

Project:
**South Kyle II Wind Farm,
 East Ayrshire**

Title:
FEI Figure A.3: Slope Angle

Key

- Site boundary
- Proposed turbine (as amended)
- Proposed crane hardstanding (as amended)
- Existing track (to be upgraded)
- Proposed new track (as amended)
- Proposed substation and battery storage
- Proposed temporary construction compound
- Proposed borrow pit

Slope angle *

- 0° - ≤ 3°
- 3° - ≤ 9°
- 9° - ≤ 15°
- 15° - ≤ 20°
- > 20°

* Slope angle based on OS Terrain 5 DTM

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Scale @ A3: 1:15,000
 Coordinate System: British National Grid

N

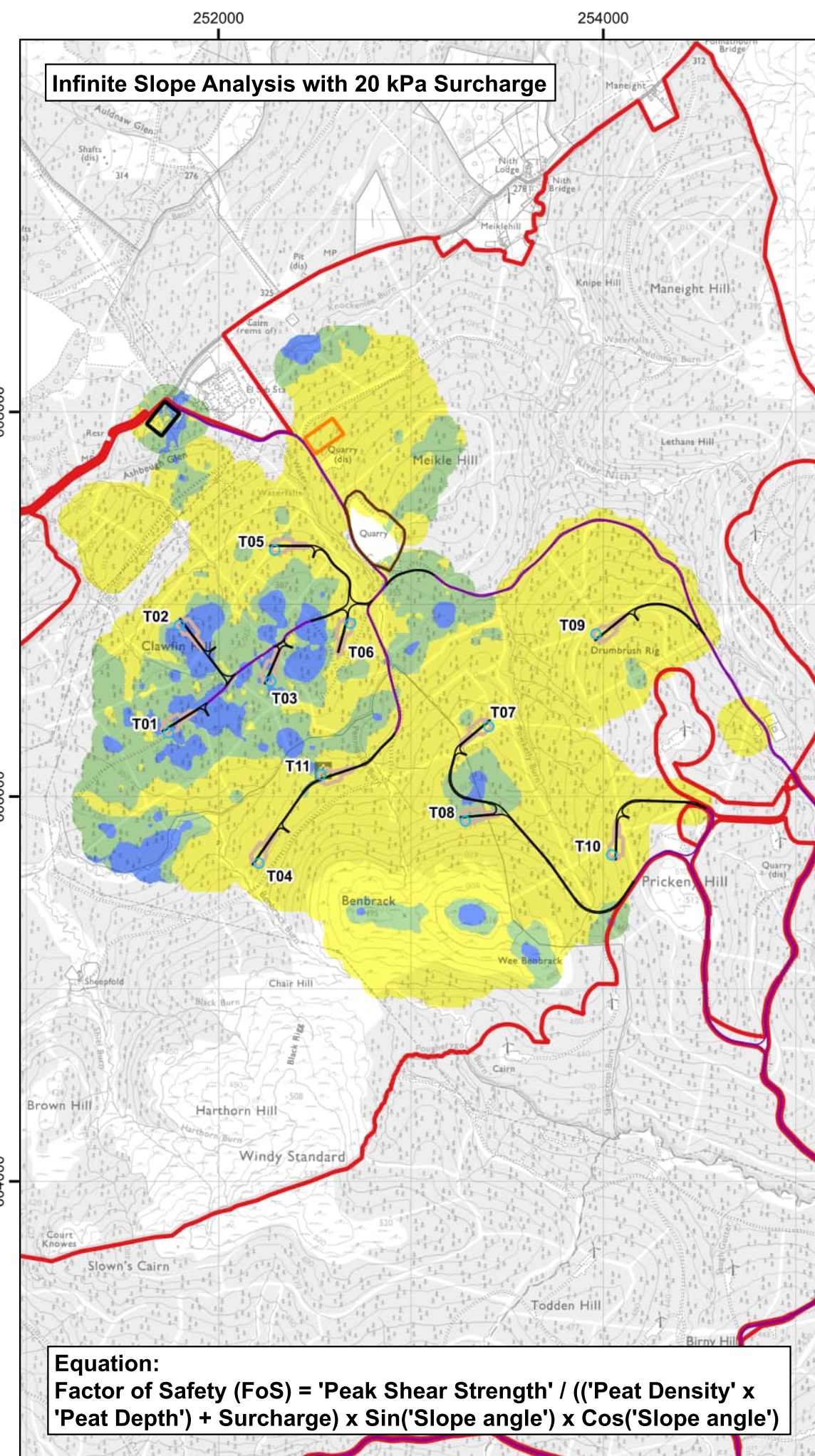
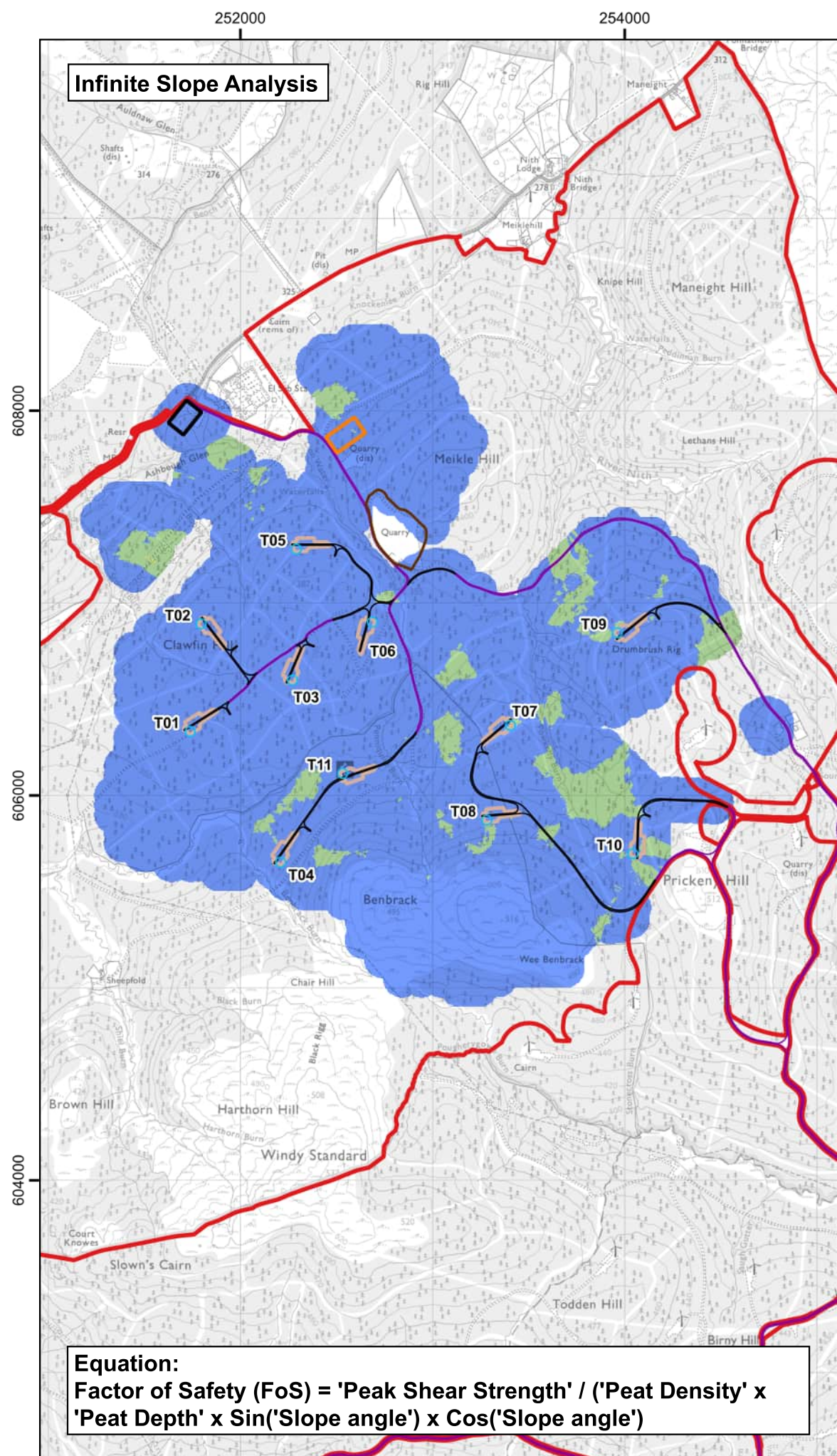
Date: 03-03-26 | Prepared by: JWO | Checked by: OB

Ref: GB201396_M_190_A | Layout: 140725_11t_A

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Project:
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Title:
FEI Figure A.4: Factor of Safety

- Key**
- Site boundary
 - Proposed turbine (as amended)
 - Proposed crane hardstanding (as amended)
 - Existing track (to be upgraded)
 - Proposed new track (as amended)
 - Proposed substation and battery storage
 - Proposed temporary construction compound
 - Proposed borrow pit

- Factor of Safety (FoS) ***
- <1.0
 - 1.0 - 1.3
 - 1.3 - 5.0
 - 5.0 - 10.0
 - >10.0

* $F = C_u / (y \cdot z \cdot \sin \beta \cdot \cos \beta)$
 Where:
 F = Factor of Safety (FoS)
 C_u = Undrained shear strength of the peat (kPa) - assumed value 10 kPa
 y = Bulk unit weight of saturated peat (kN/m³) - assumed value 10 kN/m³
 z = Peat depth in direction of normal stress
 β = Slope angle to the horizontal and hence assumed angle of sliding plane (degrees)

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Scale @ A3: 1:28,000
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0 0.25 0.5 0.75 1 km

N

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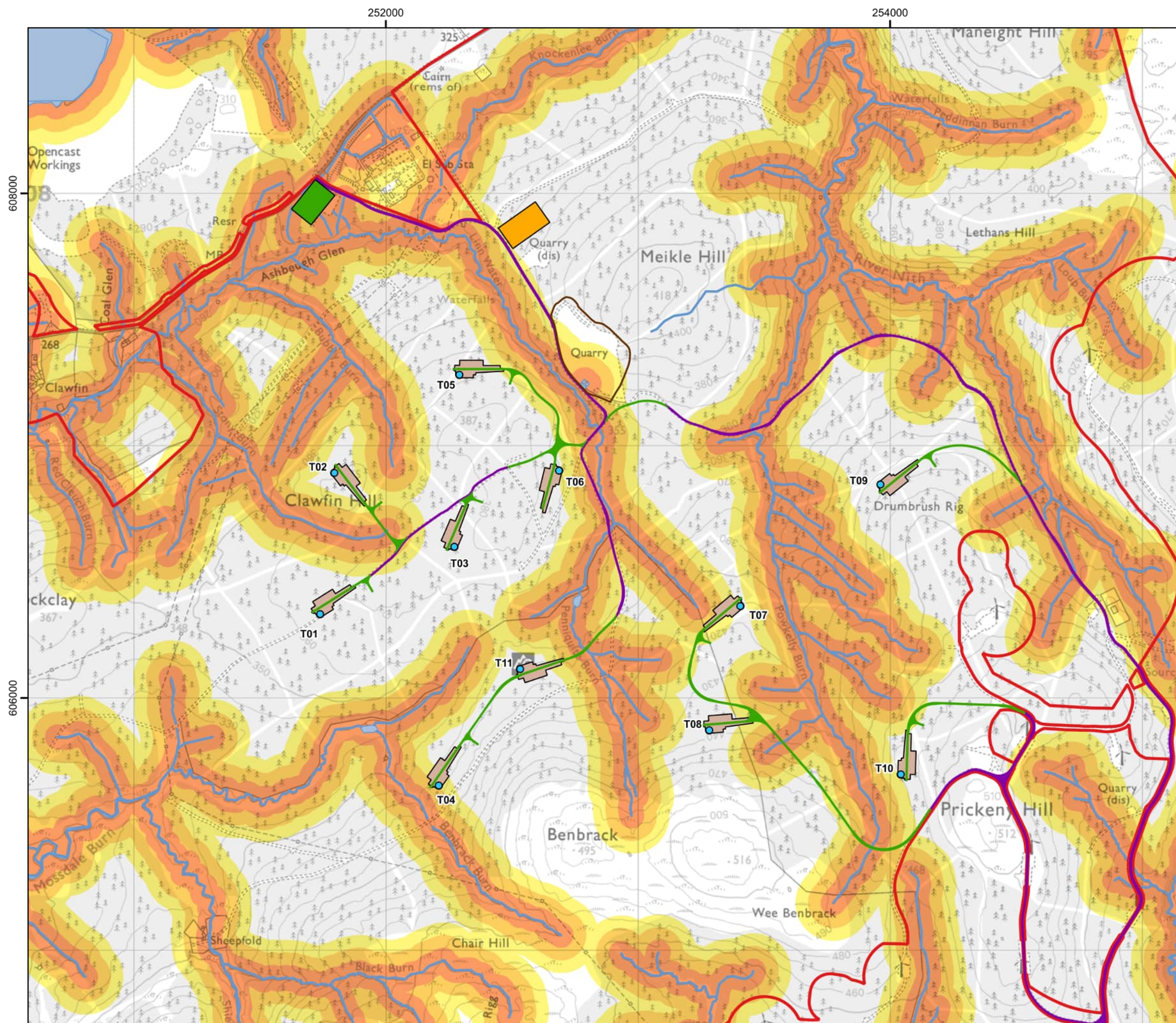
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Project:
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 East Ayrshire**

Title:
**FEI Figure A.5: Environmental
 Impact Zonation**

Key

- Site boundary
- Proposed turbine (as amended)
- Proposed crane hardstanding (as amended)
- Existing track (to be upgraded)
- Proposed new track (as amended)
- Proposed substation and battery storage
- Proposed temporary construction compound
- Proposed borrow pit
- Watercourses and waterbodies

Environmental Impact Zone (proximity to watercourse)

- High impact (< 50 m from watercourse)
- Medium impact (50 - 100 m from watercourse)
- Low impact (100 - 150 m from watercourse)

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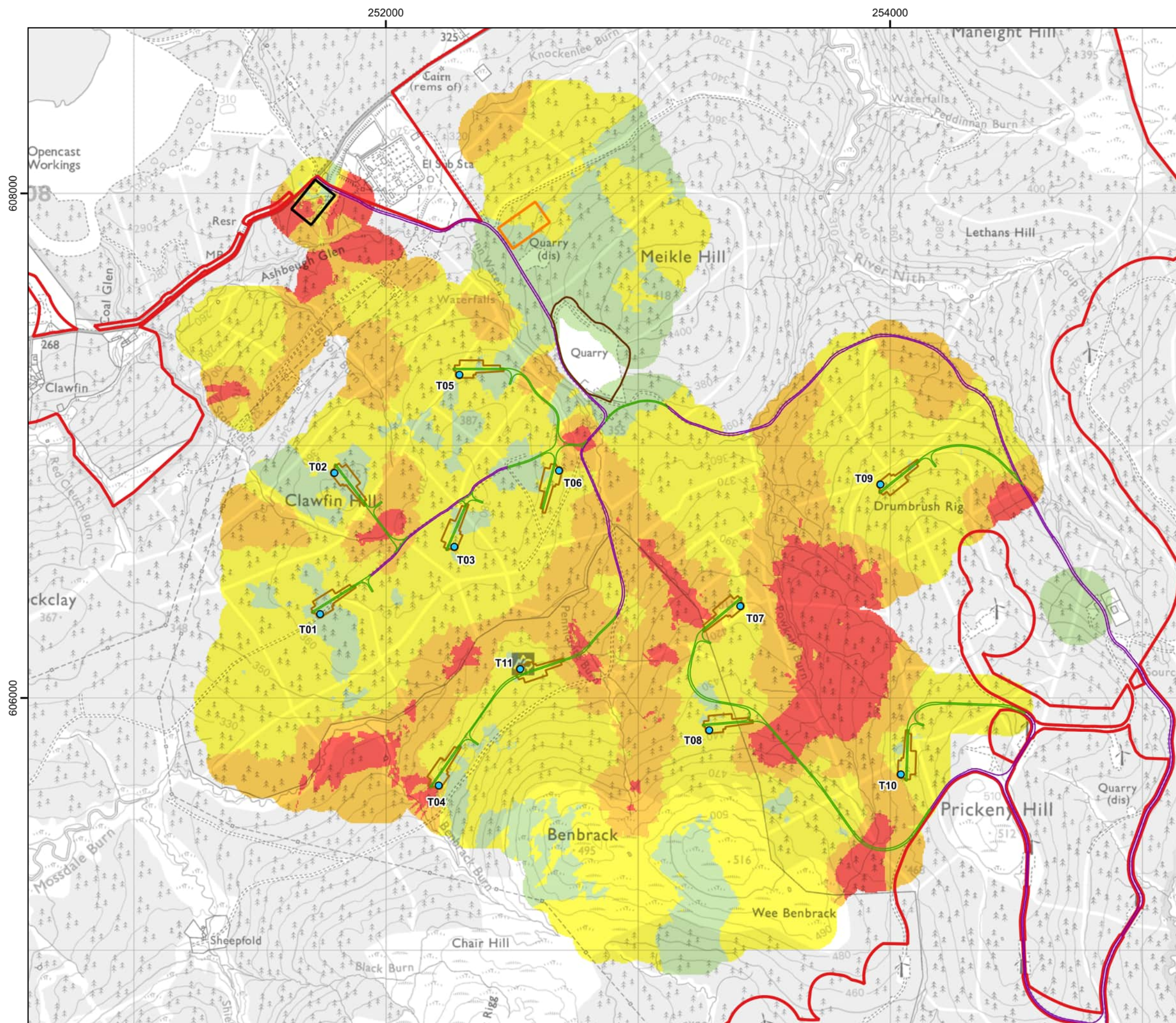
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Project:
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Title:
**FEI Figure A.6: Peat Stability
 Risk Zonation**

- Key**
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 - Proposed crane hardstanding (as amended)
 - Existing track (to be upgraded)
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 - Proposed borrow pit

- Peat Stability Risk Ranking ***
- 0 - 4 Negligible **
 - 5 - 10 Low
 - 11 - 16 Medium
 - > 16 High

* Peat stability risk zone based on terrain slope angle and peat depth factors with impact based on proximity to sensitive watercourse receptor. Please see accompanying reporting for further explanation.

** At sites where peat/soil depth is recorded or predicted to be 0.30m or below. The risk of a peat slide generating from these areas is deemed negligible for the purposes of the risk assessment. Where terrain slope angle is equal or less than 2 degrees PSRR is negligible.

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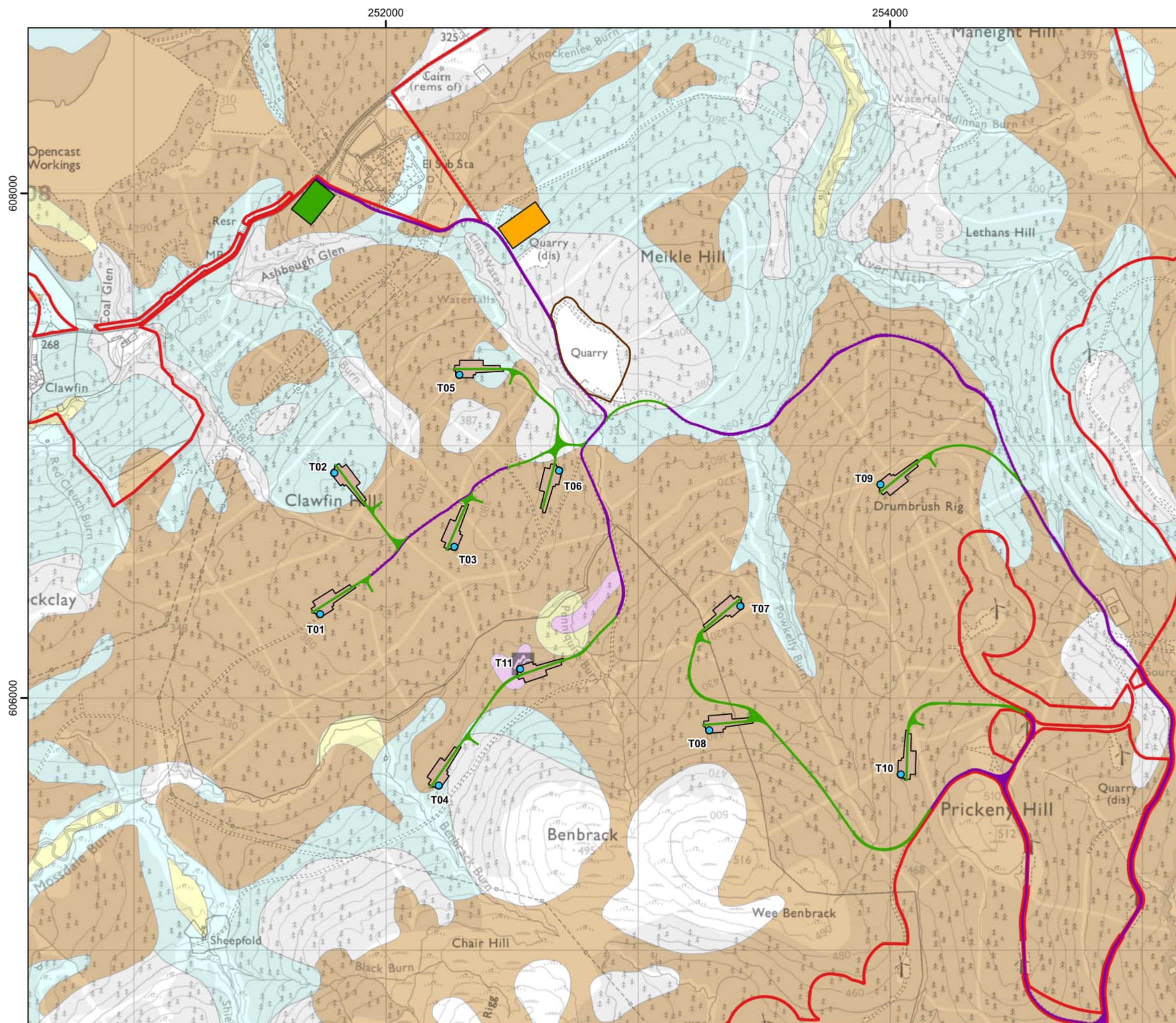
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Project:
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Title:
**FEI Figure A.7: Superficial
 Geology**

Key

- Site boundary
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Superficial deposits

- Alluvium - Silt, Sand and Gravel
- Glaciofluvial Deposits - Gravel, Sand and Silt
- Peat
- Till, Devensian - Diamicton

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0 200 400 600 800 m

N

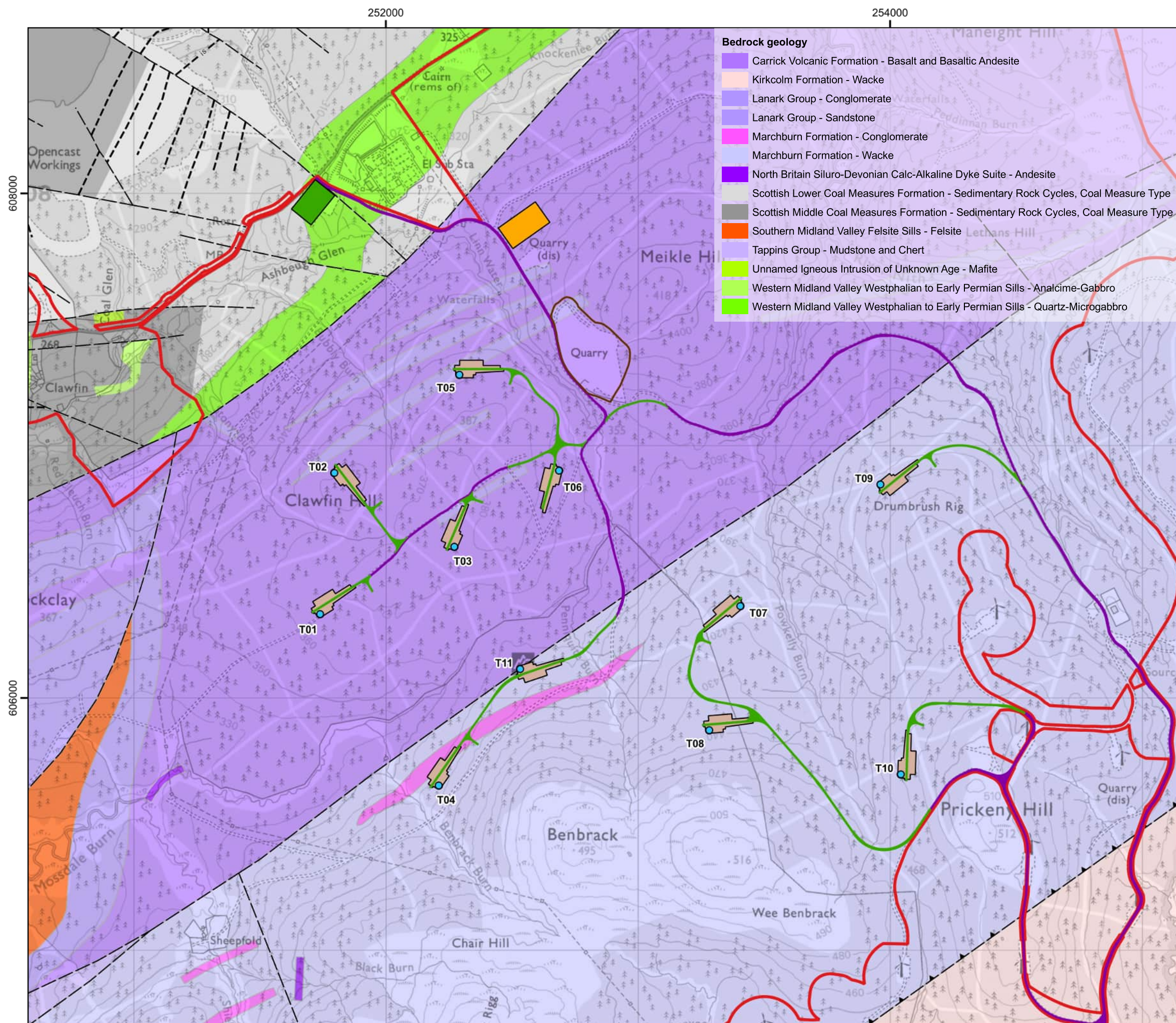
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Bedrock geology

- Carrick Volcanic Formation - Basalt and Basaltic Andesite
- Kirkcolm Formation - Wacke
- Lanark Group - Conglomerate
- Lanark Group - Sandstone
- Marchburn Formation - Conglomerate
- Marchburn Formation - Wacke
- North Britain Siluro-Devonian Calc-Alkaline Dyke Suite - Andesite
- Scottish Lower Coal Measures Formation - Sedimentary Rock Cycles, Coal Measure Type
- Scottish Middle Coal Measures Formation - Sedimentary Rock Cycles, Coal Measure Type
- Southern Midland Valley Felsite Sills - Felsite
- Tappins Group - Mudstone and Chert
- Unnamed Igneous Intrusion of Unknown Age - Mafite
- Western Midland Valley Westphalian to Early Permian Sills - Analcime-Gabbro
- Western Midland Valley Westphalian to Early Permian Sills - Quartz-Microgabbro

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Title:
FEI Figure A.8: Solid Geology

Key

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Linear features

- Coal seam, inferred
- Fault, inferred, displacement unknown
- Ironstone bed, inferred
- Reverse or thrust fault, inferred, barbs on hanging wall side, throw in metres

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