

**Legend**

- Site Boundary
- Proposed Infrastructure
  - Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbines
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded
- BARR GROUP
  - BENAN CONGLOMERATE FORMATION - Conglomerate / Sandstone
- BARRHILL GROUP
  - BLACKCRAIG FORMATION - Wacke
  - KIRKCOLM FORMATION - Wacke
- CLACKMANNAN GROUP
  - Limestone
- INVERCLYDE GROUP
  - Sandstone
- LANARK GROUP
  - CARRICK VOLCANIC FORMATION - Basalt and Basaltic Andesite
  - DUNEATON VOLCANIC FORMATION - Basaltic-Andesite (TAS)
  - DUNEATON VOLCANIC FORMATION - Tuff
  - DUNEATON VOLCANIC FORMATION - Volcaniclastic - Sandstone and Volcaniclastic-Breccia
  - GREYWACKE CONGLOMERATE FORMATION - Conglomerate / Sandstone
  - SWANSHAW SANDSTONE FORMATION - Conglomerate / Sandstone
- MIDLAND VALLEY SILURO-DEVONIAN FELSIC INTRUSION SUITE
  - Andesitic-rock / Dacitic-rock
- NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE
  - Microdiorite, Porphyritic
- TAPPINS GROUP
  - Chert
  - Wacke
- NO PARENT
  - Unnamed igneous intrusion, late silurian to early devonian - microgabbro

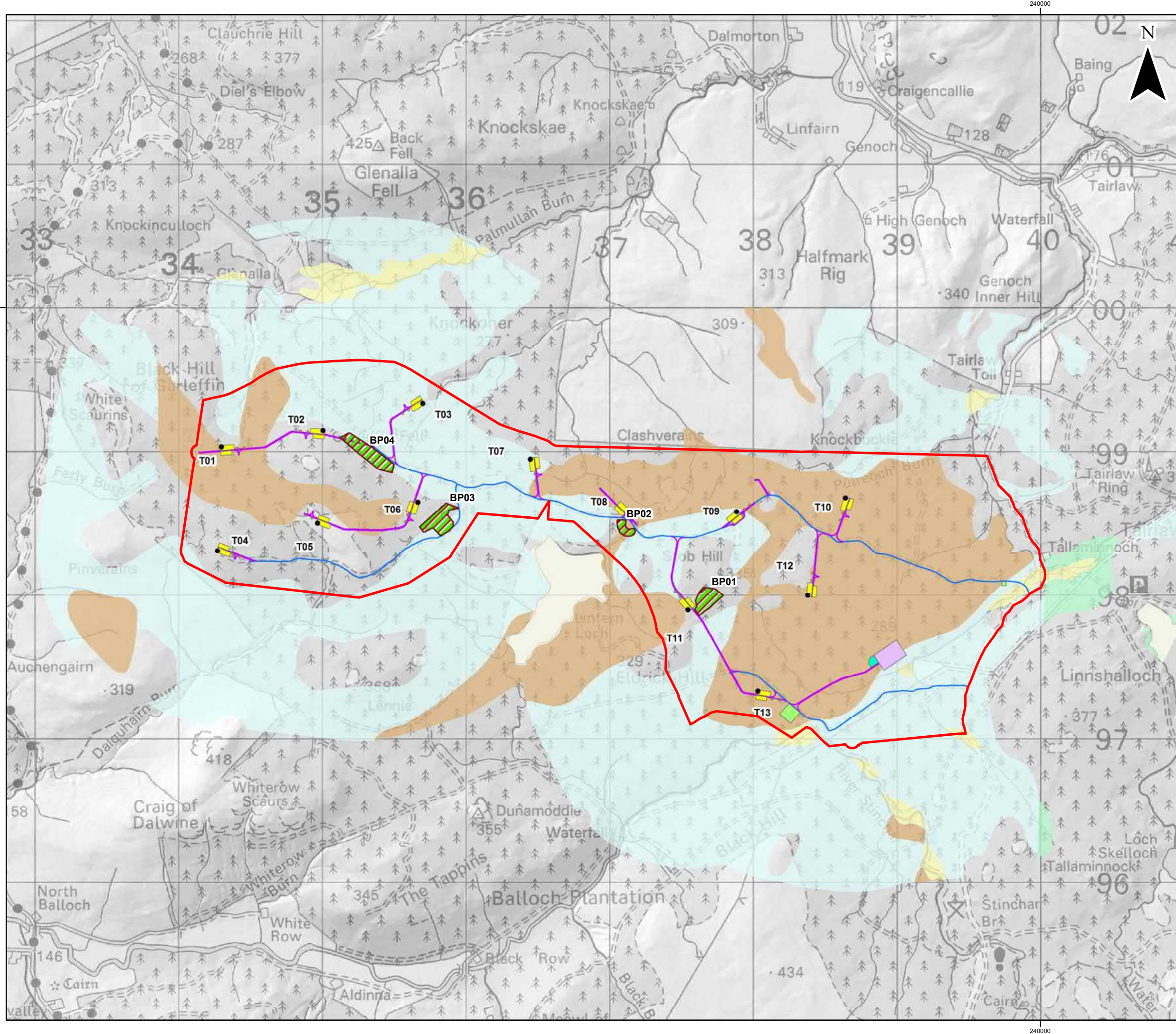
Linear features 1:50,000 scale  
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**Carrick Windfarm**  
 Figure 6.1.1: Bedrock Geology

Drg No	CARRICK-WSP-I-176
Rev	C
Date	04/11/2021
Scale	1:25,000 @ A3



**Legend**

- Site Boundary
- Proposed Infrastructure**

  - Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbine
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded

- Superficial Geology (1:50,000)**

  - ALLUVIUM**

    - Clay, silt, sand and gravel

  - HUMMOCKY (MOUNDY) GLACIAL DEPOSITS**

    - Devensian - Diamicton

  - RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)**

    - Gravel, sand, silt and clay

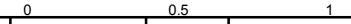
  - TILL**

    - Diamicton / Devensian

  - PEAT**

    - Peat

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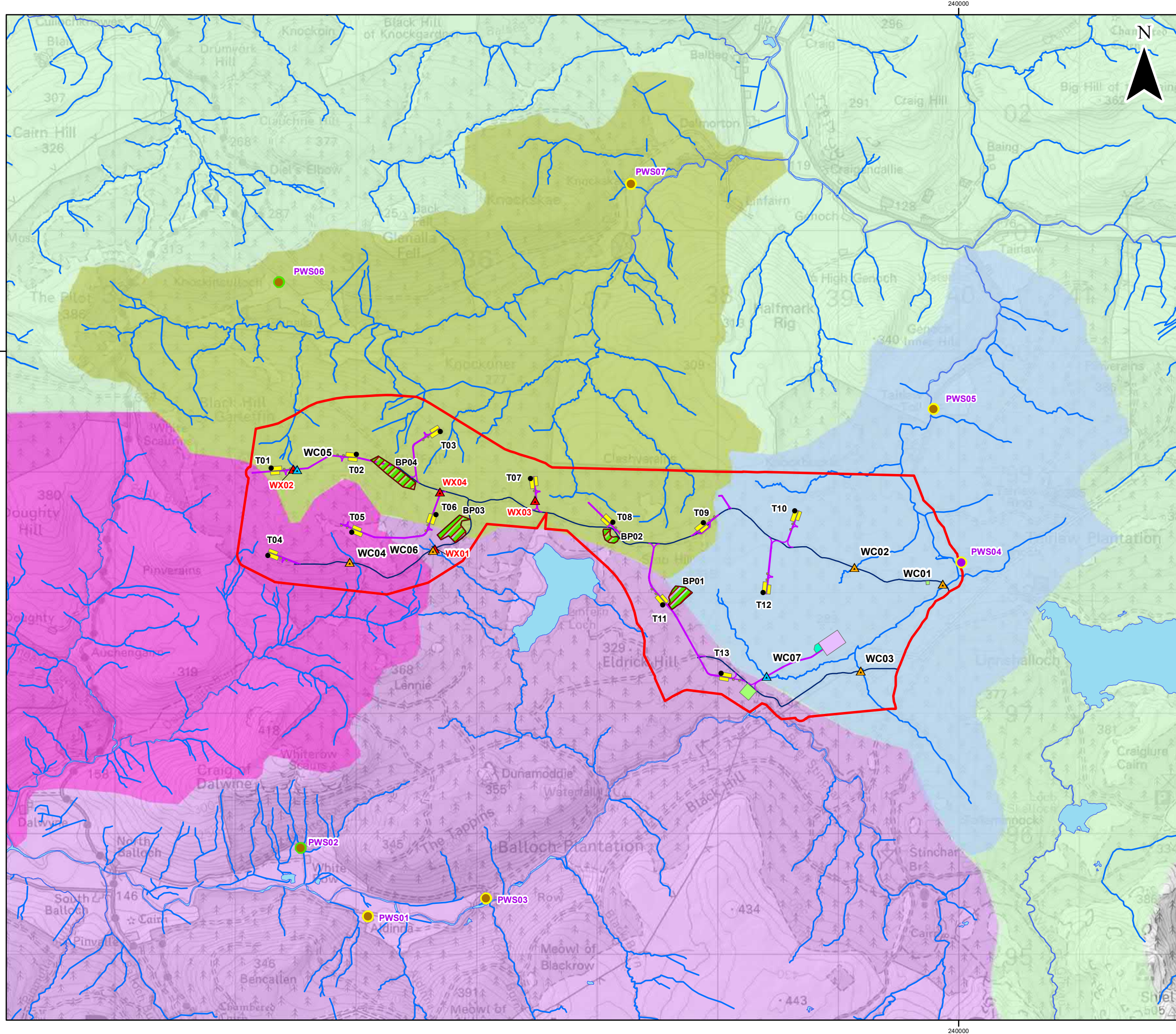


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A	26/10/2020	VK	First Issue.



**Carrick Windfarm**  
 Figure 6.1.2: Superficial Geology

<b>Drg No</b>	CARRICK-WSP-I-177
<b>Rev</b>	C
<b>Date</b>	05/11/2021
<b>Scale</b>	1:25,000 @ A3



### Legend

- Site Boundary
- Proposed Infrastructure**
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing Forestry Track to be Upgraded
- Hydrology**
- ▲ Controlled Activities Regulation Crossing - Existing Crossing
- ▲ Controlled Activities Regulation Crossing - New Crossing
- ▲ Non-Controlled Activities Regulation Crossing - Existing Crossing
- Private Water Supply Sources (Type A)
- Private Water Supply Sources (Type B)
- Private Water Supply (information provided by South Ayrshire Council)
- Private Water Supply Source (verified by consultation or site visit)
- River Catchments**
- Tairlaw Burn (Subcatchment of Water of Girvan)
- Palmullan Burn (Subcatchment of Water of Girvan)
- Dalquhairn Burn (Subcatchment of River Stinchar)
- Water of Girvan
- River Stinchar
- OS Watercourse (1:10,000)
- OS Water Body (1:10,000)

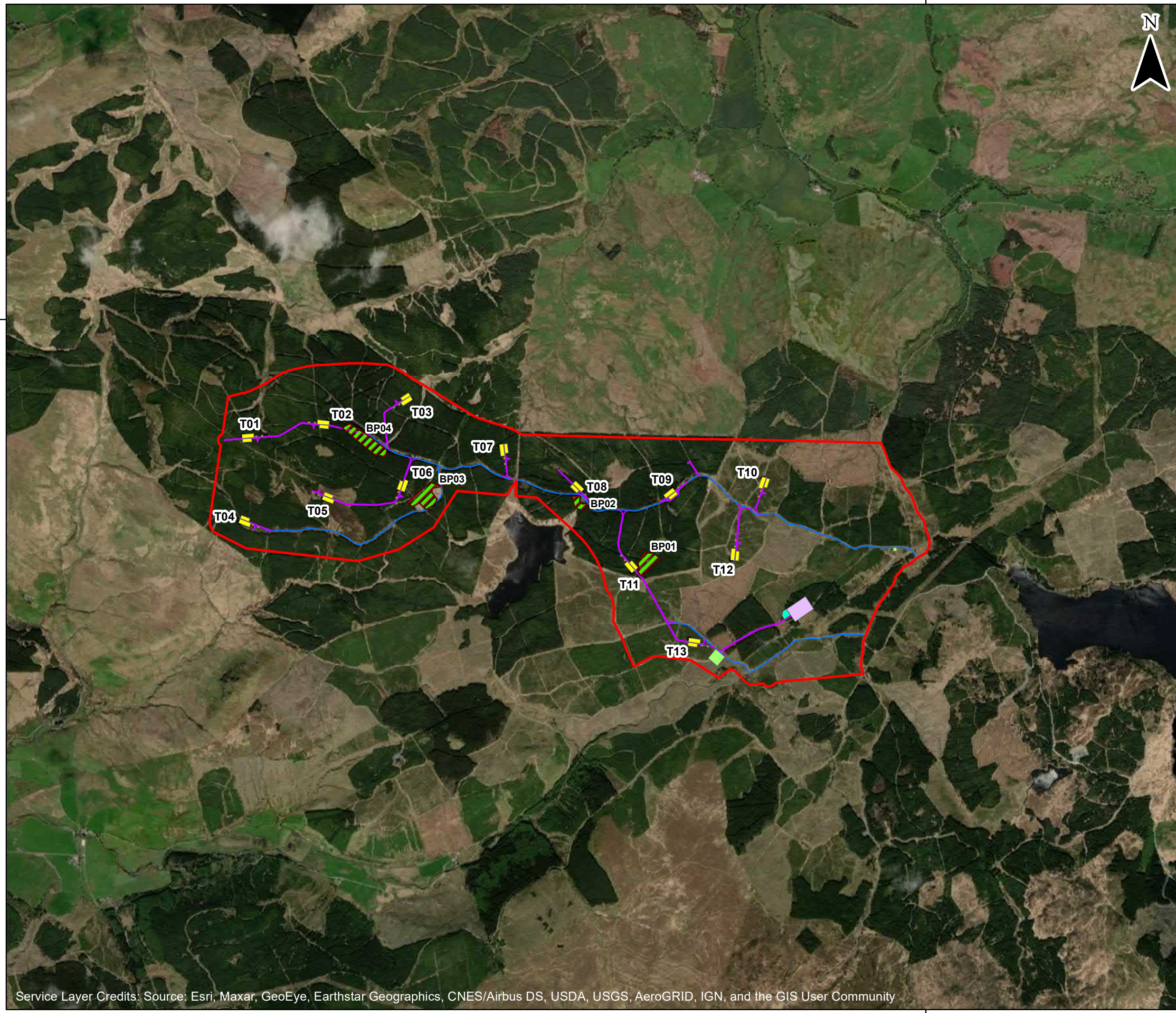
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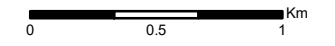
**Carrick Windfarm**  
Figure 6.1.3: Hydrology Overview

<b>Drg No</b>	CARRICK-WSP-I-178
<b>Rev</b>	C
<b>Date</b>	05/11/2021
<b>Scale</b>	1:30,000 @ A3



- Legend**
- Site Boundary
  - Proposed Infrastructure**
  - Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbine
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded

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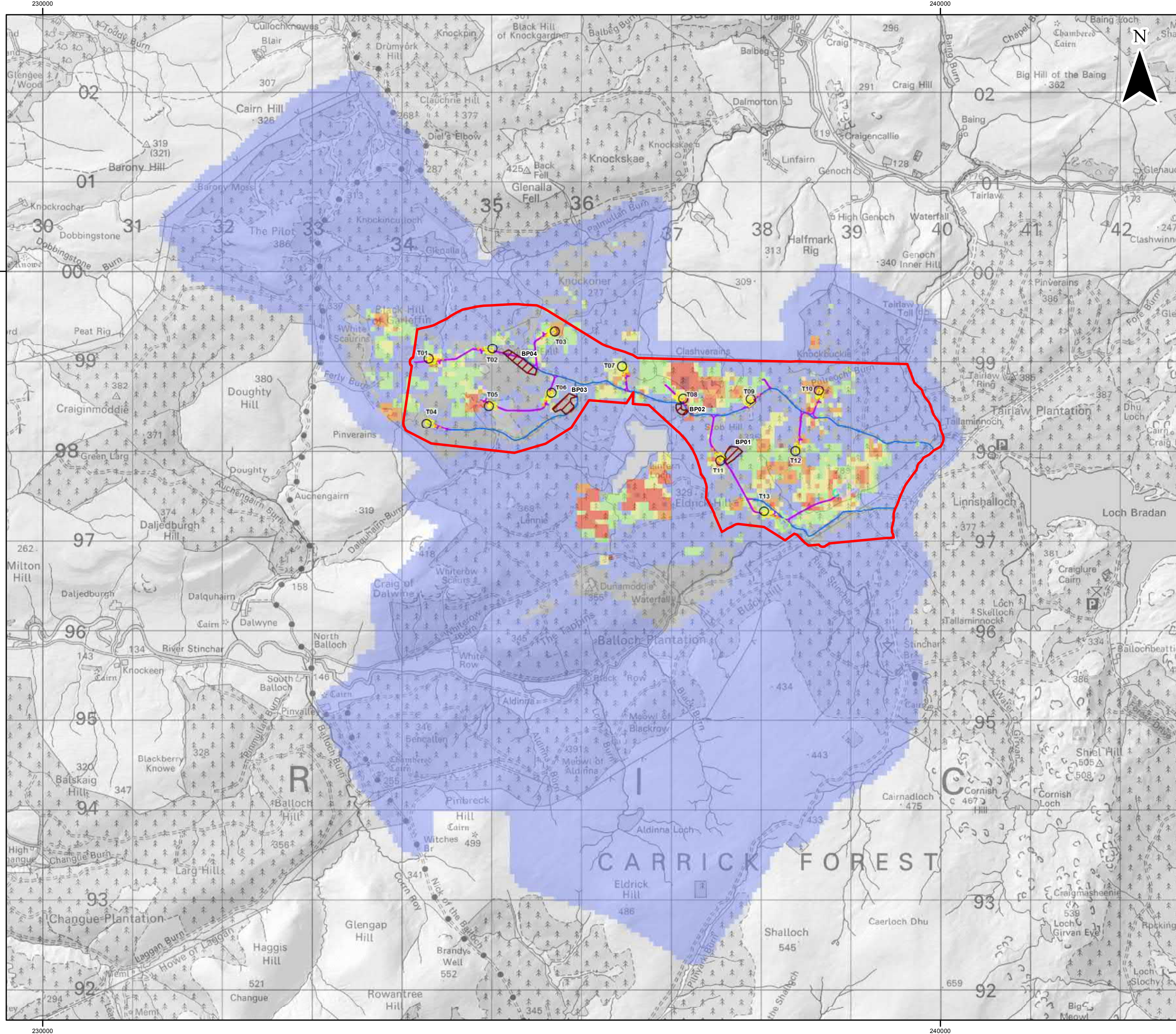


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C	25/10/2021	GC	Third Issue.
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A	21/10/2020	VK	First Issue.



**Carrick Windfarm**  
 Figure 6.1.4: Aerial Photography

<b>Drg No</b>	CARRICK-WSP-I-179
<b>Rev</b>	C
<b>Date</b>	25/10/2021
<b>Scale</b>	1:30,000 @ A3



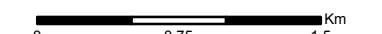
**Legend**

- Site Boundary
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing
- Forestry Track to be Upgraded

**Indicative Peat Depth Grid (m)**

- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 4.0
- 4.0+

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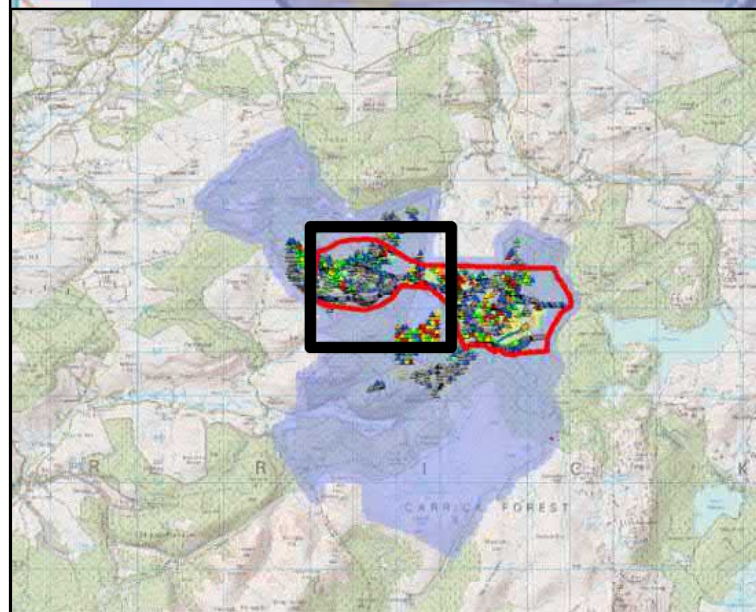
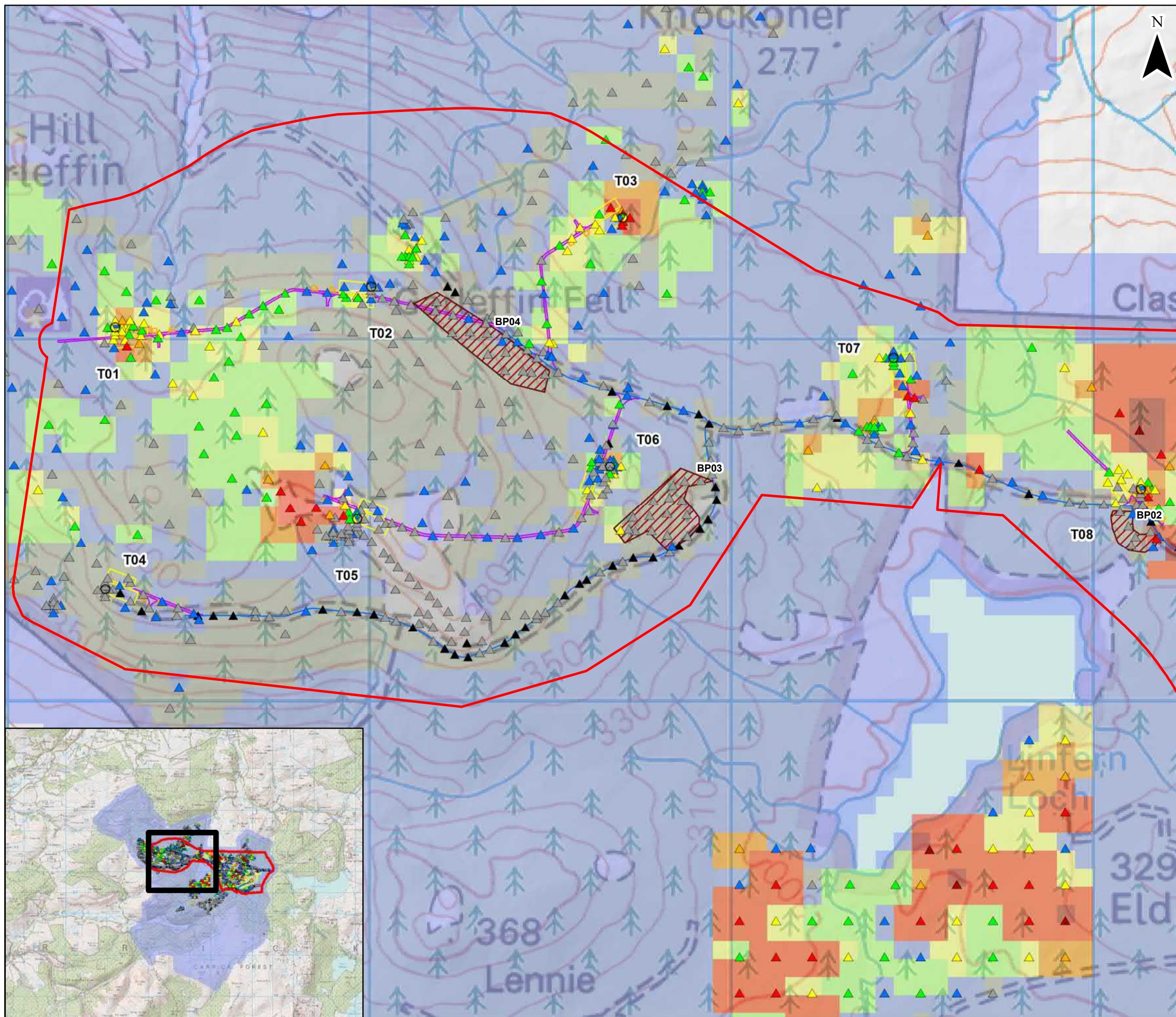


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**Carrick Windfarm**  
Figure 6.1.5: Peat Overview

<b>Drg No</b>	CARRICK-WSP-I-180
<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



**Legend**

- Site Boundary
- Proposed Infrastructure**
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing Forestry Track to be Upgraded

**Peat Depth (m)**

- ▲ 0.0
- ▲ 0.0 - 0.5
- ▲ 0.5 - 1.0
- ▲ 1.0 - 1.5
- ▲ 1.5 - 2.0
- ▲ 2.0 - 2.5
- ▲ 2.5 - 4.0
- ▲ 4.0+

**Indicative Peat Depth Grid (m)**

- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 4.0
- 4.0+

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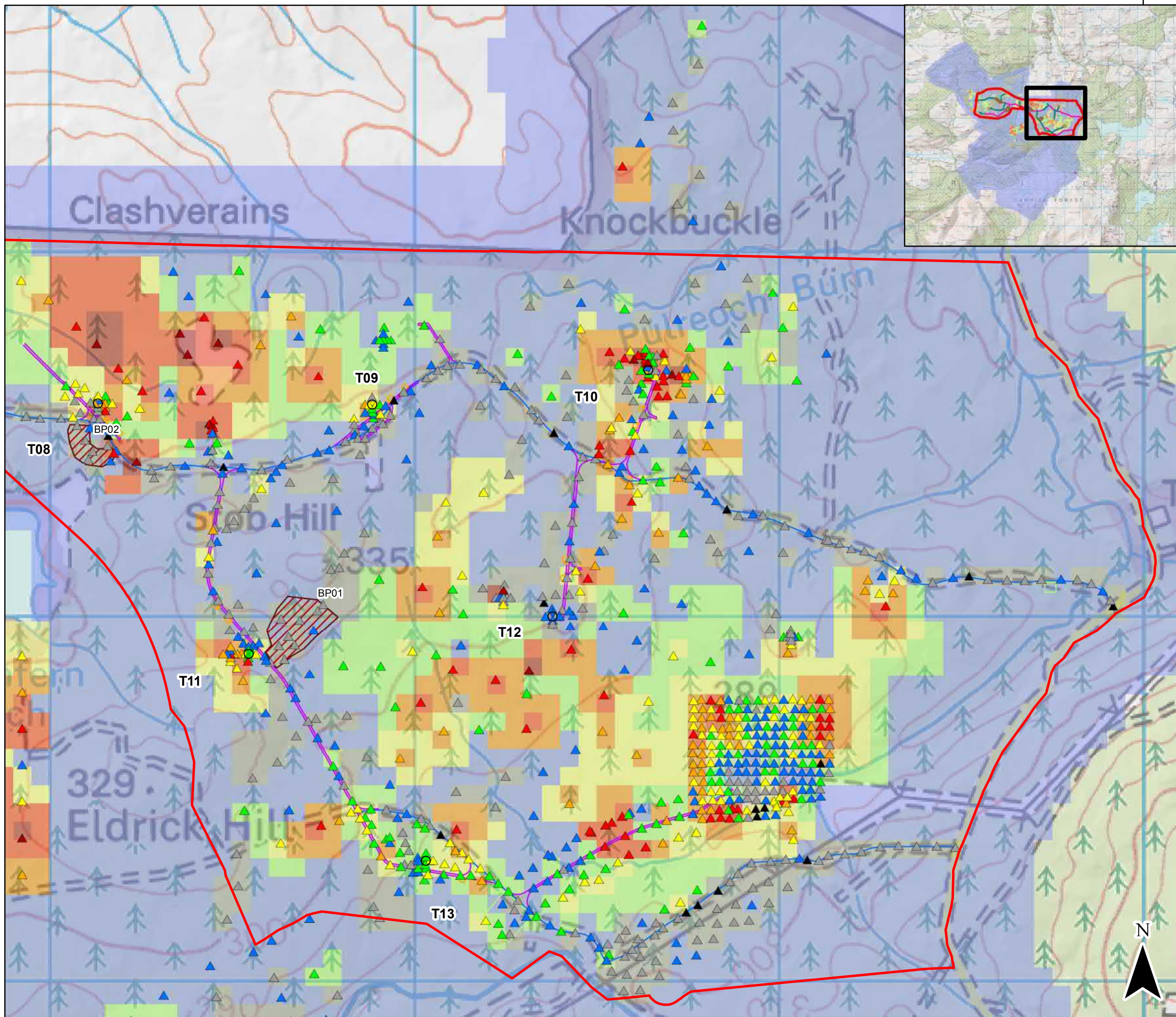
0 0.25 0.5 Km

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A	26/10/2020	VK	First Issue.



**Carrick Windfarm**  
Figure 6.1.5a: Peat Detail (Western)

<b>Drg No</b>	CARRICK-WSP-I-181
<b>Rev</b>	C
<b>Date</b>	02/11/2021
<b>Scale</b>	1:10,000 @ A3



240000

240000

**Legend**

- Site Boundary
- Proposed Infrastructure**
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbines
- Carrick Access Track - New Construction
- Carrick Access Track - Existing Forestry Track to be Upgraded

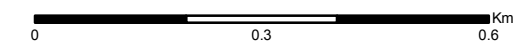
**Peat Depth (m)**

- ▲ 0.0
- ▲ 0.0 - 0.5
- ▲ 0.5 - 1.0
- ▲ 1.0 - 1.5
- ▲ 1.5 - 2.0
- ▲ 2.0 - 2.5
- ▲ 2.5 - 4.0
- ▲ 4.0+

**Indicative Peat Depth Grid (m)**

- 0.0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 2.5
- 2.5 - 4.0
- 4.0+

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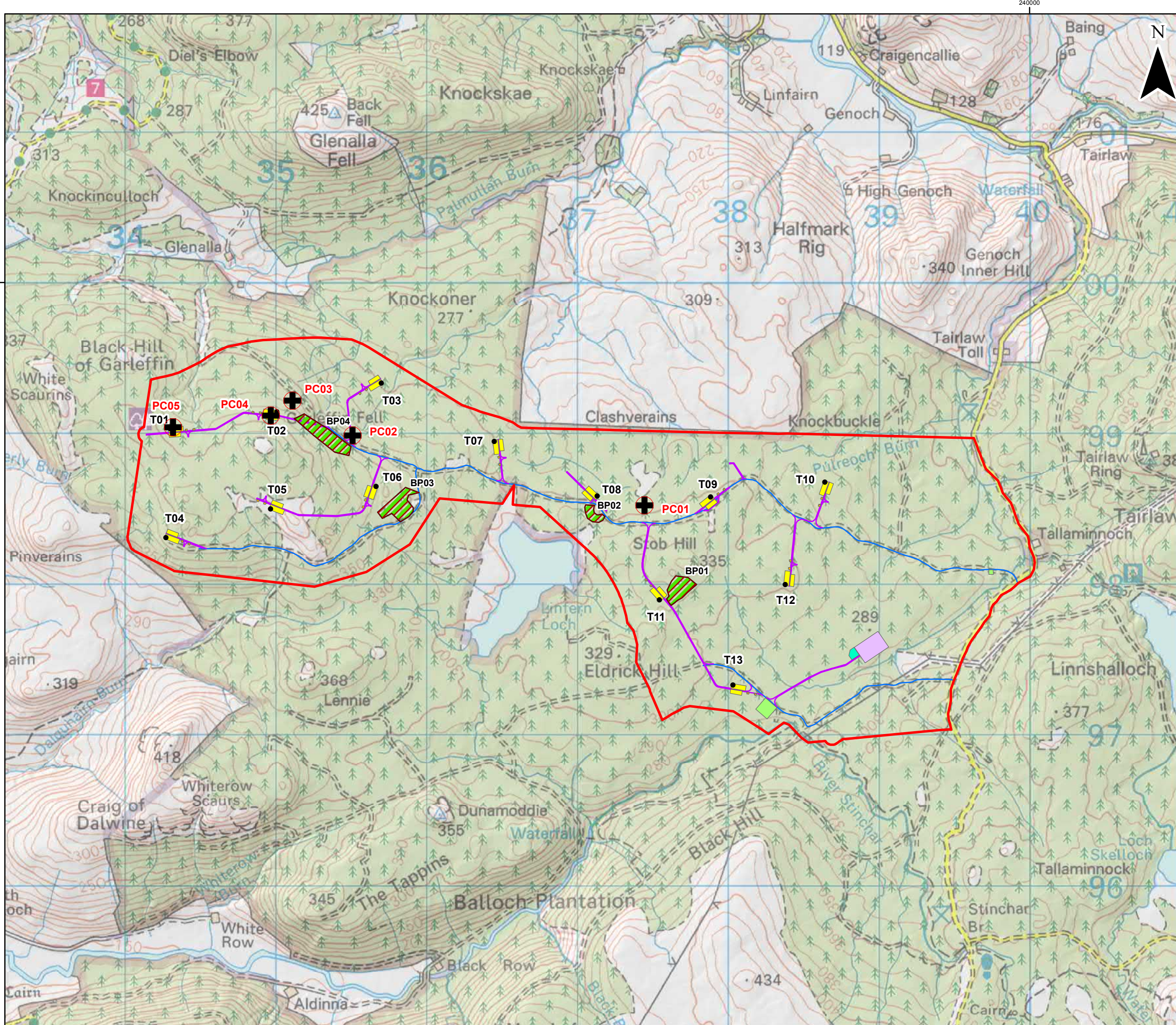
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**Carrick Windfarm**  
Figure 6.1.5b: Peat Detail (Eastern)

<b>Drg No</b>	CARRICK-WSP-I-182
<b>Rev</b>	C
<b>Date</b>	02/11/2021
<b>Scale</b>	1:10,000 @ A3





**Legend**

- Peat Core Location
- Site Boundary
- Proposed Infrastructure**
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing Forestry Track to be Upgraded

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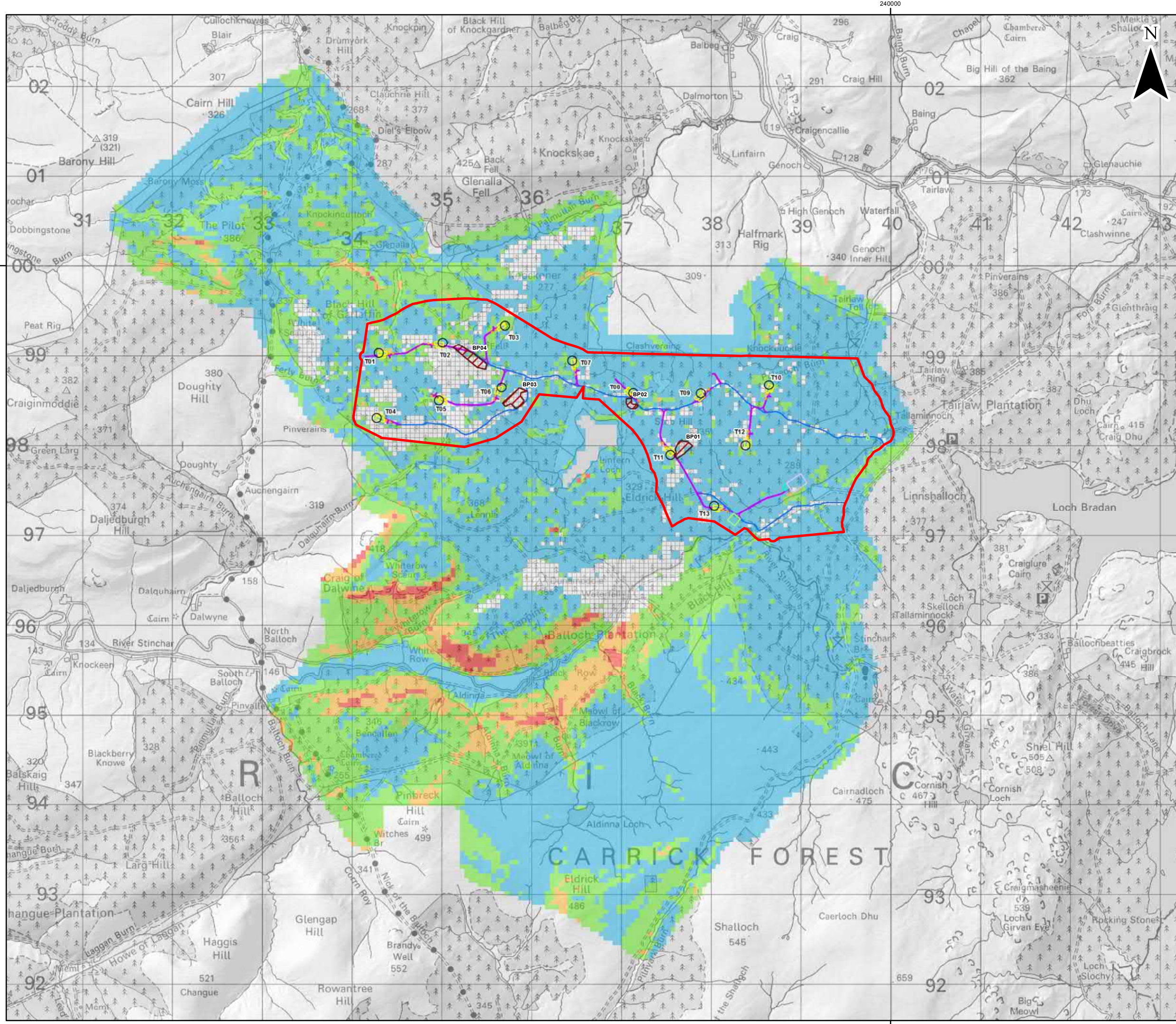
Rev	Date	By	Comment
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A	03/12/2020	MS	First Issue.



**Carrick Windfarm**  
 Figure 6.1.6: Peat Core Locations

<b>Drg No</b>	CARRICK-WSP-I-197
<b>Rev</b>	B
<b>Date</b>	04/11/2021
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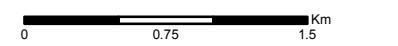




- Legend**
- Site Boundary
  - Proposed Infrastructure**
  - Substation Compound
  - Temporary Construction Compound
  - Hardstanding
  - Crane Pad
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbines
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded

- Factor of Safety (FoS)**
- Grid FoS**
- No Peat
  - <1
  - 1 - 1.4
  - 1.4 - 3
  - ≥3

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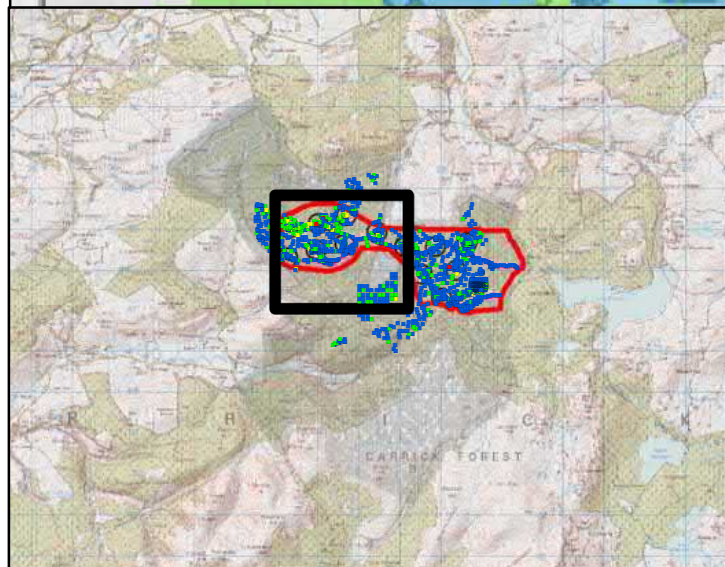
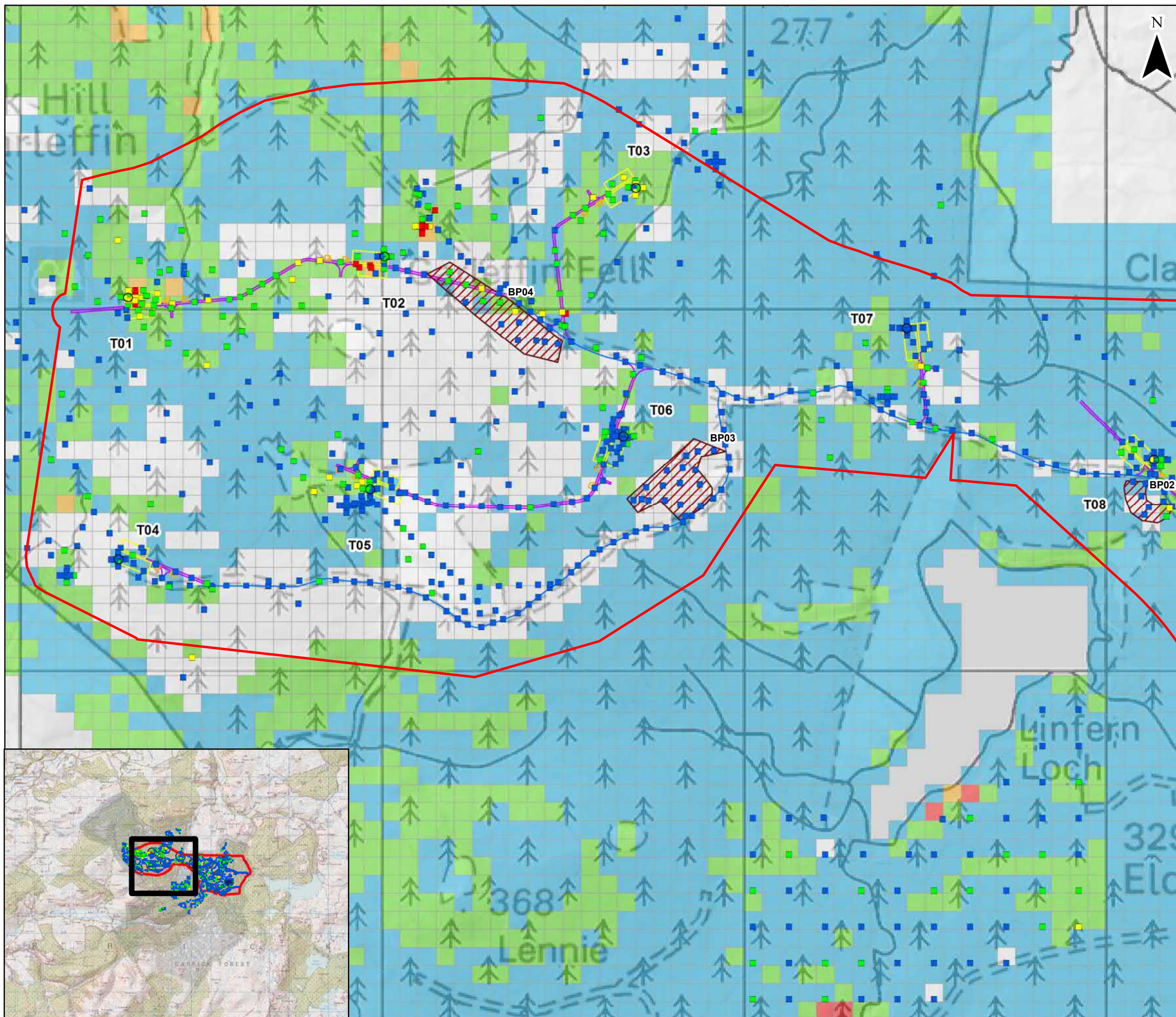


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**Carrick Windfarm**  
 Figure 6.1.7: Factor of Safety Overview

<b>Drg No</b>	CARRICK-WSP-I-184
<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



**Legend**

- Site Boundary
- Proposed Infrastructure**

  - Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbines
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing
  - Forestry Track to be Upgraded

- Factor of Safety (FoS)**
- Point FoS**

  - $\geq 3$
  - 1.4 - 3.0
  - 1.0 - 1.4
  - $< 1$

- Grid FoS**

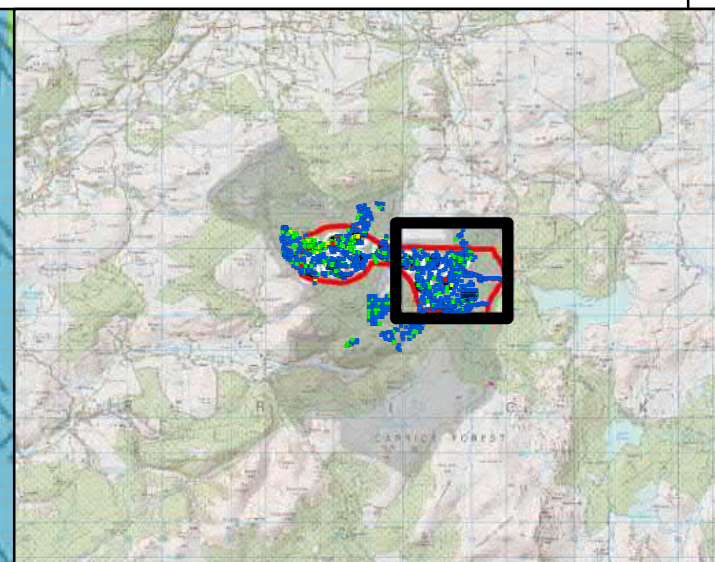
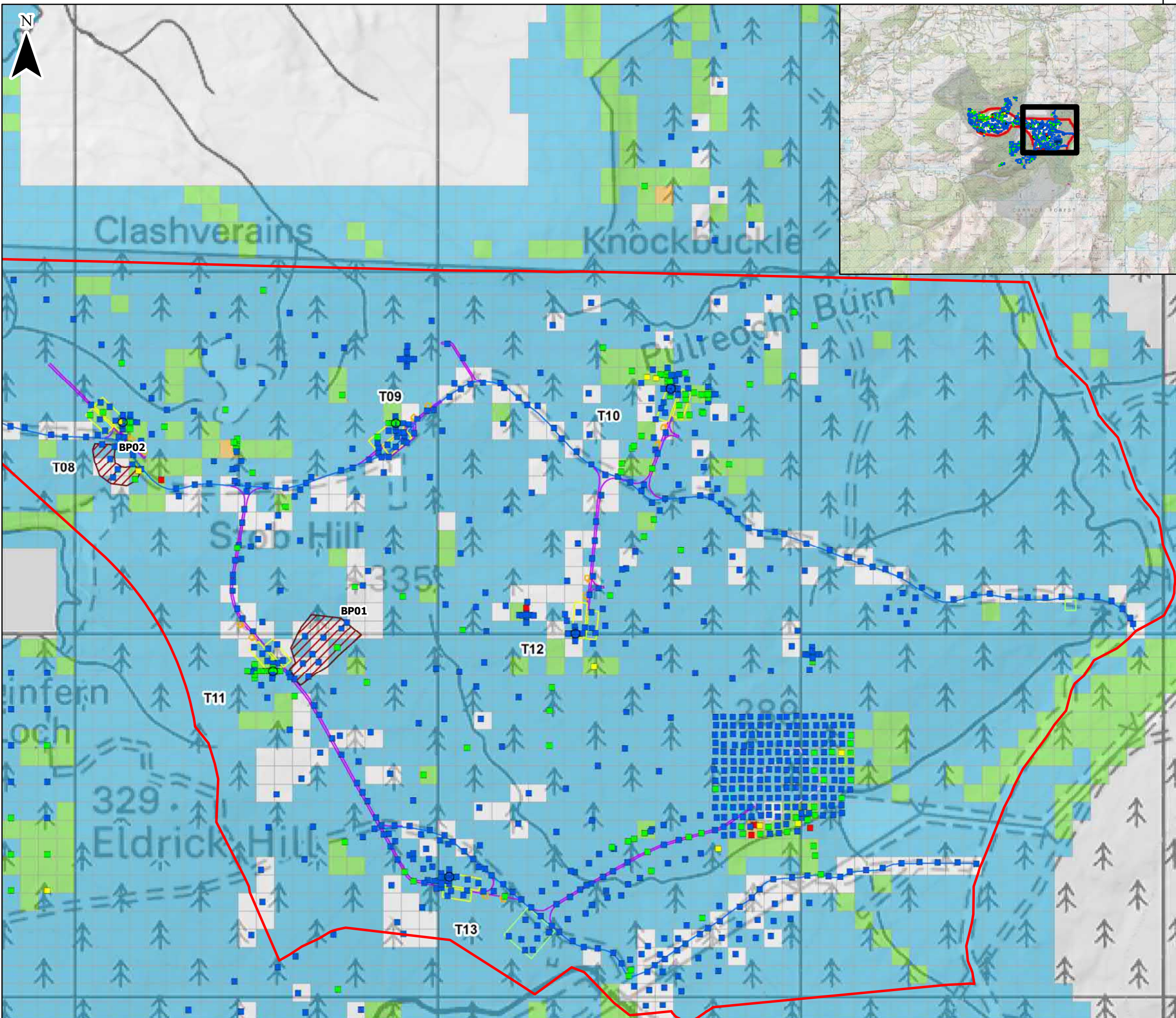
  - No Peat
  - $< 1$
  - 1 - 1.4
  - 1.4 - 3
  - $\geq 3$

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**Carrick Windfarm**  
Figure 6.1.7a: Factor of Safety Detail (Western)

<b>Drg No</b>	CARRICK-WSP-I-185
<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:10,000 @ A3



**Legend**

- Site Boundary
- Proposed Infrastructure**
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing Forestry Track to be Upgraded

**Factor of Safety (FoS)**

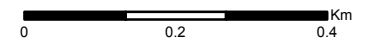
**Point FoS**

- ≥ 3
- 1.4 - 3.0
- 1.0 - 1.4
- < 1

**Grid FoS**

- No Peat
- < 1
- 1 - 1.4
- 1.4 - 3
- ≥ 3

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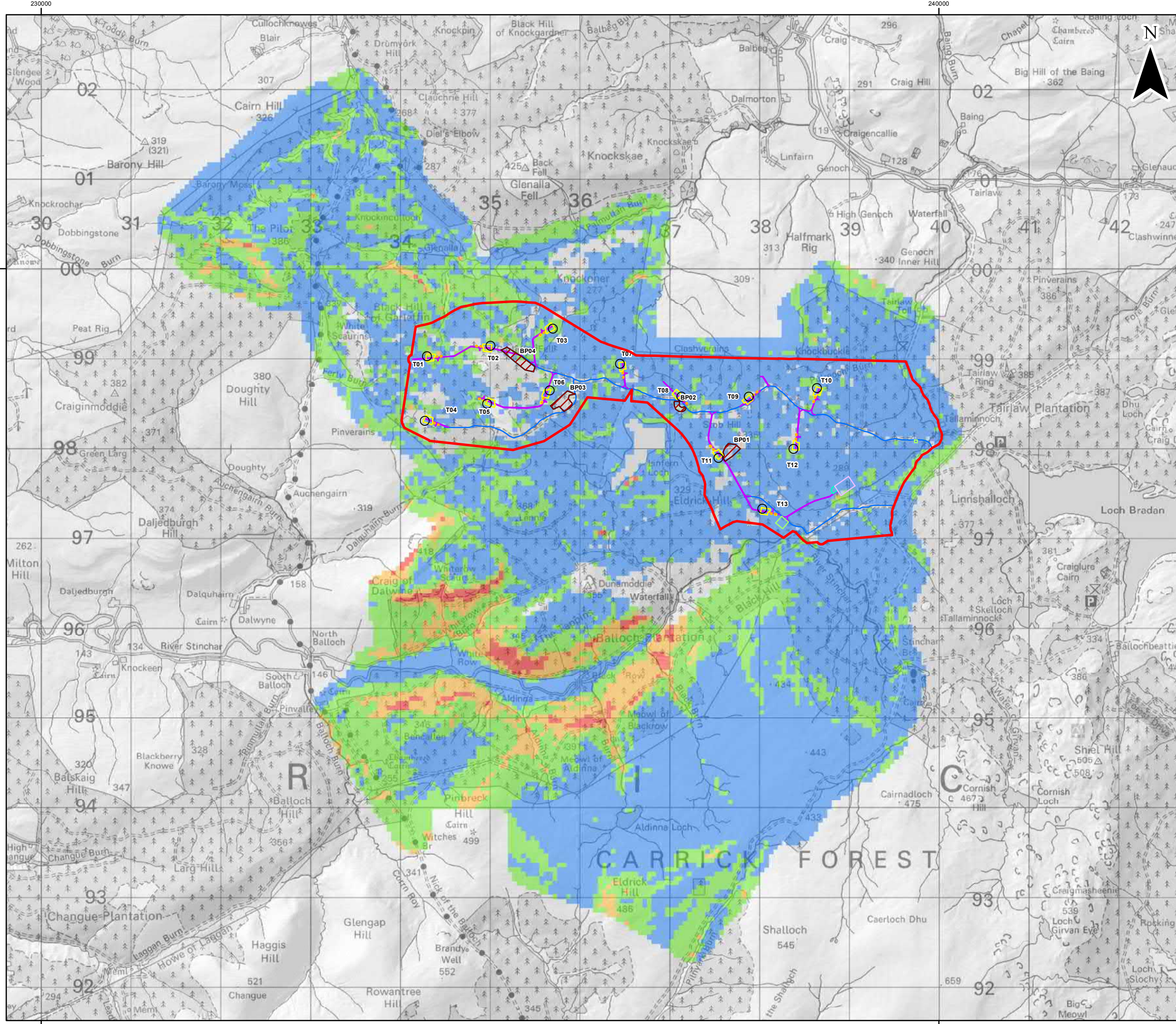


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**Carrick Windfarm**  
Figure 6.1.7b: Factor of Safety Detail (Eastern)

<b>Drg No</b>	CARRICK-WSP-I-186
<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:10,000 @ A3



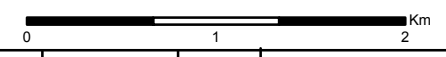
**Legend**

- Site Boundary
- Proposed Infrastructure**
- Substation Compound
- Temporary Construction compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing
- Forestry Track to be Upgraded

**Initial Likelihood**

- N/A - Not Peat
- Negligible
- Unlikely
- Likely
- Probable

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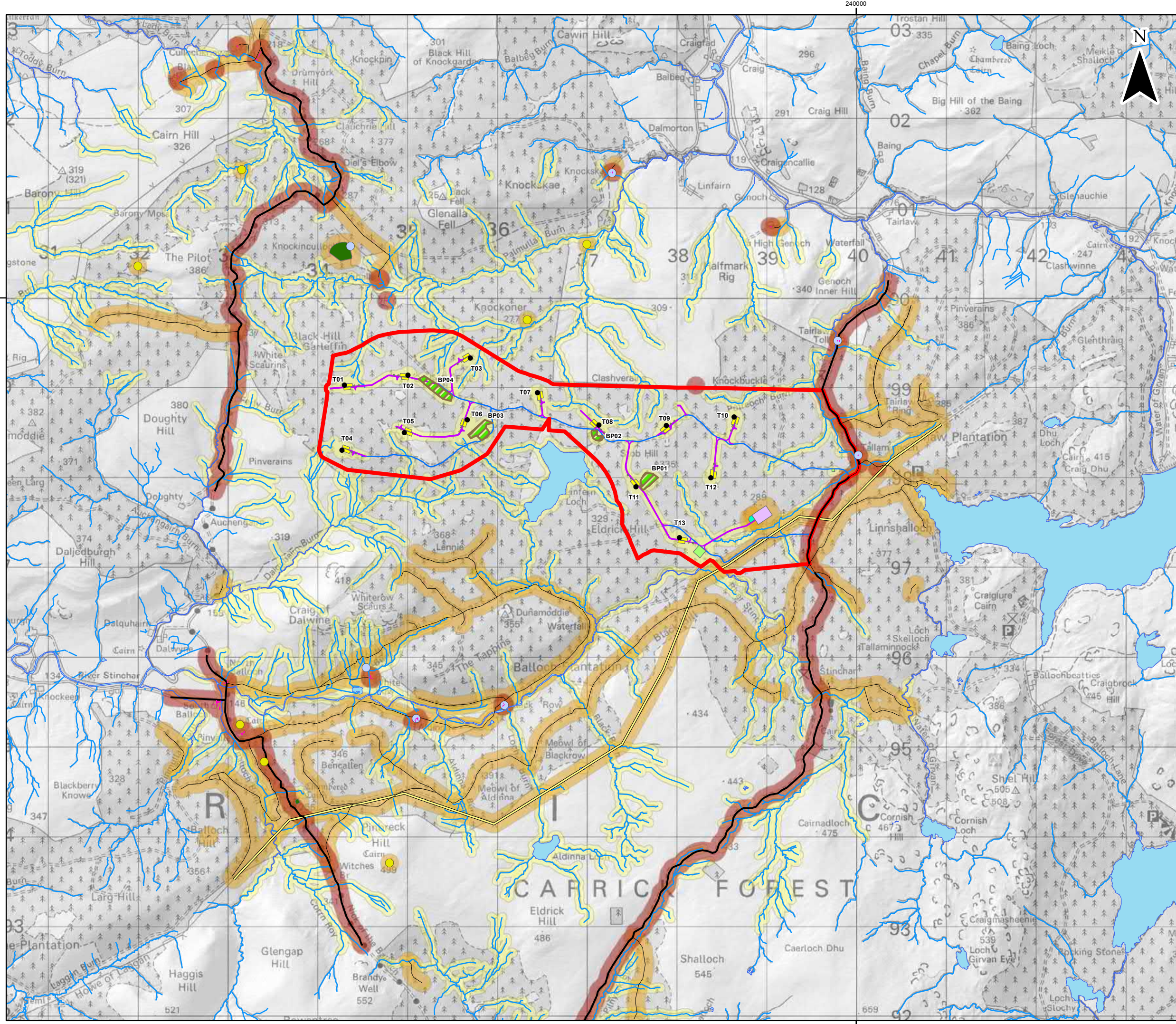


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A	03/12/2020	MS	First Issue.



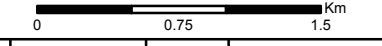
**Carrick Windfarm**  
Figure 6.1.8: Initial Likelihood

<b>Drg No</b>	CARRICK-WSP-I-188
<b>Rev</b>	B
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



- Legend**
- Properties**
- Building
  - Private Water Supply Sources
- Archaeology**
- West of Scotland Archaeology Sites and Monuments
- Transport**
- Primary Road
  - Secondary Road
  - Site Boundary
  - Wind Turbine
- Proposed Infrastructure**
- Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded
  - Scheduled Monuments
- Overhead Line**
- Electrical Transmission Line
- Hydrology**
- OS Water Body (1:10,000)
  - OS Watercourse (1:10,000)
- Buffers**
- Extremely High Consequence Buffer
  - High Consequence Buffer
  - Moderate Consequence Buffer

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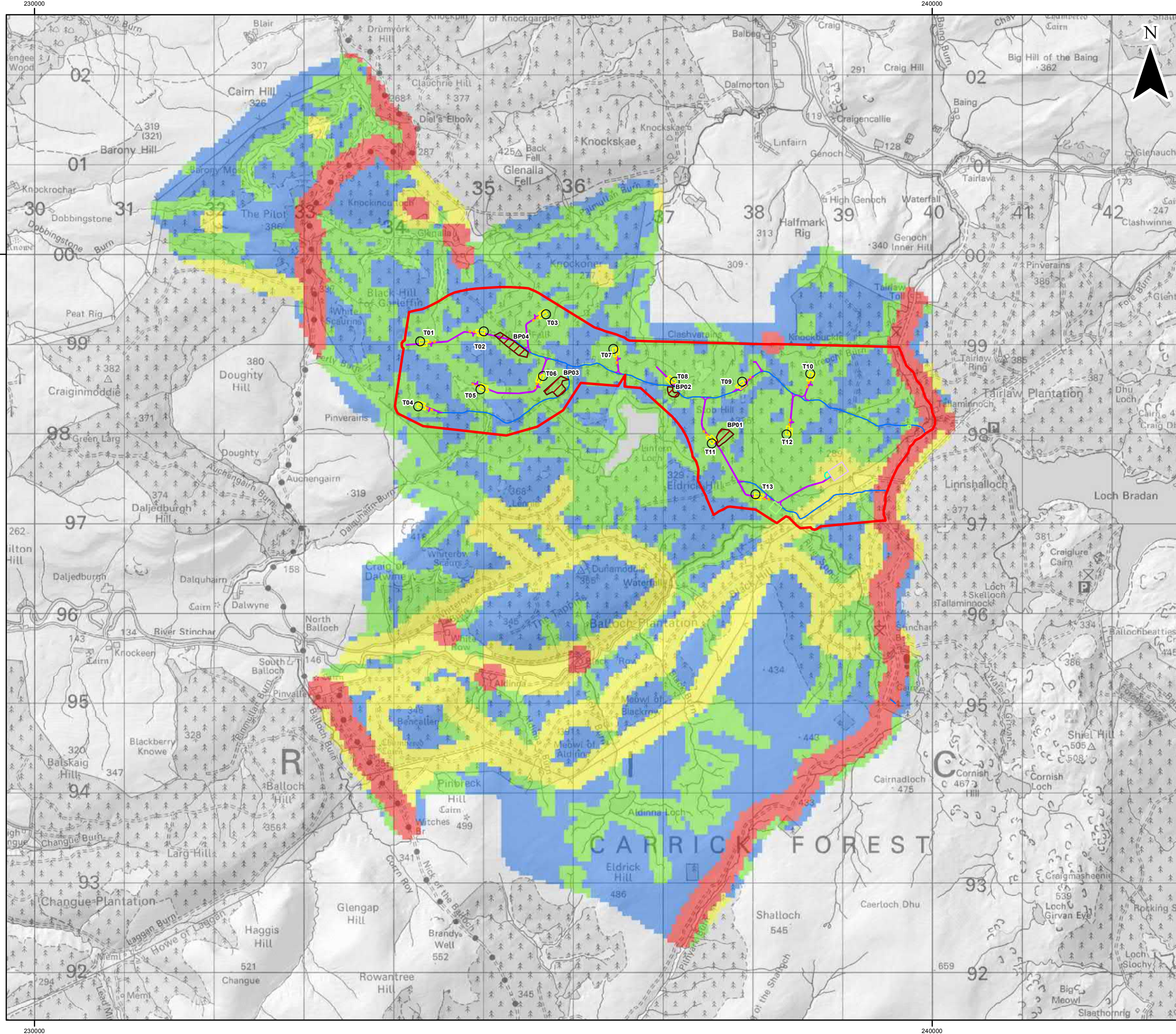


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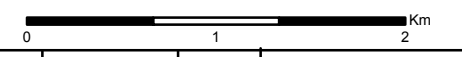
**Carrick Windfarm**  
Figure 6.1.9: Receptors

<b>Drg No</b>	Carrick-WSP-I-227
<b>Rev</b>	A
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



- Legend**
- Site Boundary
  - Proposed Infrastructure**
    - Substation Compound
    - Temporary Construction Compound
    - Crane Pad
    - Hardstanding
    - Temporary SPEN Construction Compound
    - Borrow Pit Search Area  - Wind Turbine
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded
- Consequence**
- Low
  - Moderate
  - High
  - Extremely High

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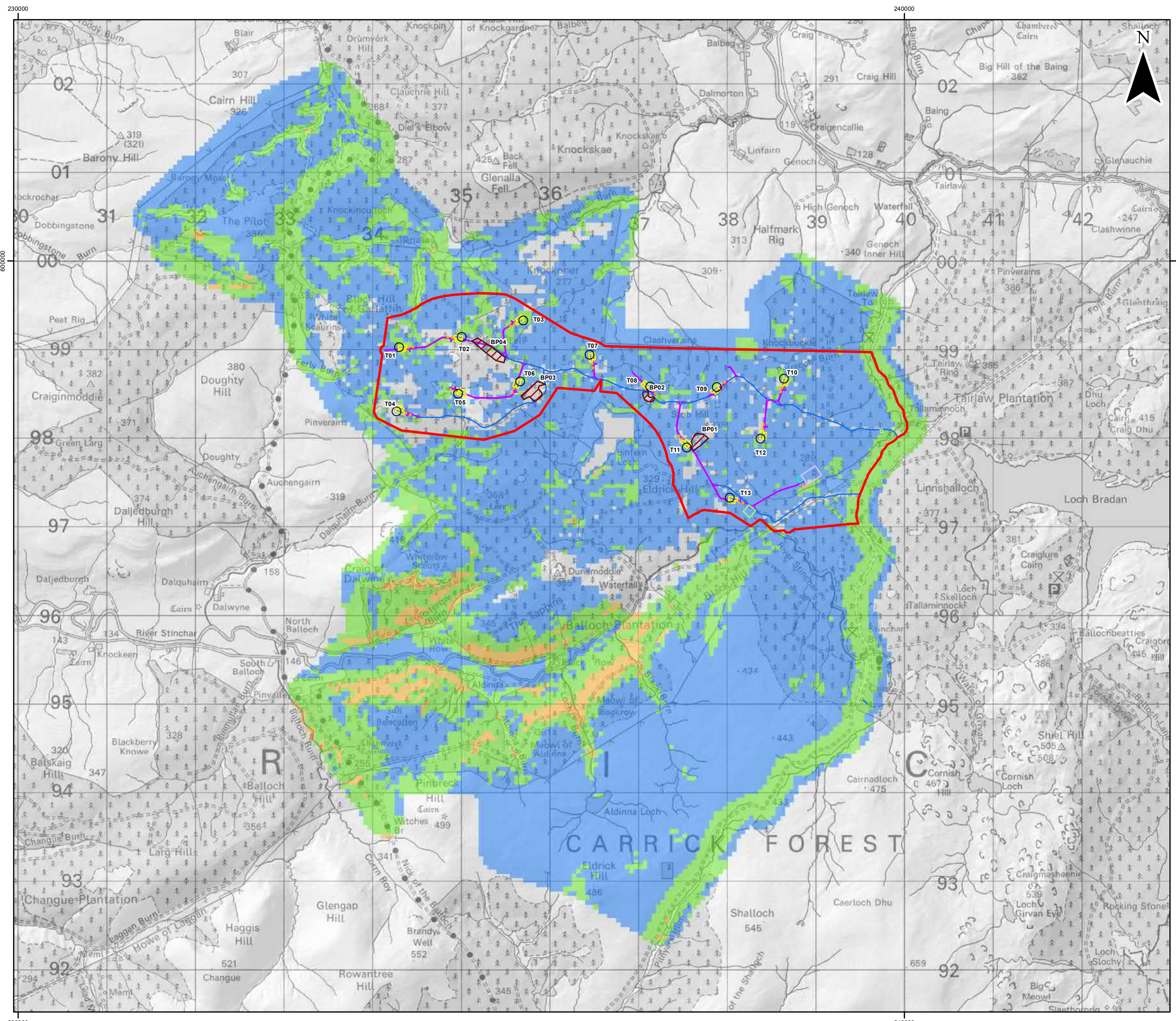


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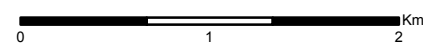
**Carrick Windfarm**  
Figure 6.1.10: Consequence

<b>Drg No</b>	CARRICK-WSP-I-189
<b>Rev</b>	B
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



- Legend**
- Site Boundary
  - Proposed Infrastructure**
  - Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbine
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded
  - Initial Risk**
  - Moderate
  - Low
  - Negligible
  - N/A - Not Peat

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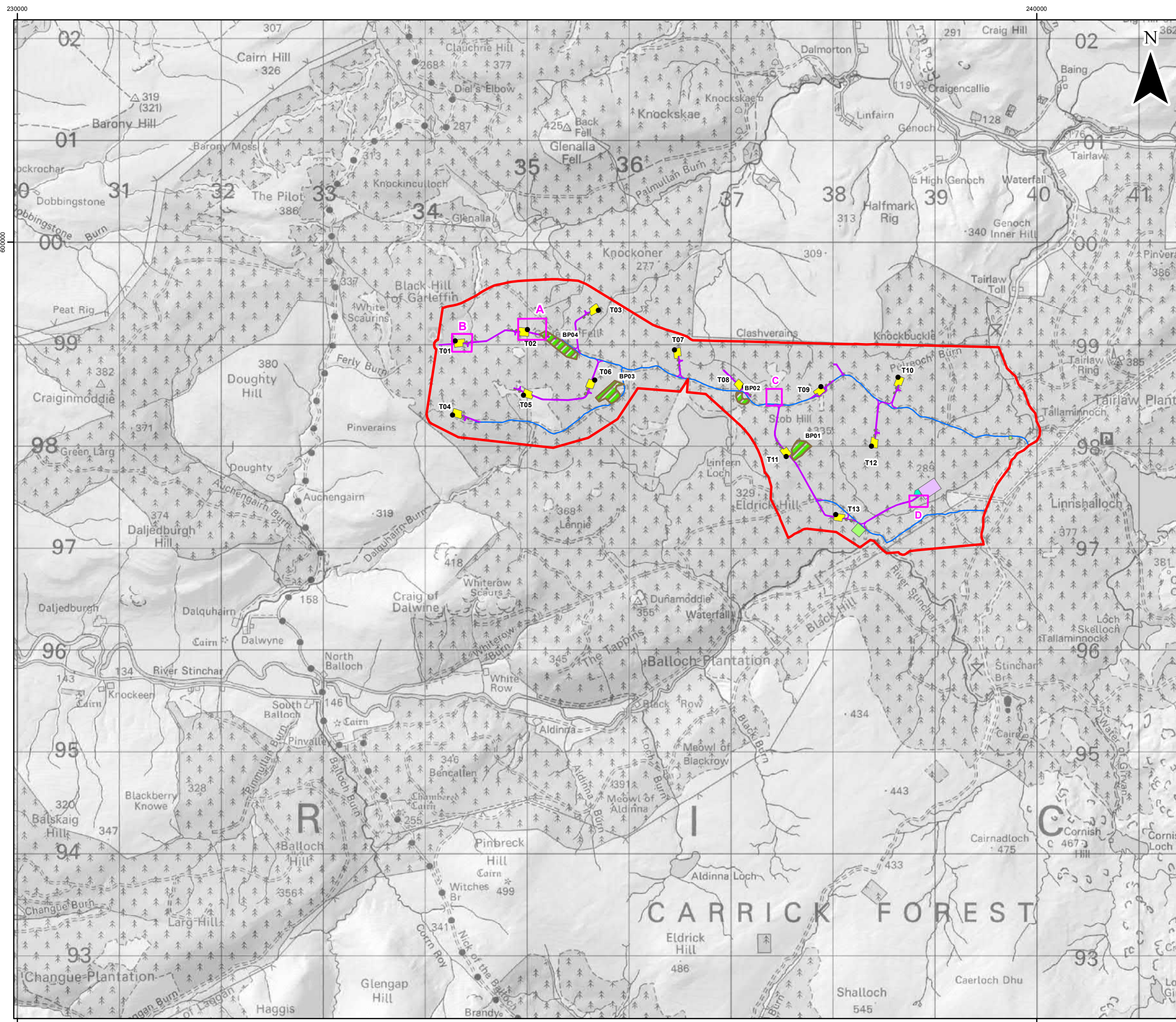


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**Carrick Windfarm**  
Figure 6.1.11: Initial Risk

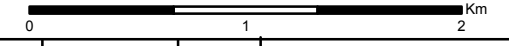
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<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



**Legend**

- Site Boundary
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing
- Forestry Track to be Upgraded
- Detailed Assessment Areas

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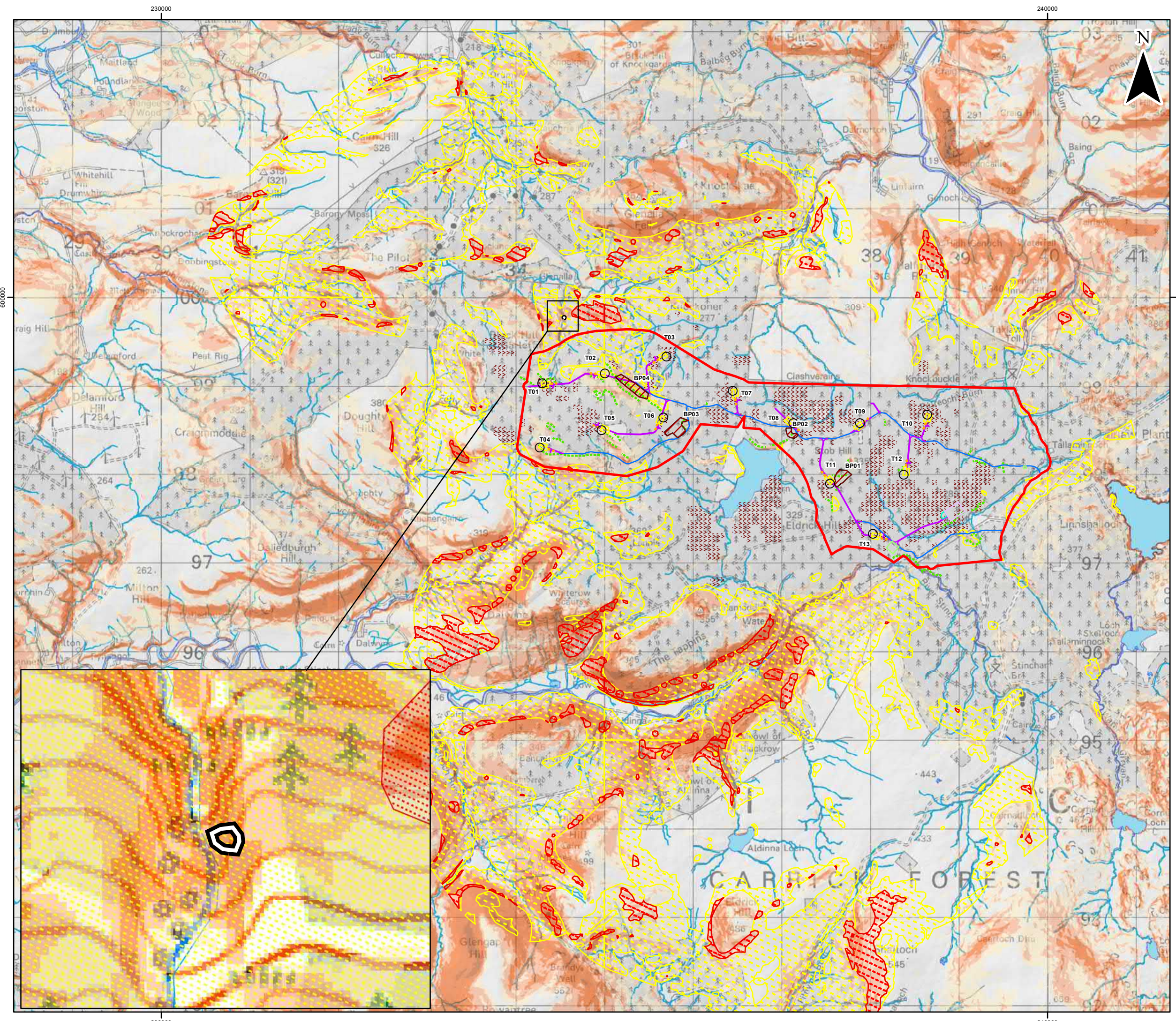
Rev	Date	By	Comment
B	04/11/2021	GC	Second Issue.
A	03/12/2020	MS	First Issue.



**Carrick Windfarm**  
Figure 6.1.12: Detailed Assessment Area

<b>Drg No</b>	CARRICK-WSP-I-191
<b>Rev</b>	B
<b>Date</b>	04/11/2021
<b>Scale</b>	1:35,000 @ A3





**Legend**

- Site Boundary
- Substation Compound
- Temporary Construction Compound
- Crane Pad
- Hardstanding
- Temporary SPEN Construction Compound
- Borrow Pit Search Area
- Wind Turbine
- Carrick Access Track - New Construction
- Carrick Access Track - Existing Forestry Track to be Upgraded

**Geomorphology**

- Break of Slope within Peat Stability Risk Areas
- Potential Areas of Instability Identified from Aerial Photography
- Peat over 1.5m depth

**BGS GeoSure Landslide Susceptibility Classifications**

- Class C
- Class D

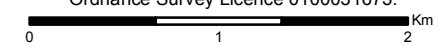
**Slope (Degrees)**

- 0 - 8
- > 8 - 12
- > 12 - 18
- > 18 - 24
- > 24 - 35
- > 35 - 45
- > 45+

**Hydrology**

- OS Watercourse (1:10,000)
- OS Water Body (1:10,000)

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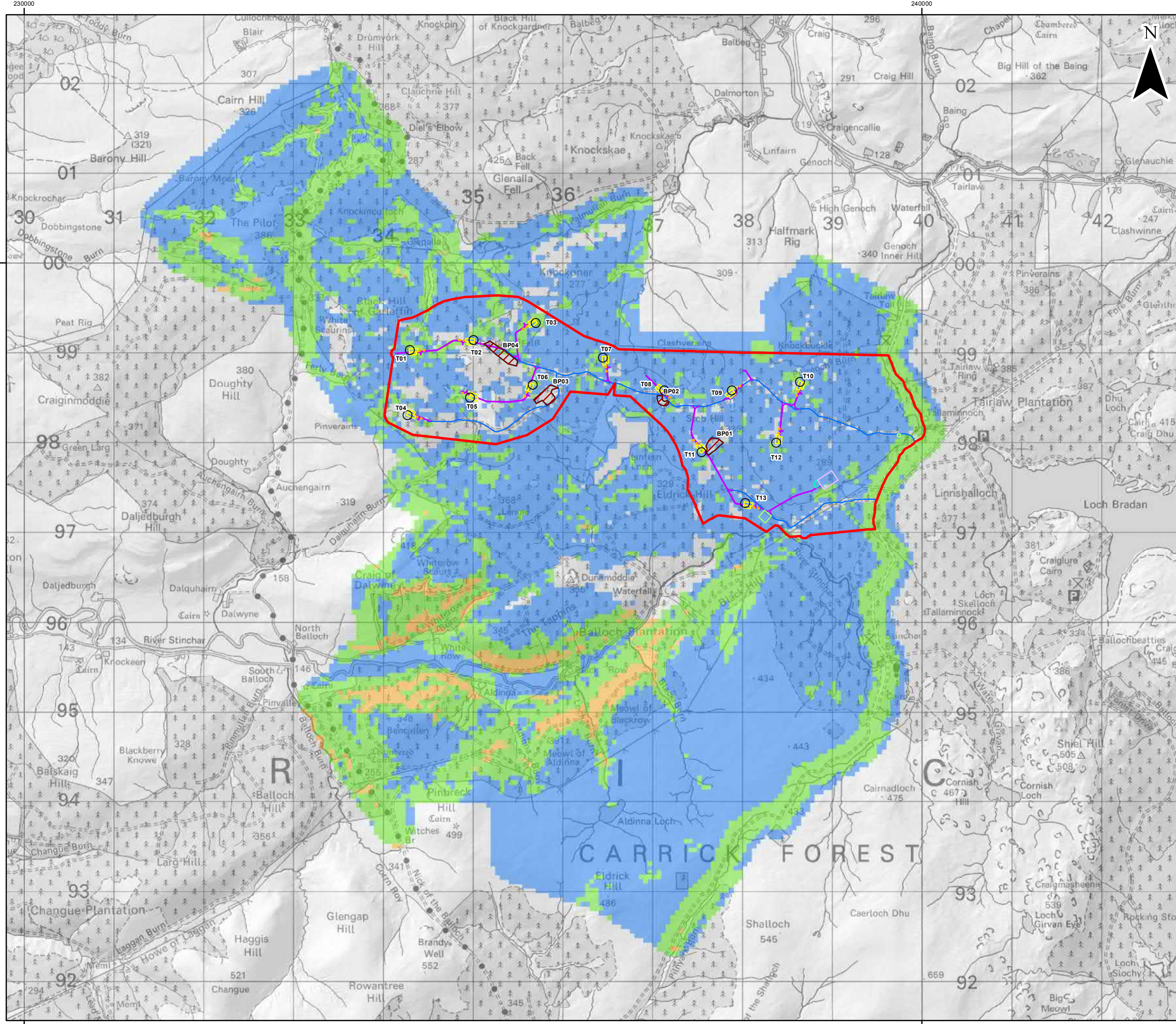


Rev	Date	By	Comment
C	04/11/2021	GC	Third Issue.
B	03/12/2020	MS	Second Issue.
A	26/11/2020	PM	First Issue.



**Carrick Windfarm**  
Figure 6.1.13: Geomorphology

<b>Drg No</b>	CARRICK-WSP-I-192
<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3



**Legend**

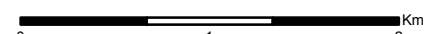
- Site Boundary
- Proposed Infrastructure**

  - Substation Compound
  - Temporary Construction Compound
  - Crane Pad
  - Hardstanding
  - Temporary SPEN Construction Compound
  - Borrow Pit Search Area
  - Wind Turbine
  - Carrick Access Track - New Construction
  - Carrick Access Track - Existing Forestry Track to be Upgraded

- Revised Risk**

  - Moderate
  - Low
  - Negligible
  - N/A - Not Peat

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Rev	Date	By	Comment
C	04/11/2021	GC	Third Issue.
B	03/12/2020	MS	Second Issue.
A	21/10/2020	VK	First Issue.



**Carrick Windfarm**  
Figure 6.1.14: Revised Risk

<b>Drg No</b>	CARRICK-WSP-I-193
<b>Rev</b>	C
<b>Date</b>	04/11/2021
<b>Scale</b>	1:40,000 @ A3