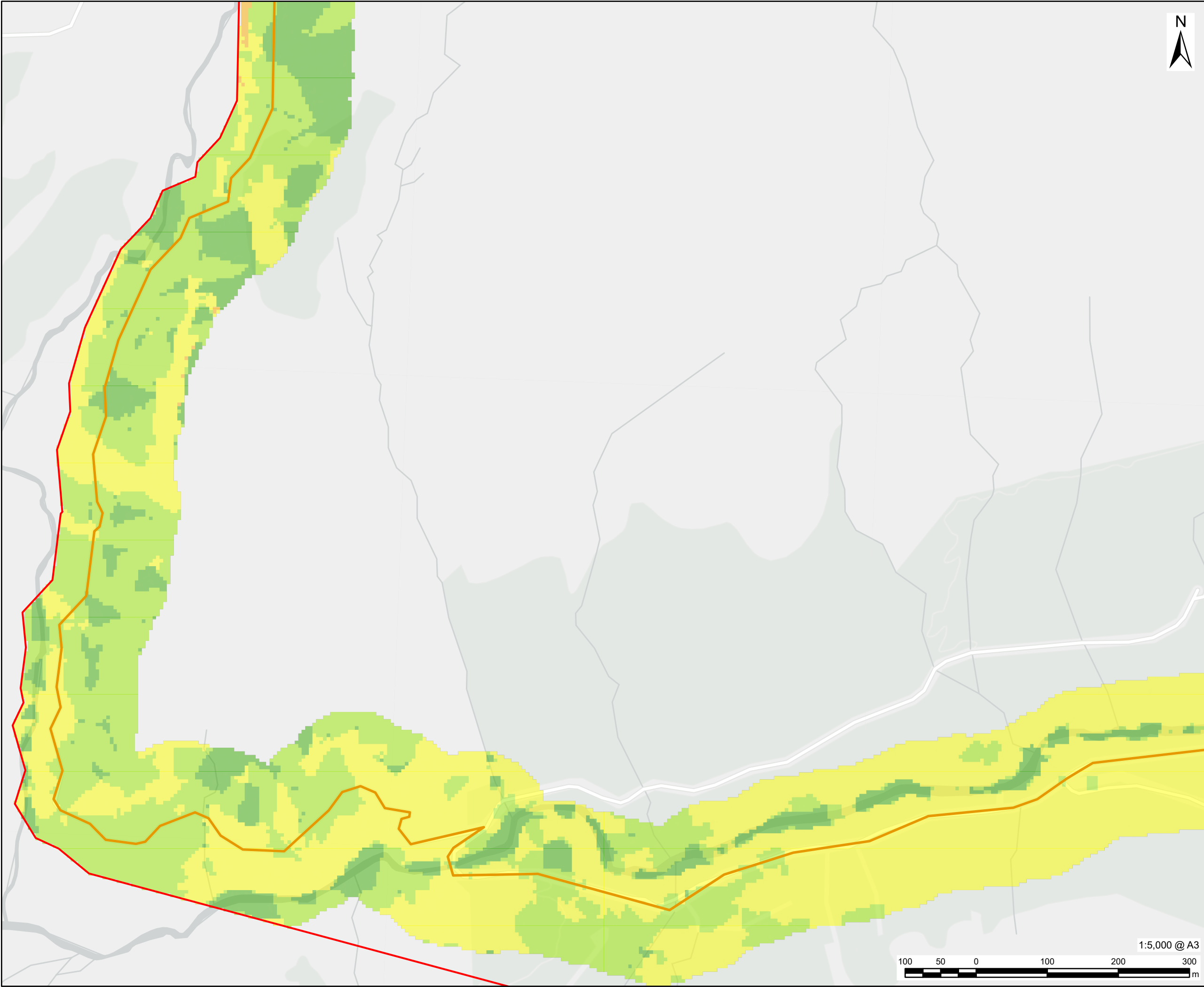
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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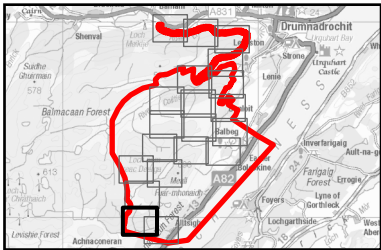
Glen Earrach Energy Ltd.

CONSULTANT

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EH3 5DA
www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely
 - Probable



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ISSUE PURPOSE

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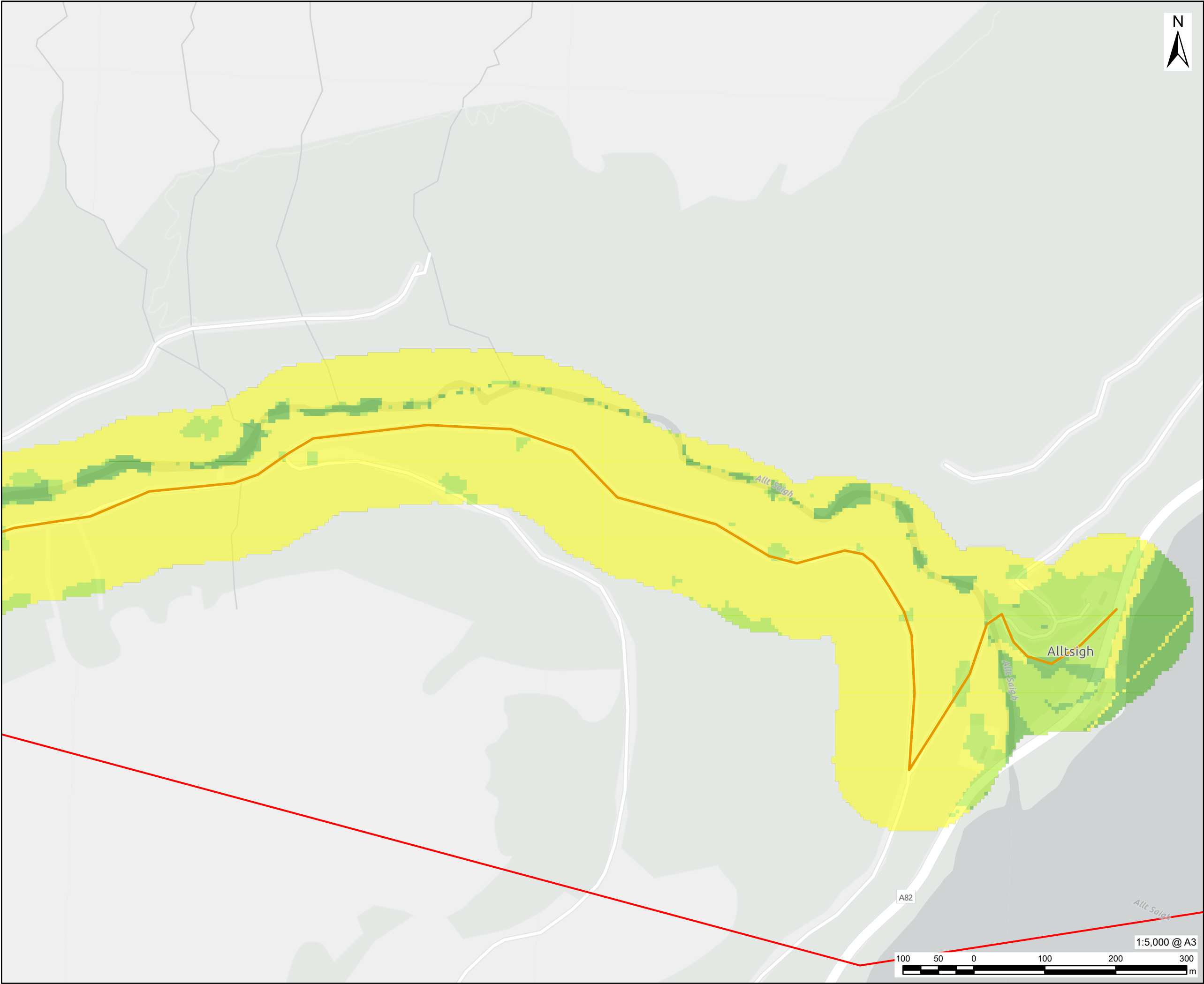
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



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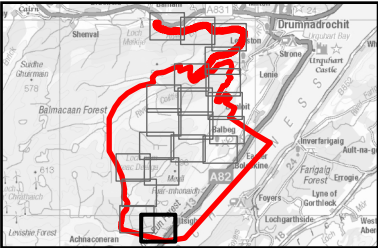
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LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Peat Slide Assessed Hazard
 - Negligible
 - Unlikely
 - Likely



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ISSUE PURPOSE

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PROJECT NUMBER

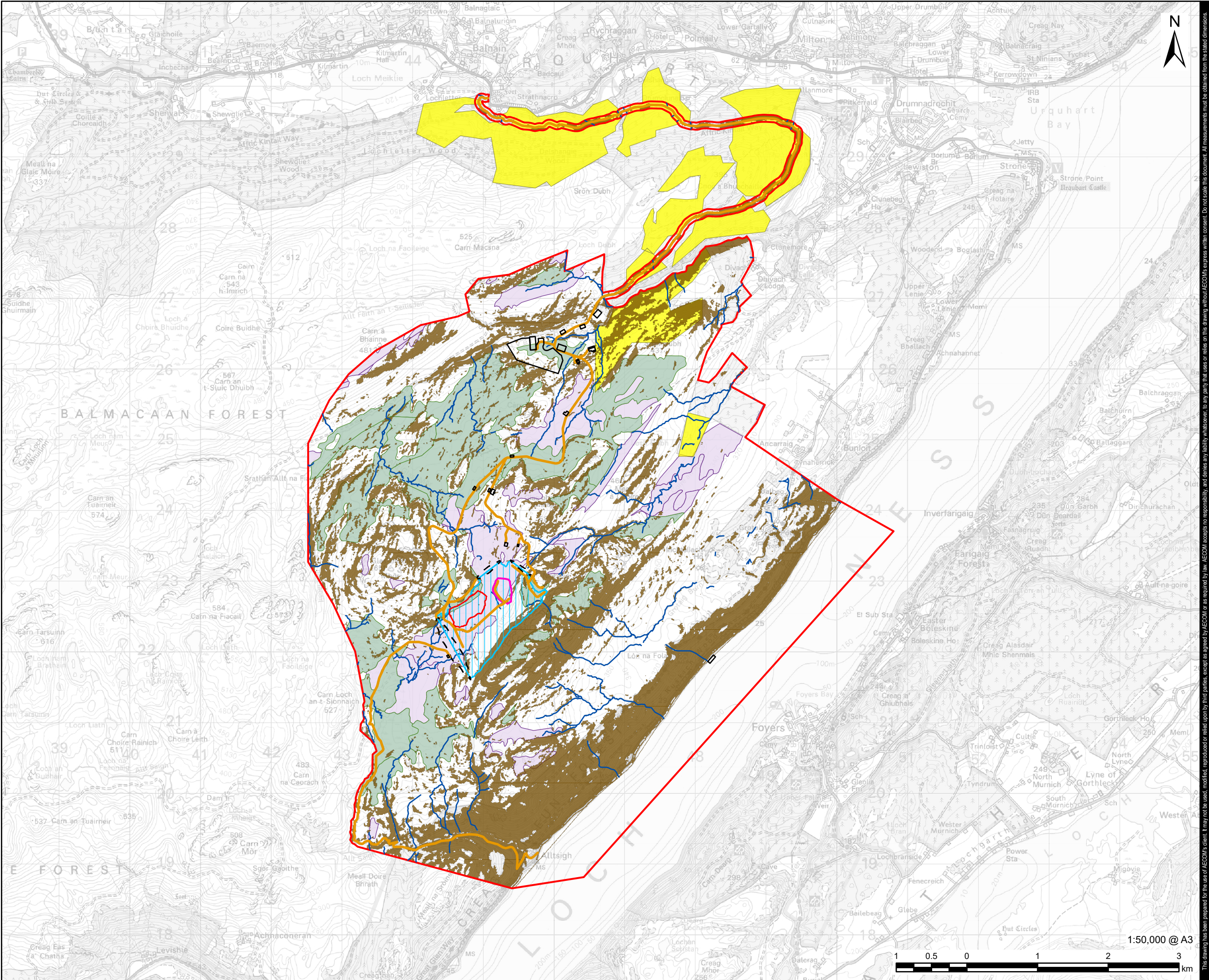
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FIGURE TITLE

Peat Slide Assessed Hazard

FIGURE NUMBER

Figure 15.3.10



PROJECT

Glen Earrach Pumped
Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

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www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Upper Control Works Outline
- Borrow Pit
- Embankment & Spillway
- Headpond
- Forestry Artificial Drainage
- Slope >16° (OS Terrain 5)
- Carbon & Peatland 2016
 - Class 1
 - Class 2

NOTES

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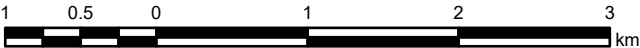
FIGURE TITLE

Geomorphology

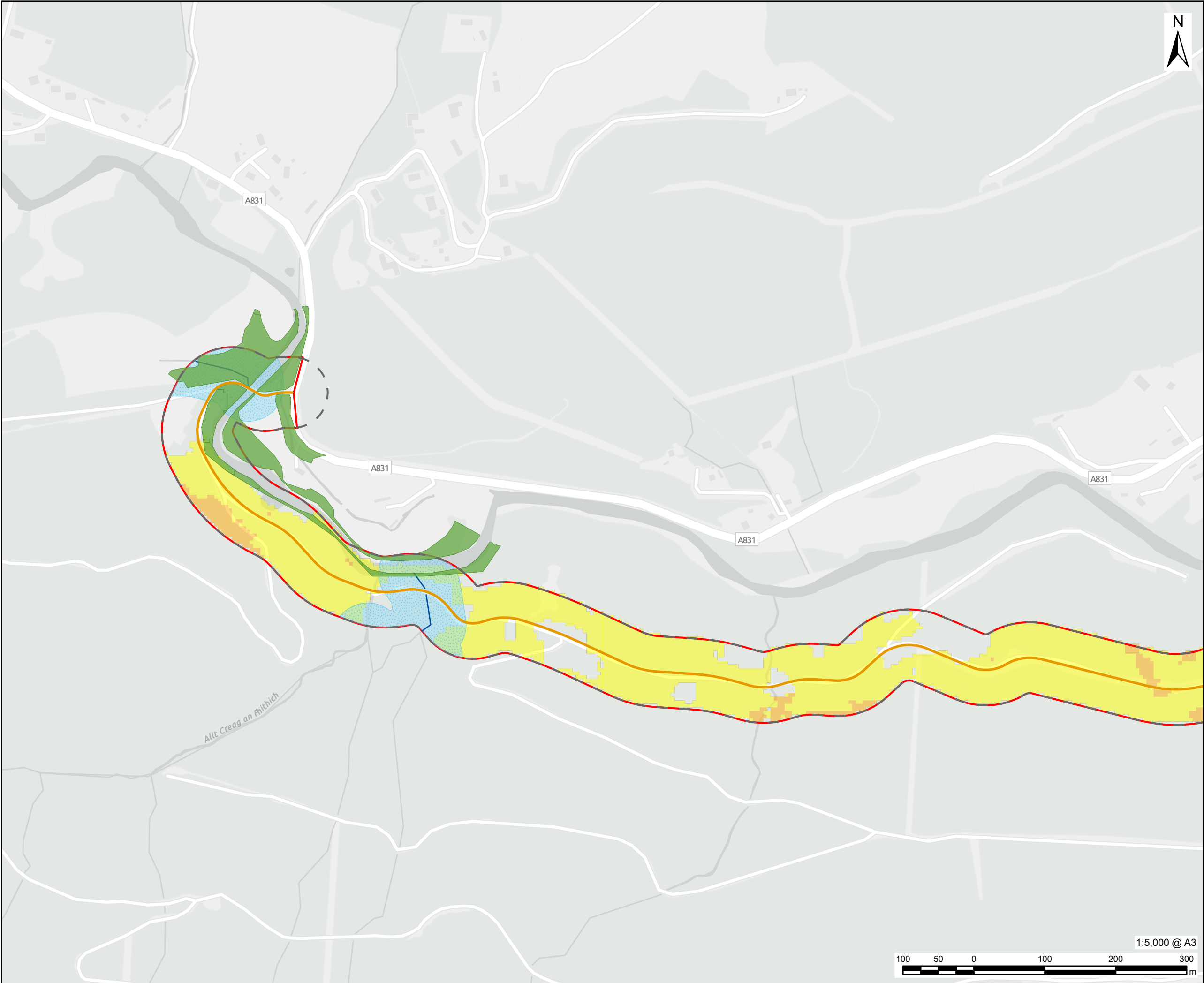
FIGURE NUMBER

Figure 15.3.12

1:50,000 @ A3



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CLIENT
Glen Earrach Energy Ltd.

CONSULTANT
AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
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www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Above Ground Infrastructure - 50m Buffer
- Watercourses
- Watercourses - 50m Buffer
- Potentially Highly Dependent GWDTE
- Carbon & Peatland 2016
 - Class 1
 - Class 2
- Peat Slide Assessed Hazard
 - Likely
 - Probable

NOTES

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ISSUE PURPOSE
DRAFT

PROJECT NUMBER
60719875

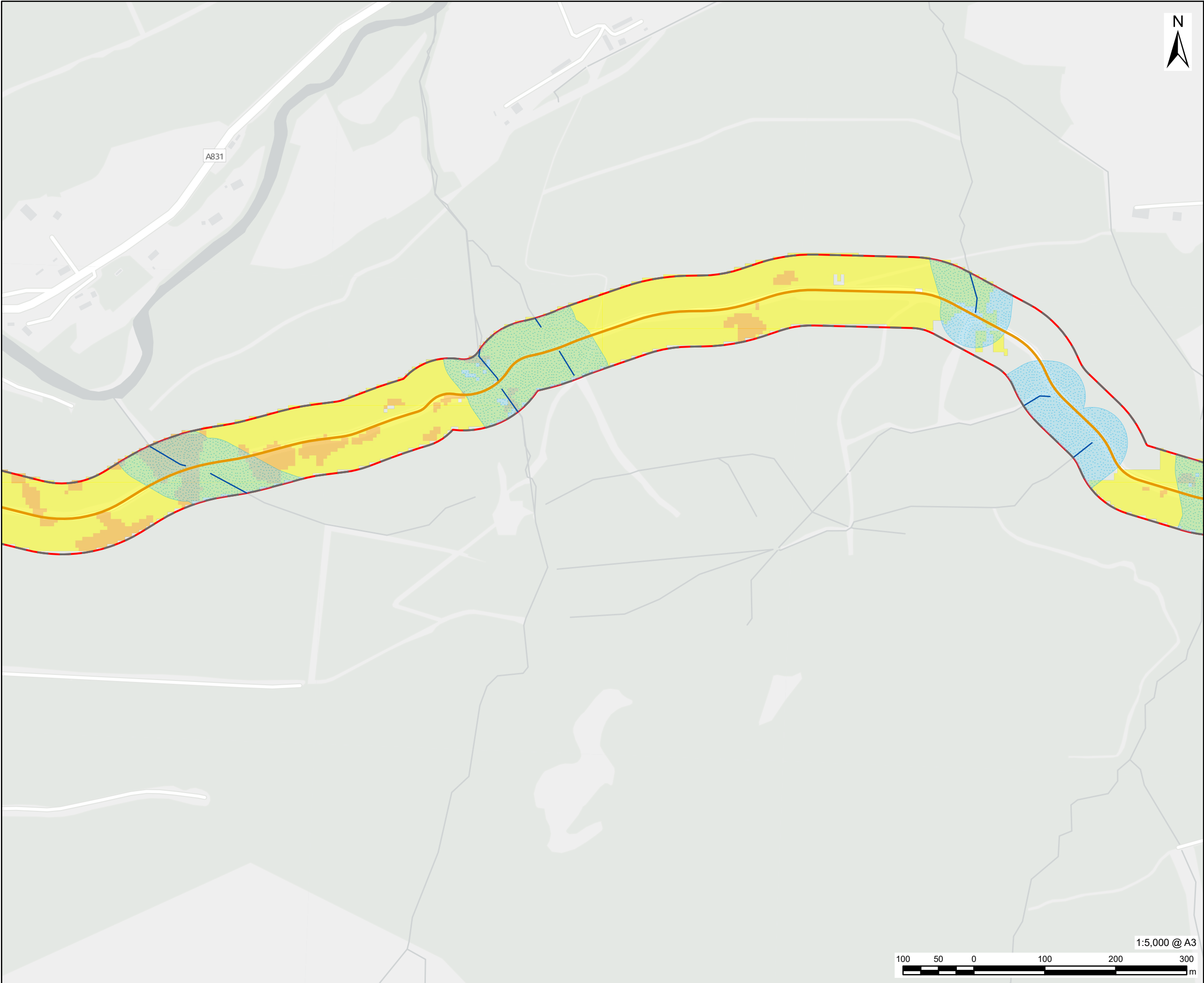
FIGURE TITLE
Risk Mapping

FIGURE NUMBER
Figure 15.3.13

1:5,000 @ A3

100 50 0 100 200 300 m

Page 1 of 20



AECOM

PROJECT

Glen Earrach Pumped
Storage Hydro

CLIENT

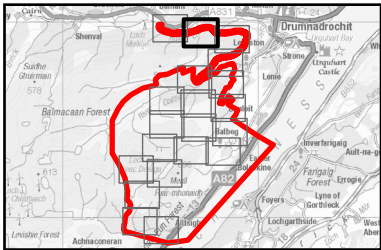
Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Above Ground Infrastructure - 50m Buffer
- Watercourses
- Watercourses - 50m Buffer
- Potentially Highly Dependent GWDTE
- Carbon & Peatland 2016
 - Class 1
 - Class 2
- Peat Slide Assessed Hazard
 - Likely
 - Probable



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ISSUE PURPOSE

DRAFT

PROJECT NUMBER

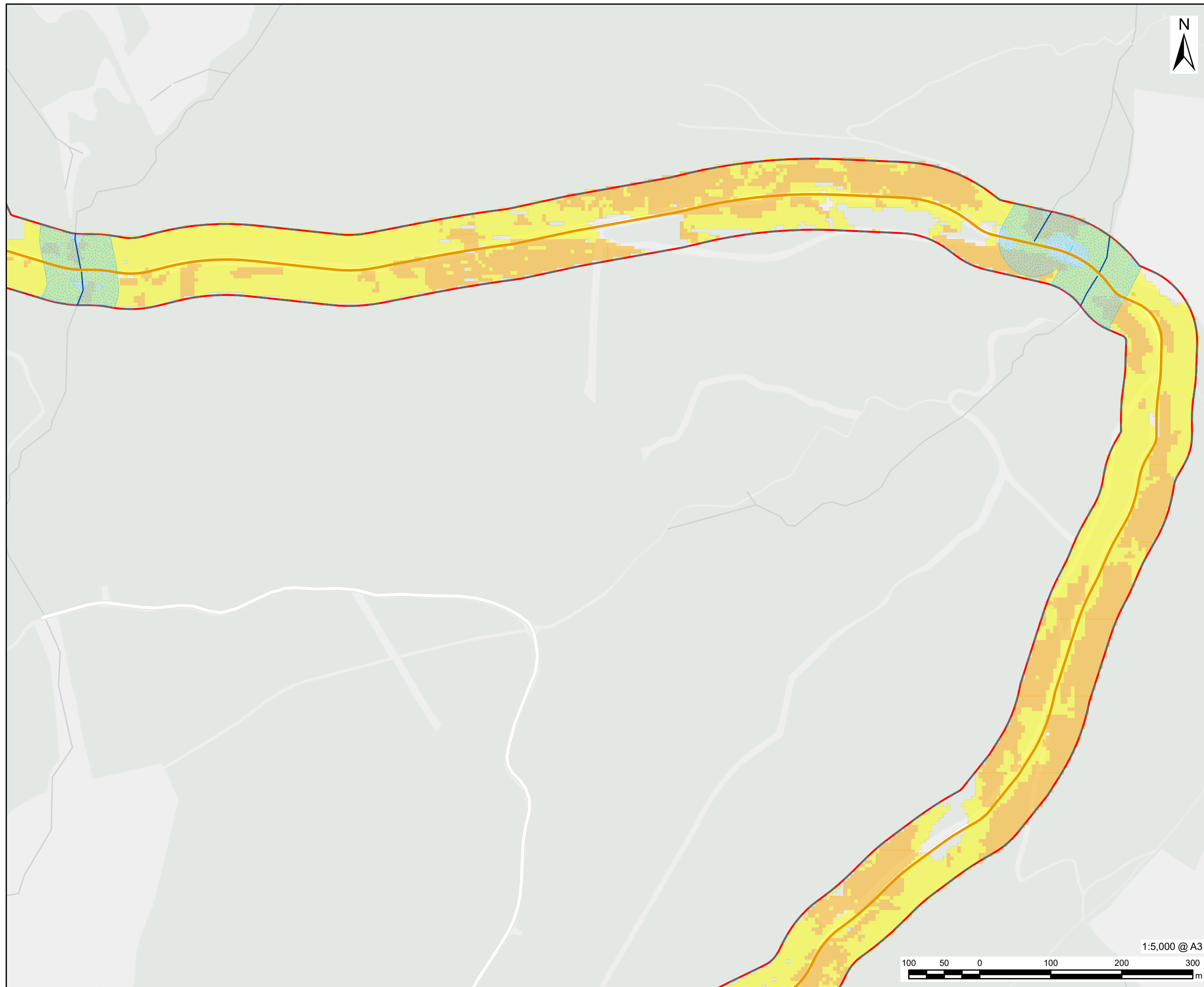
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FIGURE TITLE

Risk Mapping

FIGURE NUMBER

Figure 15.3.13



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PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

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 EH3 5DA
www.aecom.com

LEGEND

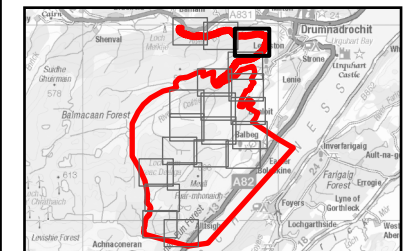
	Site Boundary
	Compounds
	Access Tracks
	Borrow Pit
	Upper Control Works Outline
	Embankment & Spillway
	Headpond
	Above Ground Infrastructure - 50m Buffer
	Watercourses
	Watercourses - 50m Buffer
	Potentially Highly Dependent GWDTE

Carbon & Peatland 2016

	Class 1
	Class 2

Peat Slide Assessed Hazard

	Likely
	Probable



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ISSUE PURPOSE

DRAFT

PROJECT NUMBER

60719875

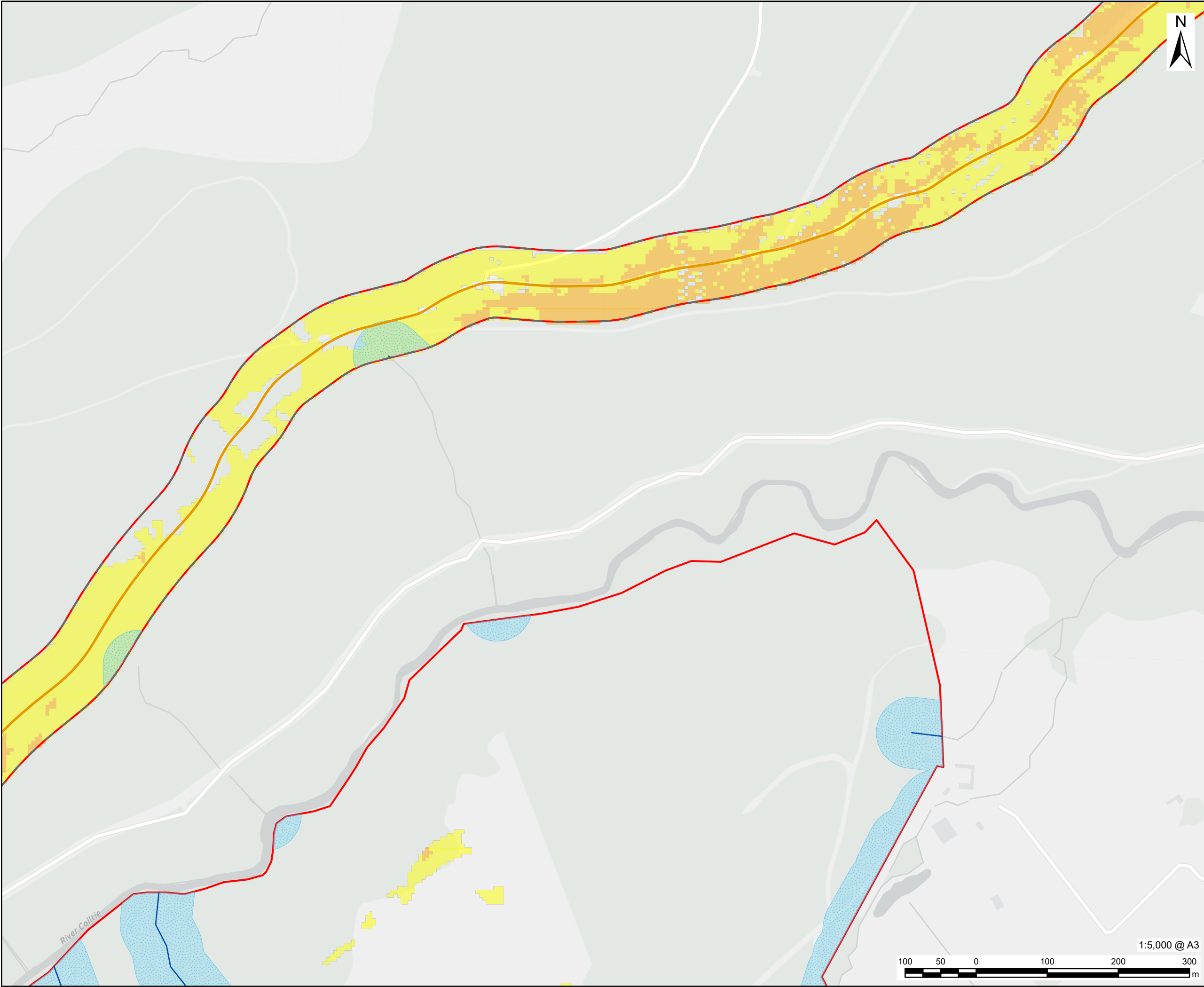
FIGURE TITLE

Risk Mapping

Risk mapping

FIGURE NUMBER _____

Figure 15.3.13 Page 3 of 20



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PROJECT
Glen Earrach Pumped Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

CONSULTANT
AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

Site Boundary

Compounds

Access Tracks

Borrow Pit

Upper Control Works Outline

Embankment & Spillway

Headpond

Above Ground Infrastructure - 50m Buffer

Watercourses

Watercourses - 50m Buffer

Potentially Highly Dependent GWDTE

Carbon & Peatland 2016

Class 1

Class 2

Peat Slide Assessed Hazard

Likely

Probable

NOTES

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ISSUE PURPOSE

DRAFT

PROJECT NUMBER

60719875

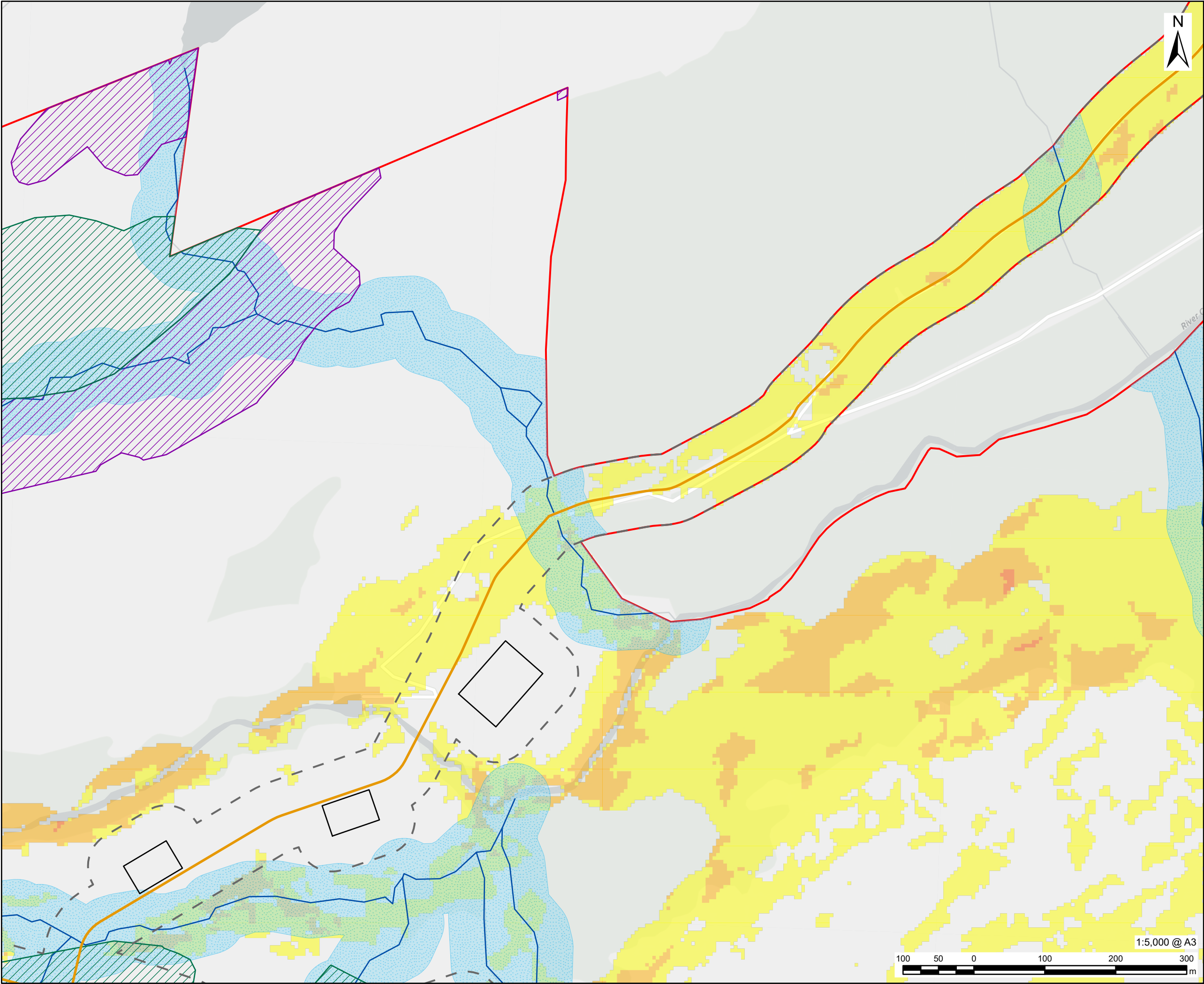
FIGURE TITLE

Risk Mapping

FIGURE NUMBER

Figure 15.3.13

Page 4 of 20



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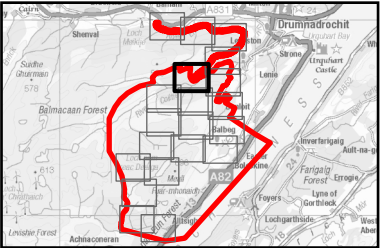
PROJECT
Glen Earrach Pumped Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

CONSULTANT
AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Above Ground Infrastructure - 50m Buffer
- Watercourses
- Watercourses - 50m Buffer
- Potentially Highly Dependent GWDTE
- Carbon & Peatland 2016
 - Class 1
 - Class 2
- Peat Slide Assessed Hazard
 - Likely
 - Probable
 - Almost certain



NOTES
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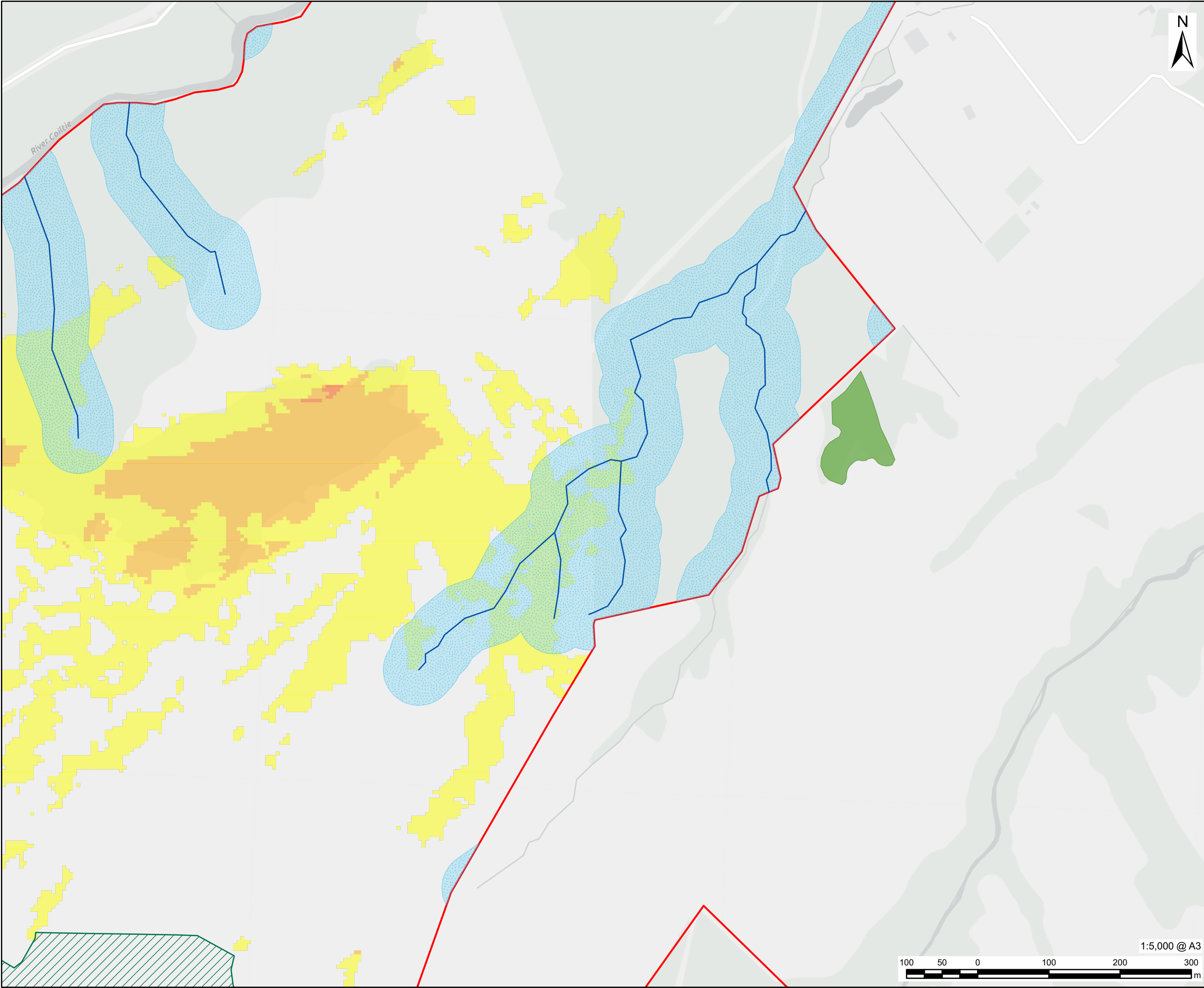
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ISSUE PURPOSE
DRAFT

PROJECT NUMBER
60719875

FIGURE TITLE
Risk Mapping

FIGURE NUMBER
Figure 15.3.13



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Storage Hydro

CLIENT

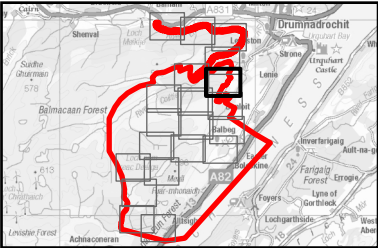
Glen Earrach Energy Ltd.

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LEGEND

- Site Boundary
- Compounds
- Access Tracks
- Borrow Pit
- Upper Control Works Outline
- Embankment & Spillway
- Headpond
- Above Ground Infrastructure - 50m Buffer
- Watercourses
- Watercourses - 50m Buffer
- Potentially Highly Dependent GWDTE
- Carbon & Peatland 2016
 - Class 1
 - Class 2
- Peat Slide Assessed Hazard
 - Likely
 - Probable
 - Almost certain



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ISSUE PURPOSE

DRAFT

PROJECT NUMBER

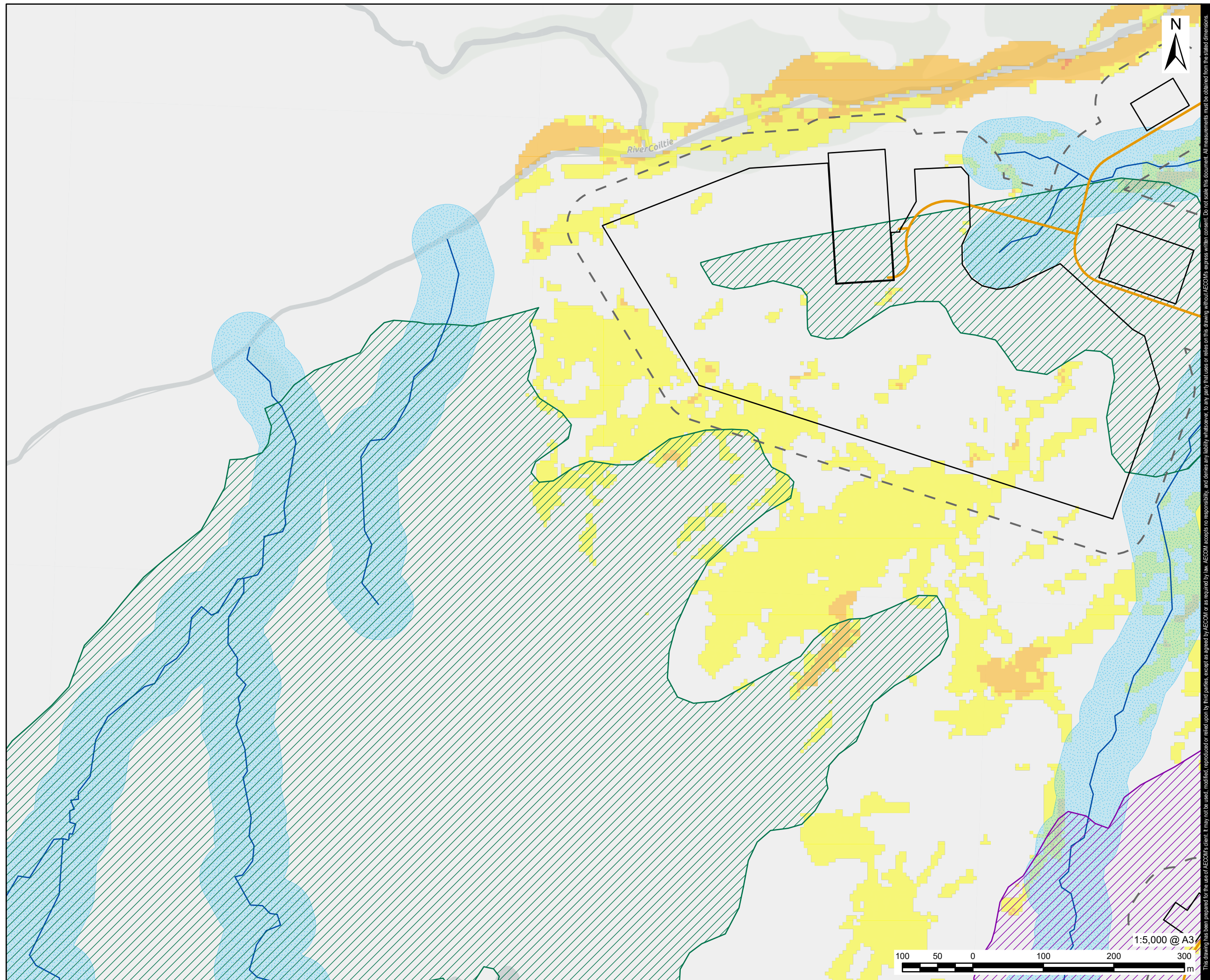
60719875

FIGURE TITLE

Risk Mapping

FIGURE NUMBER

Figure 15.3.13





PROJECT

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LEGEND

 Site Boundary

 Compounds

 Access Tracks

 Borrow Pit

 Upper Control Works Outline

 Embankment & Spillway

 Headpond

 Above Ground Infrastructure - 50m Buffer

 Watercourses

 Watercourses - 50m Buffer

 Potentially Highly Dependent GWDE

Carbon & Peatland 2016

 Class 1

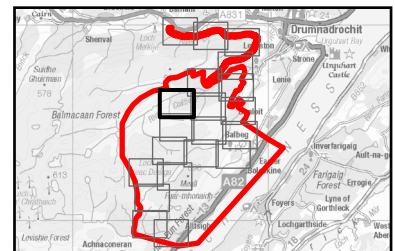
 Class 2

Peat Slide Assessed Hazard

 Likely

 Probable

 Almost certain



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ISSUE PURPOSE

PROJECT NUMBER

60719875

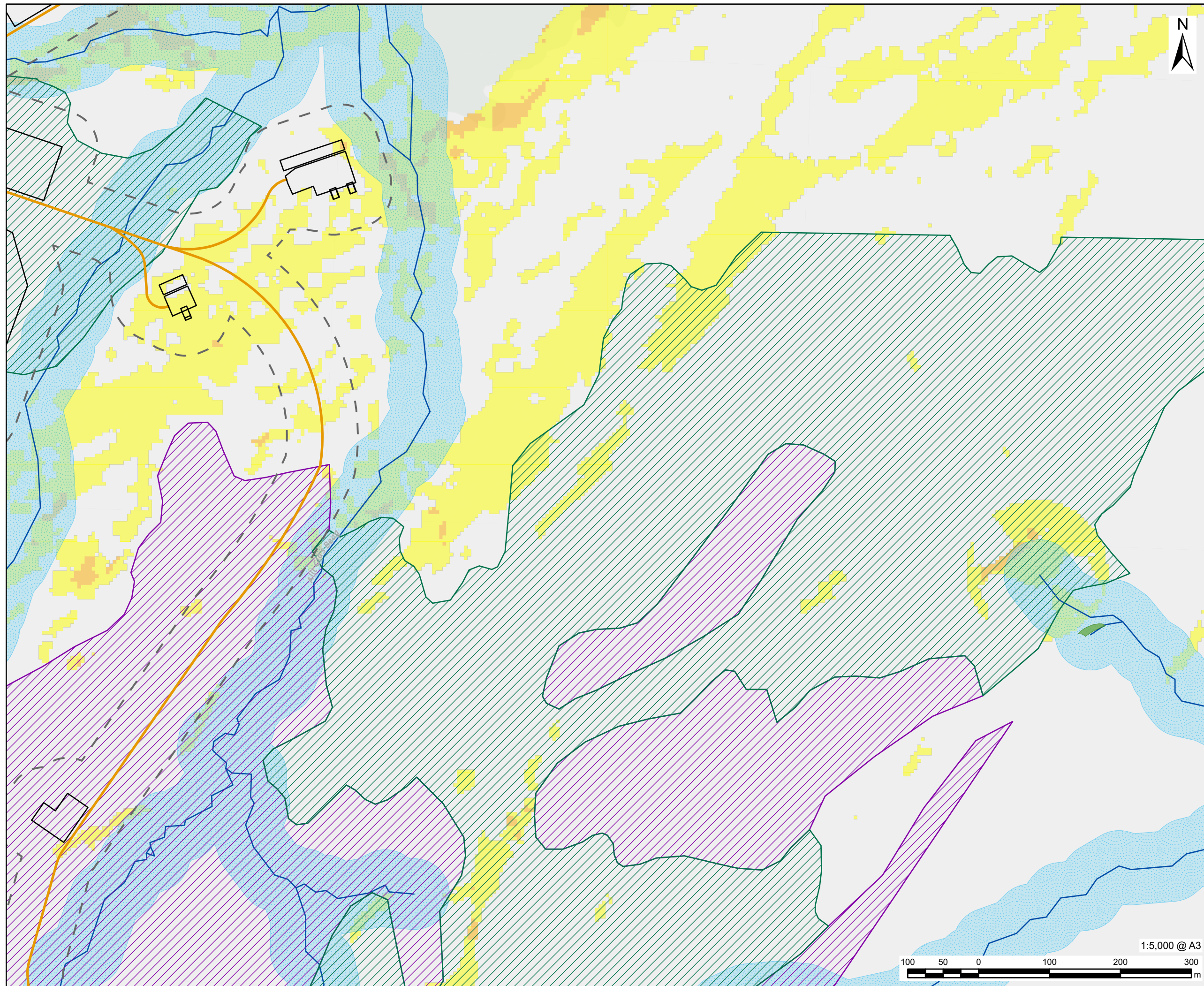
FIGURE TITLE

Risk Mapping

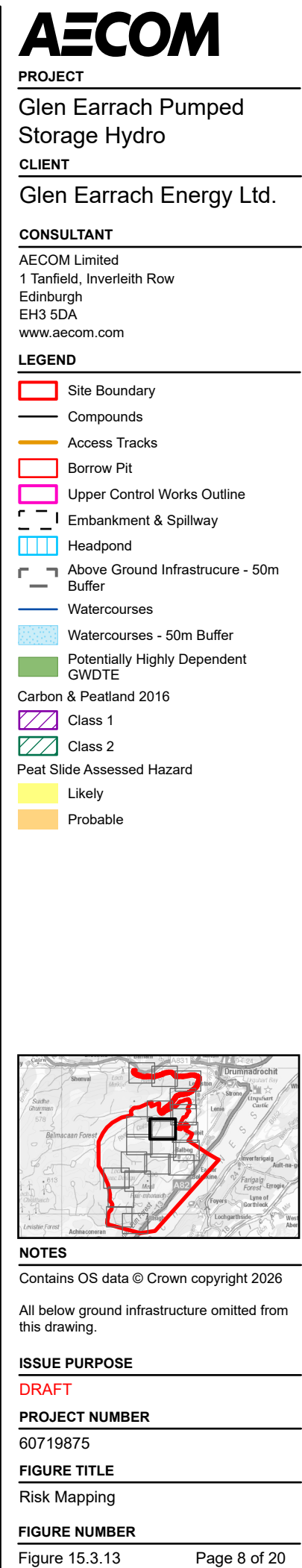
FIGURE NUMBER

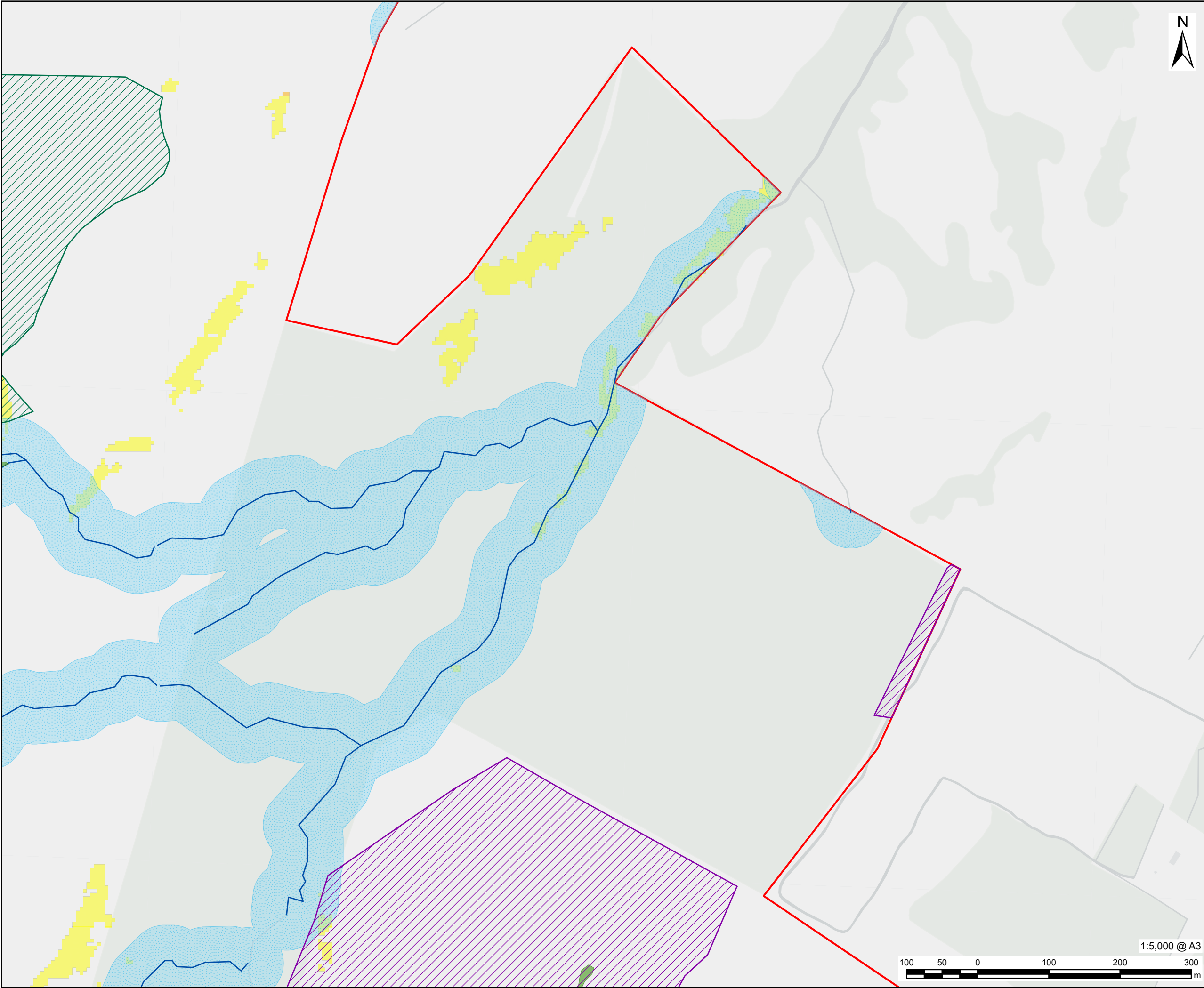
Figure 15.3.13

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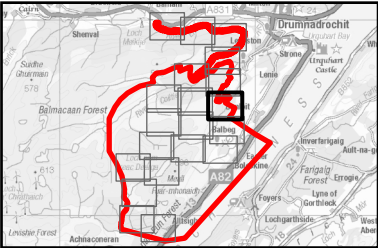
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LEGEND

- Site Boundary
- Compounds
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- Carbon & Peatland 2016
 - Class 1
 - Class 2
- Peat Slide Assessed Hazard
 - Likely
 - Probable



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ISSUE PURPOSE

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PROJECT NUMBER

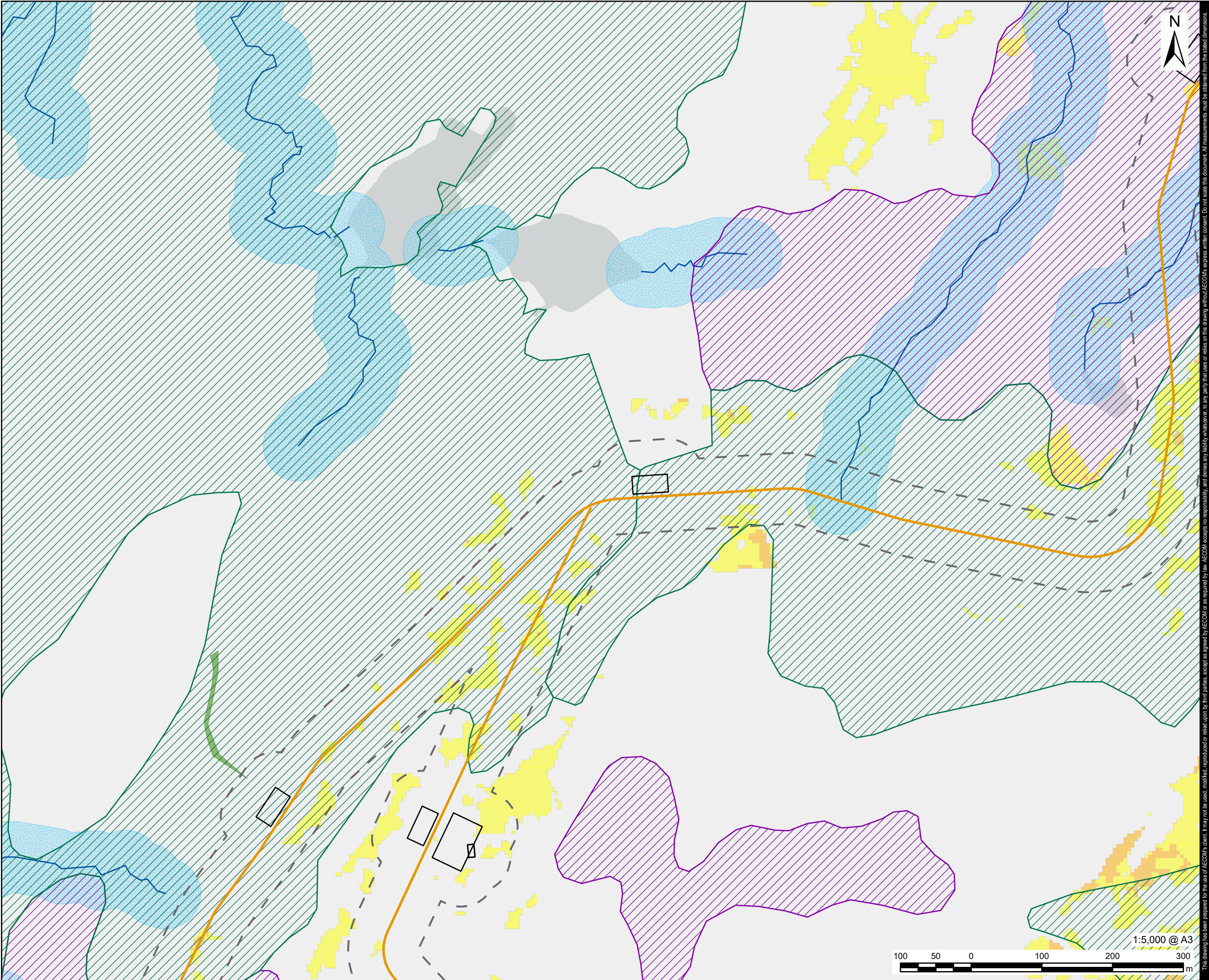
60719875

FIGURE TITLE

Risk Mapping

FIGURE NUMBER

Figure 15.3.13



AECOM

PROJECT
Glen Earrach Pumped Storage Hydro

CLIENT
Glen Earrach Energy Ltd.

CONSULTANT
AECOM Limited
1 Tanfield, Inverleith Row
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

Site Boundary

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Watercourses

Watercourses - 50m Buffer

Potentially Highly Dependent GWDTE

Carbon & Peatland 2016

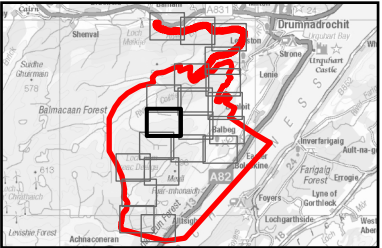
Class 1

Class 2

Peat Slide Assessed Hazard

Likely

Probable



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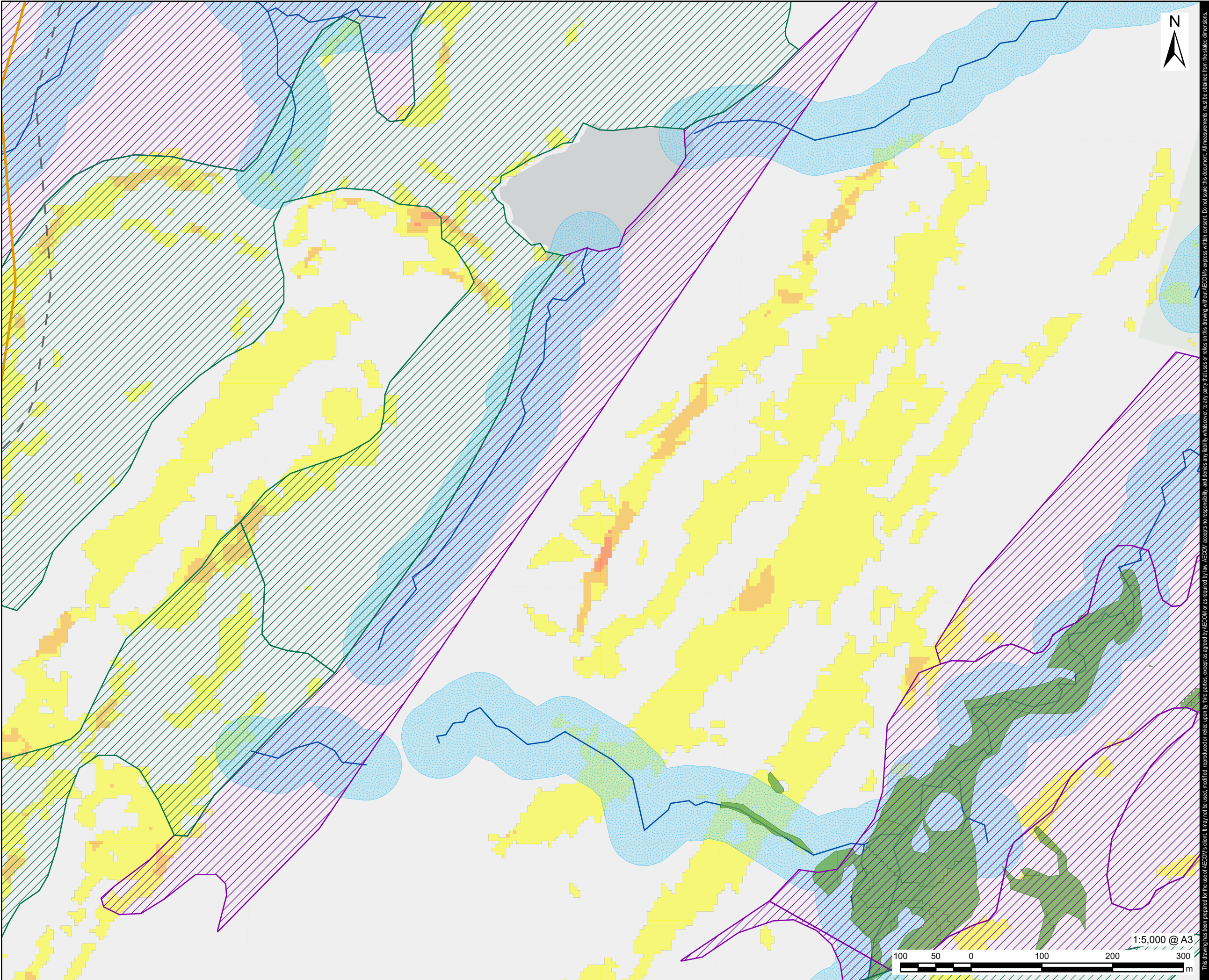
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Peat Slide Assessed Hazard

Likely

Probable

Almost certain

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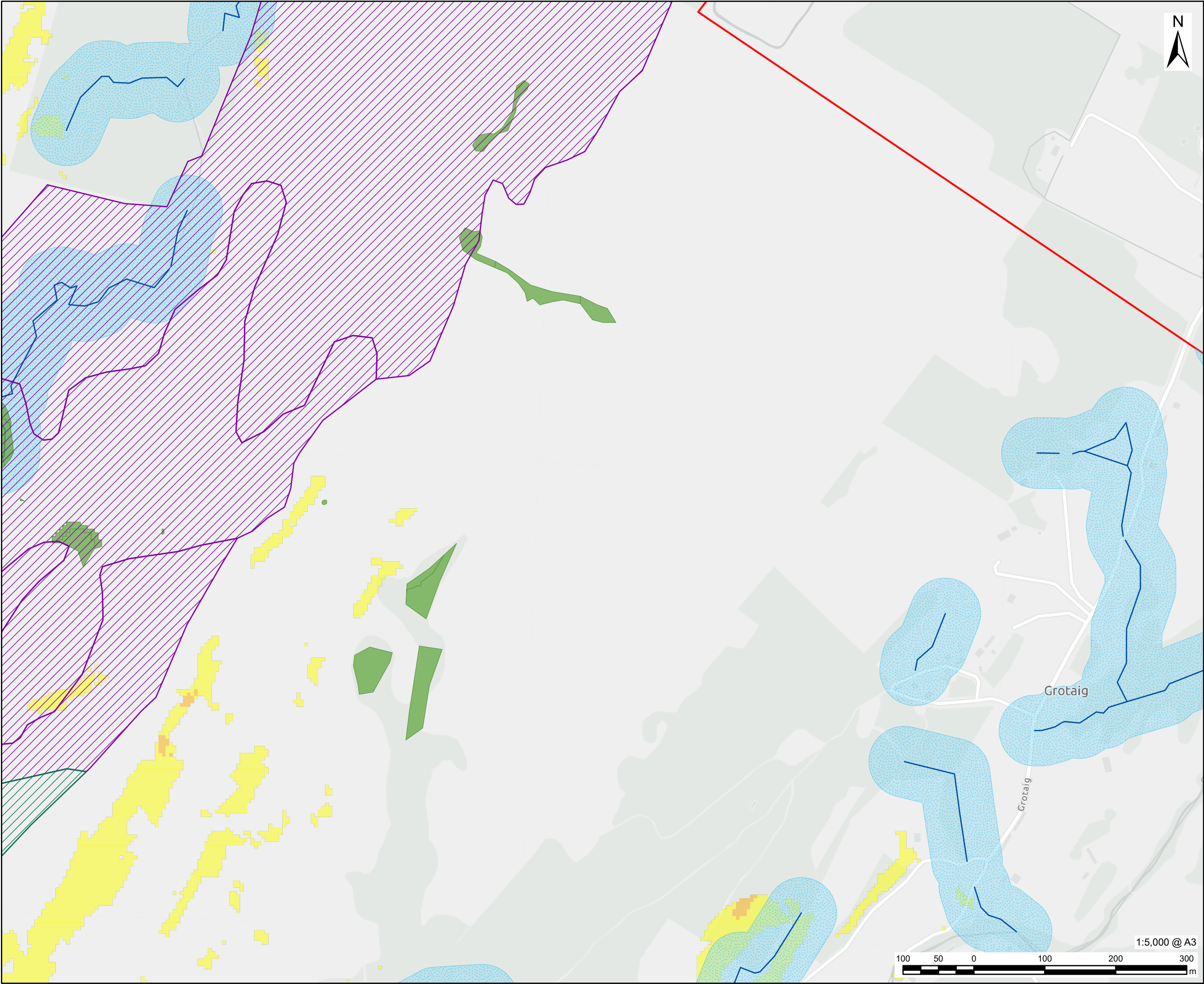
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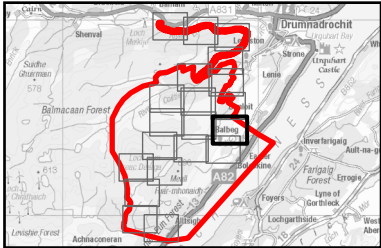
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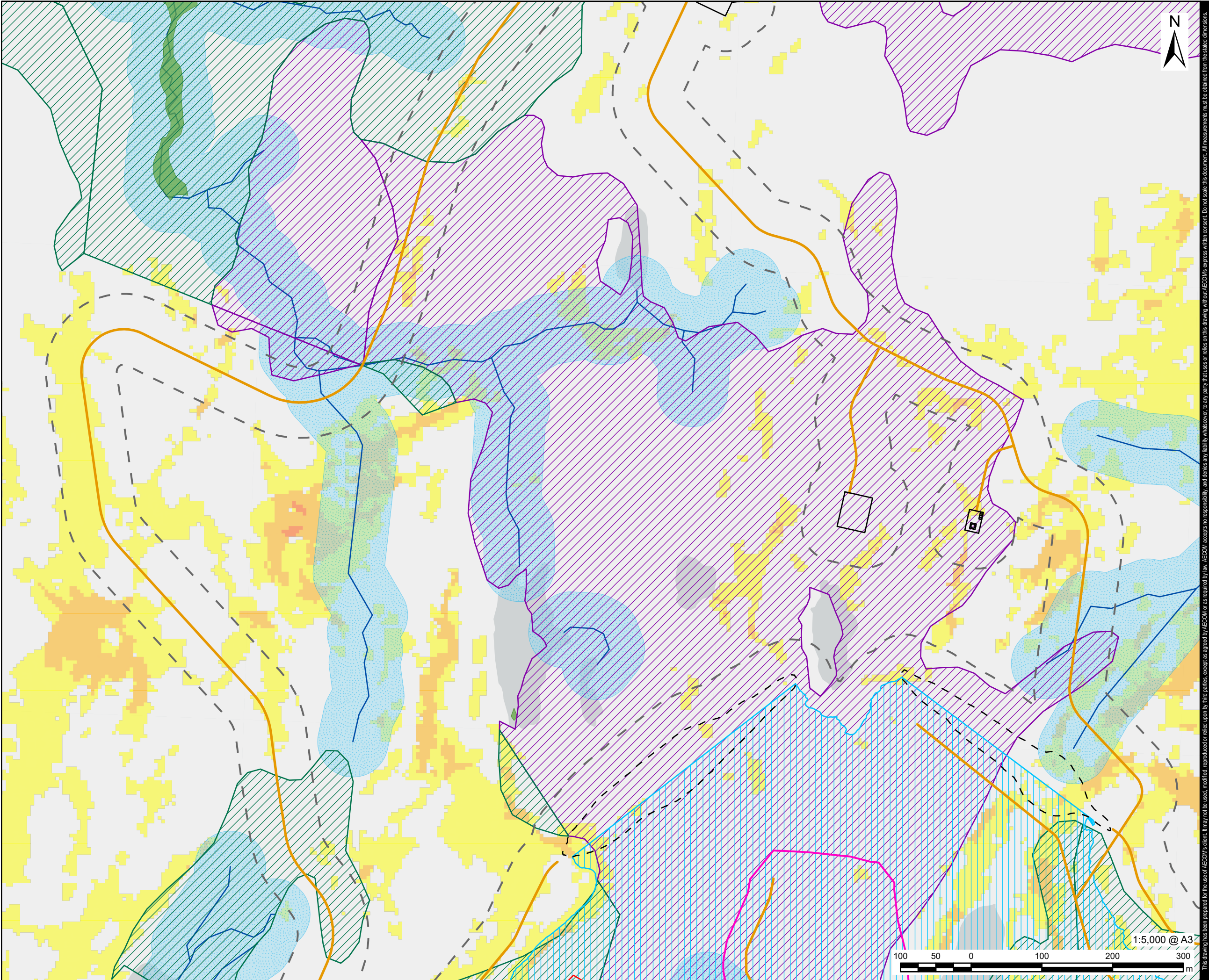
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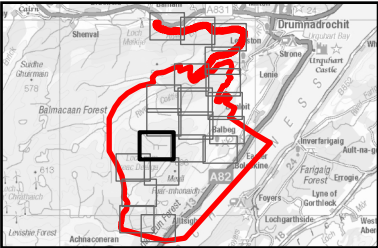
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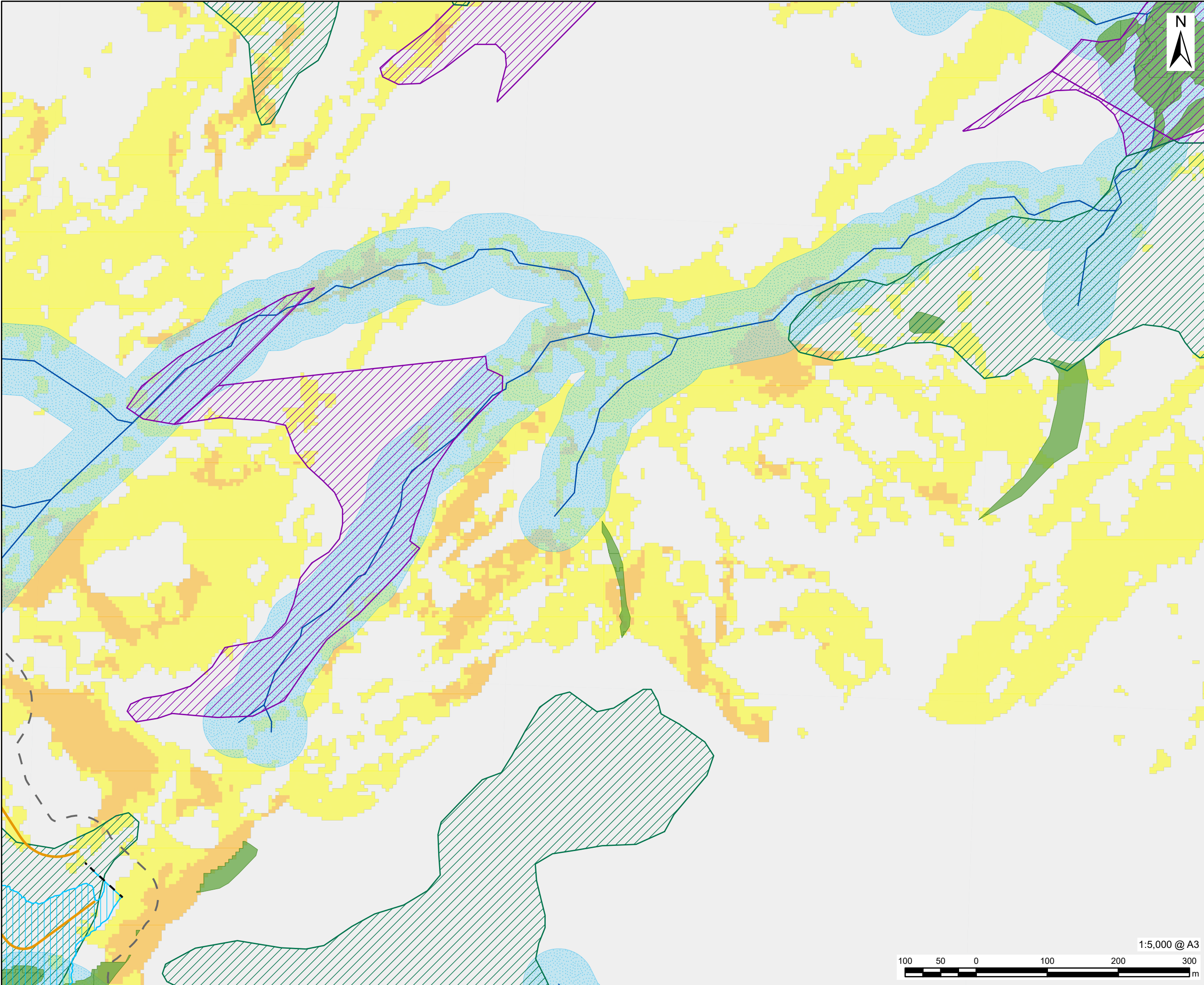
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Peat Slide Assessed Hazard

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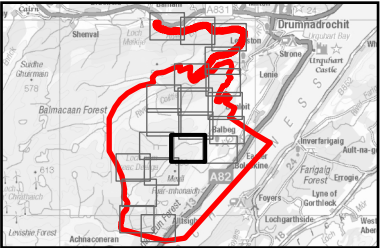
FIGURE TITLE
Risk Mapping

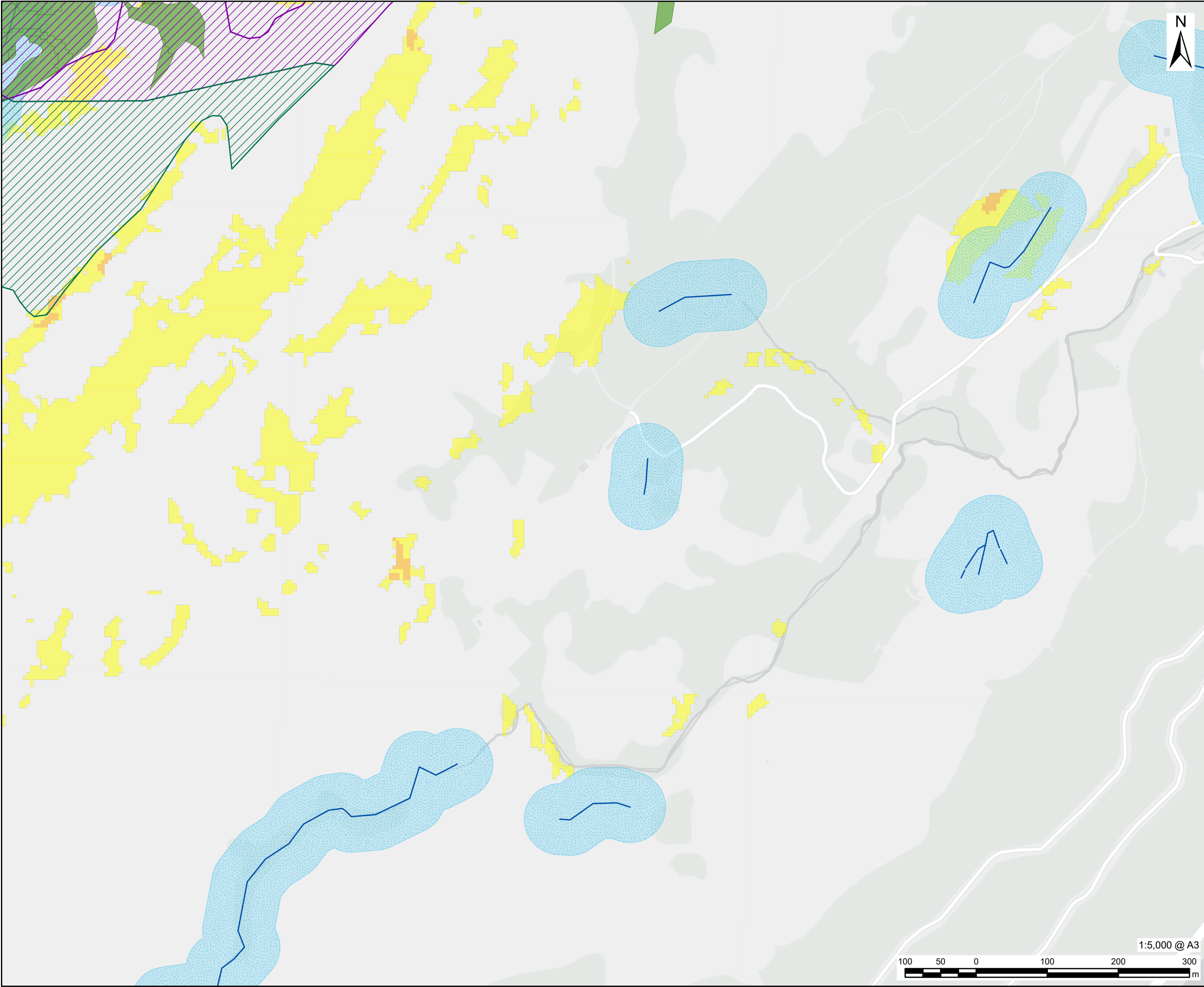
FIGURE NUMBER
Figure 15.3.13

1:5,000 @ A3

100 50 0 100 200 300 m

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Carbon & Peatland 2016

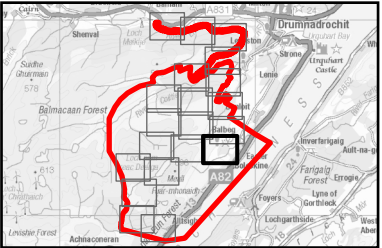
Class 1

Class 2

Peat Slide Assessed Hazard

Likely

Probable



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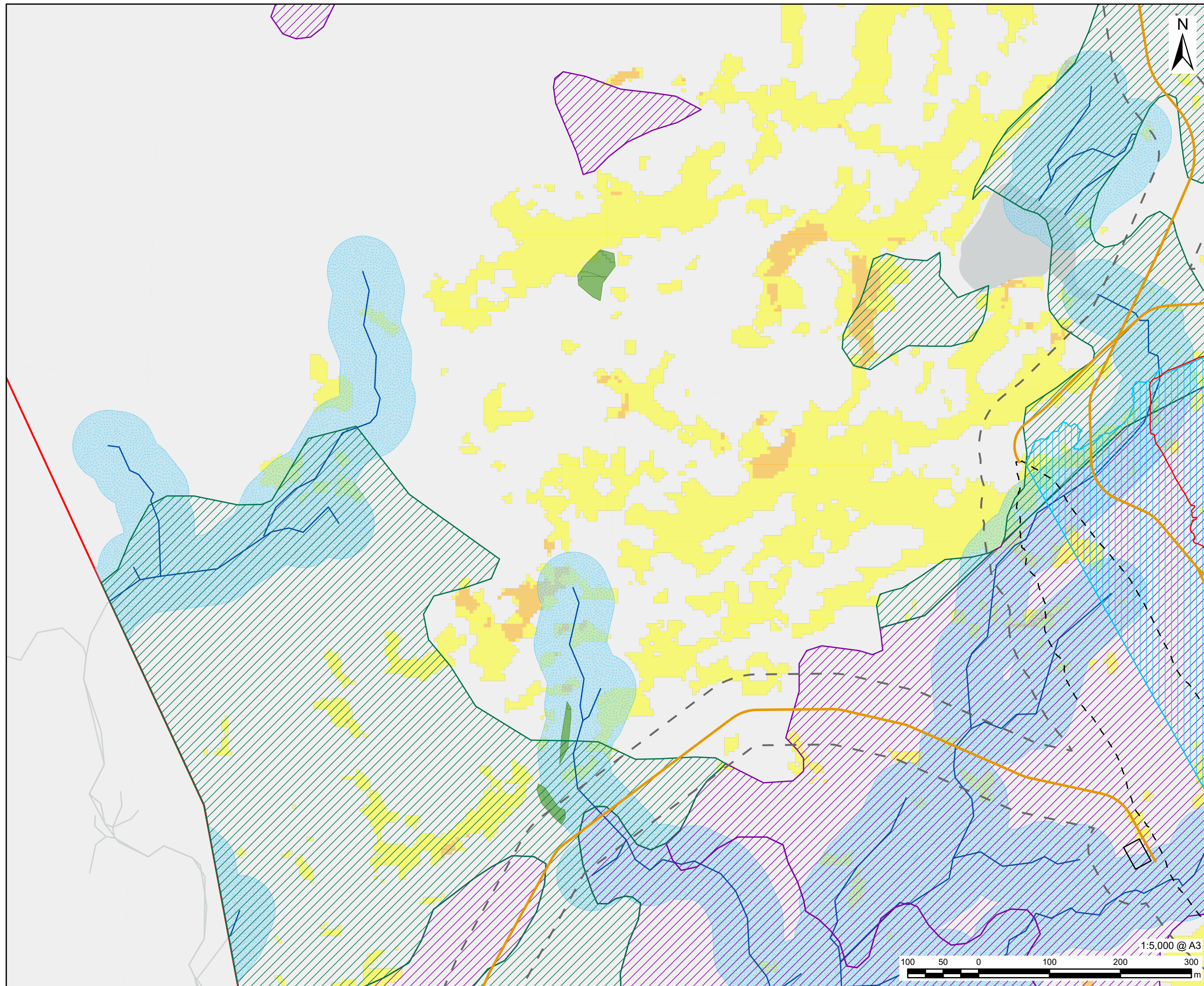
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FIGURE TITLE

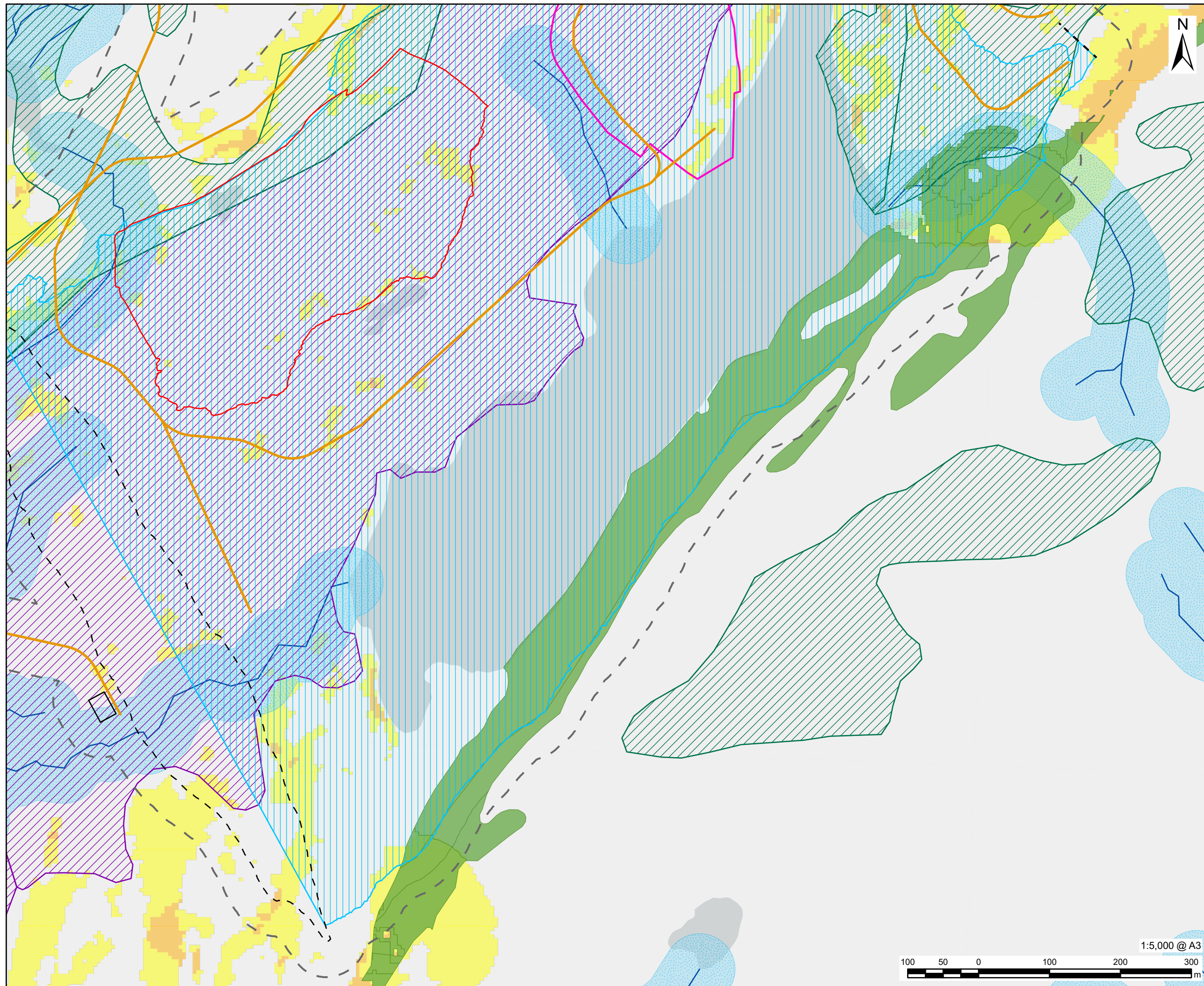
Risk Mapping

FIGURE NUMBER

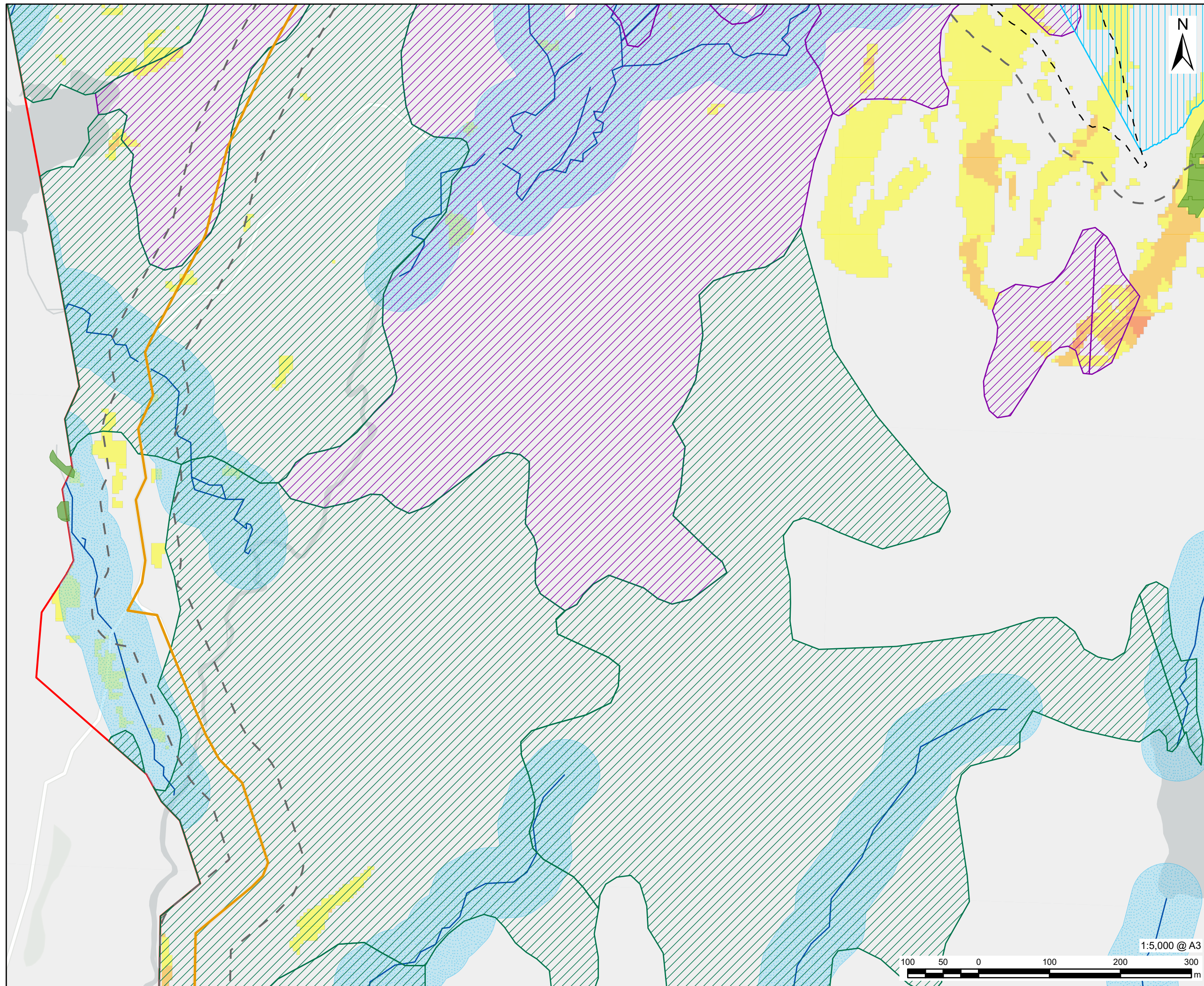
Figure 15.3.13



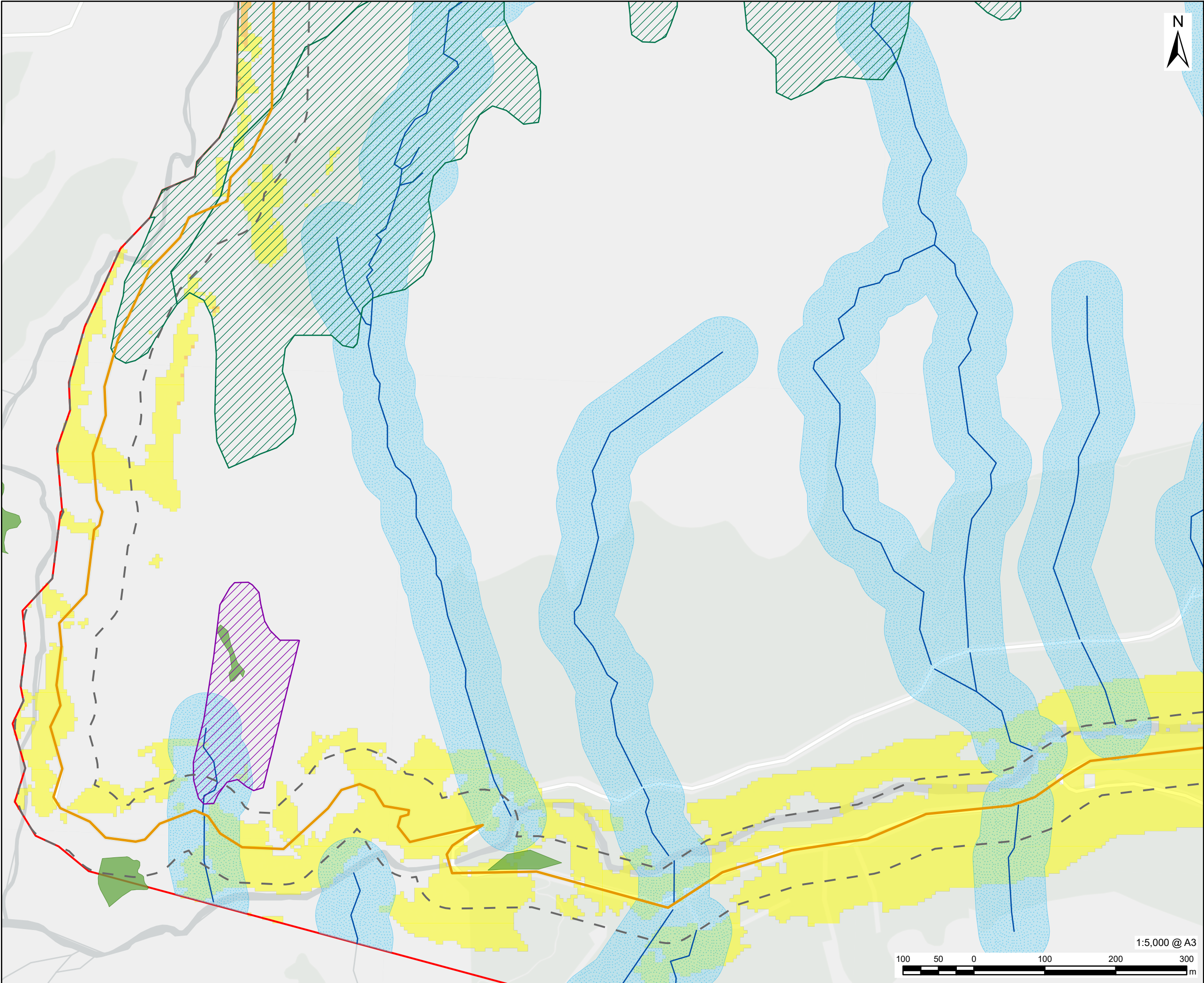
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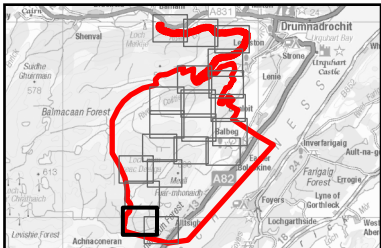
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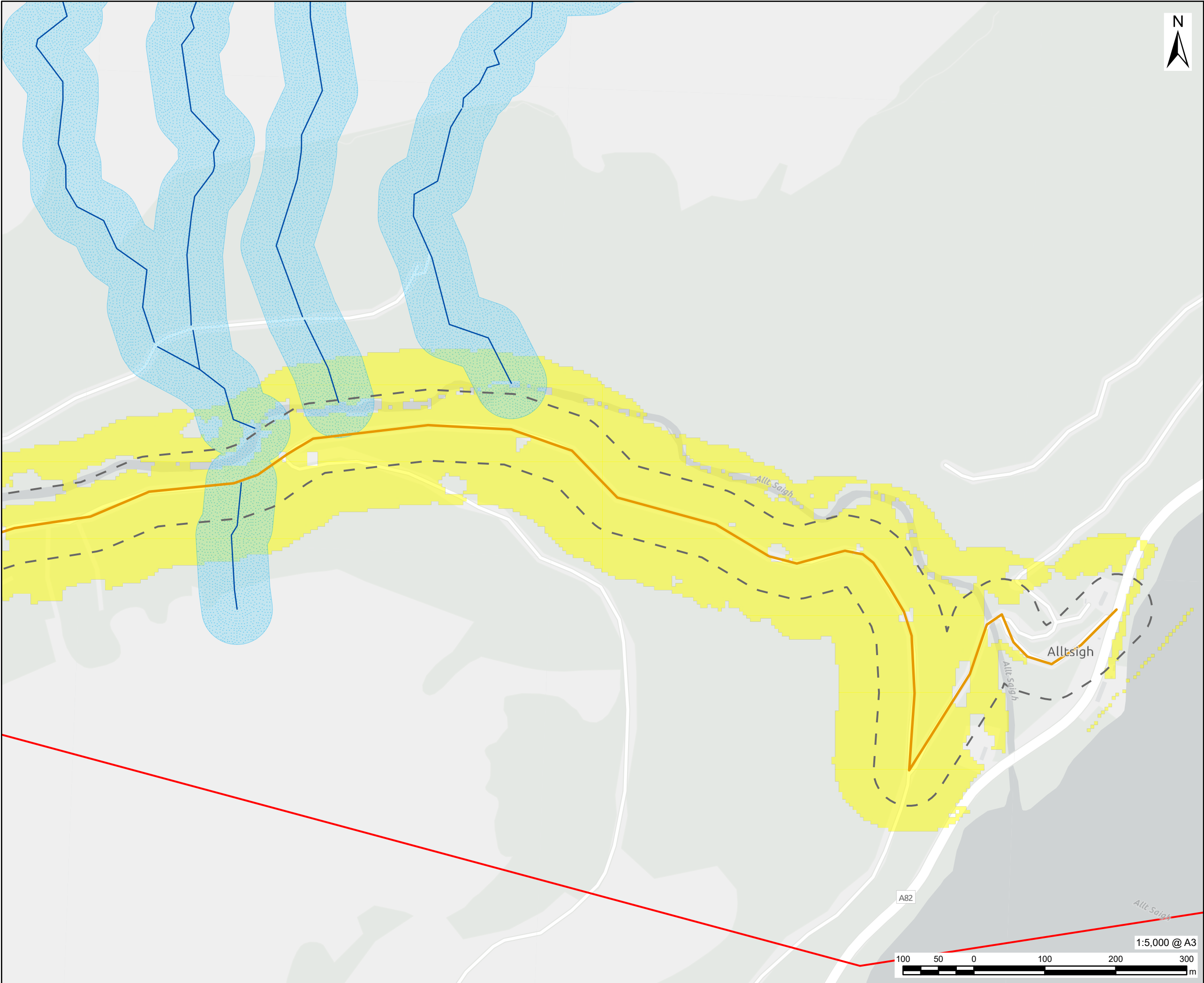
Risk Mapping

FIGURE NUMBER

Figure 15.3.13

Page 19 of 20

1:5,000 @ A3
100 50 0 100 200 300 m



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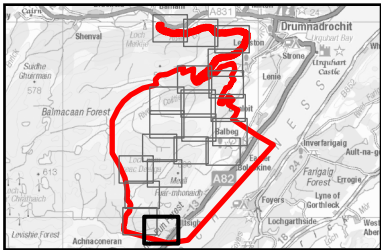
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