



Uisenis Wind Farm

Volume 3

Figures and Technical Appendices to support Chapters 1-17 of the Supplementary Environmental Information

June 2024

Uisenis Power Limited



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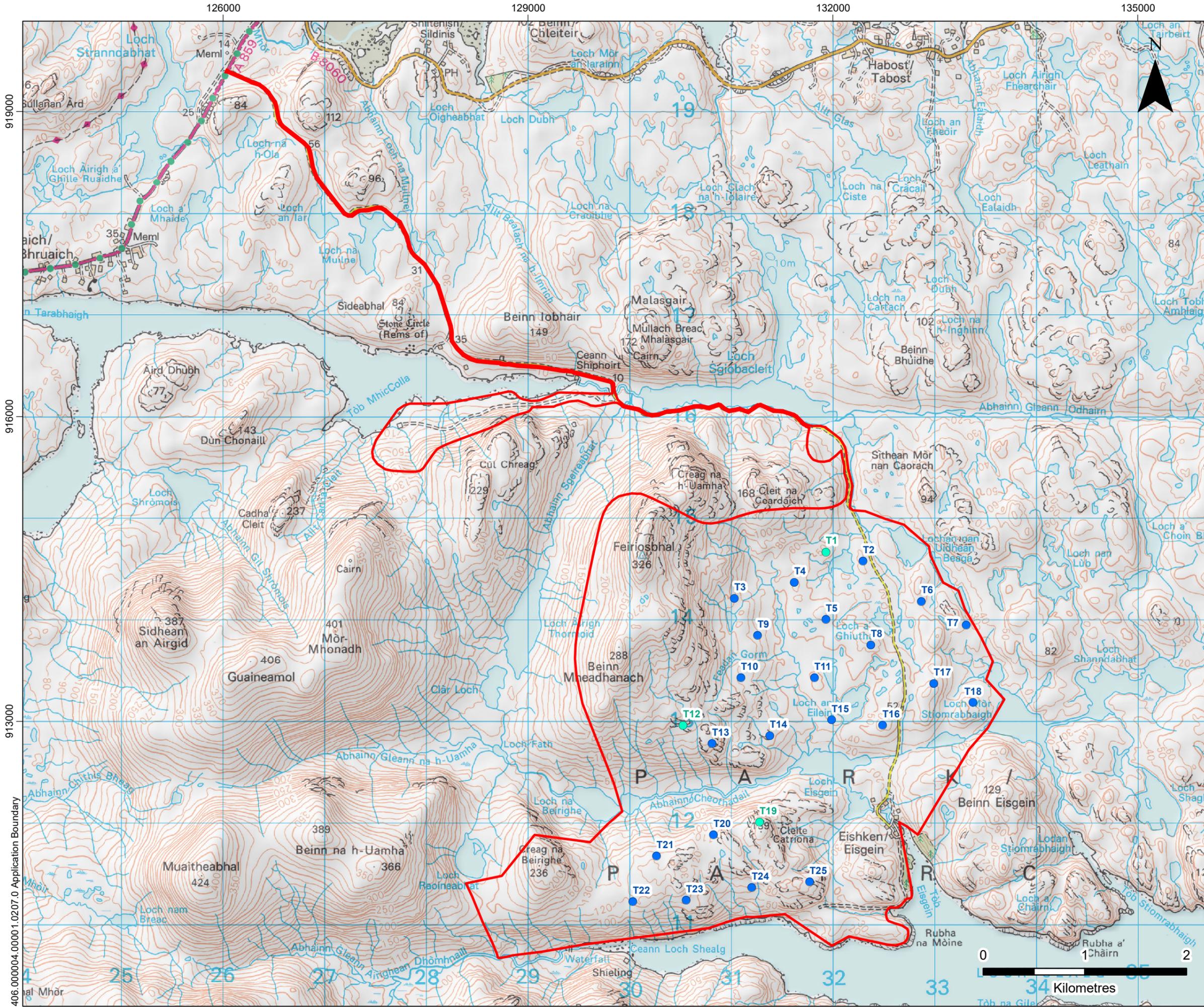
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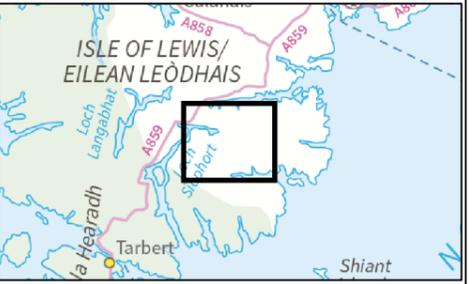
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LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)



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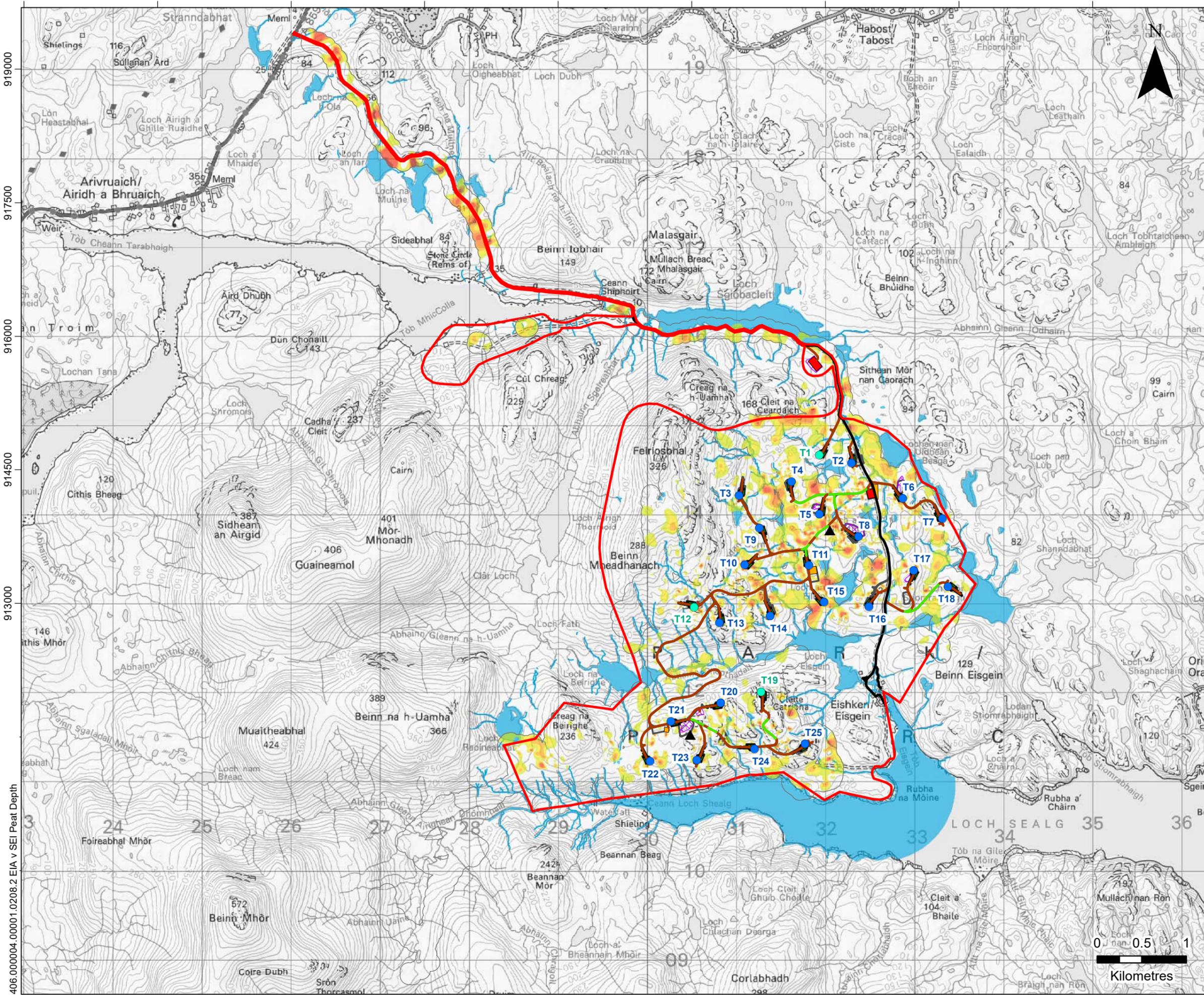
UISENIS WIND FARM - SEI
INTRODUCTION
APPLICATION BOUNDARY

SEI FIGURE 1.2

Scale 1:35,000 @ A3	Date MAY 2024
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406.000004.00001.0207.0 Application Boundary

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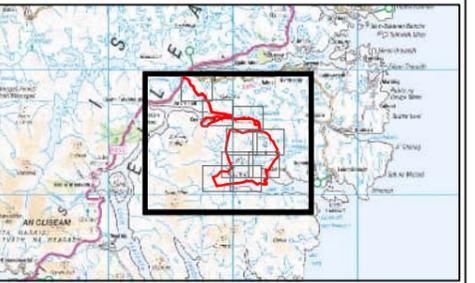
LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Potential Borrow Pit
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)



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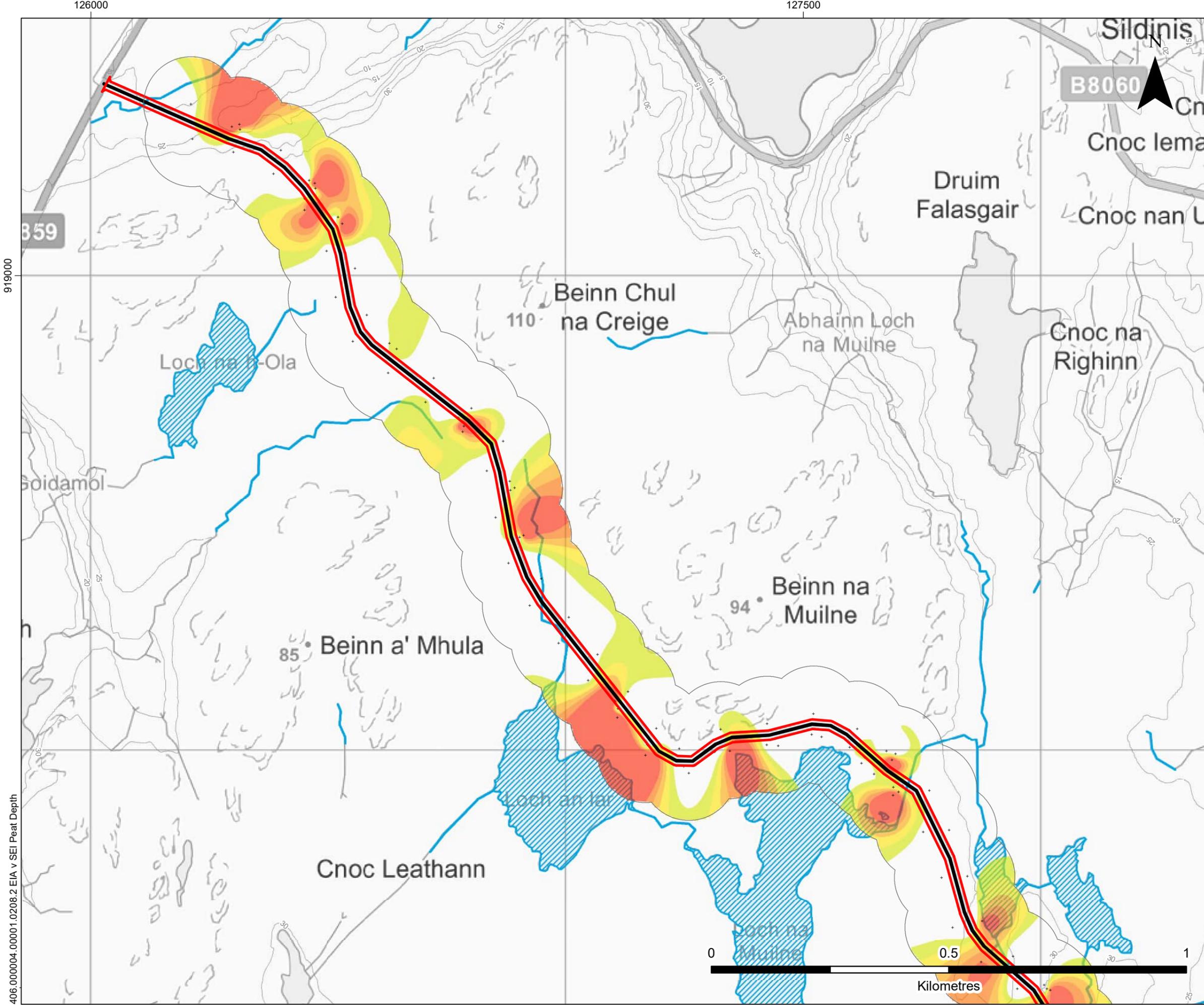


UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

SEI FIGURE 2.9a

Scale 1:40,000 @ A3 Date JUNE 2024

406.00004.00001.0208.2 EIA v SEI Peat Depth

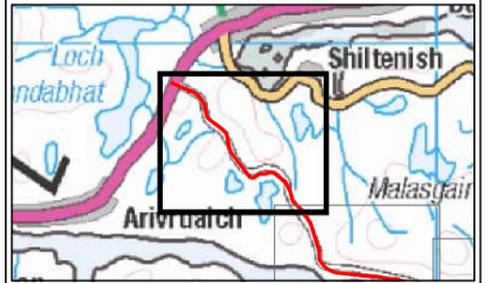


LEGEND

- Application Boundary
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3
- Existing Road (To Be Upgraded)



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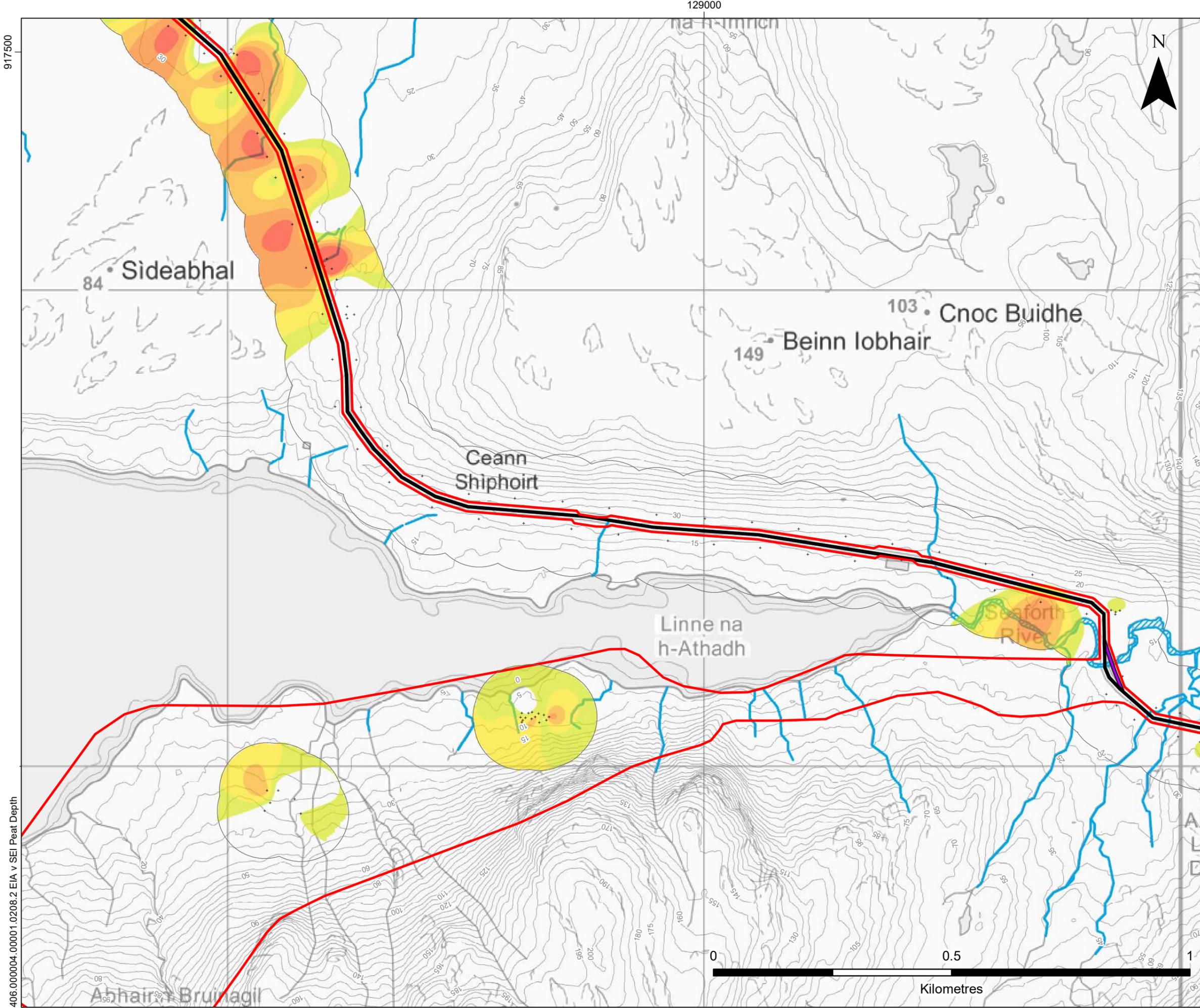


UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

SEI FIGURE 2.9b

Scale 1:7,500 @ A3 Date JUNE 2024

406.00004.00001.0208.2 EIA v SEI Peat Depth

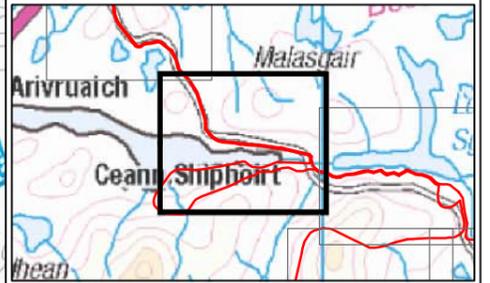


LEGEND

- Application Boundary
- Proposed Temporary Bridge Alignment
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3
- Existing Road (To Be Upgraded)



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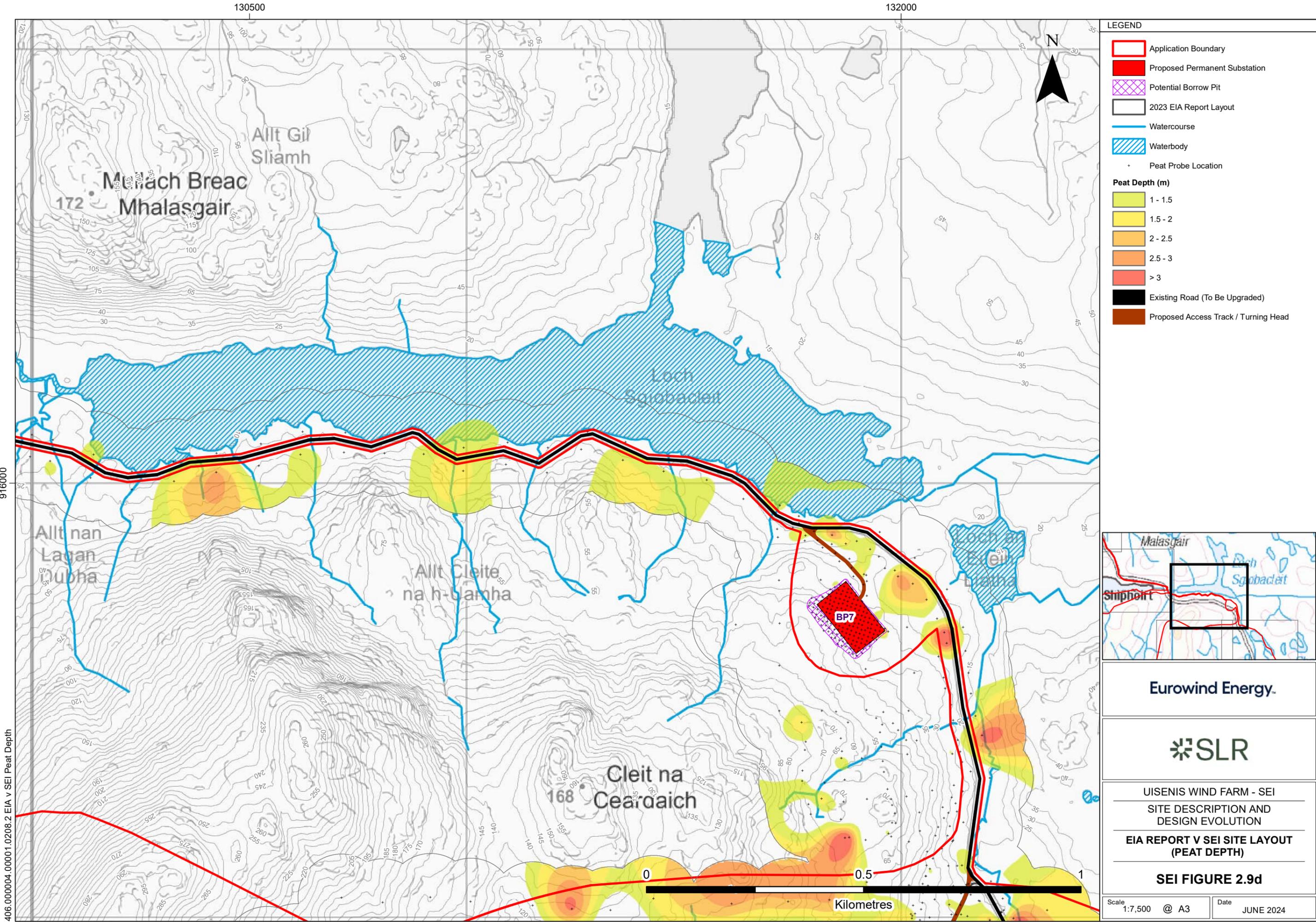
SLR

UISENIS WIND FARM - SEI
SITE DESCRIPTION AND
DESIGN EVOLUTION
EIA REPORT V SEI SITE LAYOUT
(PEAT DEPTH)

SEI FIGURE 2.9c

Scale: 1:7,500 @ A3 Date: JUNE 2024

406.00004.00001.0208.2 EIA v SEI Peat Depth



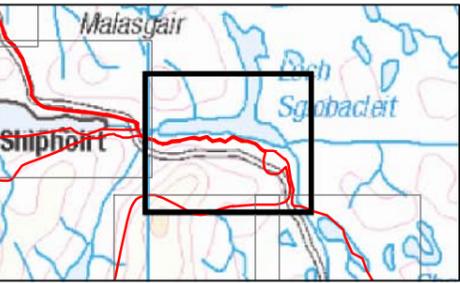
LEGEND

- Application Boundary
- Proposed Permanent Substation
- Potential Borrow Pit
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

- Existing Road (To Be Upgraded)
- Proposed Access Track / Turning Head



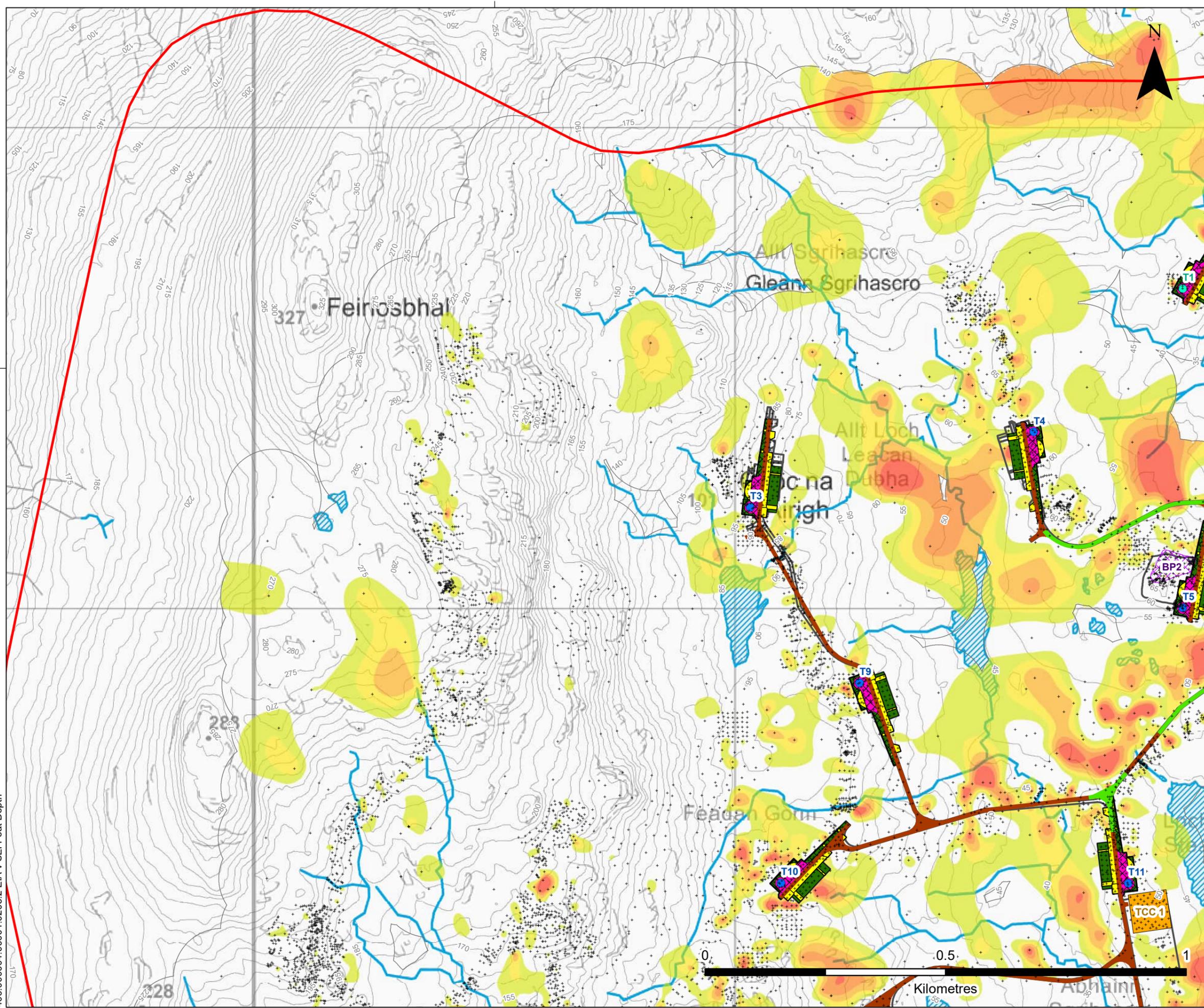
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UISENIS WIND FARM - SEI
SITE DESCRIPTION AND
DESIGN EVOLUTION
EIA REPORT V SEI SITE LAYOUT
(PEAT DEPTH)

SEI FIGURE 2.9d

Scale: 1:7,500 @ A3 Date: JUNE 2024

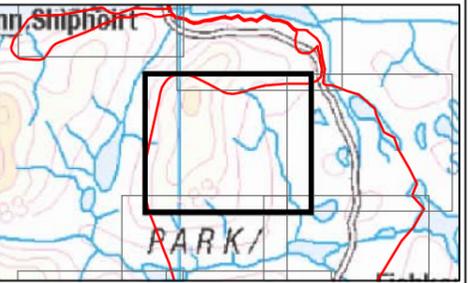


LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Potential Borrow Pit
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3
- Proposed Access Track / Turning Head
- Proposed Floating Access Track



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UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

SEI FIGURE 2.9e

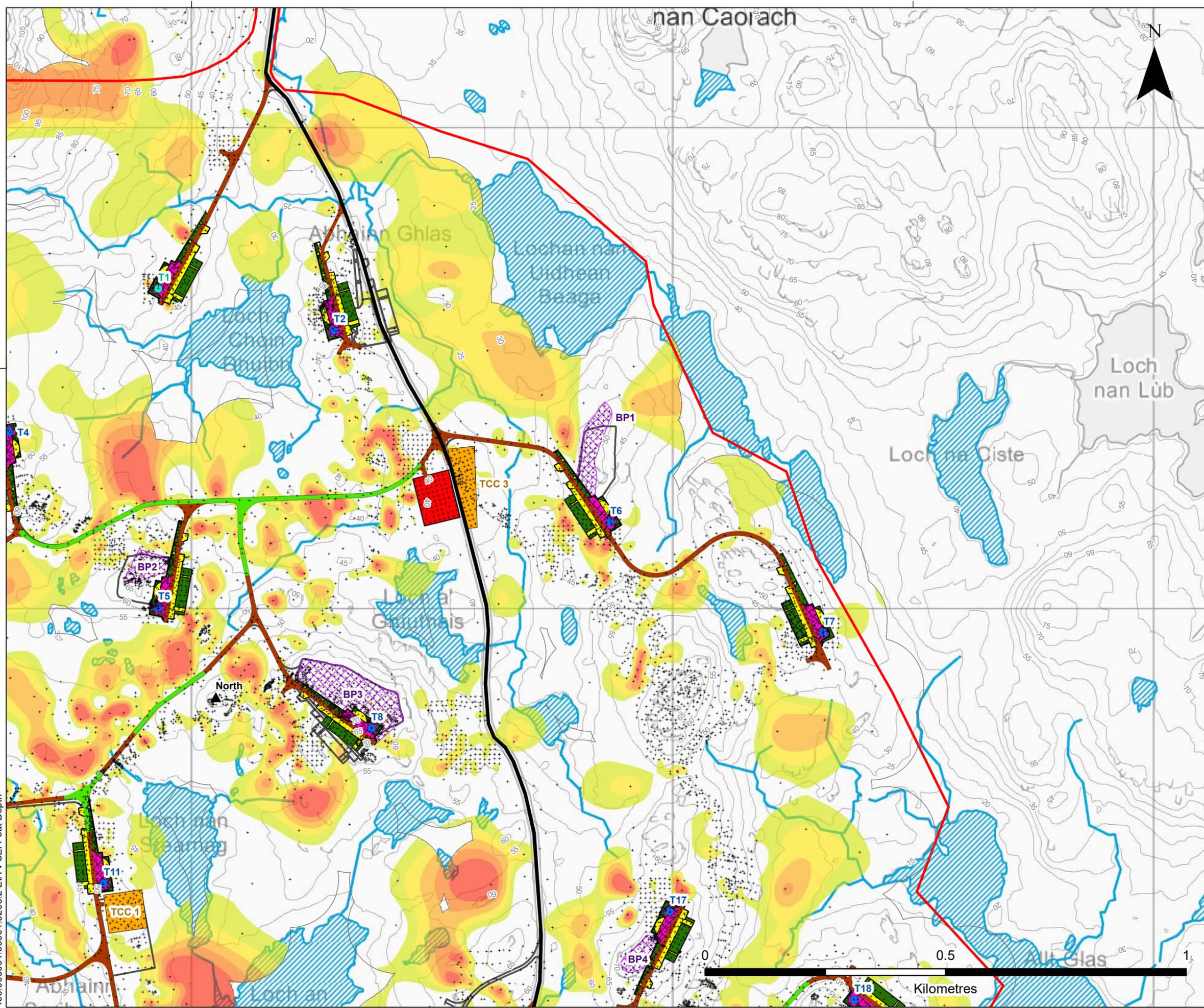
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132000

133500

914500

406.00004.00001.0208.2 EIA v SEI Peat Depth



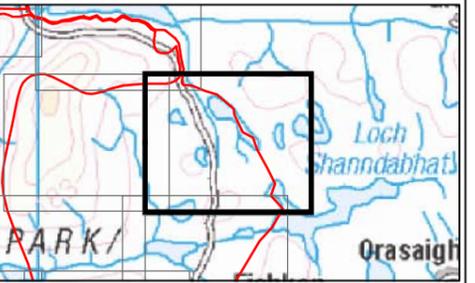
LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Potential Borrow Pit
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

- Existing Road (To Be Upgraded)
- Proposed Access Track / Turning Head
- Proposed Floating Access Track



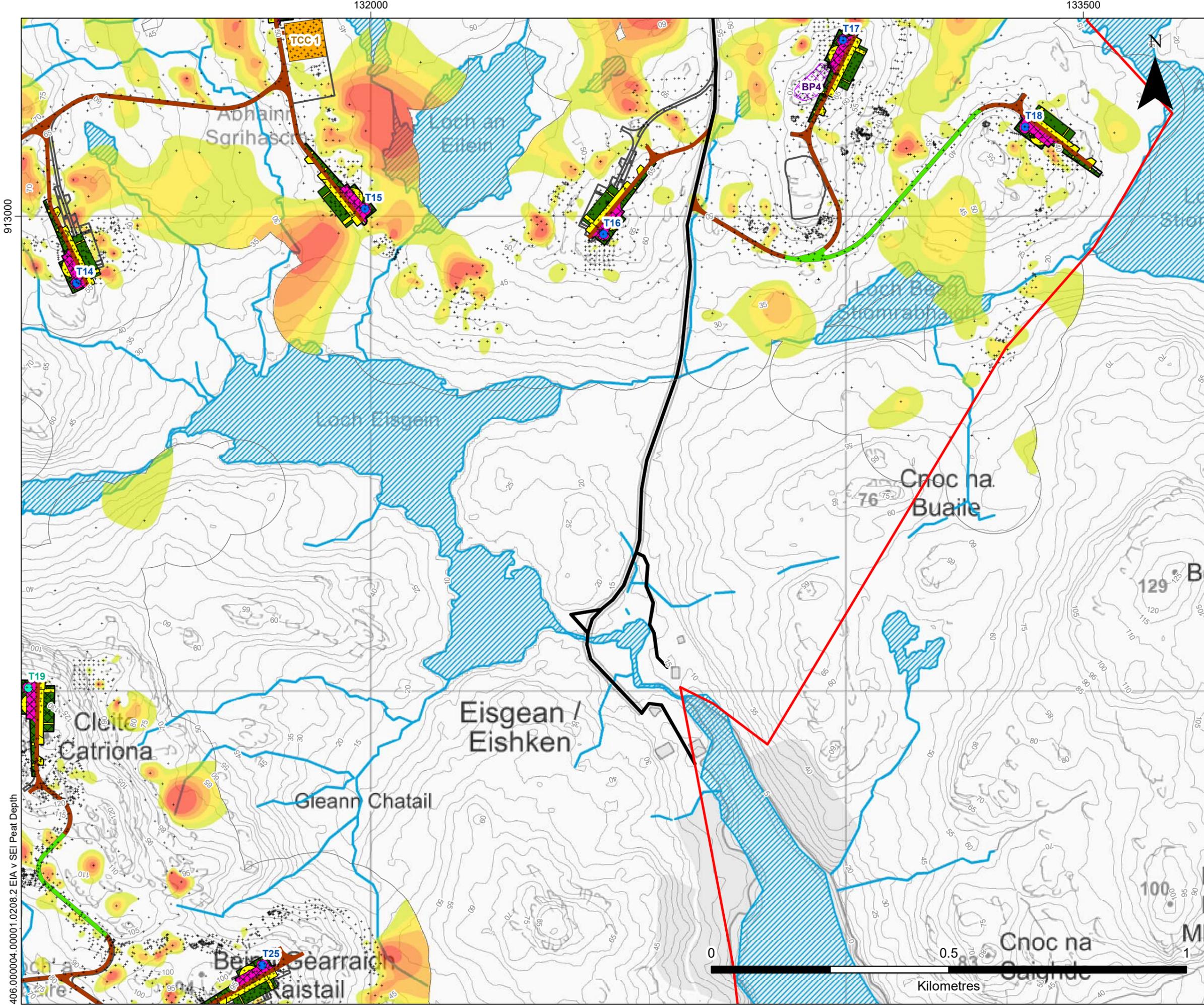
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UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

SEI FIGURE 2.9f

Scale 1:7,500 @ A3 Date JUNE 2024



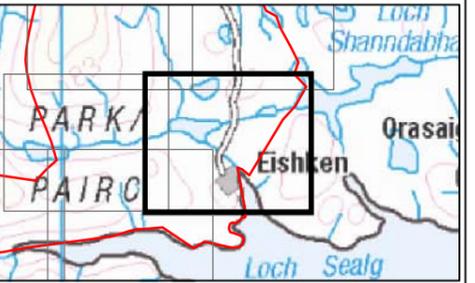
LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Potential Borrow Pit
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

- Existing Road (To Be Upgraded)
- Proposed Access Track / Turning Head
- Proposed Floating Access Track



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UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

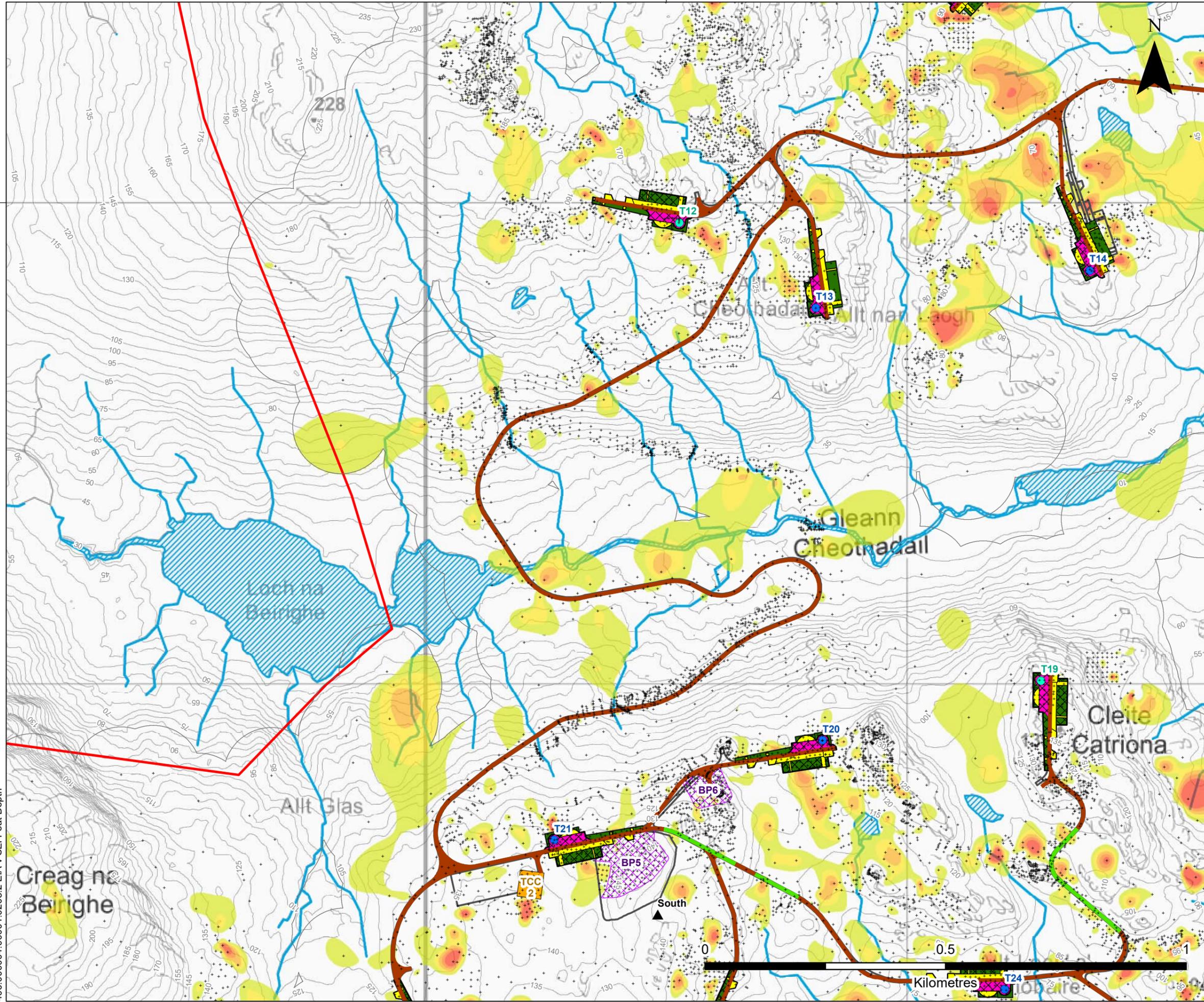
SEI FIGURE 2.9g

Scale: 1:7,500 @ A3 Date: JUNE 2024

406.00004.00001.0208.2 EIA v SEI Peat Depth

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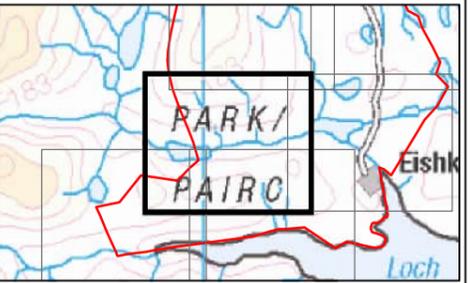
LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Potential Borrow Pit
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

- Proposed Access Track / Turning Head
- Proposed Floating Access Track



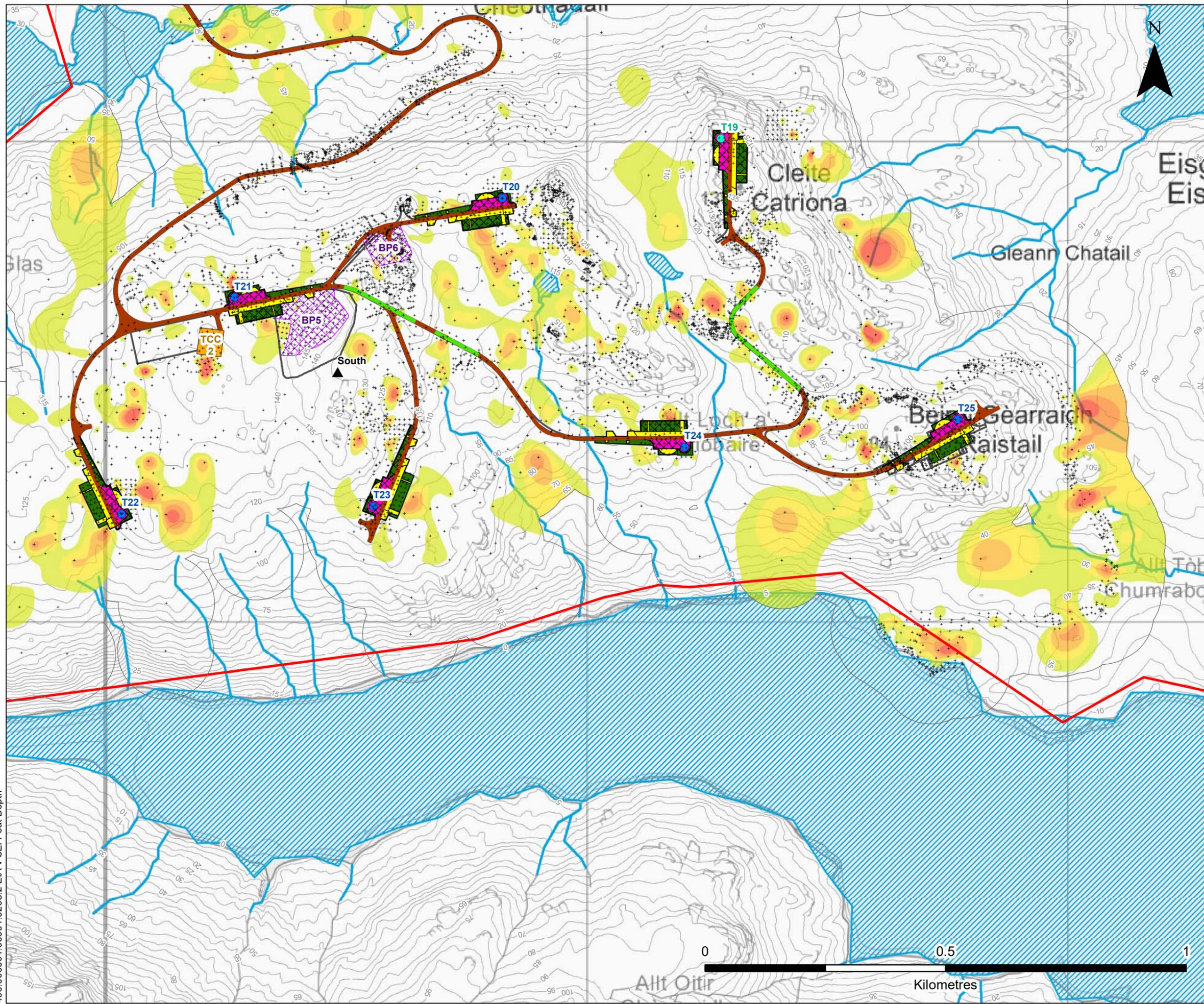
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UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

SEI FIGURE 2.9h

Scale 1:7,500 @ A3 Date JUNE 2024



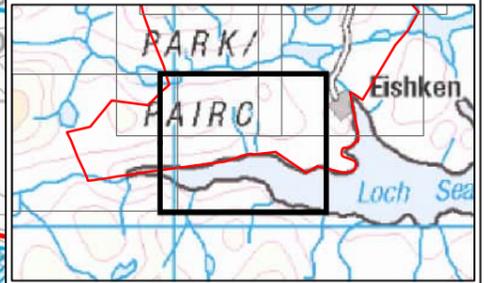
LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Potential Borrow Pit
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3

- Proposed Access Track / Turning Head
- Proposed Floating Access Track



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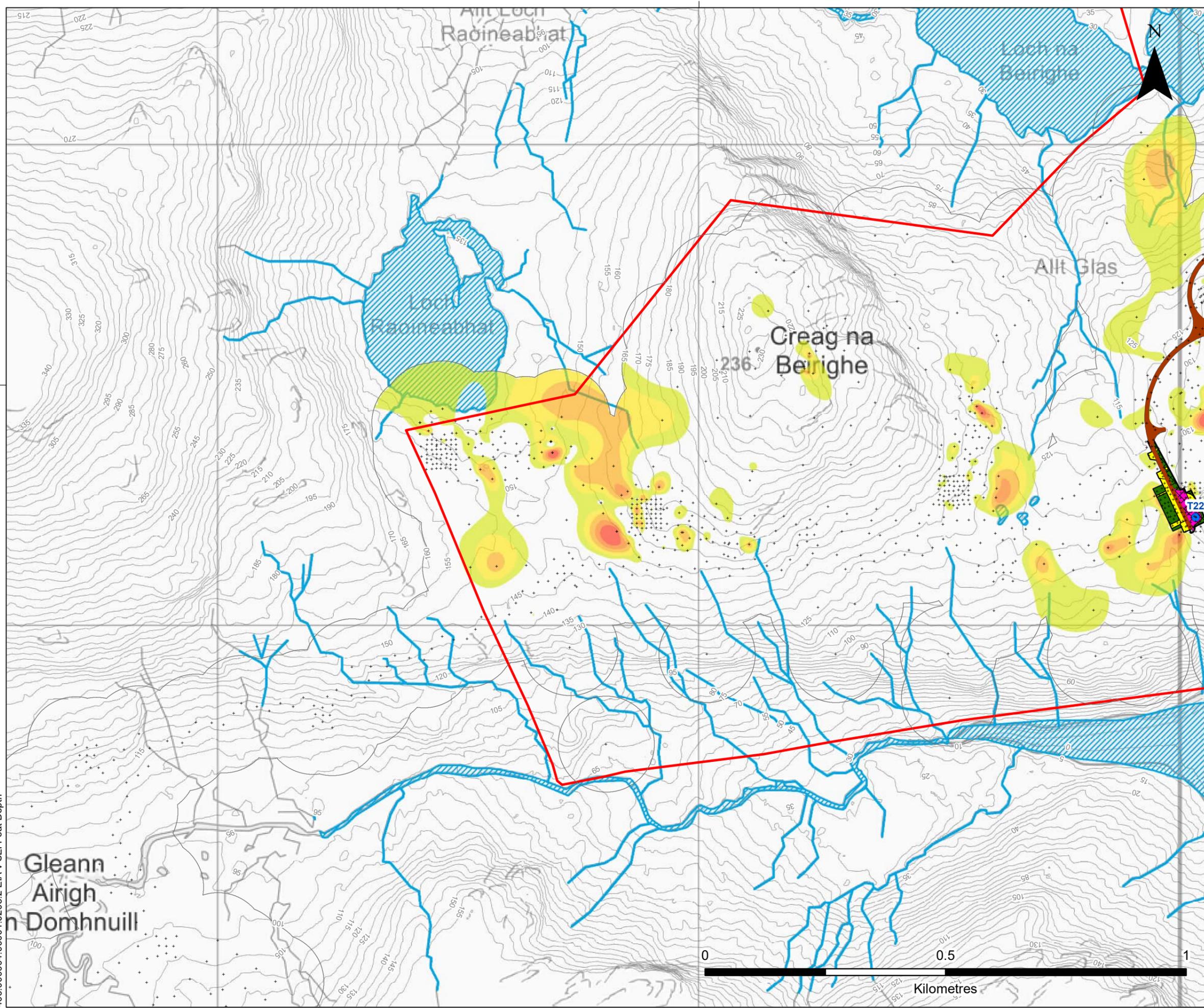


UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 EIA REPORT V SEI SITE LAYOUT
 (PEAT DEPTH)

SEI FIGURE 2.9i

Scale: 1:7,500 @ A3 Date: JUNE 2024



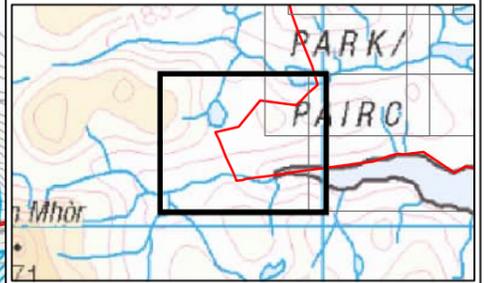


LEGEND

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- 2023 EIA Report Layout
- Watercourse
- Waterbody
- + Peat Probe Location

Peat Depth (m)

- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- > 3
- Proposed Access Track / Turning Head



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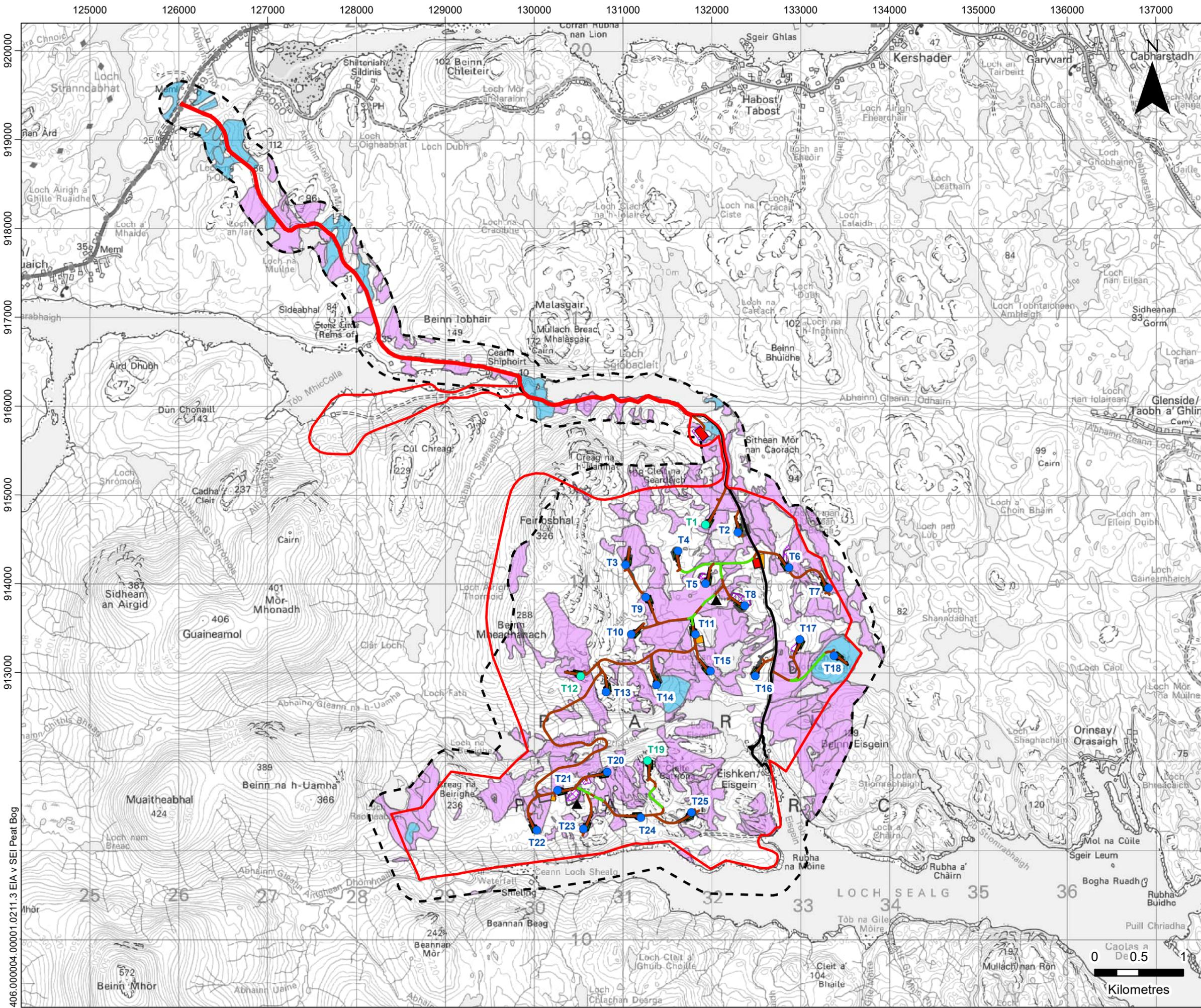
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UISENIS WIND FARM - SEI
SITE DESCRIPTION AND
DESIGN EVOLUTION
EIA REPORT V SEI SITE LAYOUT
(PEAT DEPTH)

SEI FIGURE 2.9j

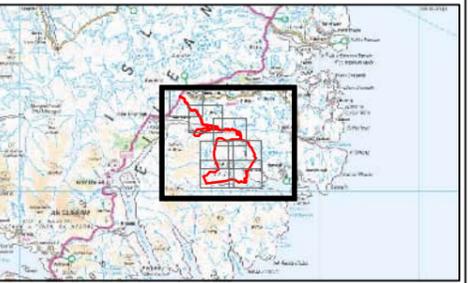
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LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- 2023 EIA Report Layout
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)



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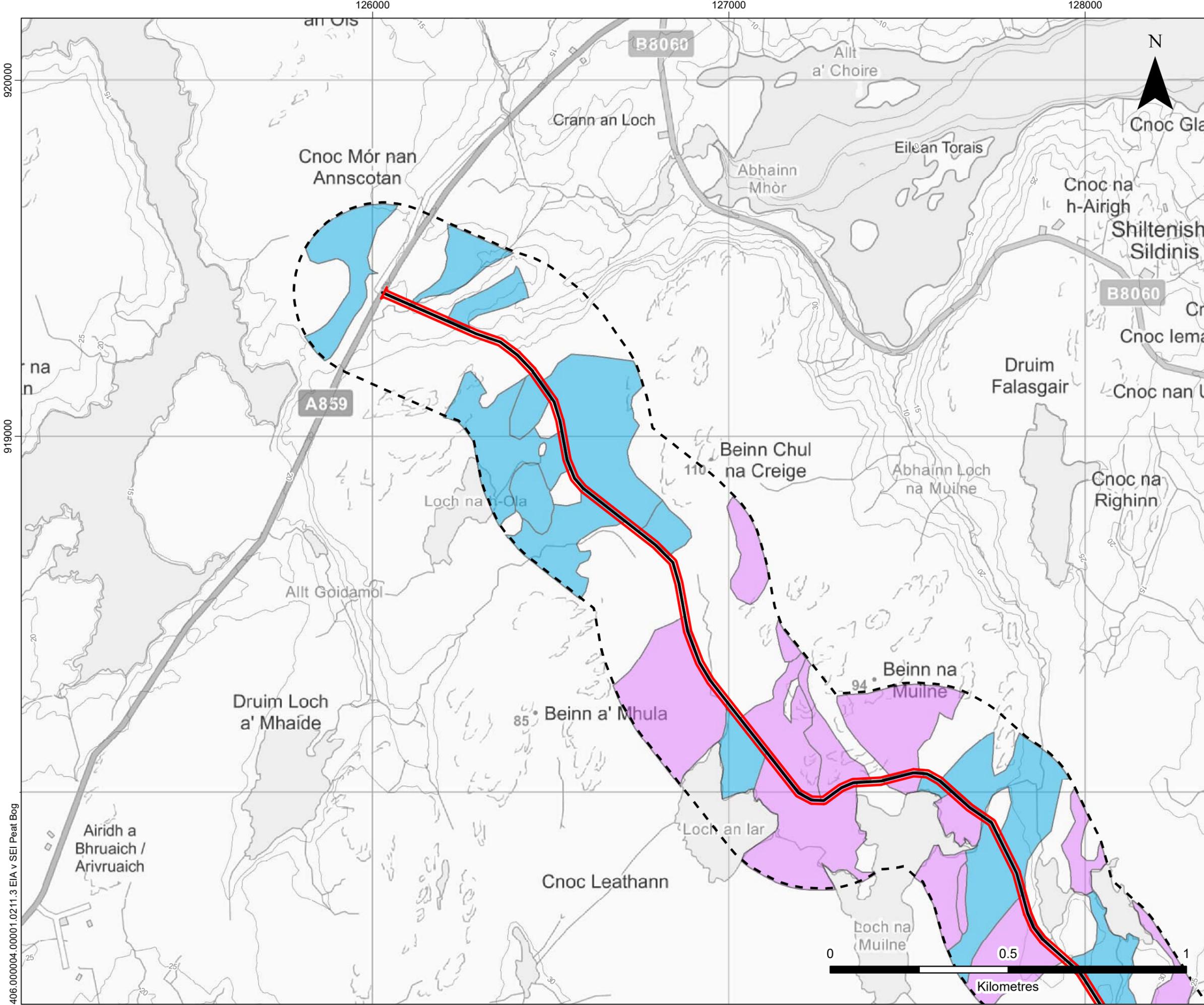
UISENIS WIND FARM - SEI
SITE DESCRIPTION AND DESIGN EVOLUTION
NEAR NATURAL PEAT BOG & DEGRADED PEAT BOG HABITATS

SEI FIGURE 2.10a

Scale: 1:40,000 @ A3 Date: JUNE 2024

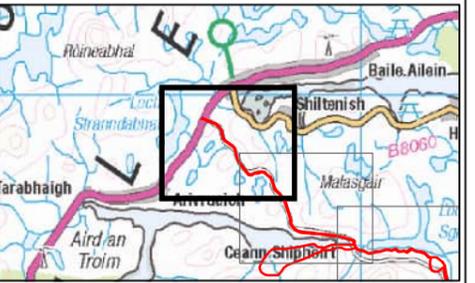
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LEGEND

- Application Boundary
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Existing Road (To Be Upgraded)



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UISENIS WIND FARM - SEI
SITE DESCRIPTION AND
DESIGN EVOLUTION

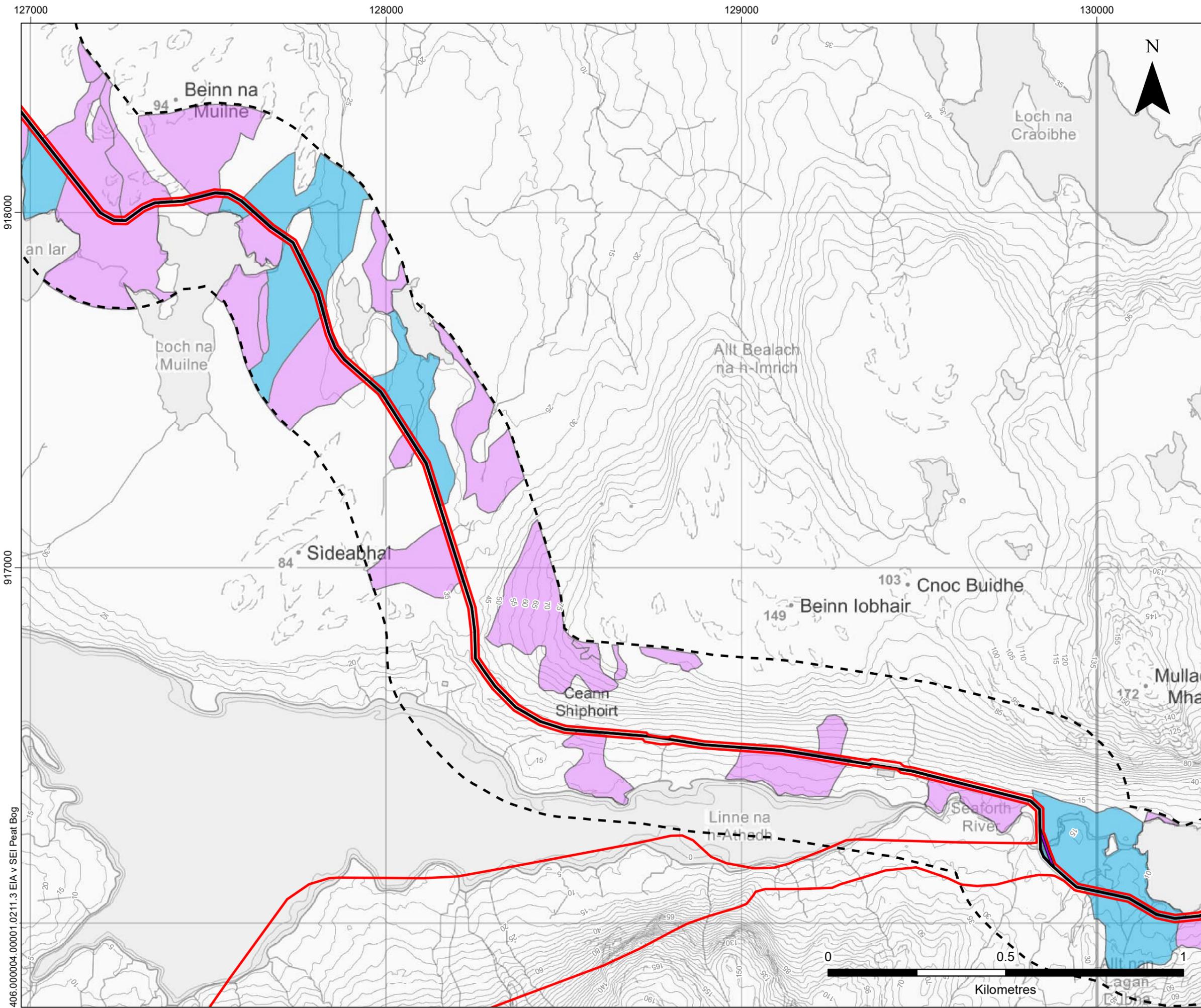
**NEAR NATURAL PEAT BOG &
DEGRADED PEAT BOG HABITATS**

SEI FIGURE 2.10b

Scale 1:10,000 @ A3	Date JUNE 2024
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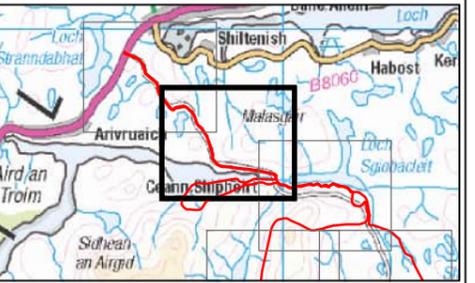


406.00004.00001.0211.3 EIA v SEI Peat Bog



LEGEND

- Application Boundary
- Proposed Temporary Bridge Alignment
- 2023 EIA Report Layout
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Existing Road (To Be Upgraded)



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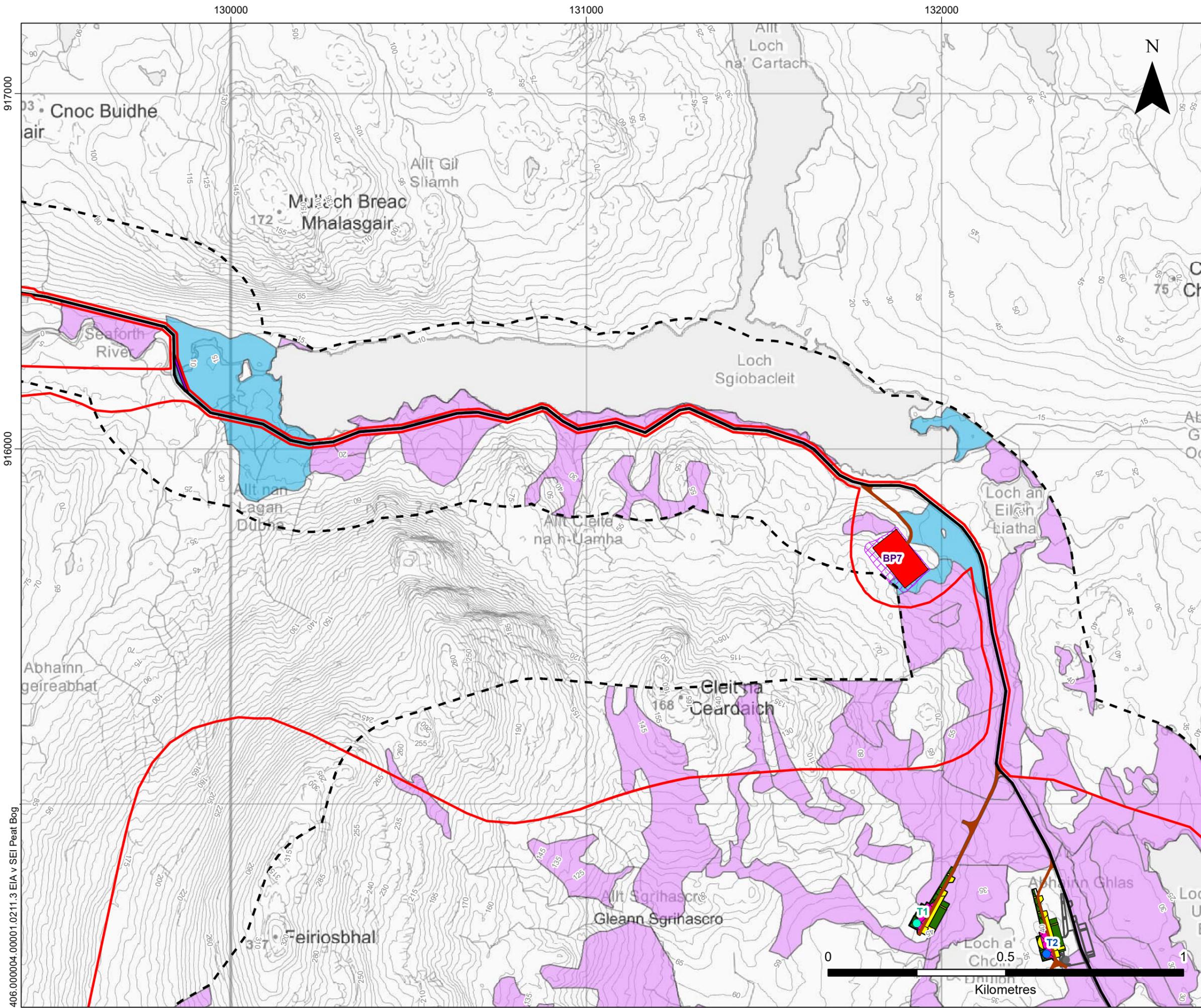
UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
**NEAR NATURAL PEAT BOG &
 DEGRADED PEAT BOG HABITATS**

SEI FIGURE 2.10c

Scale 1:10,000 @ A3 Date JUNE 2024

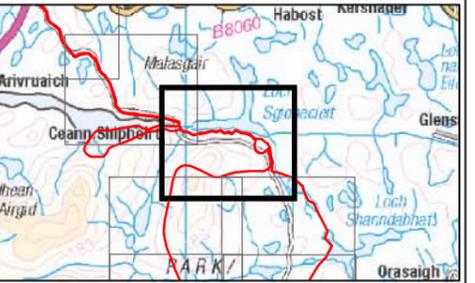


406.00004.00001.0211.3 EIA v SEI Peat Bog



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Clearance Area
- Potential Borrow Pit
- 2023 EIA Report Layout
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Proposed Access Track / Turning Head
- Existing Road (To Be Upgraded)



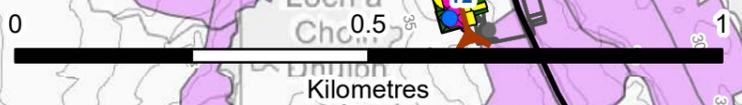
Eurowind Energy.



UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 NEAR NATURAL PEAT BOG &
 DEGRADED PEAT BOG HABITATS

SEI FIGURE 2.10d

Scale 1:10,000 @ A3 Date JUNE 2024



406.00004.00001.0211.3 EIA v SEI Peat Bog

129000

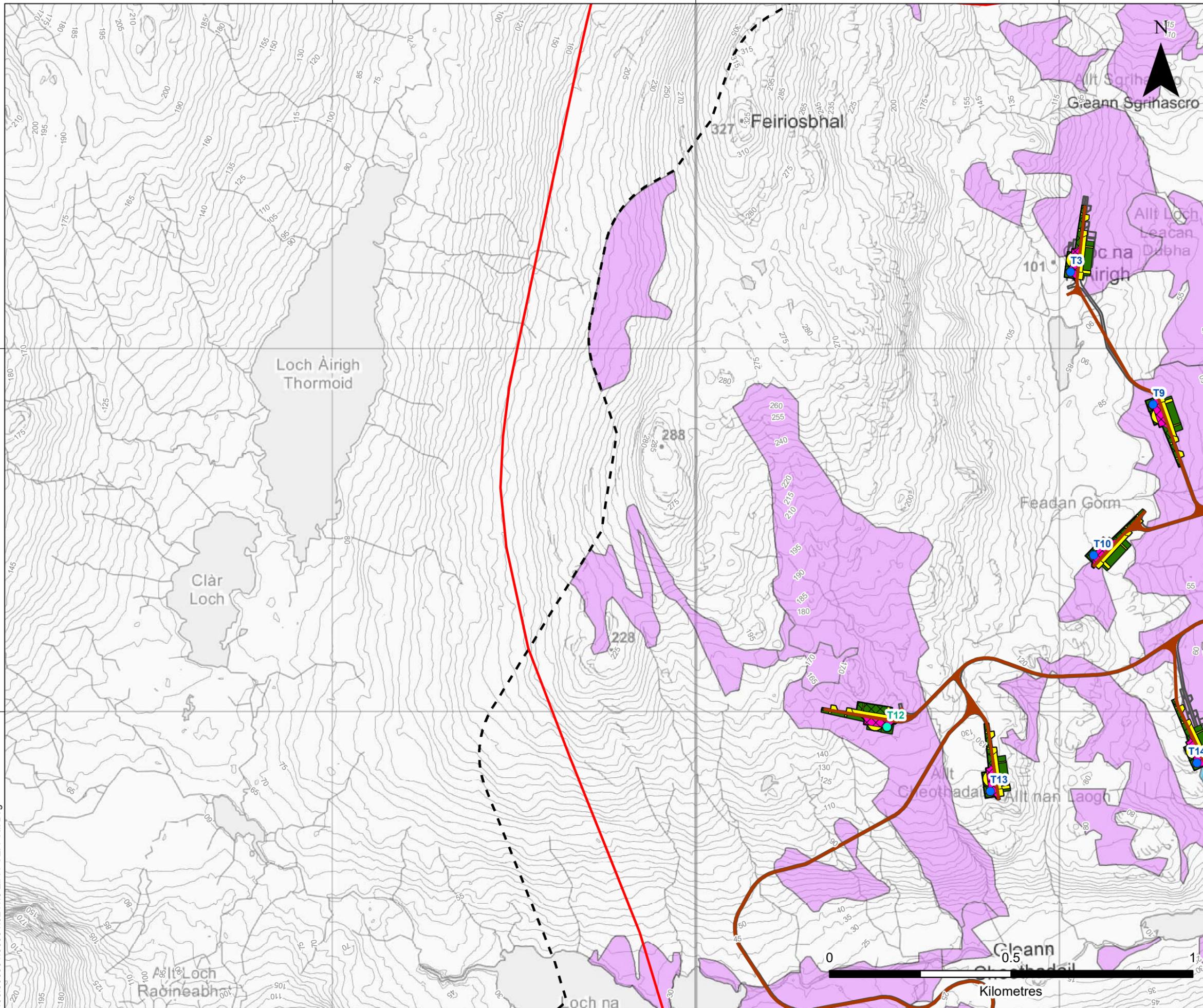
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131000

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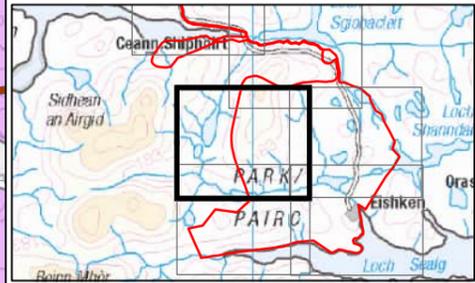
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406.00004.00001.0211.3 EIA v SEI Peat Bog



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- 2023 EIA Report Layout
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Proposed Access Track / Turning Head



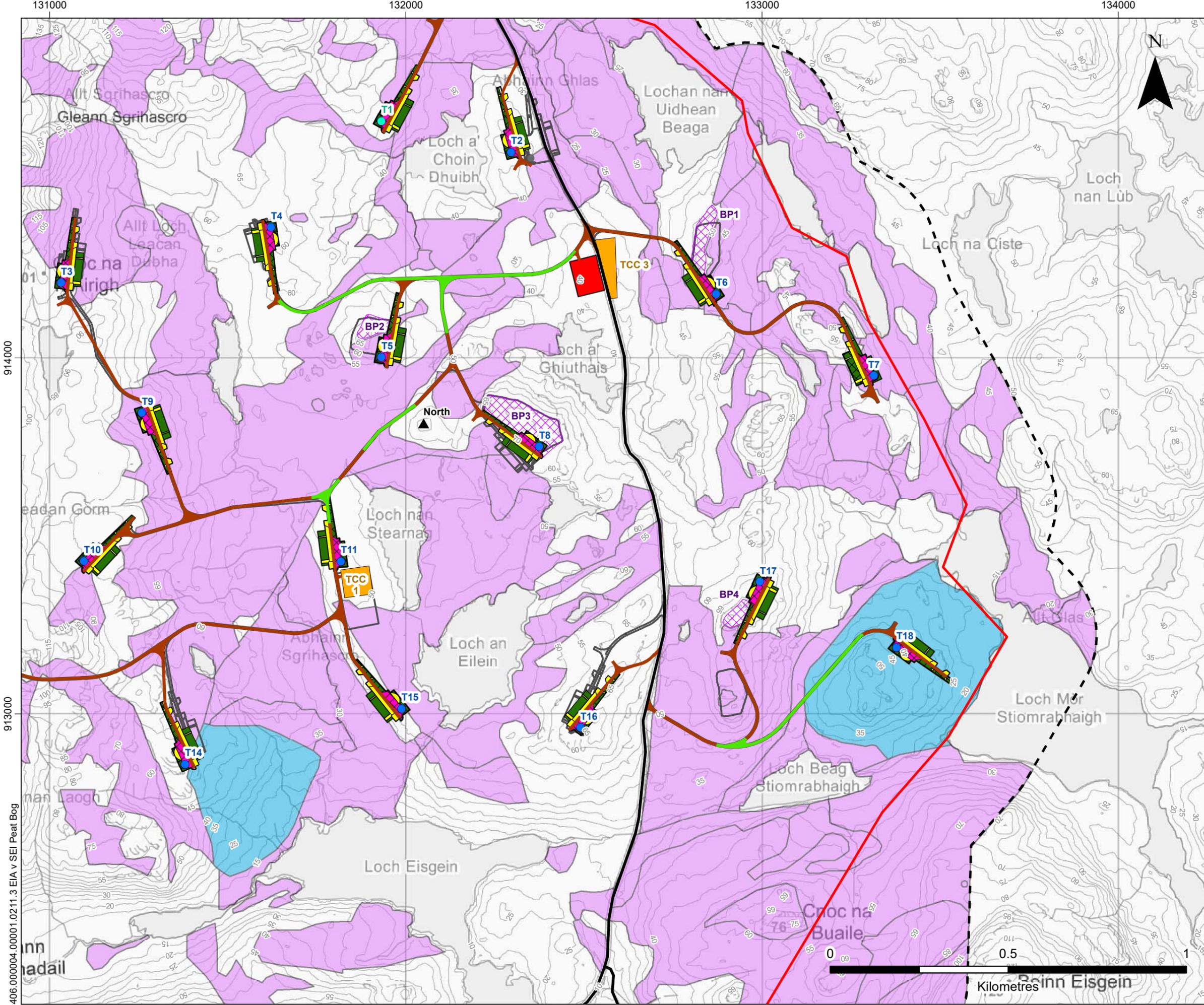
Eurowind Energy.



UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
**NEAR NATURAL PEAT BOG &
 DEGRADED PEAT BOG HABITATS**

SEI FIGURE 2.10e

Scale 1:10,000 @ A3 Date JUNE 2024



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
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- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)



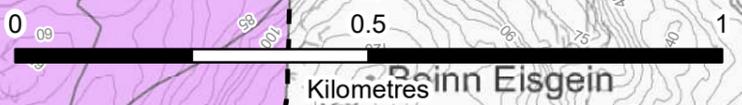
Eurowind Energy.

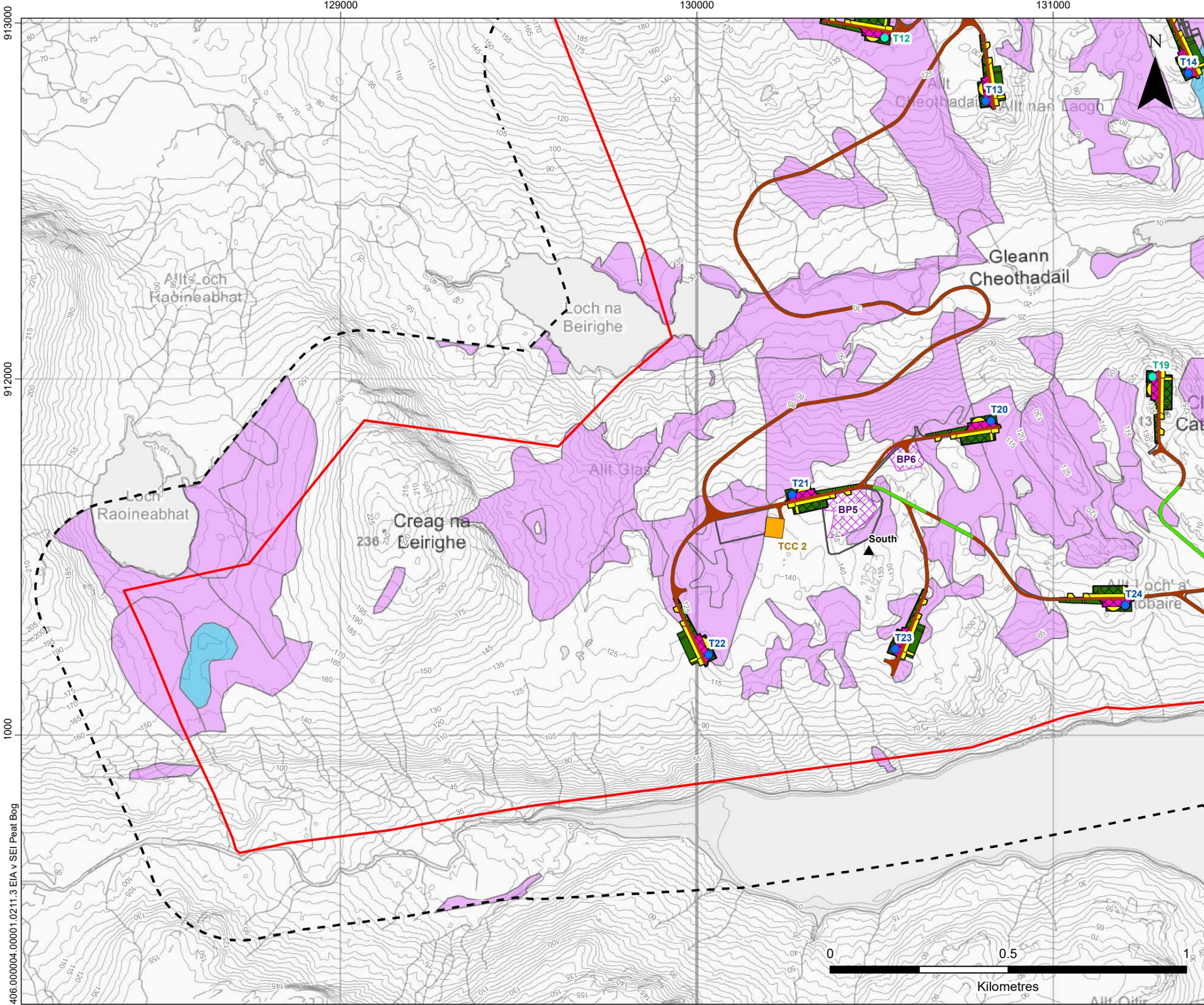


UISENIS WIND FARM - SEI
 SITE DESCRIPTION AND
 DESIGN EVOLUTION
 NEAR NATURAL PEAT BOG &
 DEGRADED PEAT BOG HABITATS

SEI FIGURE 2.10f

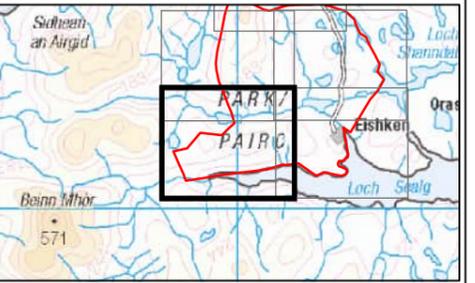
Scale 1:10,000 @ A3 Date JUNE 2024





LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- 2023 EIA Report Layout
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Proposed Access Track / Turning Head
- Proposed Floating Access Track



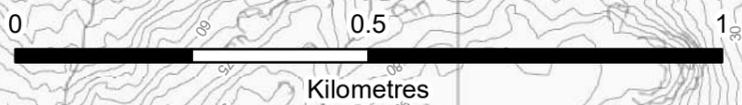
Eurowind Energy.



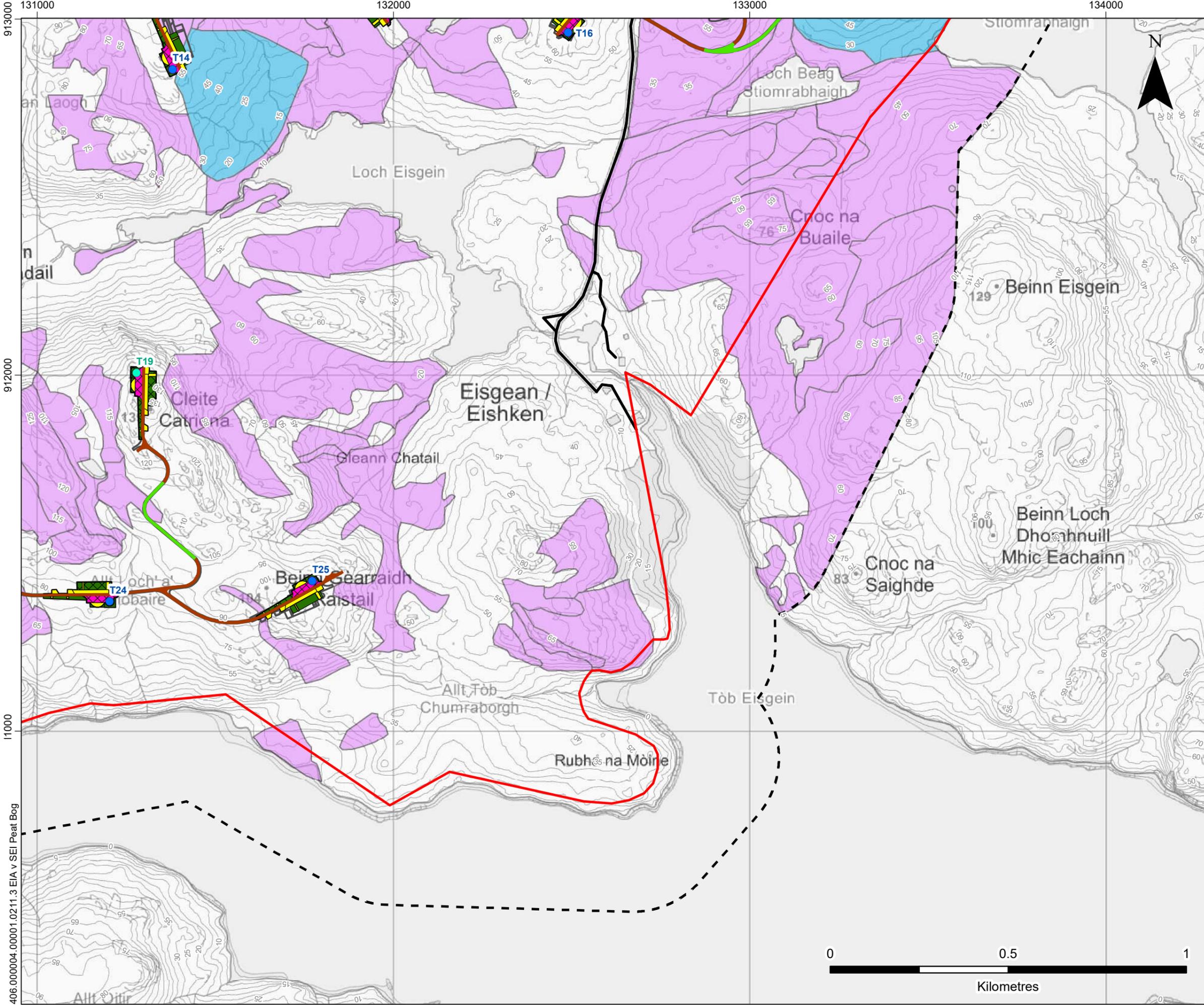
UISENIS WIND FARM - SEI
SITE DESCRIPTION AND DESIGN EVOLUTION
NEAR NATURAL PEAT BOG & DEGRADED PEAT BOG HABITATS

SEI FIGURE 2.10g

Scale: 1:10,000 @ A3 Date: JUNE 2024

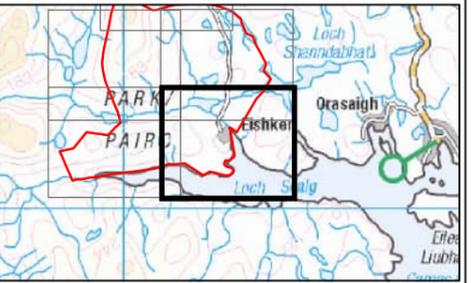


406.00004.00001.0211.3 EIA v SEI Peat Bog



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- 2023 EIA Report Layout
- Survey Area 250 m Buffer
- Near Natural Condition Blanket Bog
- Drained Blanket Bog
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)



Eurowind Energy.

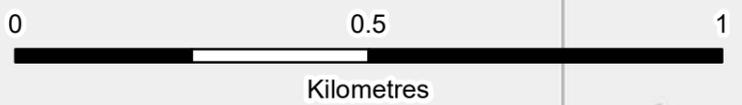
SLR

UISENIS WIND FARM - SEI
SITE DESCRIPTION AND
DESIGN EVOLUTION

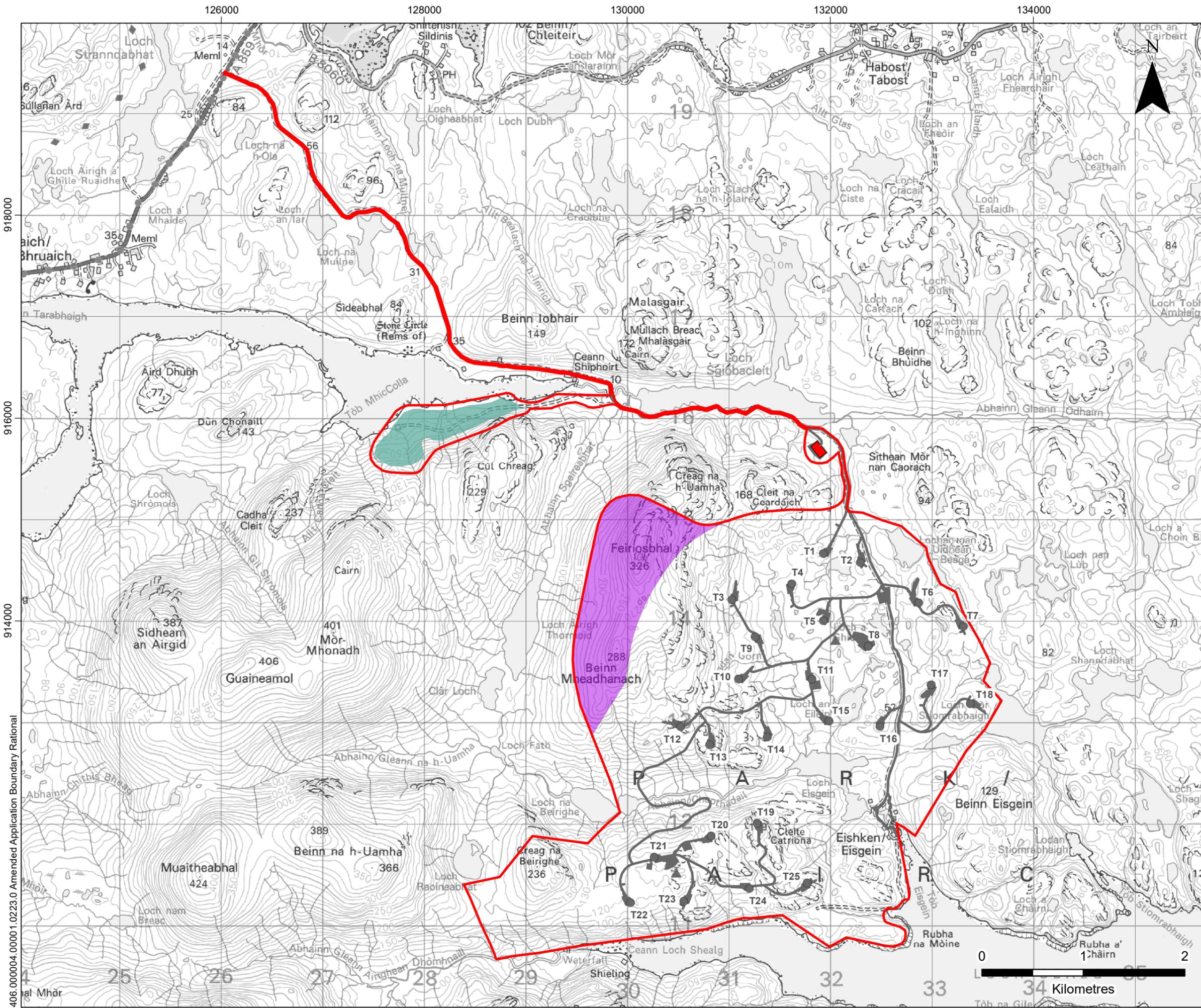
**NEAR NATURAL PEAT BOG &
DEGRADED PEAT BOG HABITATS**

SEI FIGURE 2.10h

Scale 1:10,000 @ A3	Date JUNE 2024
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131000
913000
912000
11000
406.00004.00001.0211.3 EIA v SEI Peat Bog



LEGEND

- Application Boundary
- Additional Substation Compound
- SEI Site Layout
- Additional Wet Heath Restoration Area
- Additional Peat Restoration Area



Eurowind Energy.

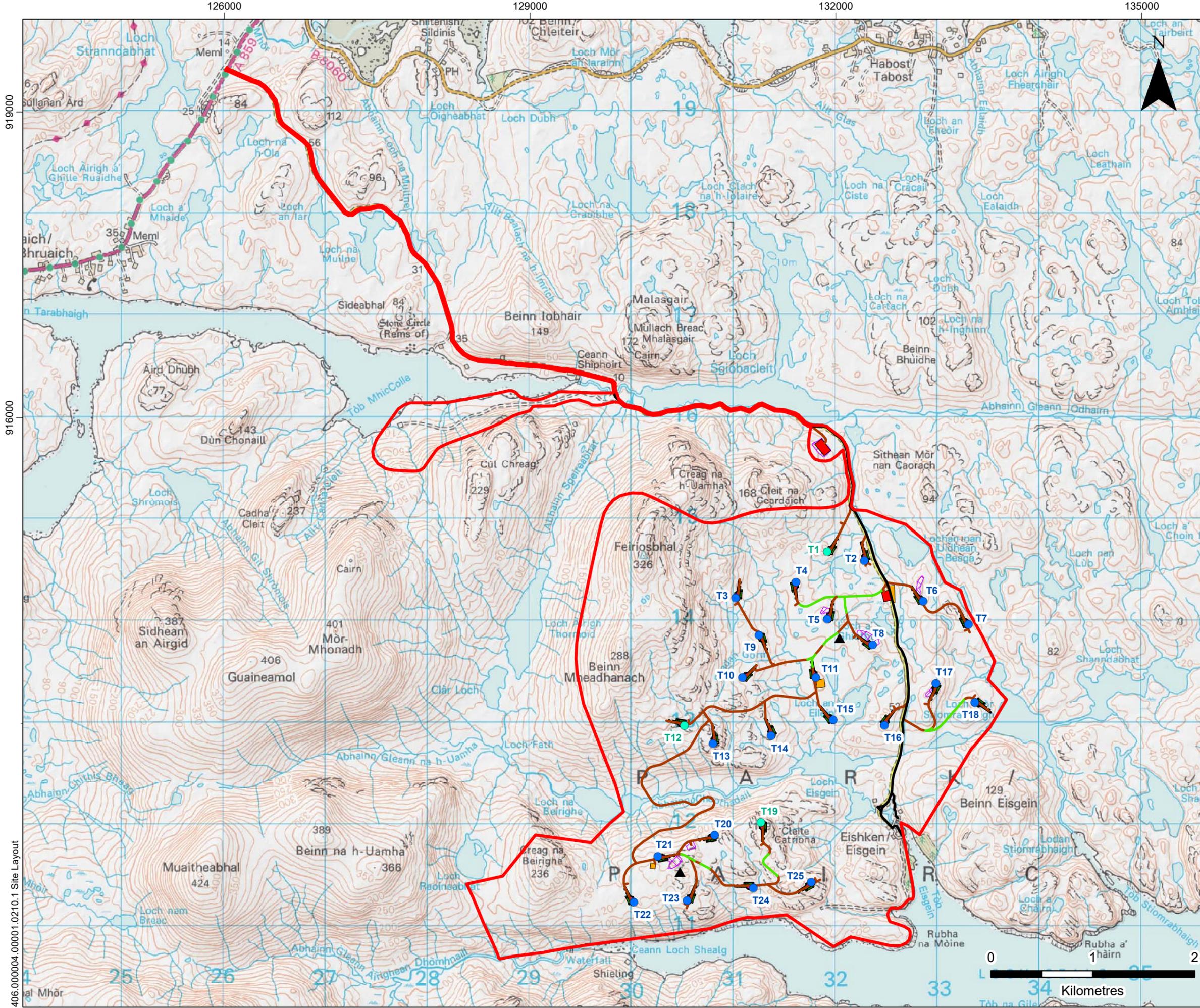


**UISENIS WIND FARM - SEI
SITE DESCRIPTION AND
DESIGN EVOLUTION
AMENDED APPLICATION
BOUNDARY RATIONAL**

SEI FIGURE 2.11

Scale: 1:35,000 @ A3 Date: MAY 2024

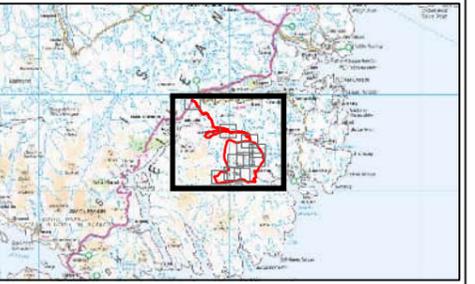
406.000004.00001.0223.0 Amended Application Boundary Rational



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Note
Turbine 19 to 25 have Painted Blade Mitigation



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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1a

Scale 1:35,000 @ A3 Date MAY 2024

406.00004.00001.0210.1 Site Layout

125600

126000

126400

126800

920000

919600

919200

406.000004.00001.0210.1 Site Layout

Cnoc Mór nan Annscothan

A859

Loch na h-Ola

Allt Goidamol

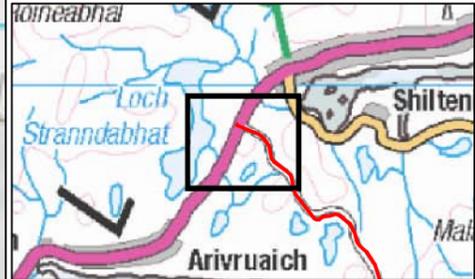
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LEGEND

-  Application Boundary
-  Existing Road (To Be Upgraded)

Note
Turbine 19 to 25 have Painted Blade Mitigation



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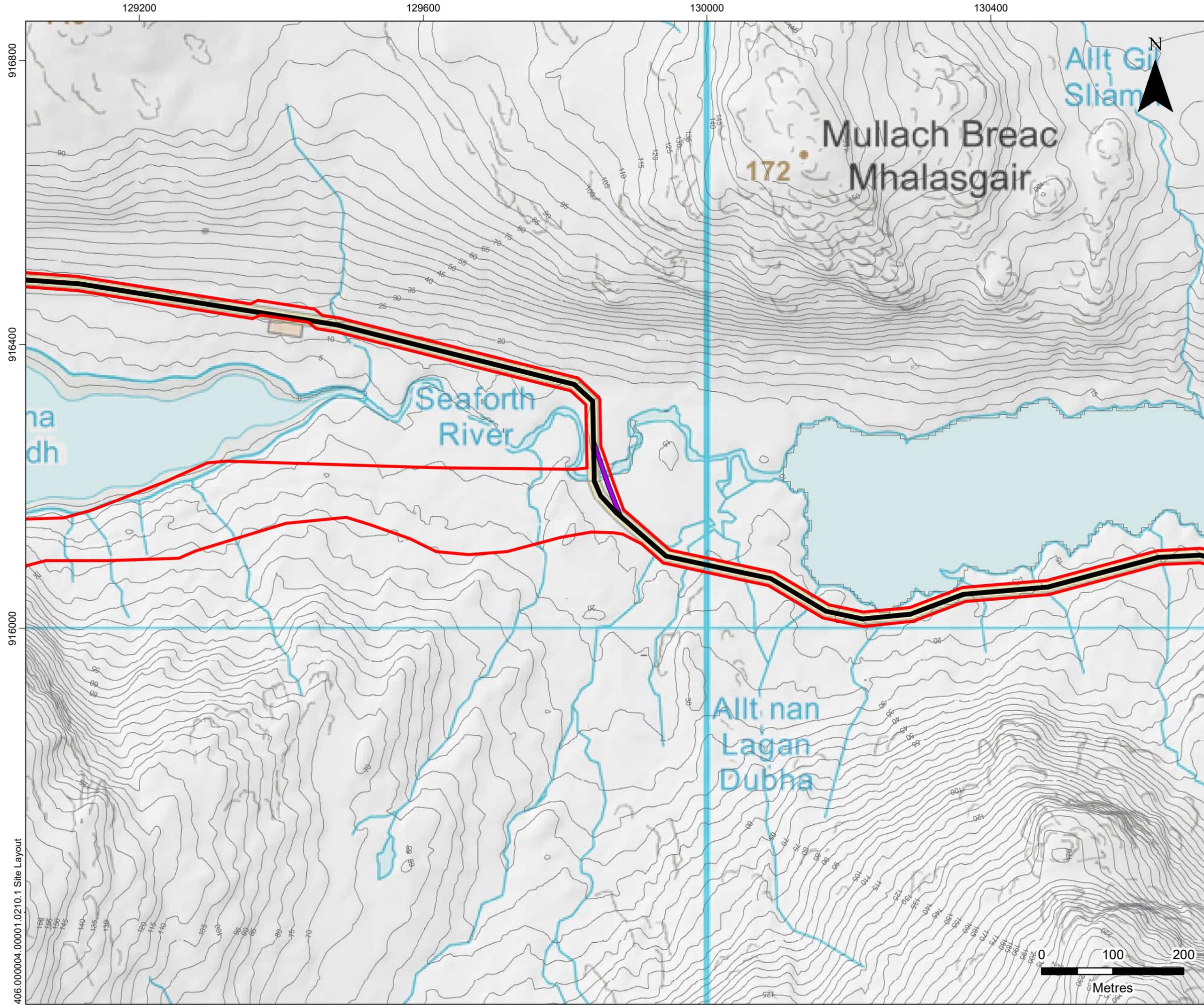


UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1b



Scale 1:5,000 @ A3 Date MAY 2024

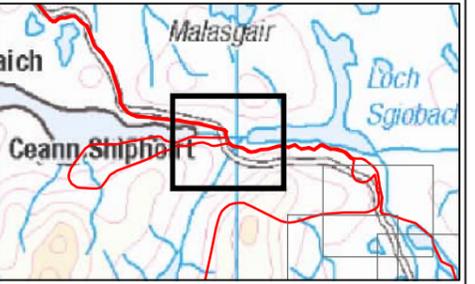


LEGEND

- Application Boundary
- Proposed Temporary Bridge Alignment
- Existing Road (To Be Upgraded)



Note
Turbine 19 to 25 have Painted Blade Mitigation

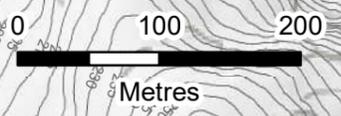


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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1c



Scale 1:5,000 @ A3 Date MAY 2024

406.00004.00001.0210.1 Site Layout

131600

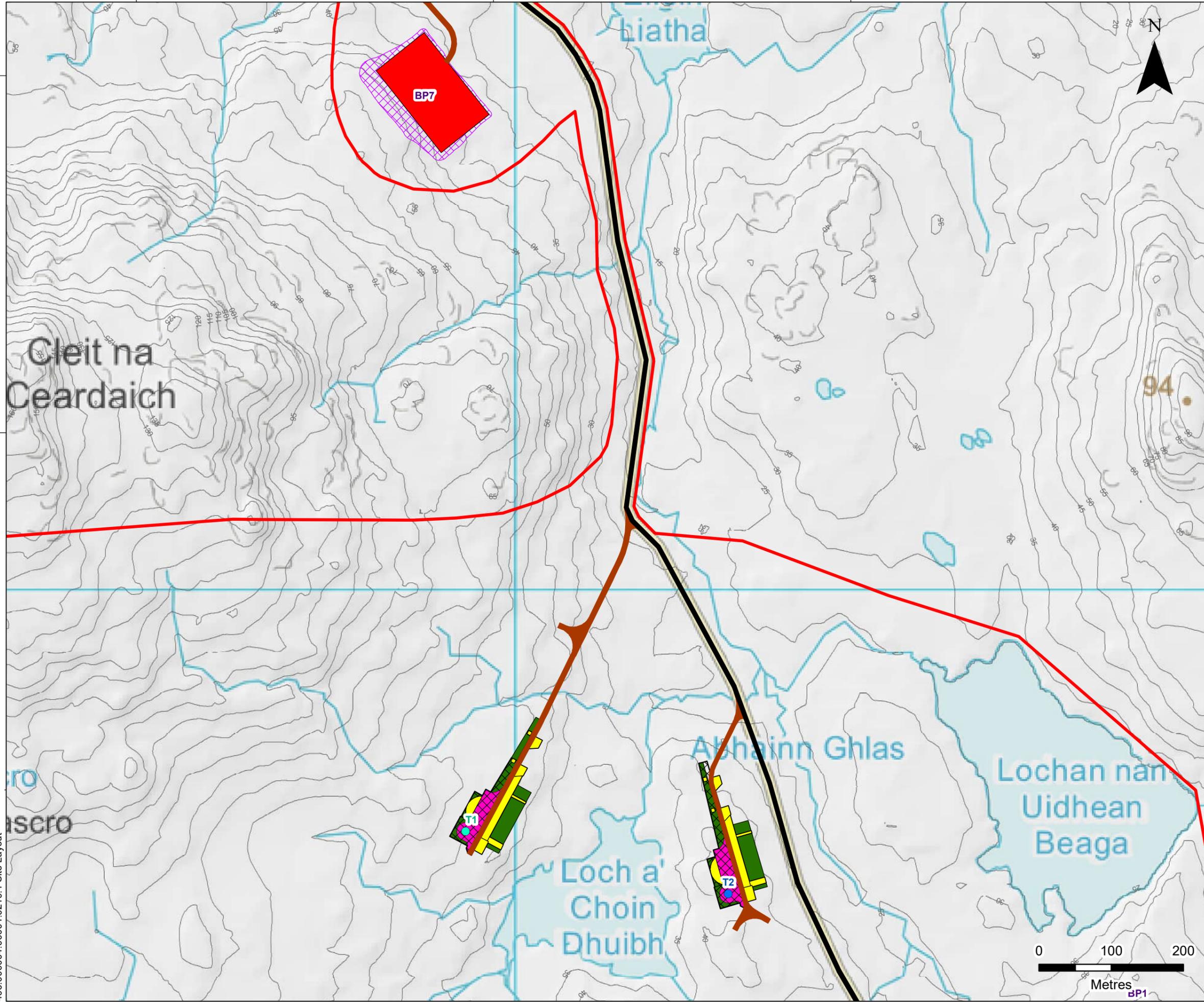
132000

132400

915600

915200

406.00004.00001.0210.1 Site Layout

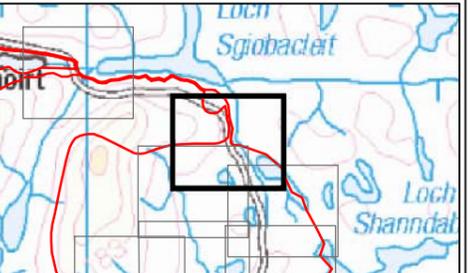


LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Existing Road (To Be Upgraded)



Note
Turbine 19 to 25 have Painted Blade Mitigation



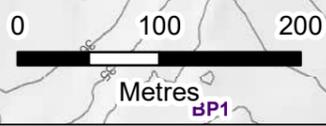
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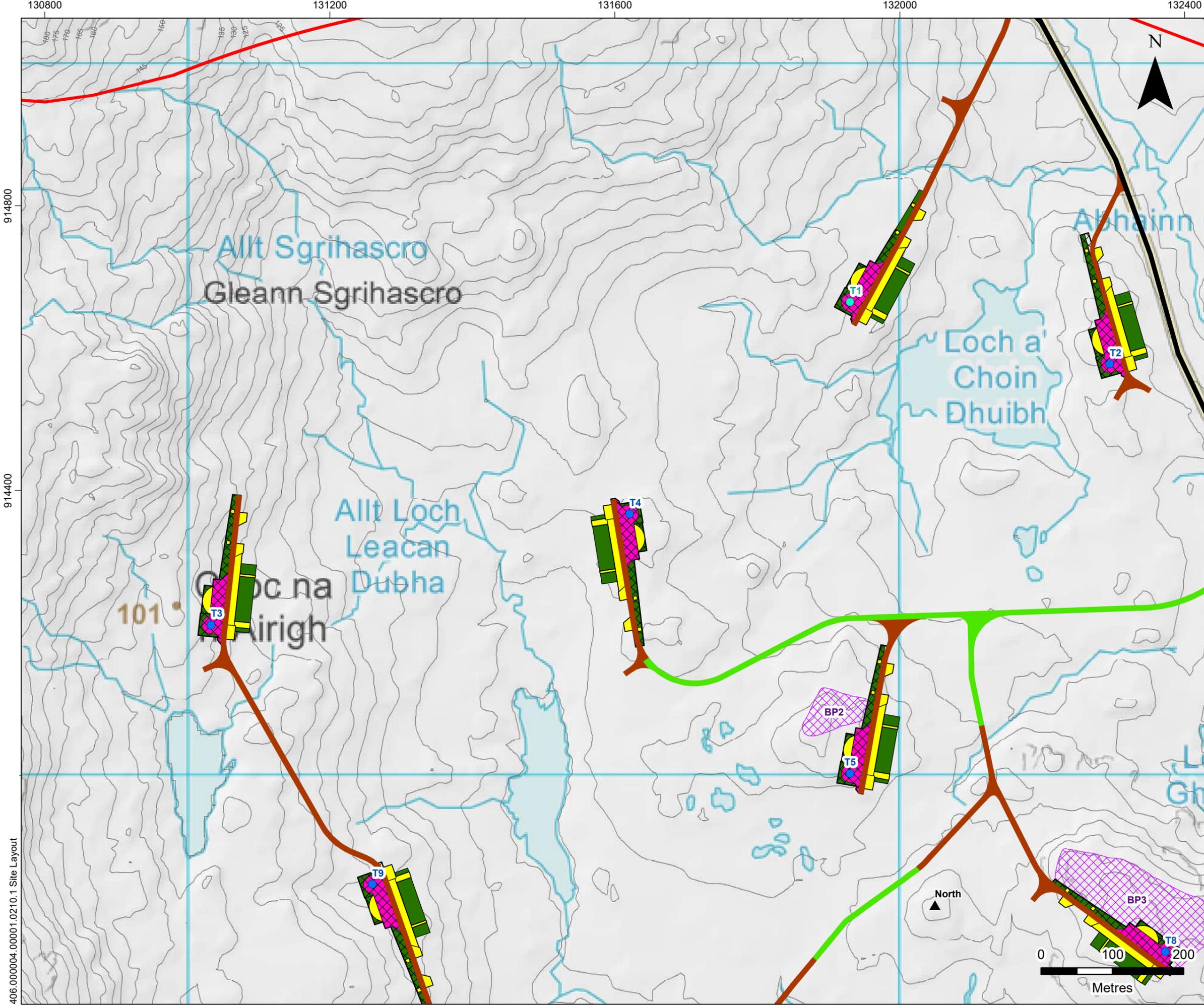
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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1d

Scale 1:5,000 @ A3	Date MAY 2024
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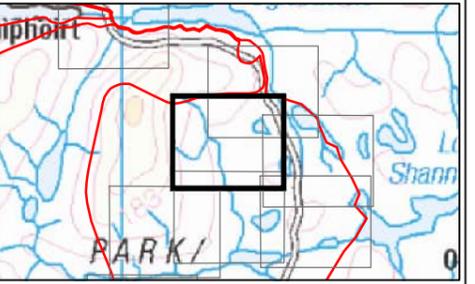




LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Note
Turbine 19 to 25 have Painted Blade Mitigation



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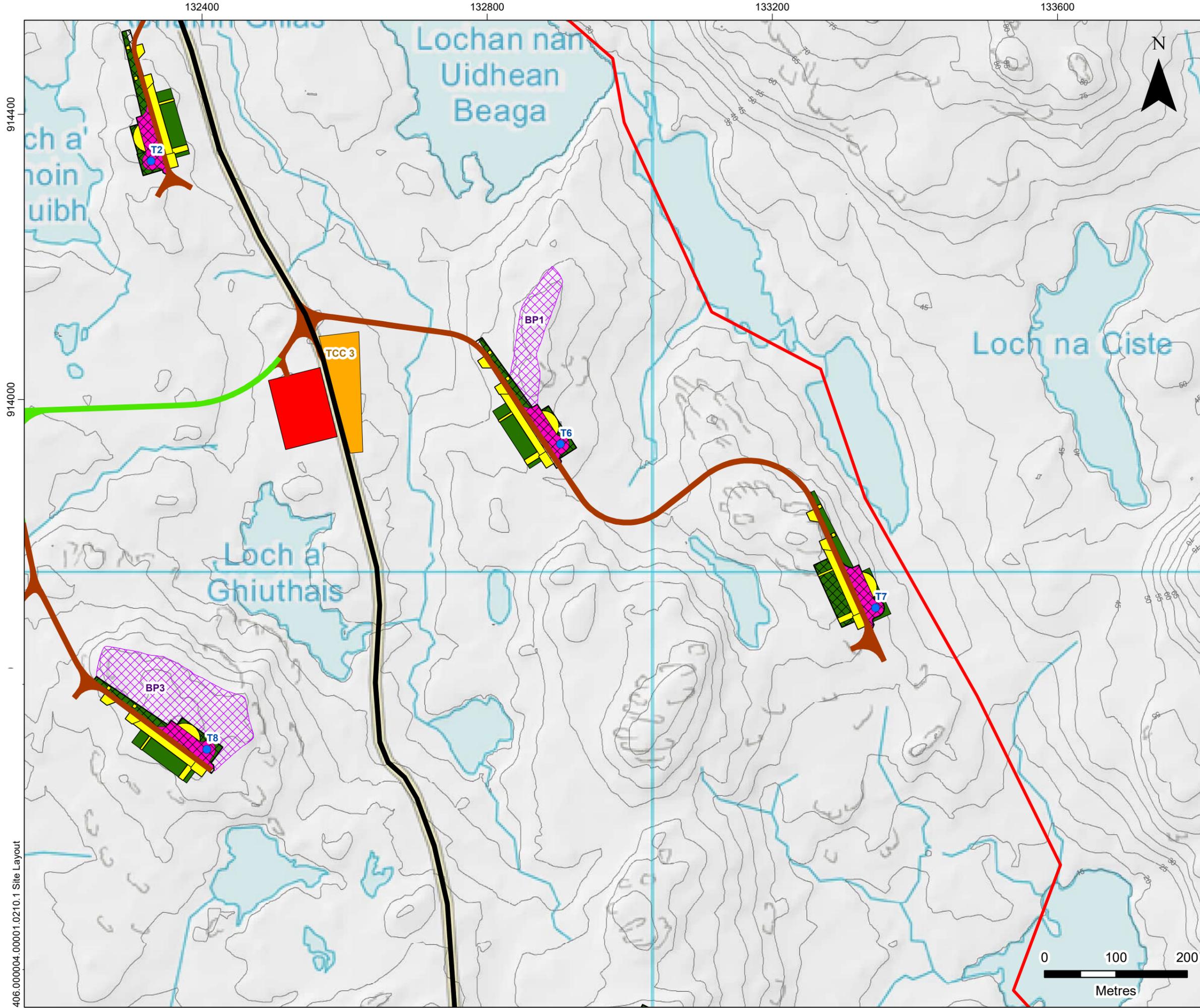
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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1e

Scale 1:5,000 @ A3	Date MAY 2024
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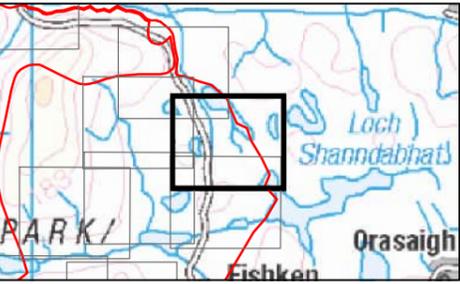
406.000004.00001.0210.1 Site Layout



LEGEND

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Note
Turbine 19 to 25 have Painted Blade Mitigation



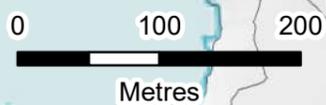
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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1f

Scale 1:5,000 @ A3	Date MAY 2024
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406.00004.00001.0210.1 Site Layout

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131200

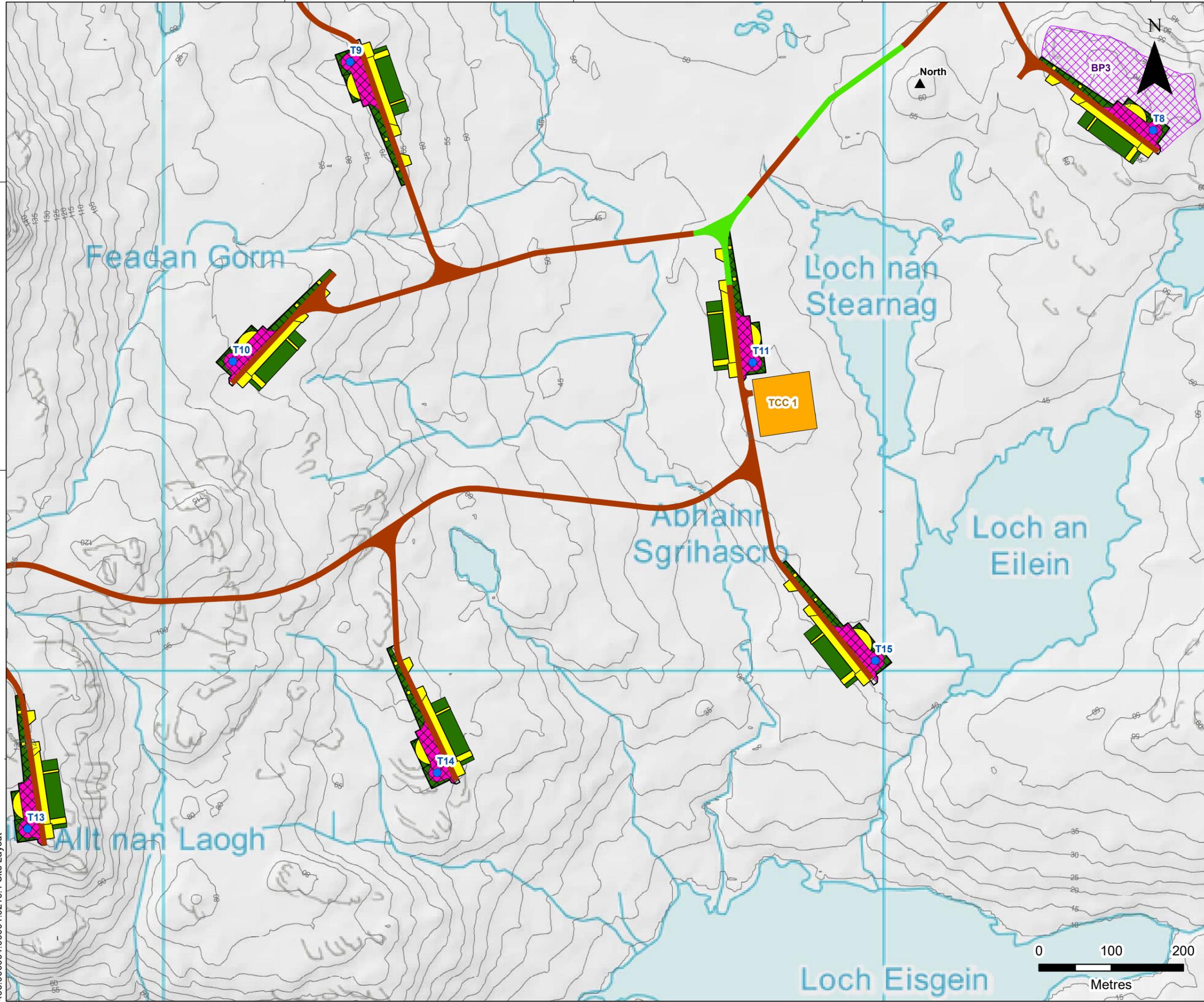
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132000

913600

913200

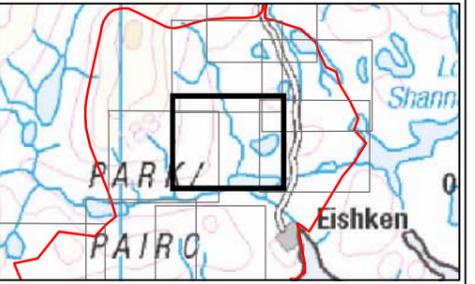
406.00004.00001.0210.1 Site Layout



LEGEND

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

Note
Turbine 19 to 25 have Painted Blade Mitigation



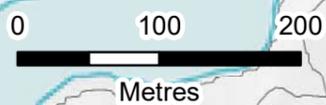
Eurowind Energy.

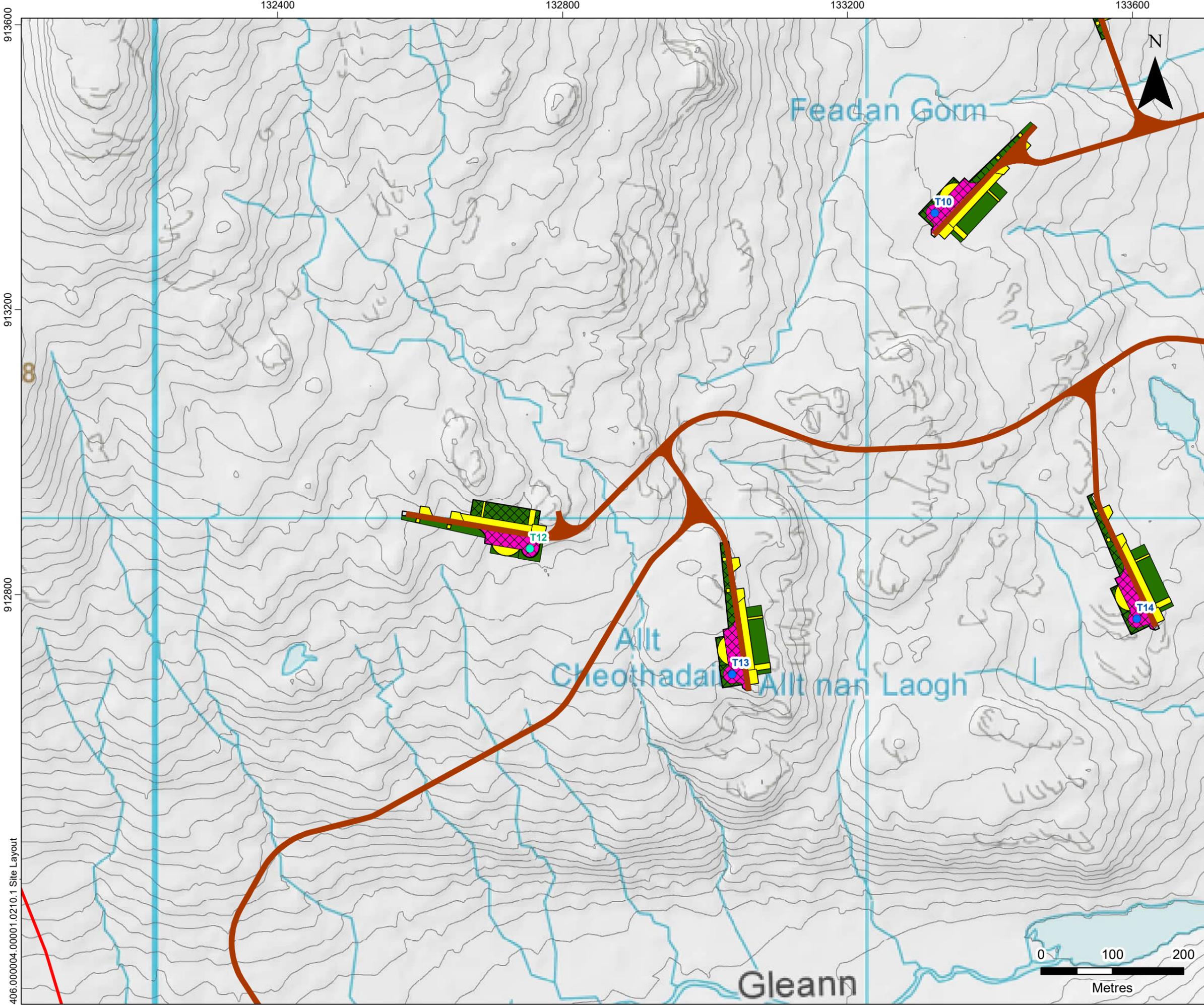
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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1g

Scale 1:5,000 @ A3	Date MAY 2024
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LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head

Note
Turbine 19 to 25 have Painted Blade Mitigation



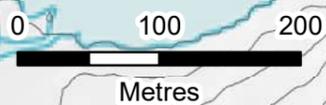
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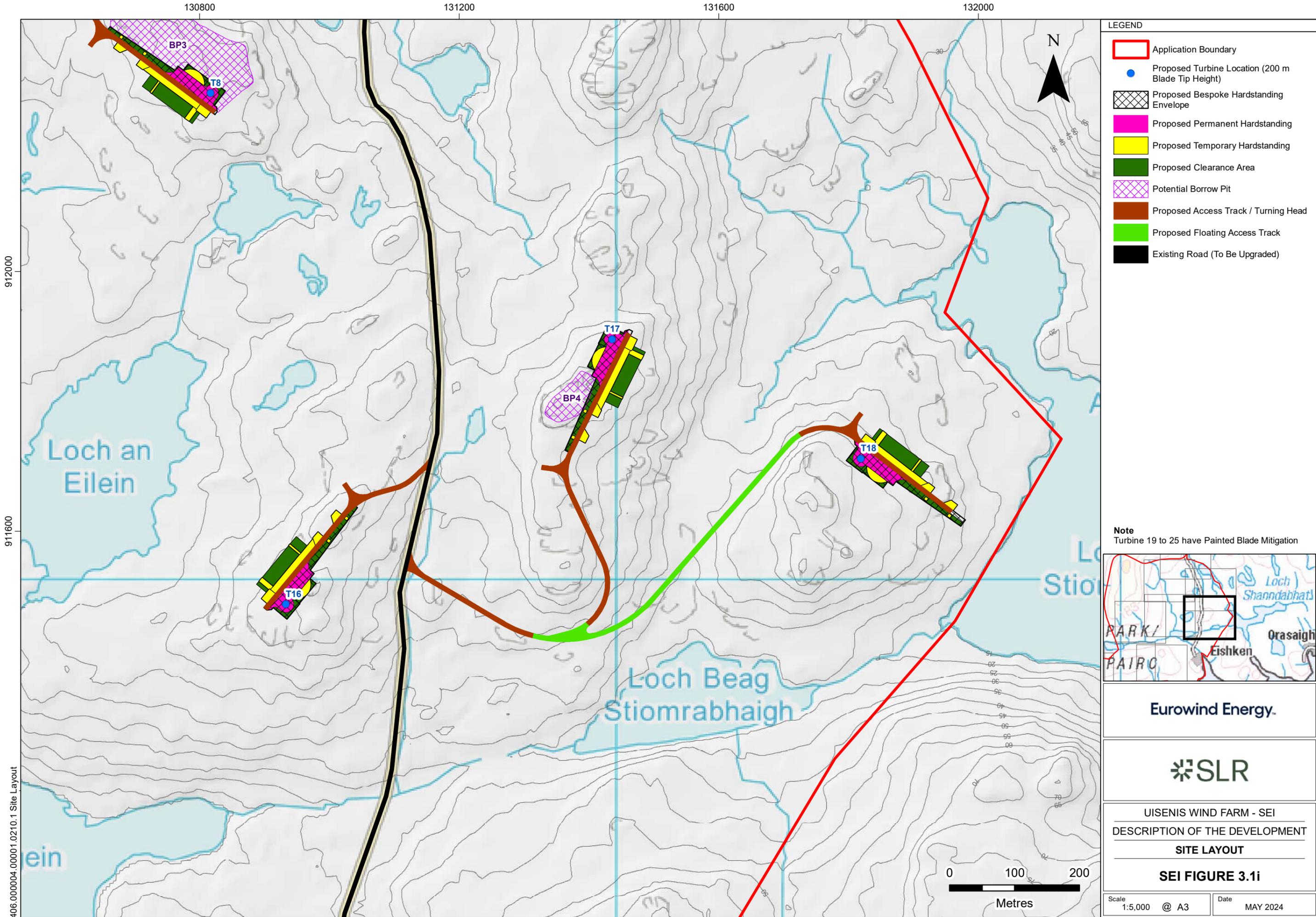
UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1h

Scale 1:5,000 @ A3	Date MAY 2024
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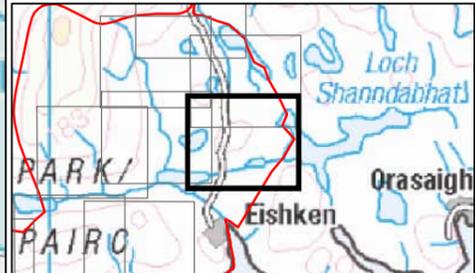
406.000004.00001.0210.1 Site Layout



LEGEND

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Note
Turbine 19 to 25 have Painted Blade Mitigation



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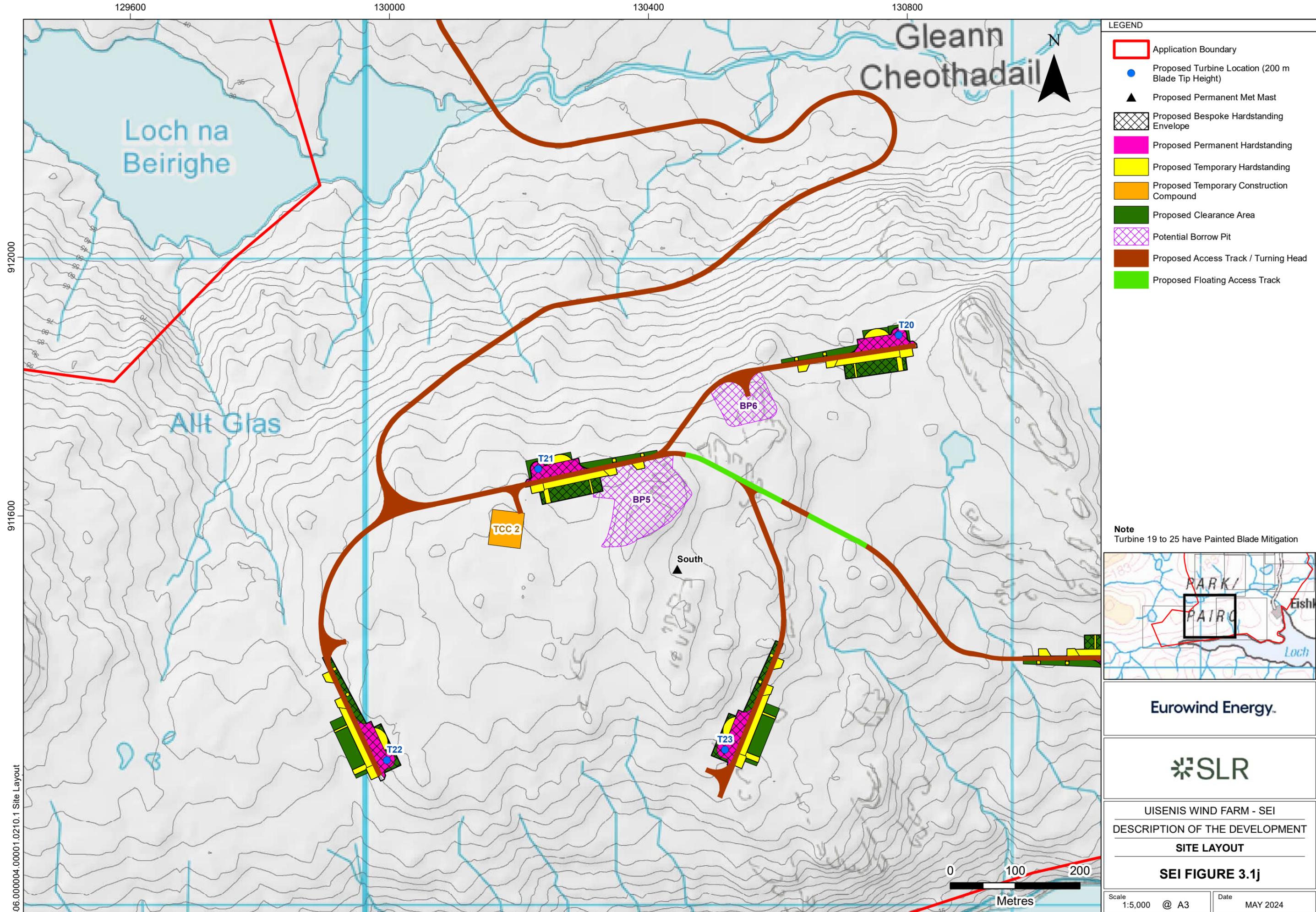
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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1i

Scale 1:5,000 @ A3	Date MAY 2024
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406.00004.00001.0210.1 Site Layout



LEGEND

- Application Boundary
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

Note
Turbine 19 to 25 have Painted Blade Mitigation



Eurowind Energy.

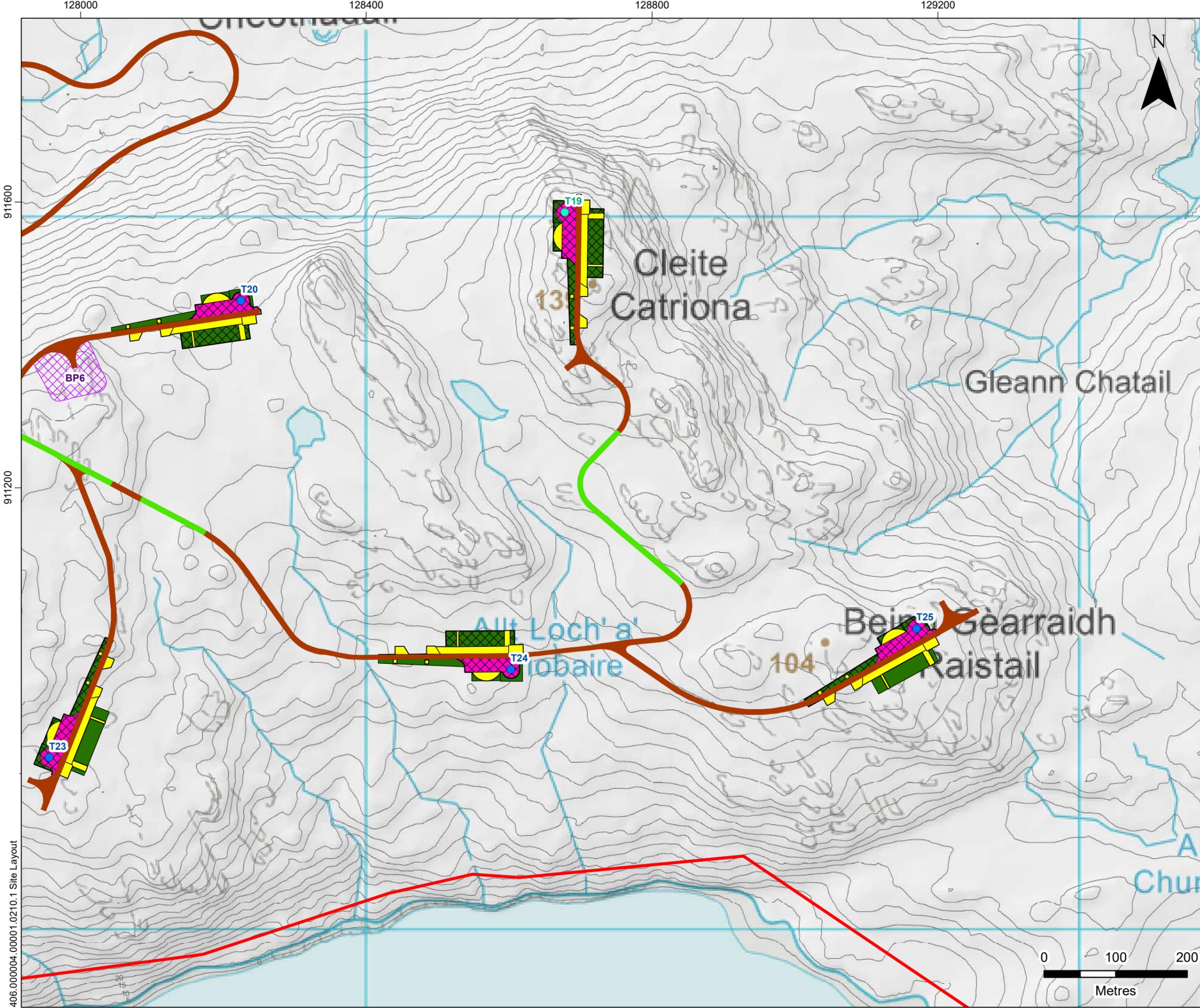
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UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1j

Scale 1:5,000 @ A3	Date MAY 2024
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406.00004.00001.0210.1 Site Layout



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

Note
Turbine 19 to 25 have Painted Blade Mitigation



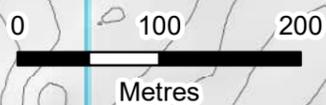
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SLR

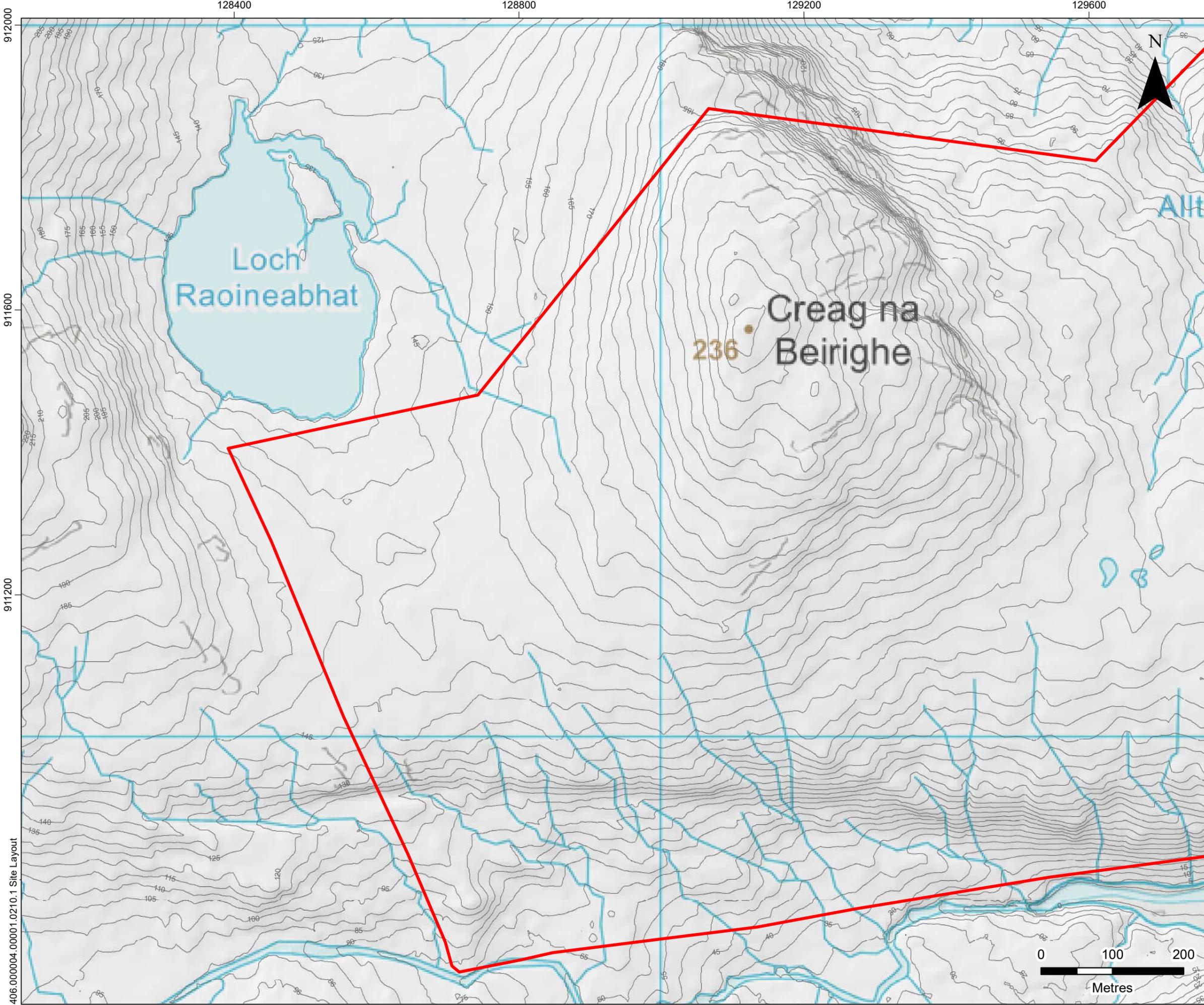
UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

SEI FIGURE 3.1k

Scale 1:5,000 @ A3	Date MAY 2024
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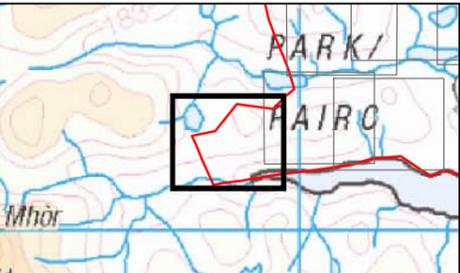
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LEGEND

 Application Boundary

Note
Turbine 19 to 25 have Painted Blade Mitigation



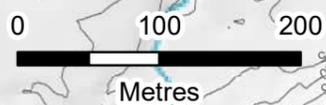
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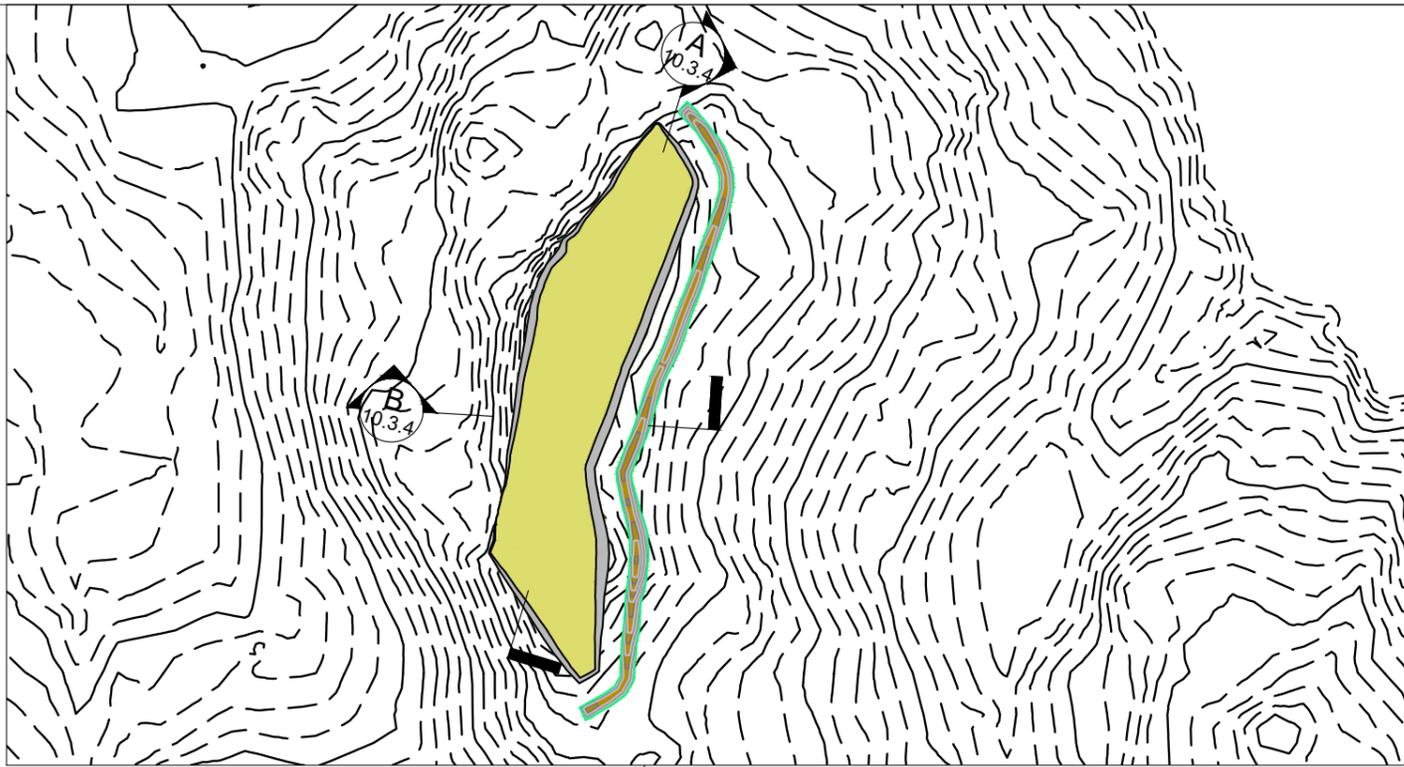


UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
SITE LAYOUT

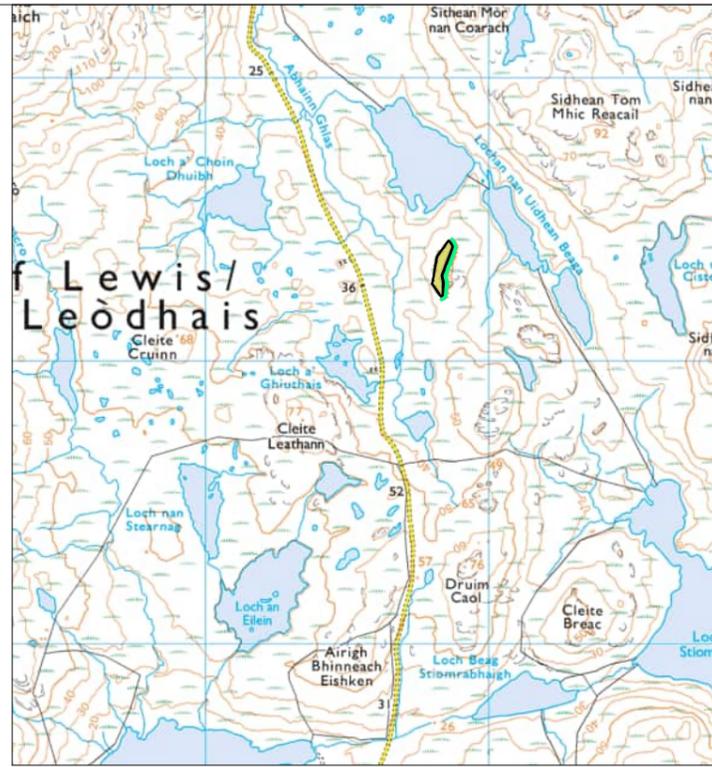
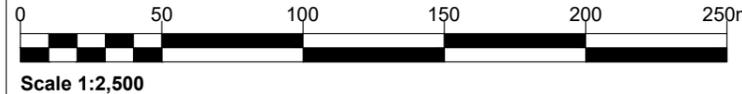
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Scale 1:5,000 @ A3 Date MAY 2024

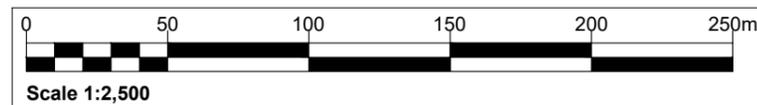




01 | PLAN OF BORROW PIT
SCALE: 1:2500

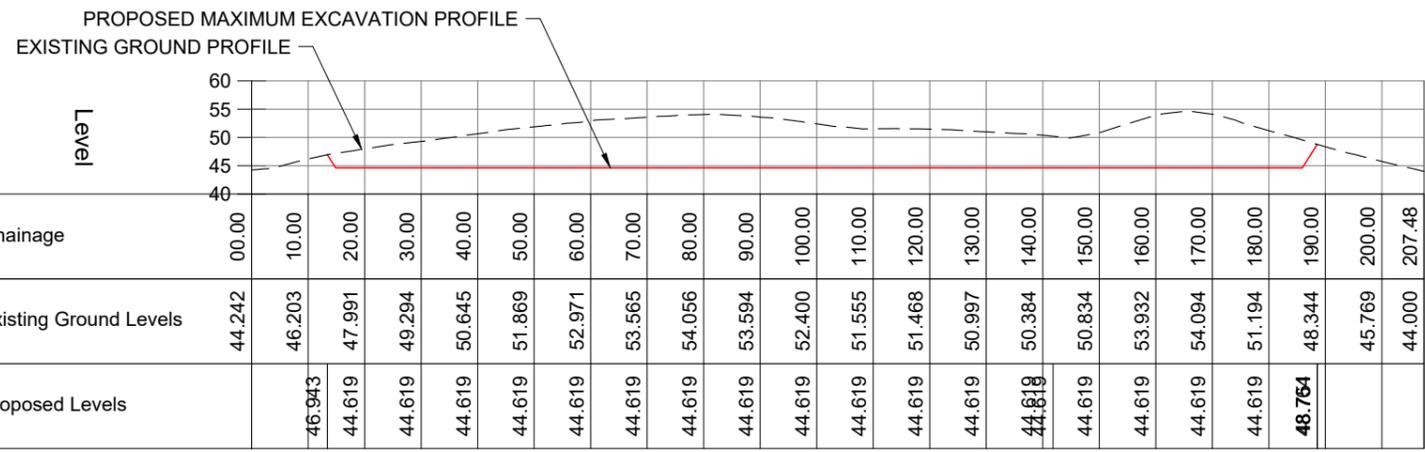


02 | LOCATION PLAN
SCALE: 1:25000

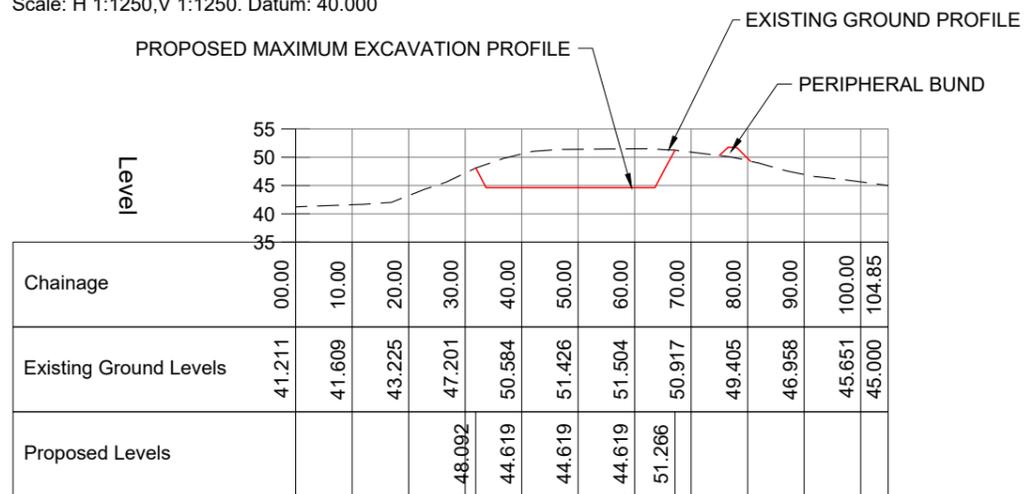


- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

- Legend:**
- Bench/base of excavation
 - Excavation batter
 - Peripheral bund

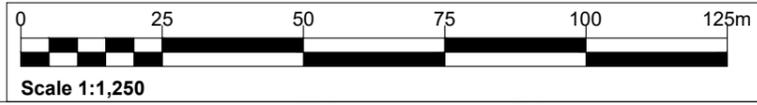


SECTION A
Scale: H 1:1250, V 1:1250. Datum: 40.000



SECTION B
Scale: H 1:1250, V 1:1250. Datum: 35.000

TOTAL EXCAVATION VOLUME	40,293m ³
OVERBURDEN VOLUME	3,476m ³
NET STONE VOLUME	36,817m ³
PERIPHERAL BUND FILL	1,530m ³
NET STONE TONNAGE	73,634T
EXCAVATION AREA	6,592m ²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 7.2m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 132831 N: 914332



Rev	Amendments	Date	By	Chk	Auth
0		05/24	IG	RW	RW



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Client
Eurowind Energy

Project
SEI Chapter 3: Description of Development

Figure Title
Borrow Pit 1

Scale
As shown @ A3

SLR Project No.
405.V64341.00001

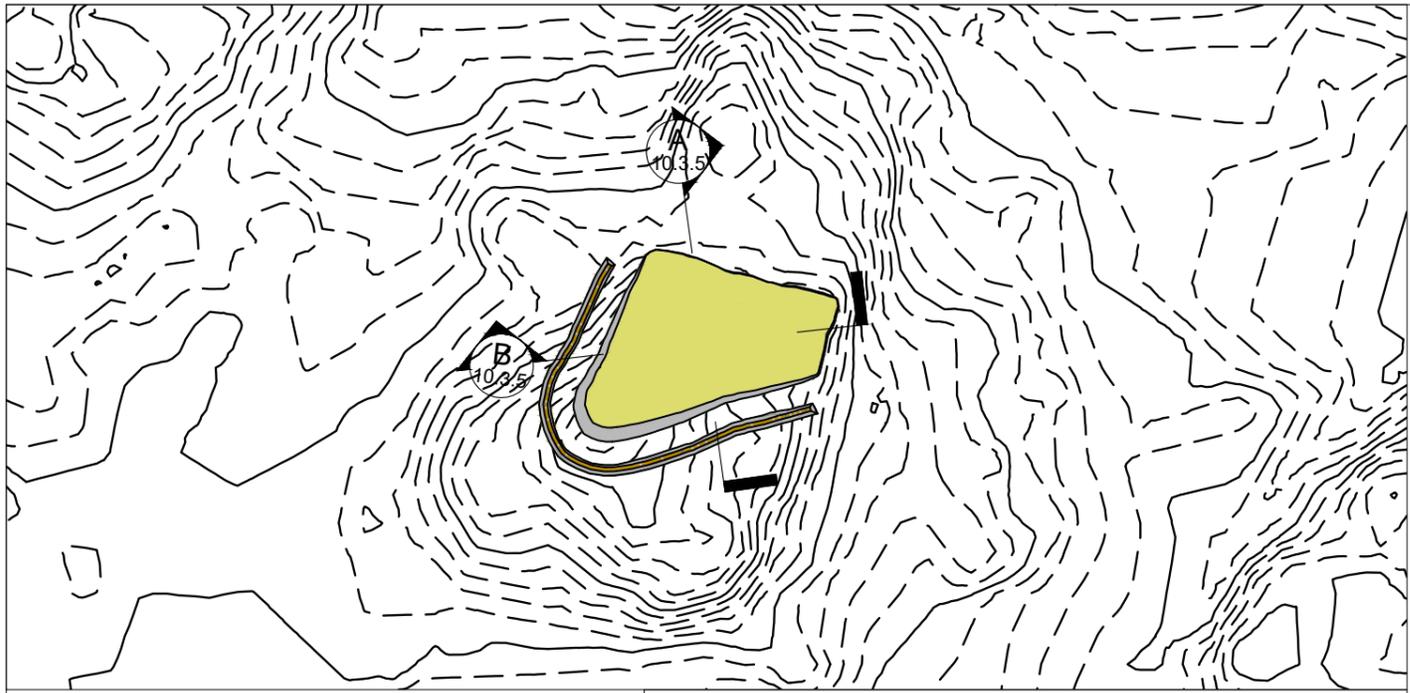
Designed	Drawn	Checked	Authorised
IG	IG	RW	RW

Date	Date	Date	Date
	05/24	05/24	05/24

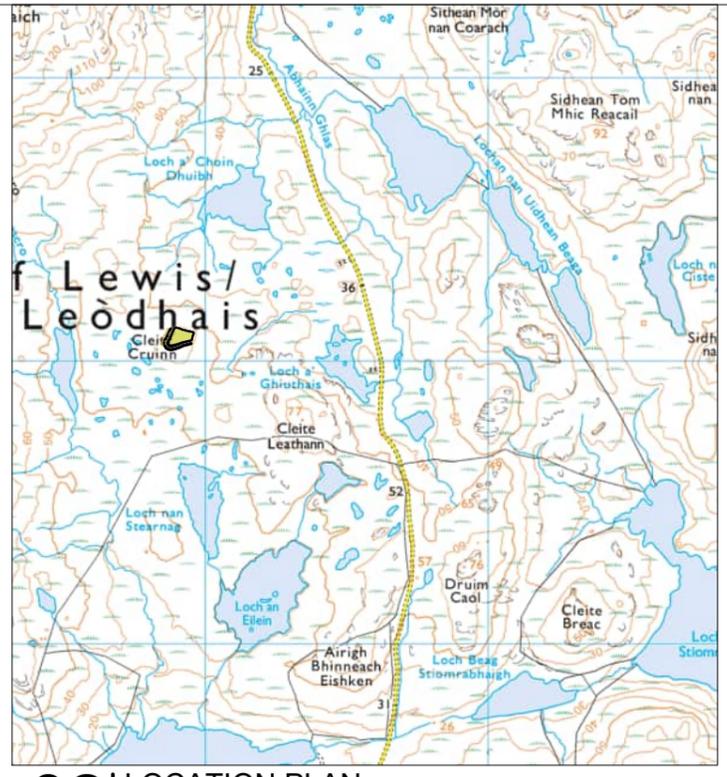
Figure Number
SEI Figure 3.9a

Rev.
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23/05/2024
Ian Green
\\E:\EDF\SEI\Projects\120850 Eurowind Energy_L4\A05_V64341_00001 - Usensia Wind Farm EIA\Tech\LO\Design\Wing\Figure 10.3.4 - Borrow Pit 1.dwg



01 PLAN OF BORROW PIT
SCALE: 1:2500



02 LOCATION PLAN
SCALE: 1:25000



- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

- Legend:**
- Bench/base of excavation
 - Excavation batter
 - Peripheral bund

PROPOSED MAXIMUM EXCAVATION PROFILE

Level	Chainage	Existing Ground Levels	Proposed Levels
70	00.00	52.763	
65	10.00	54.538	56.342
60	20.00	55.375	59.962
55	30.00	56.265	58.434
50	40.00	57.937	57.802
	50.00	60.537	58.643
	60.00	63.993	59.483
	70.00	66.807	60.324
	80.00	67.226	61.165
	90.00	66.568	61.872
	100.00	66.087	62.310
	110.00	65.267	62.731

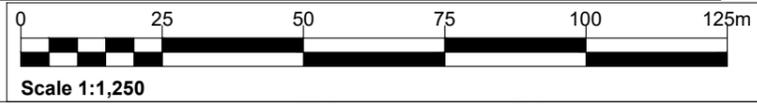
SECTION A
Scale: H 1:1250, V 1:1250. Datum: 50.000

PROPOSED MAXIMUM EXCAVATION PROFILE

Level	Chainage	Existing Ground Levels	Proposed Levels
70	00.00	56.891	60.002
65	10.00	59.097	58.767
60	20.00	61.156	58.882
55	30.00	62.102	58.980
50	40.00	62.854	59.061
	50.00	64.239	59.142
	60.00	66.135	59.222
	70.00	67.280	59.208
	80.00	67.377	59.065
	90.00	66.294	58.721
	100.00	64.726	58.585
	110.00	62.887	58.066
	119.11	61.535	56.072

SECTION B
Scale: H 1:1250, V 1:1250. Datum: 50.000

TOTAL EXCAVATION VOLUME	18,725m ³
OVERBURDEN VOLUME	2,004m ³
NET STONE VOLUME	16,721m ³
PERIPHERAL BUND FILL	582m ³
NET STONE TONNAGE	33,442T
EXCAVATION AREA	4,008m ²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 10m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 131909 N: 914090



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Rev	Amendments	Date	By	Chk	Auth



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SEI Chapter 3: Description of Development

Figure Title
Borrow Pit 2

Scale
As shown @ A3

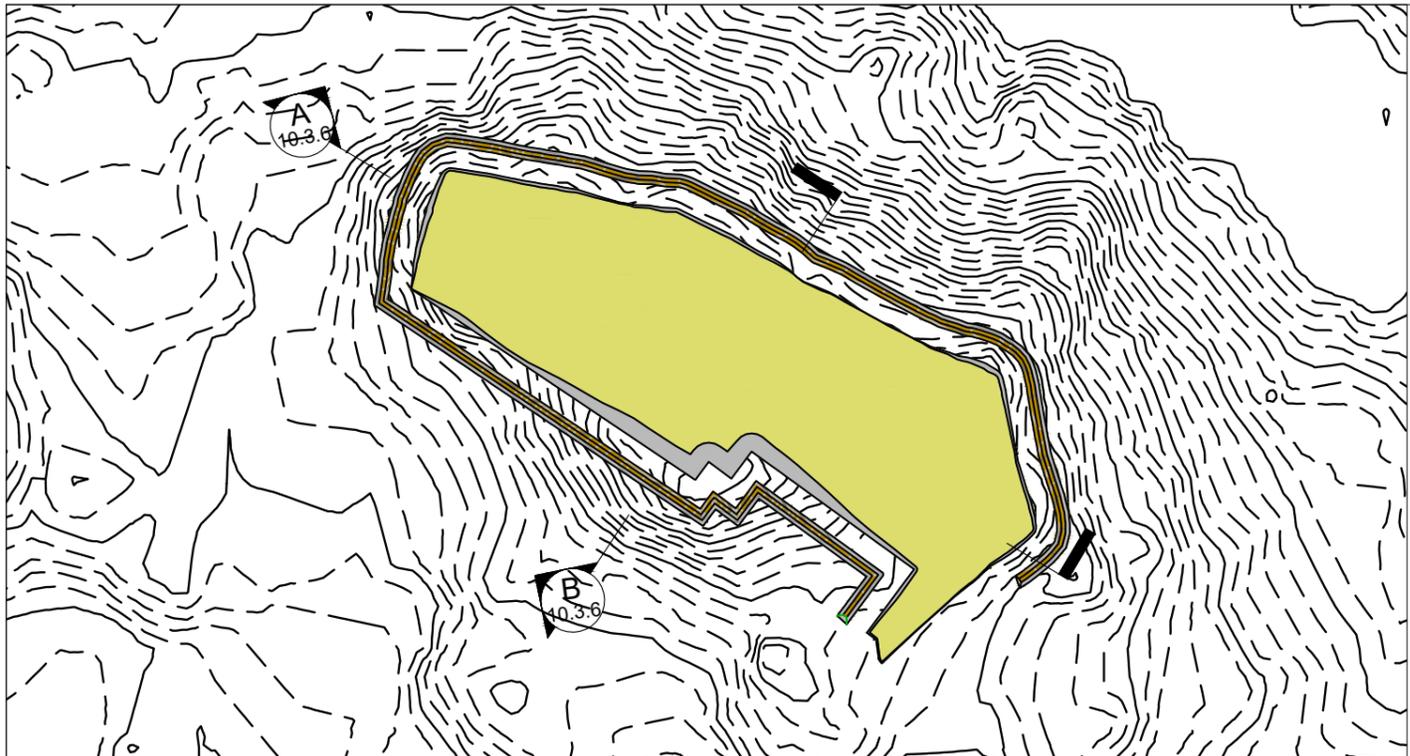
SLR Project No.
405.V64341.00001

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	IG	RW	RW

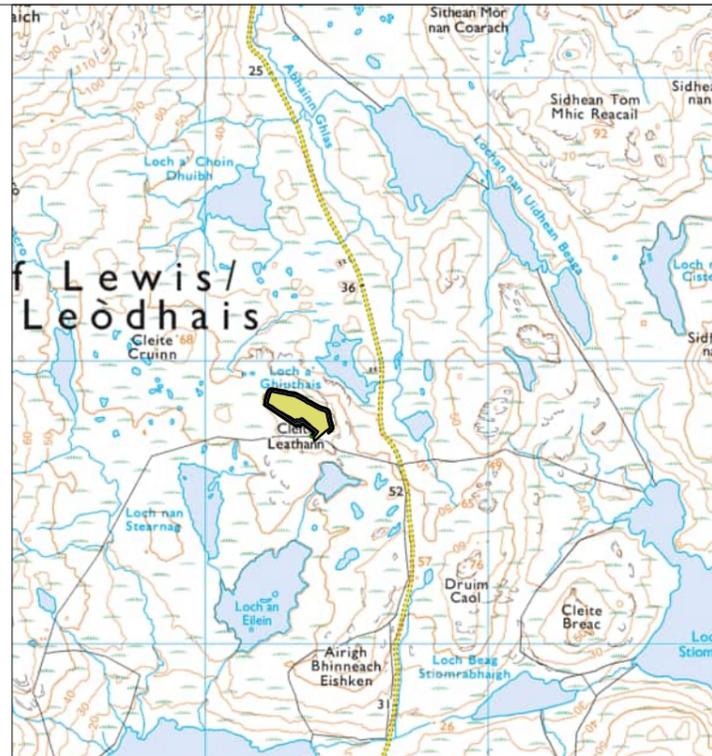
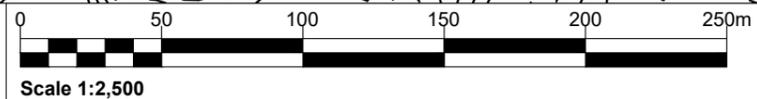
Date	Date	Date	Date
	05/24	05/24	05/24

Figure Number
SEI Figure 3.9b

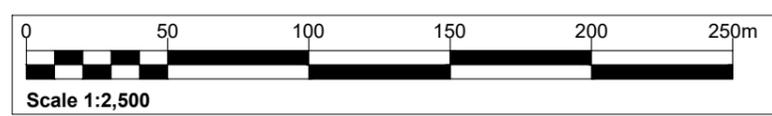
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01 PLAN OF BORROW PIT
SCALE: 1:2500



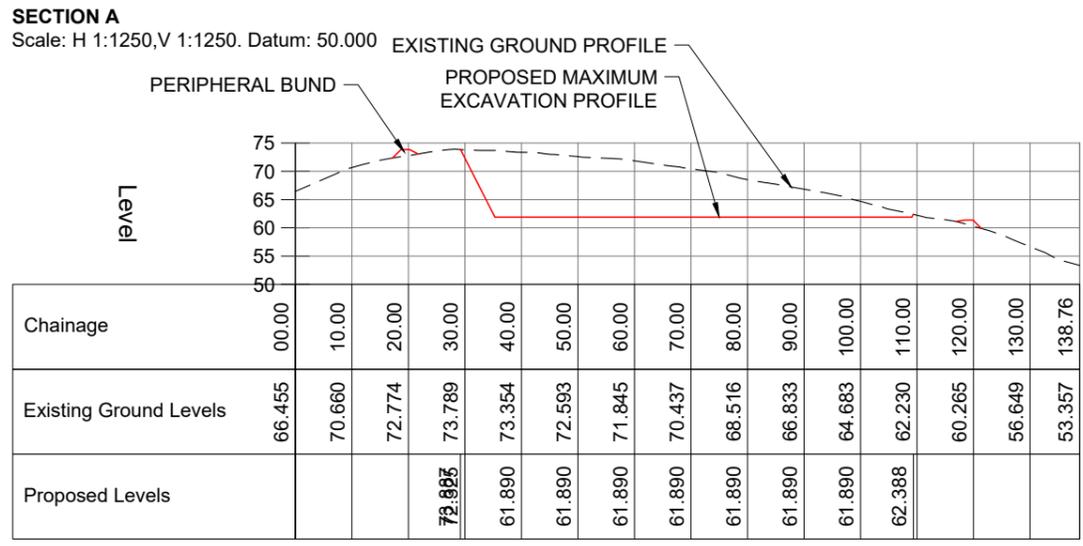
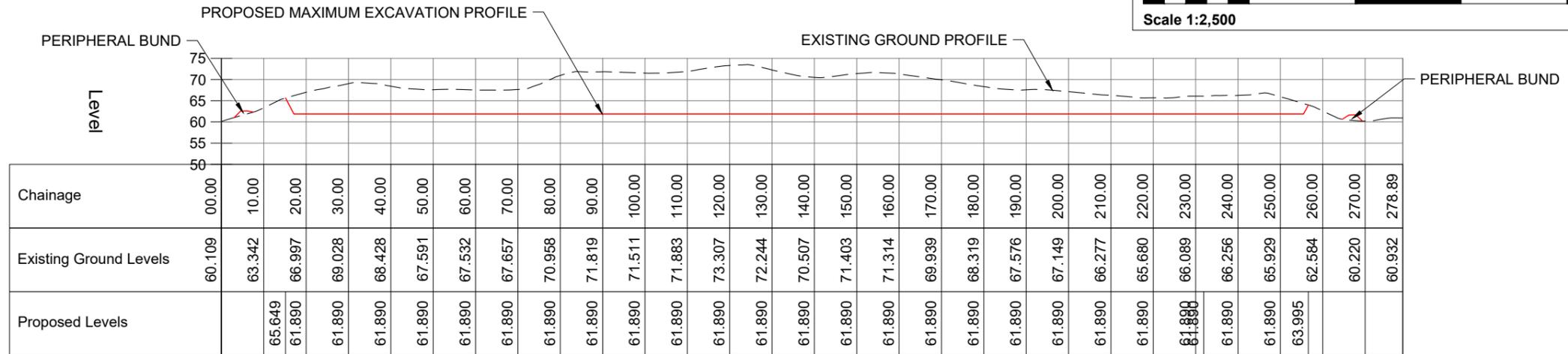
02 LOCATION PLAN
SCALE: 1:25000



- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

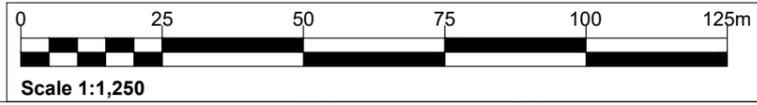
Legend:

- Bench/base of excavation
- Excavation batter
- Peripheral bund



SECTION B
Scale: H 1:1250,V 1:1250. Datum: 50.000

TOTAL EXCAVATION VOLUME	92,922m ³
OVERBURDEN VOLUME	8,806m ³
NET STONE VOLUME	84,836m ³
PERIPHERAL BUND FILL	1,764m ³
NET STONE TONNAGE	169,672T
EXCAVATION AREA	16,172m ²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 13.6m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 132329 N: 913823



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Rev	Amendments	Date	By	Chk	Auth



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Project
SEI Chapter 3: Description of Development

Figure Title
Borrow Pit 3

Scale
As shown @ A3

SLR Project No.
405.V64341.00001

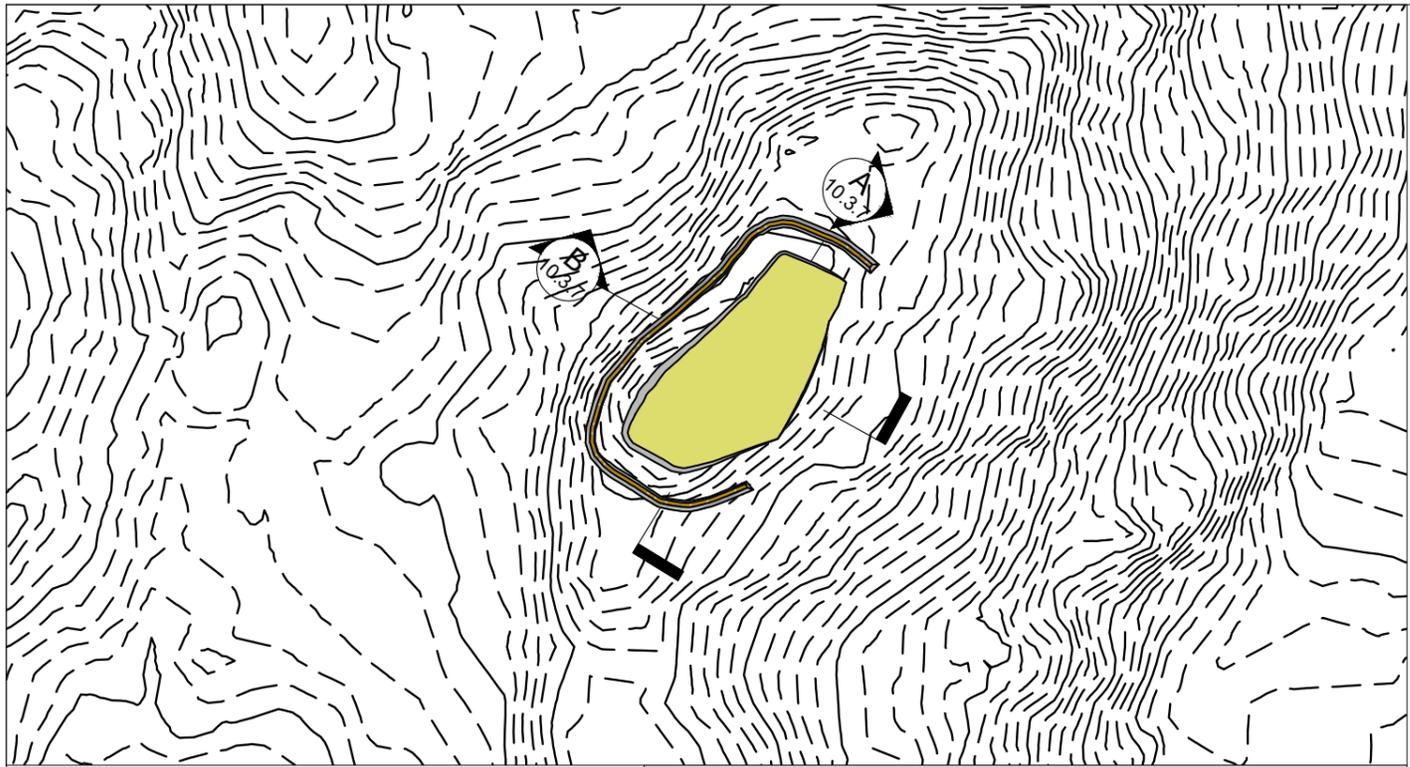
Designed	Drawn	Checked	Authorised
	IG	RW	RW

Date	Date	Date	Date
	05/24	05/24	05/24

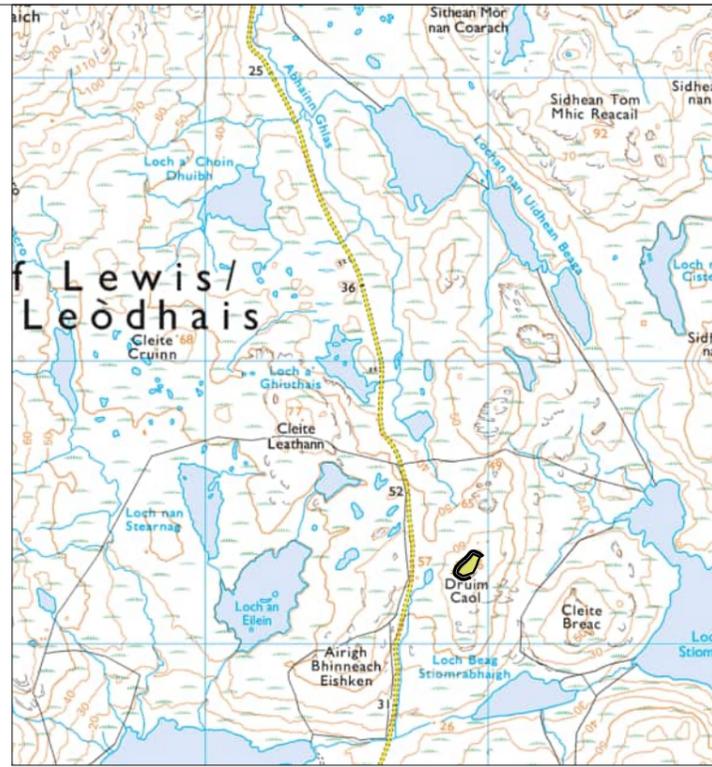
Figure Number
SEI Figure 3.9c

Rev.
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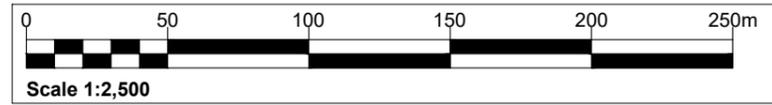
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I:\Users\IE\Documents\Projects\120850 Eurowind Energy_L4\405_V64341_00001 - Usensia Wind Farm EIA\Tech\LO\Design\Wing\Figure 10.3.6 - Borrow Pit 3.dwg



01 PLAN OF BORROW PIT
SCALE: 1:2500

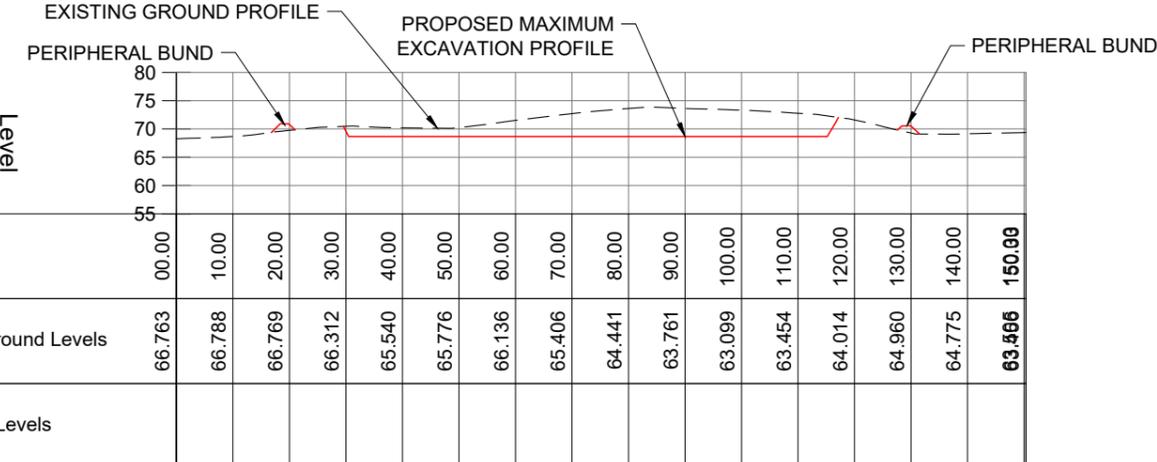


02 LOCATION PLAN
SCALE: 1:25000

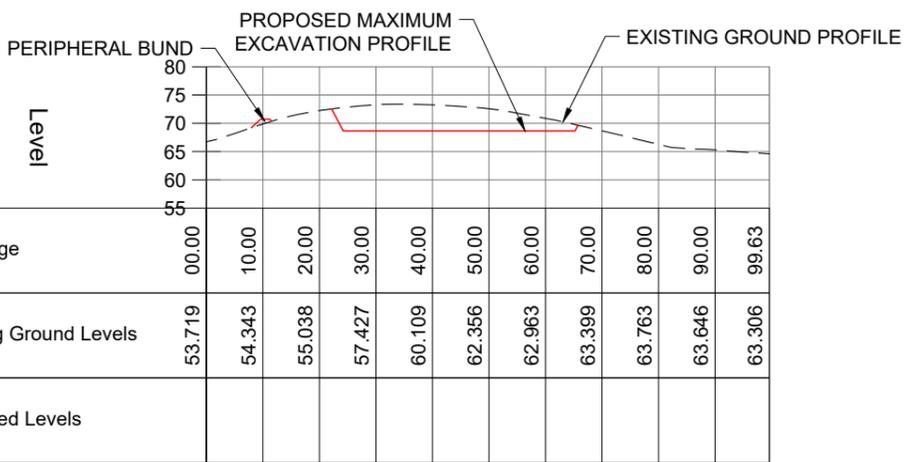


- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

- Legend:**
- Bench/base of excavation
 - Excavation batter
 - Peripheral bund

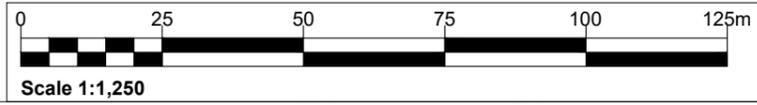


SECTION A
Scale: H 1:1250, V 1:1250. Datum: 55.000



SECTION B
Scale: H 1:1250, V 1:1250. Datum: 55.000

TOTAL EXCAVATION VOLUME	11,329m ³
OVERBURDEN VOLUME	1,674m ³
NET STONE VOLUME	9,655m ³
PERIPHERAL BUND FILL	548m ³
NET STONE TONNAGE	19,310T
EXCAVATION AREA	3,348m ²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 6.2m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 132934 N: 913280



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SEI Chapter 3: Description of Development

Figure Title
Borrow Pit 4

Scale
As shown @ A3

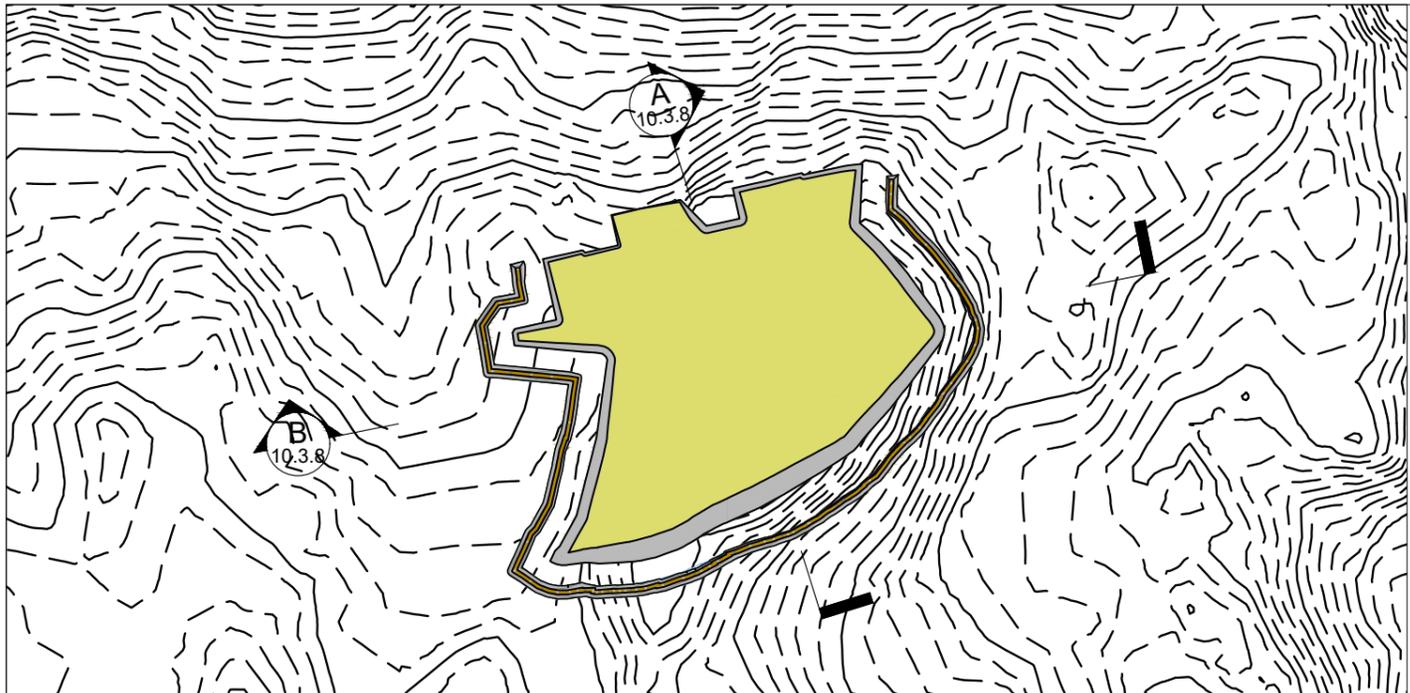
SLR Project No.
405.V64341.00001

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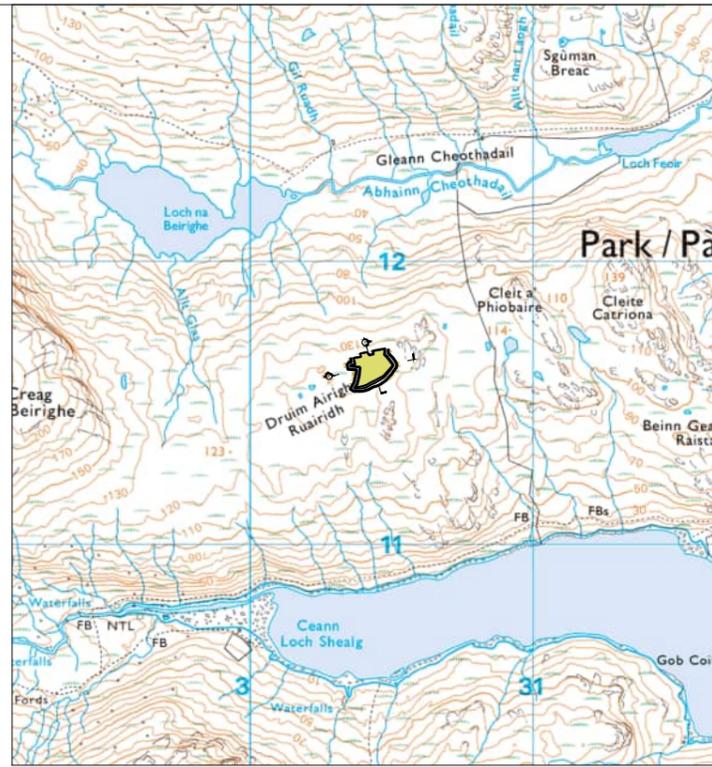
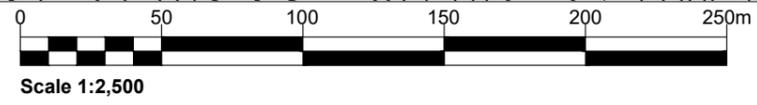
Date	Date	Date	Date
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Figure Number
SEI Figure 3.9d

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01 PLAN OF BORROW PIT
SCALE: 1:2500



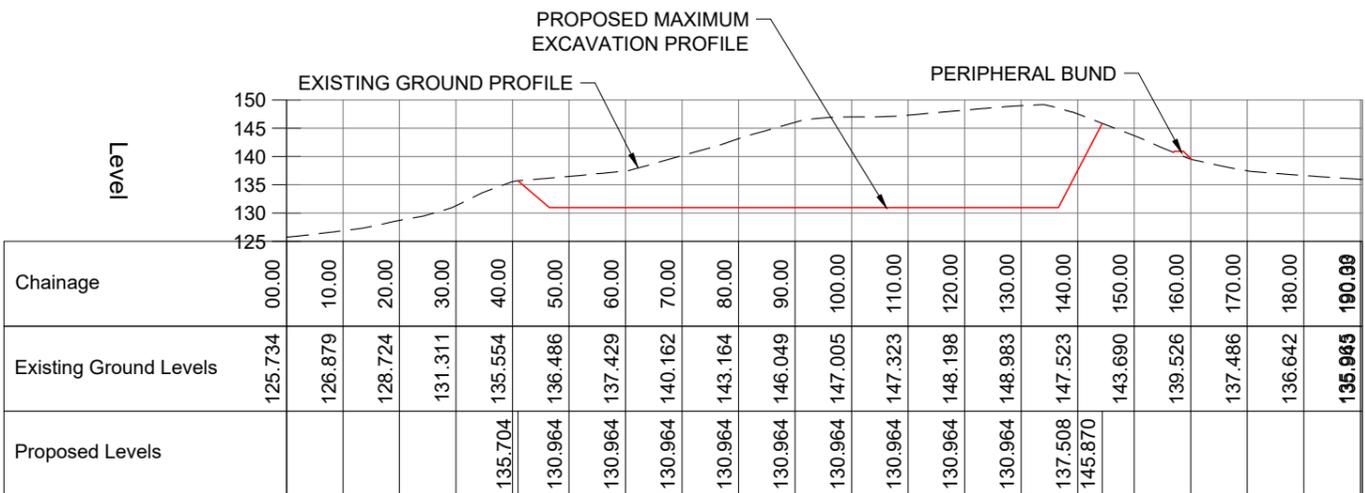
02 LOCATION PLAN
SCALE: 1:25000



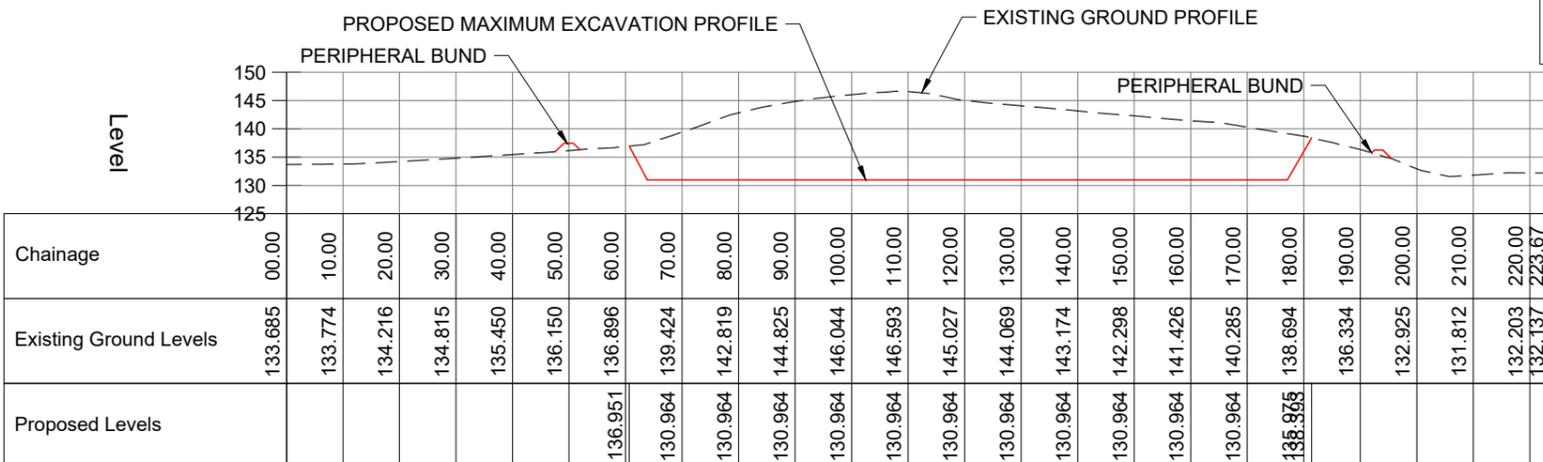
- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

Legend:

	Bench/base of excavation
	Excavation batter
	Peripheral bund

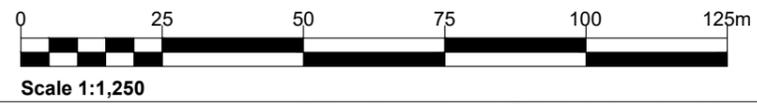


SECTION A
Scale: H 1:1250, V 1:1250. Datum: 125.000



SECTION B
Scale: H 1:1250, V 1:1250. Datum: 125.000

TOTAL EXCAVATION VOLUME	122,924m ³
OVERBURDEN VOLUME	6,405m ³
NET STONE VOLUME	116,519m ³
PERIPHERAL BUND FILL	1,335m ³
NET STONE TONNAGE	233,038T
EXCAVATION AREA	12,810m ²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 16.4m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 130432 N: 911628



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Figure Title
Borrow Pit 5

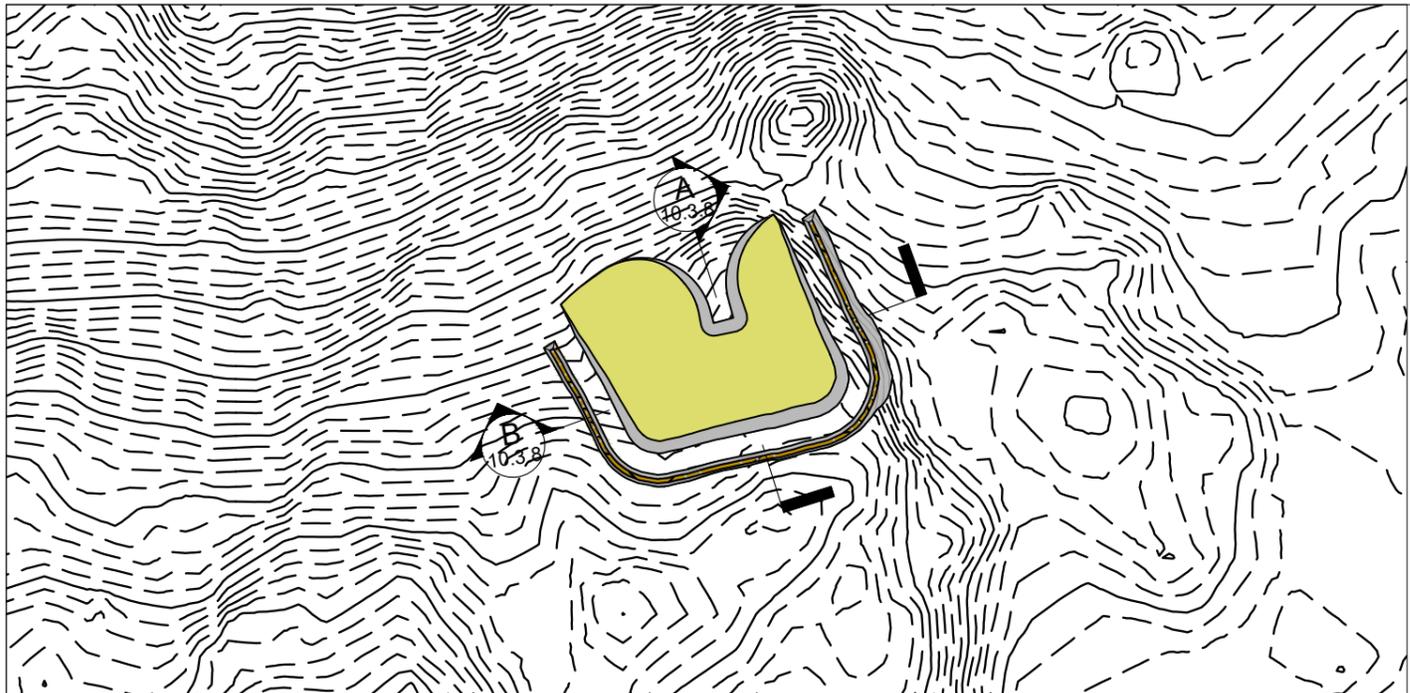
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SLR Project No.
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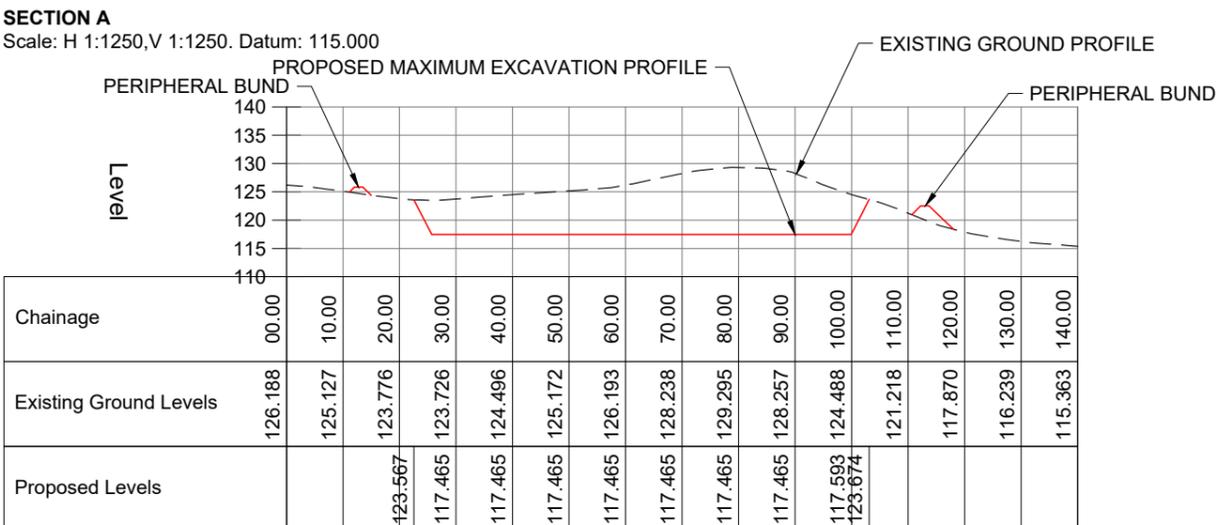
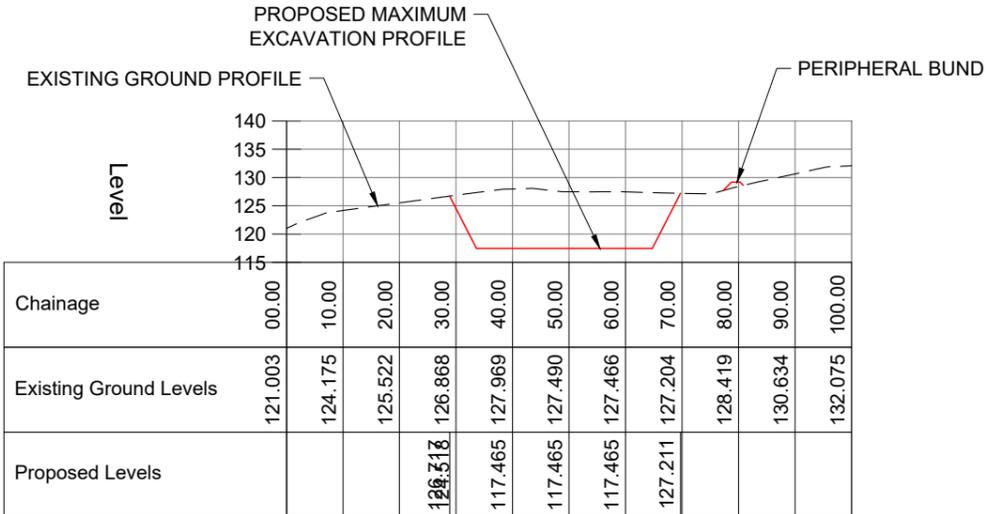
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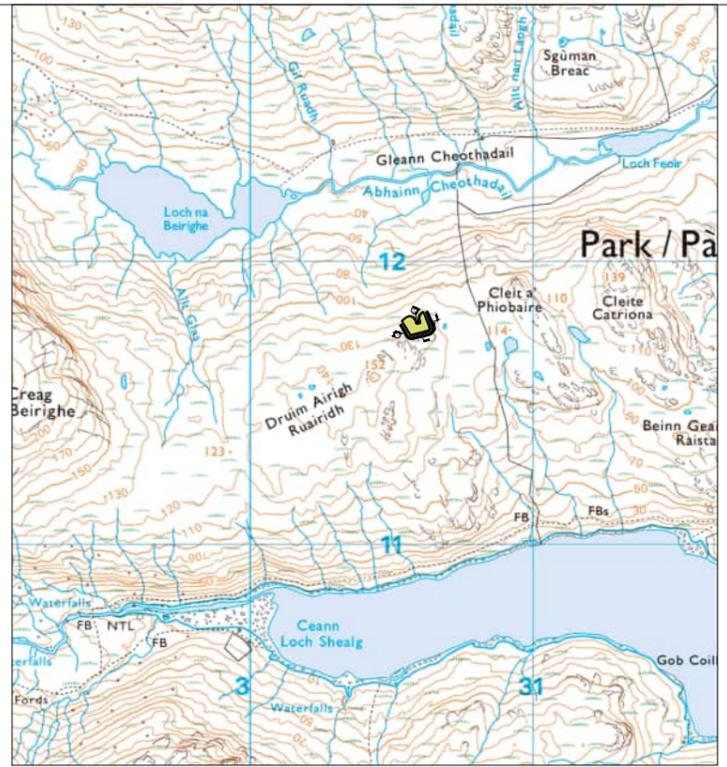
Figure Number	SEI Figure 3.9e	Rev.	0
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01 PLAN OF BORROW PIT
SCALE: 1:2500
Scale 1:2,500



SECTION B
Scale: H 1:1250, V 1:1250. Datum: 110.000



02 LOCATION PLAN
SCALE: 1:25000
Scale 1:2,500

TOTAL EXCAVATION VOLUME	34,607m³
OVERBURDEN VOLUME	2,600m³
NET STONE VOLUME	32,007m³
PERIPHERAL BUND FILL	1,187m³
NET STONE TONNAGE	64,014T
EXCAVATION AREA	5,200m²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 10.3m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 130592 N: 911771

Scale 1:1,250



- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

Legend:

	Bench/base of excavation
	Excavation batter
	Peripheral bund

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SEI Chapter 3: Description of Development

Figure Title
Borrow Pit 6

Scale
As shown @ A3

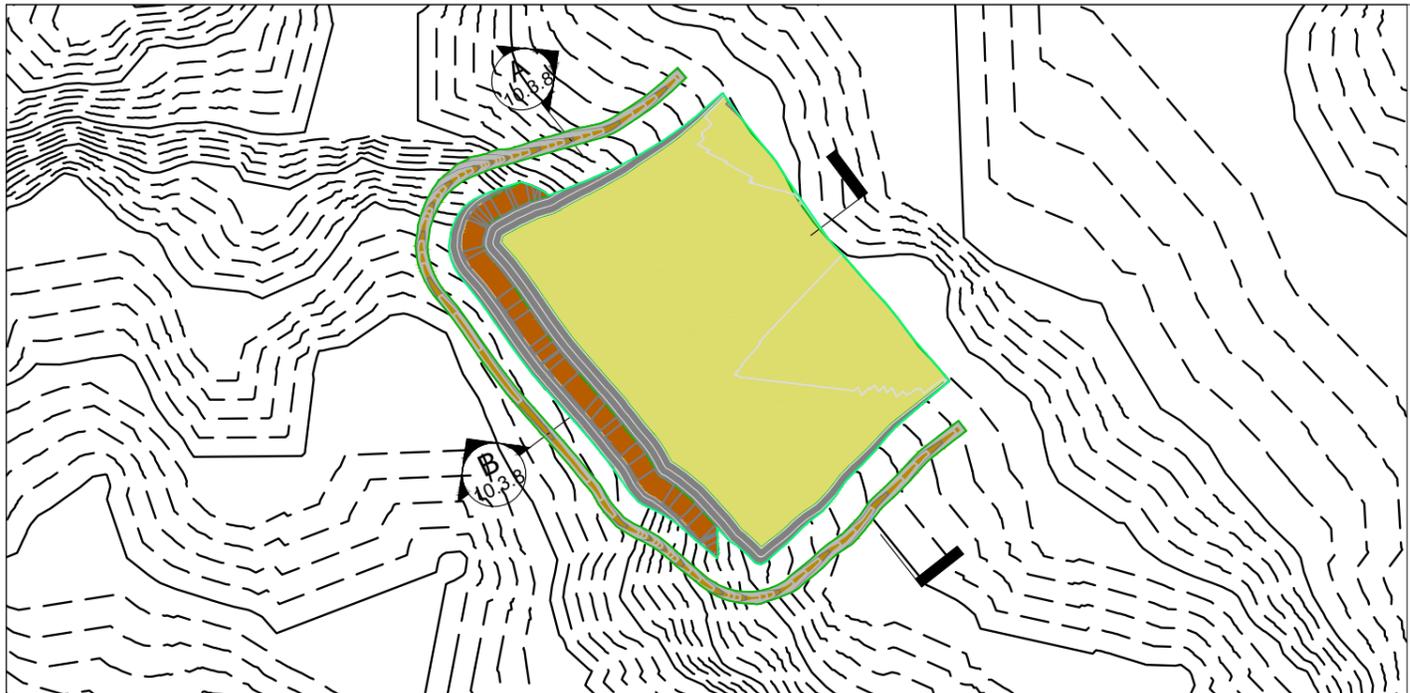
SLR Project No.
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Date	Date	Date	Date
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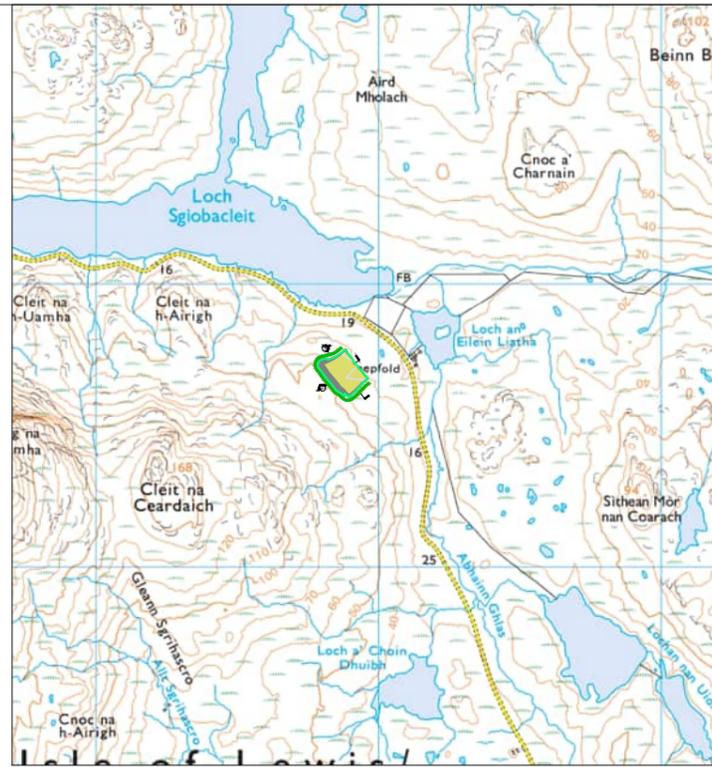
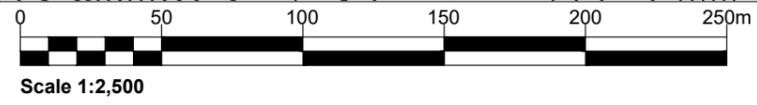
Figure Number
SEI Figure 3.9f

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\\E:\EDF\SEI\Project\120859 Eurowind Energy_L4\405_V64341_00001 - Usens Wind Farm SEI\Tech\LO\Design\Wing\Figure 10.3.8 - Borrow Pit 6.dwg



01 PLAN OF BORROW PIT
SCALE: 1:2500



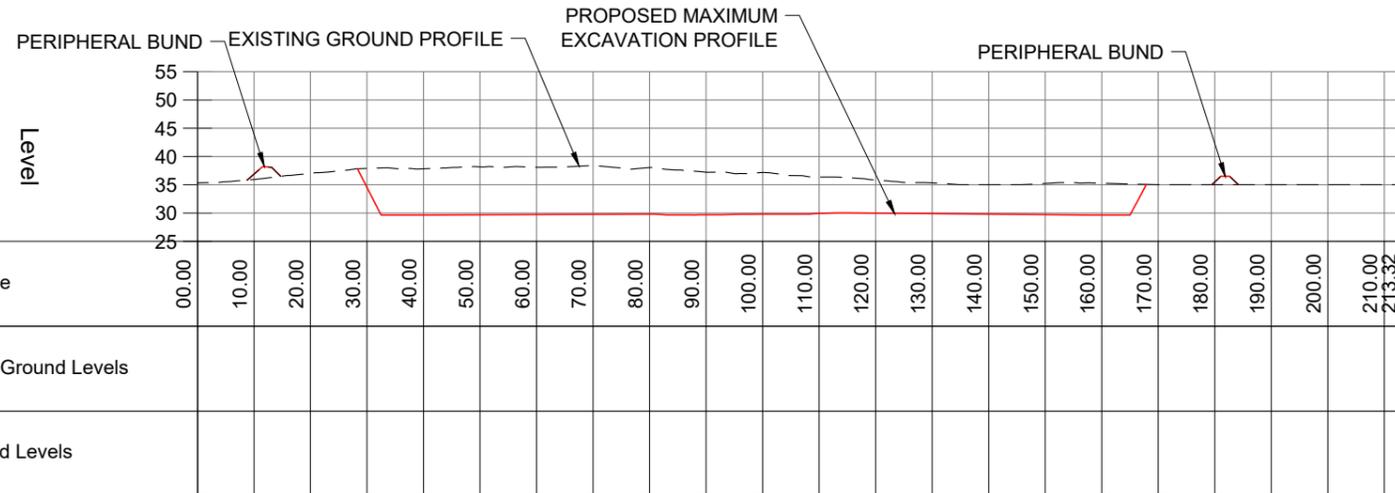
02 LOCATION PLAN
SCALE: 1:25000



- Notes:**
- Overburden assumed to be circa 0.5m in thickness comprising soils and weathered rock.
 - Initial stripped overburden to be placed in peripheral bund, with subsequent overburden and waste materials to be stockpiled within flat basal area of borrow pit prior to being used in restoration.
 - Design parameters are indicative and should be refined based upon findings of ground investigations and/or initial excavations, taking into account ground conditions and hydrological issues.
 - Assumes insitu conversion factor of 2 tonnes per m³.

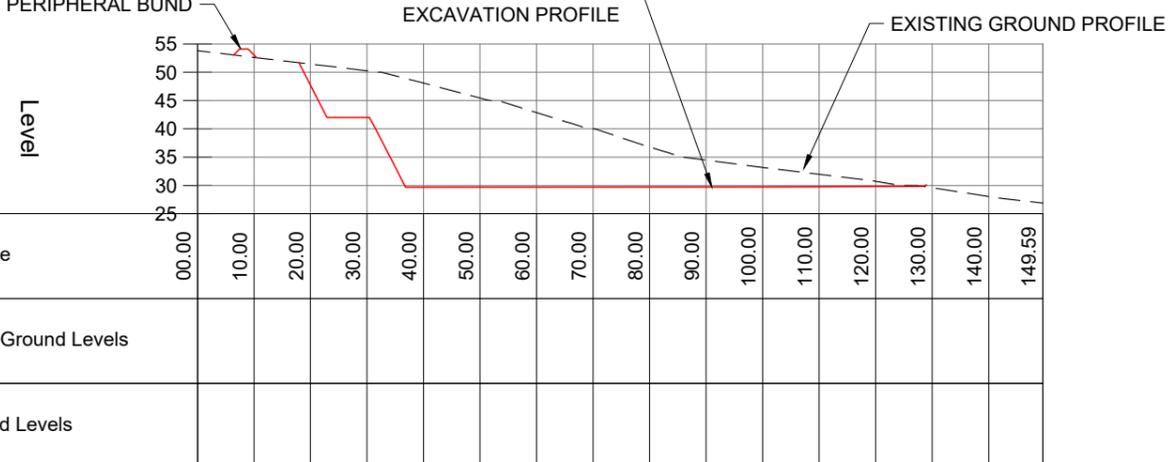
Legend:

	Bench/base of excavation
	Excavation batter
	Peripheral bund
	Bench



SECTION A

Scale: H 1:1250, V 1:1250. Datum: 25.000



SECTION B

Scale: H 1:1250, V 1:1250. Datum: 25.000

TOTAL EXCAVATION VOLUME	115,894m ³
OVERBURDEN VOLUME	7,912m ³
NET STONE VOLUME	107,982m ³
PERIPHERAL BUND FILL	1,778m ³
NET STONE TONNAGE	215,964T
EXCAVATION AREA	15,824m ²
EXCAVATION METHOD REQUIRED	DIGGING, DRILLING AND BLASTING
INFERRED DESIGN PARAMETERS	63 DEGREE FACES THROUGH COMPETENT ROCK MAXIMUM FACE HEIGHT OF 12.0m FINAL BENCH WIDTH OF 7.5m 1.5m HIGH PERIPHERAL BUND
CO-ORDINATES FOR CENTRE OF BORROW PIT	E: 130592 N: 911771

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Rev	Amendments	Date	By	Chk	Auth



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Figure Title
Borrow Pit 7

Scale
As shown @ A3

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Figure Number
SEI Figure 3.9g

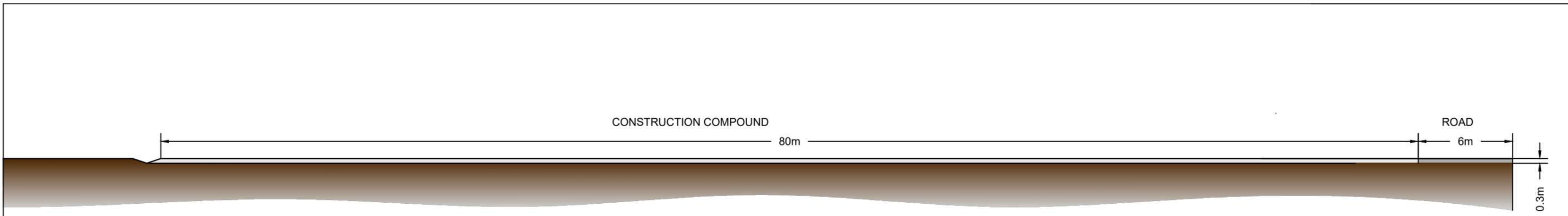
Rev.
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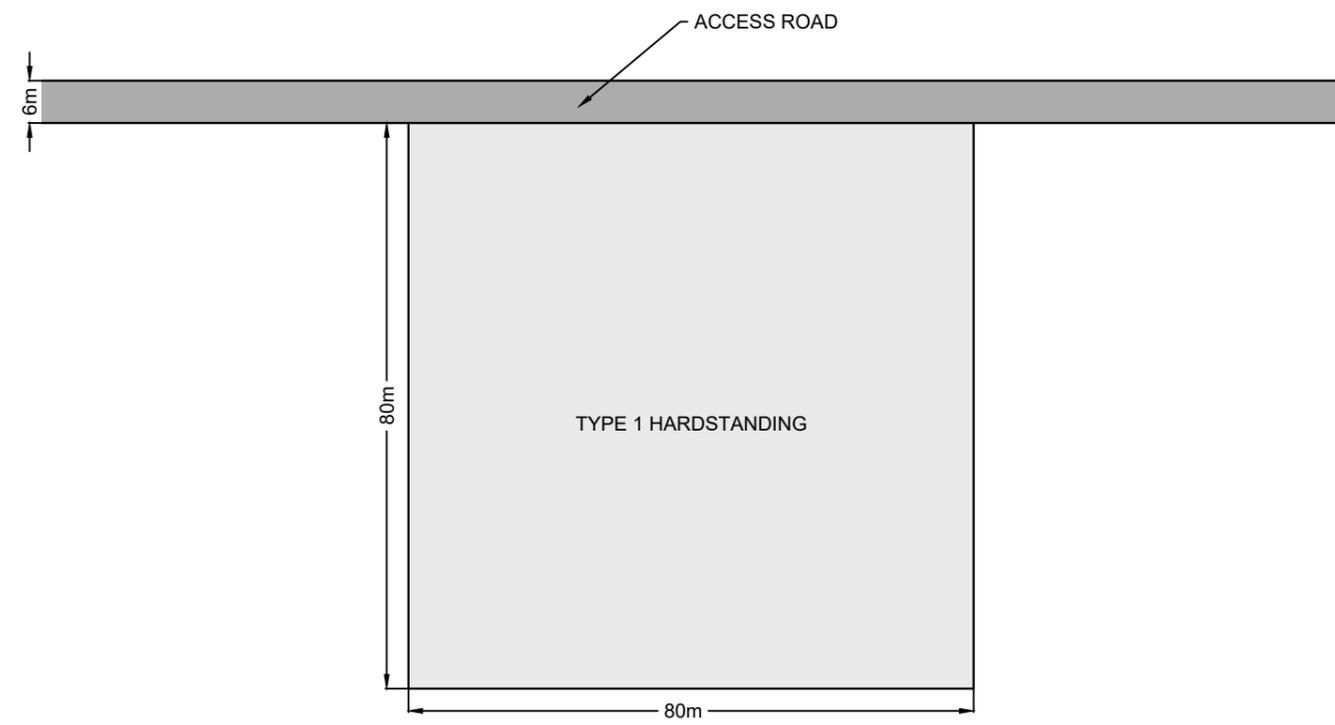
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\\E:\6\EDF\SEI\Project\120859 Eurowind Energy Ltd\405.V64341.00001 - Usens Wind Farm SEI\Tech\LO\Design\Wing\Figure 10.3.10 - Borrow Pit 7.dwg

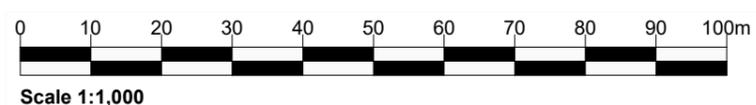
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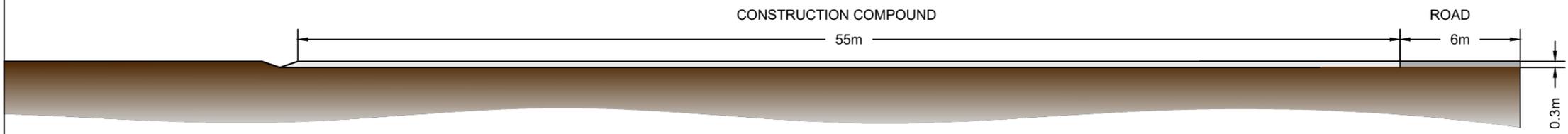


PLAN
SCALE 1:1,000

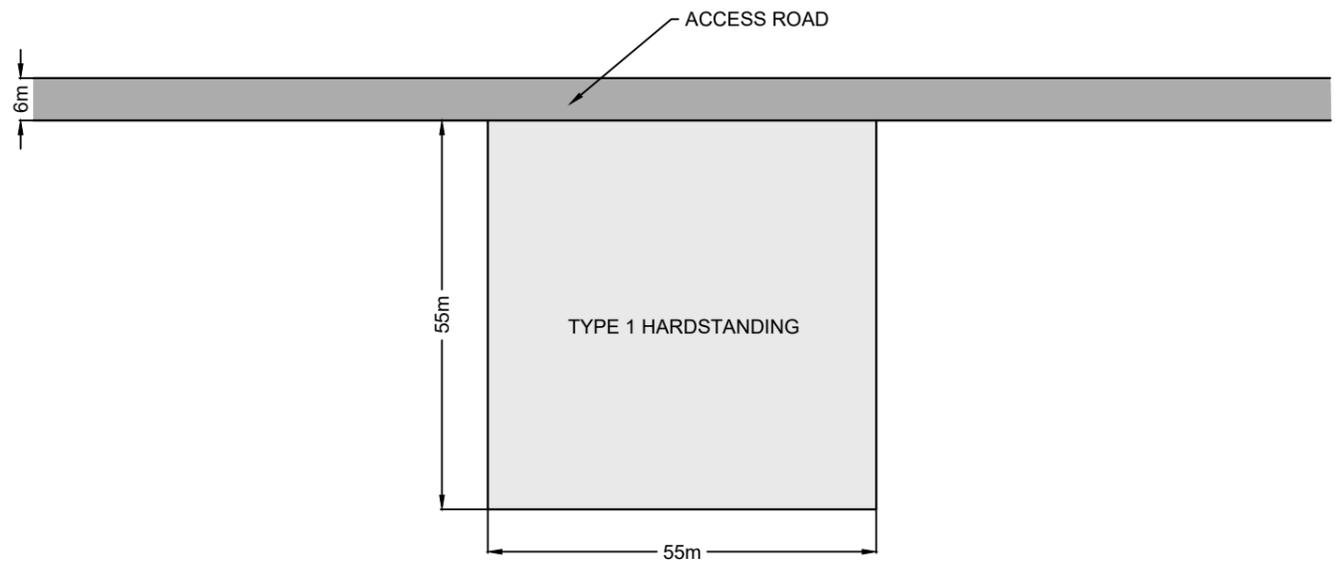


Eurowind Energy	
UISENIS WIND FARM - EIA DESCRIPTION OF THE DEVELOPMENT	
INDICATIVE TEMPORARY CONSTRUCTION COMPOUND 1	
SEI FIGURE 3.10a	
Scale AS SHOWN @ A3	Date JUNE 2024

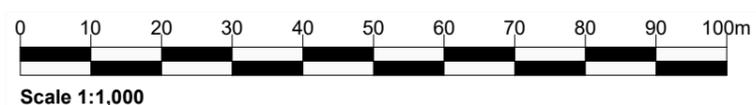
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SECTION
SCALE 1:250



PLAN
SCALE 1:1000



Eurowind Energy



UISENIS WIND FARM - EIA
DESCRIPTION OF THE DEVELOPMENT

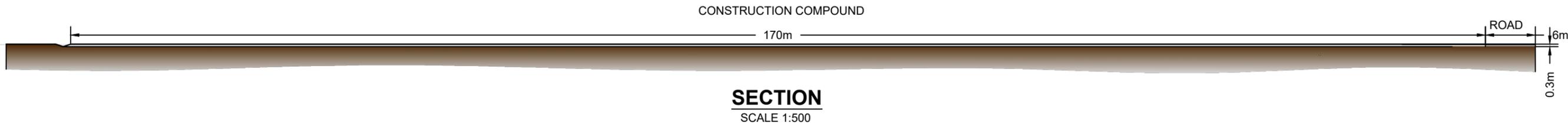
**INDICATIVE TEMPORARY
CONSTRUCTION COMPOUND 2**

SEI FIGURE 3.10b

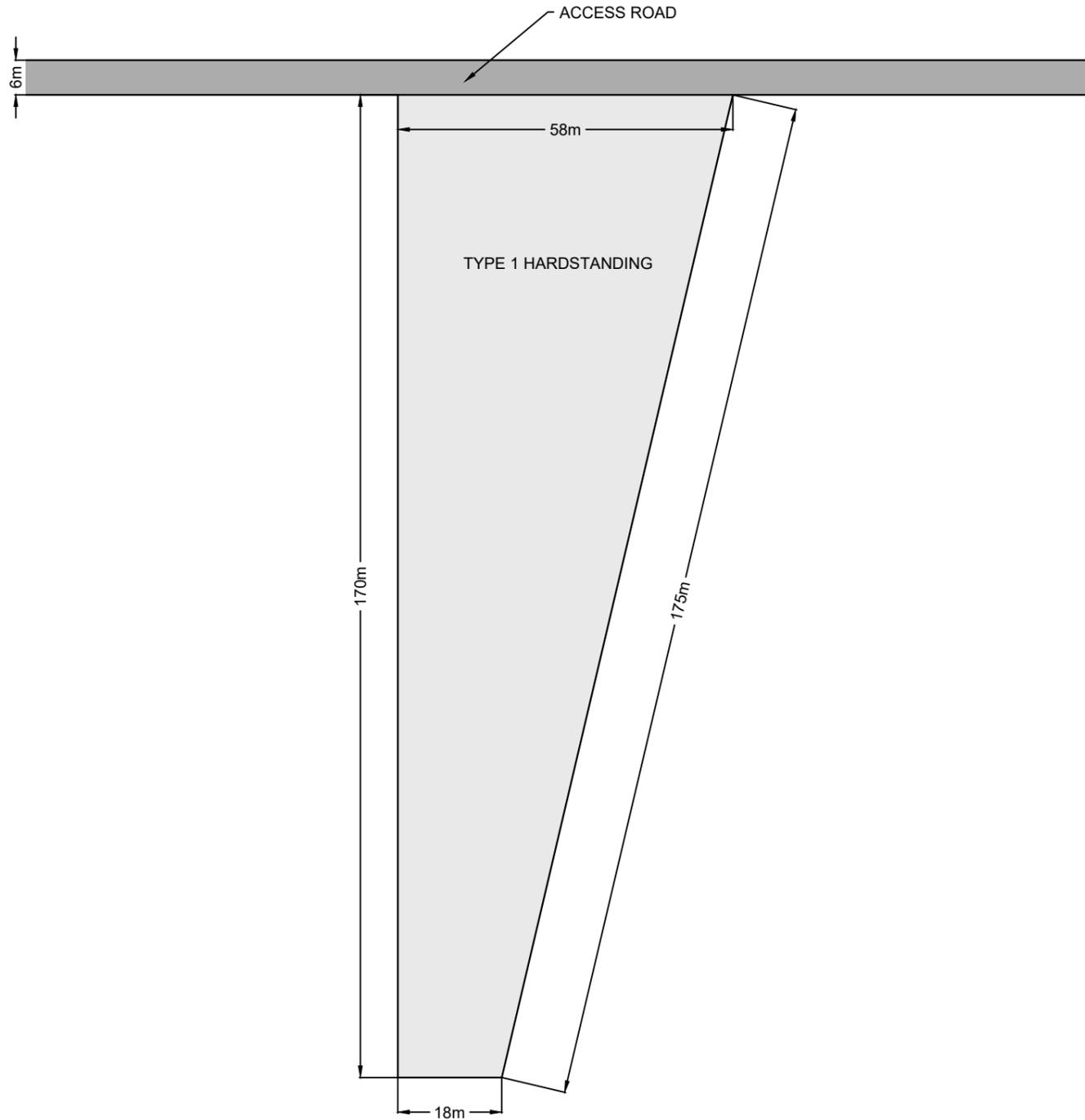
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AS SHOWN @ A3

Date
JUNE 2024

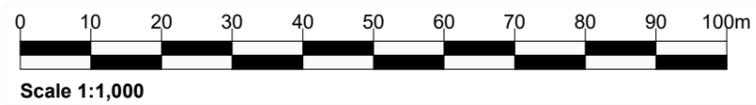
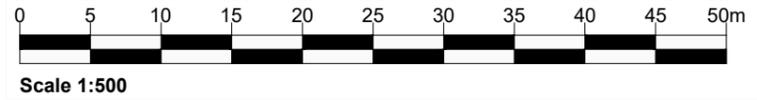
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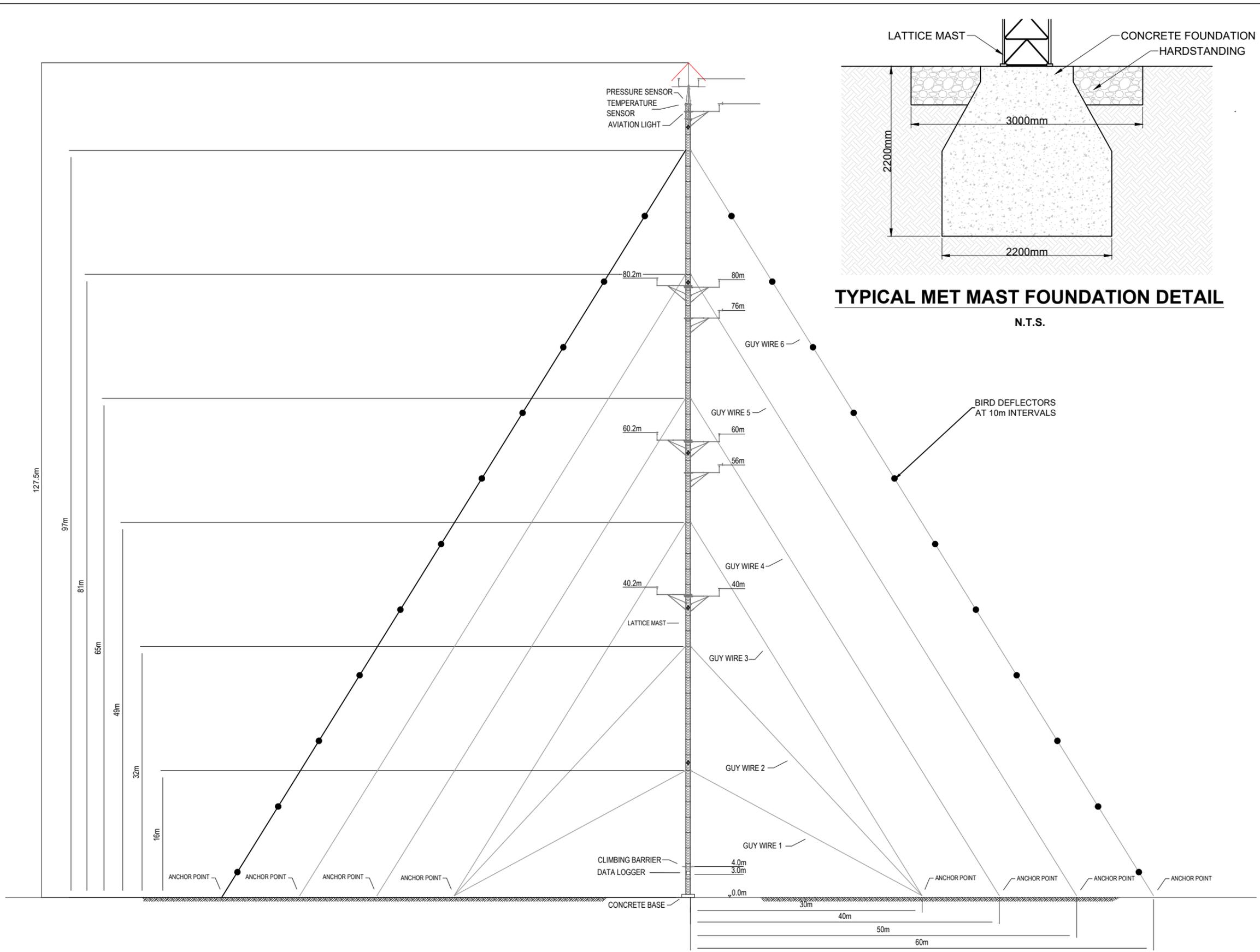
SECTION
SCALE 1:500



PLAN
SCALE 1:1000



Eurowind Energy	
UISENIS WIND FARM - EIA DESCRIPTION OF THE DEVELOPMENT	
INDICATIVE TEMPORARY CONSTRUCTION COMPOUND 3	
SEI FIGURE 3.10c	
Scale AS SHOWN @ A3	Date JUNE 2024



TYPICAL MET MAST FOUNDATION DETAIL
N.T.S.

LEGEND
1. THE BIRD DEFLECTORS SHALL BE MARKED AT A MINIMUM OF 10m INTERVALS ON THE OUTER WIRES THROUGHOUT THEIR ENTIRE LENGTH. THE DEFLECTORS SHALL BE FITTED IN SUCH A WAY AS TO ENSURE THAT THEY DO NOT SLIDE DOWN THE WIRES.

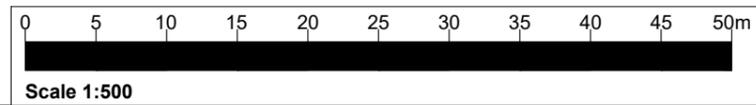
Eurowind Energy™

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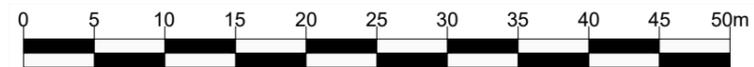
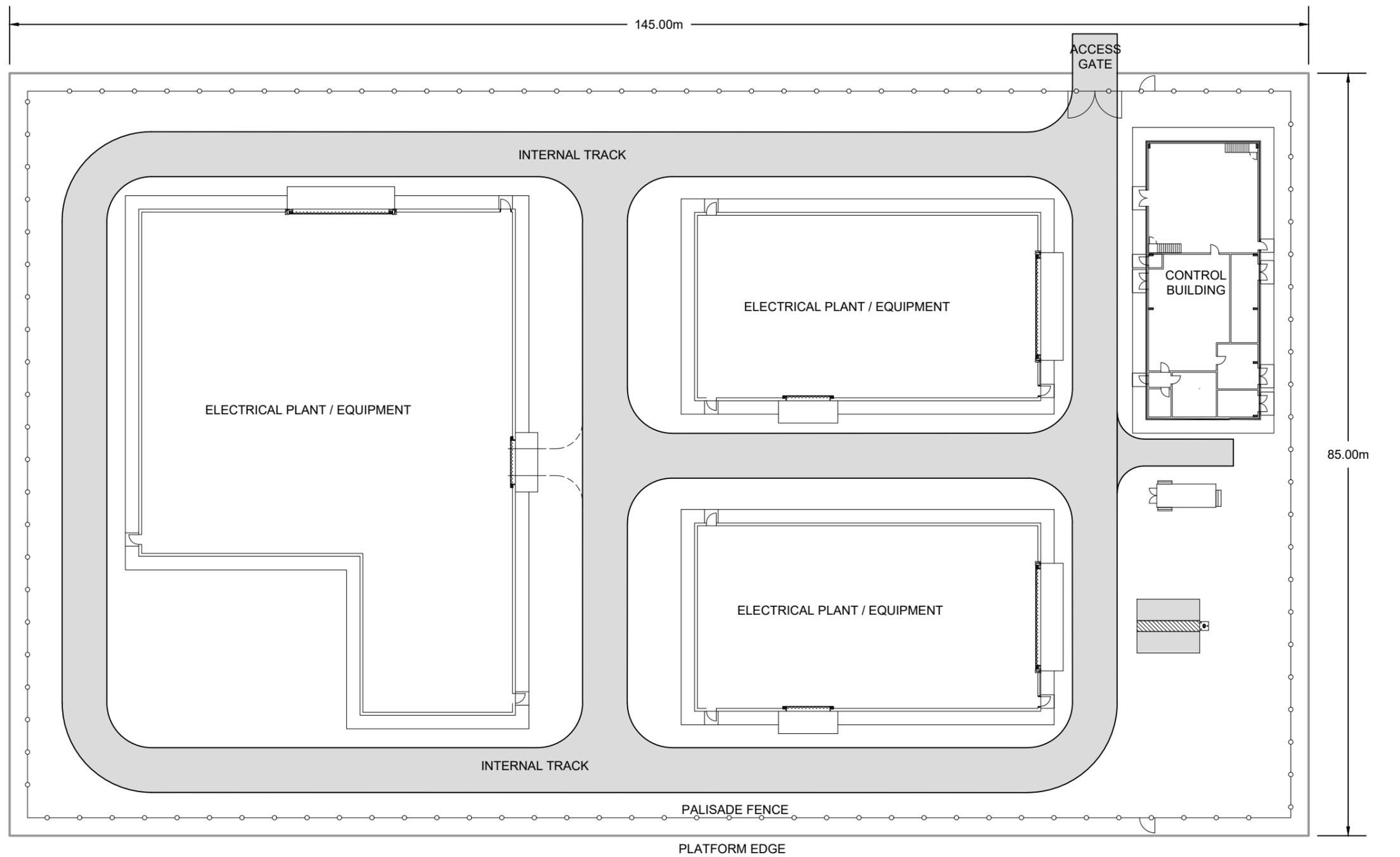
UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
METEROLOGICAL MAST - ELEVATION

SEI FIGURE 3.11b

Scale 1:500 @ A3	Date JUNE 2024
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Scale 1:500

Eurowind Energy

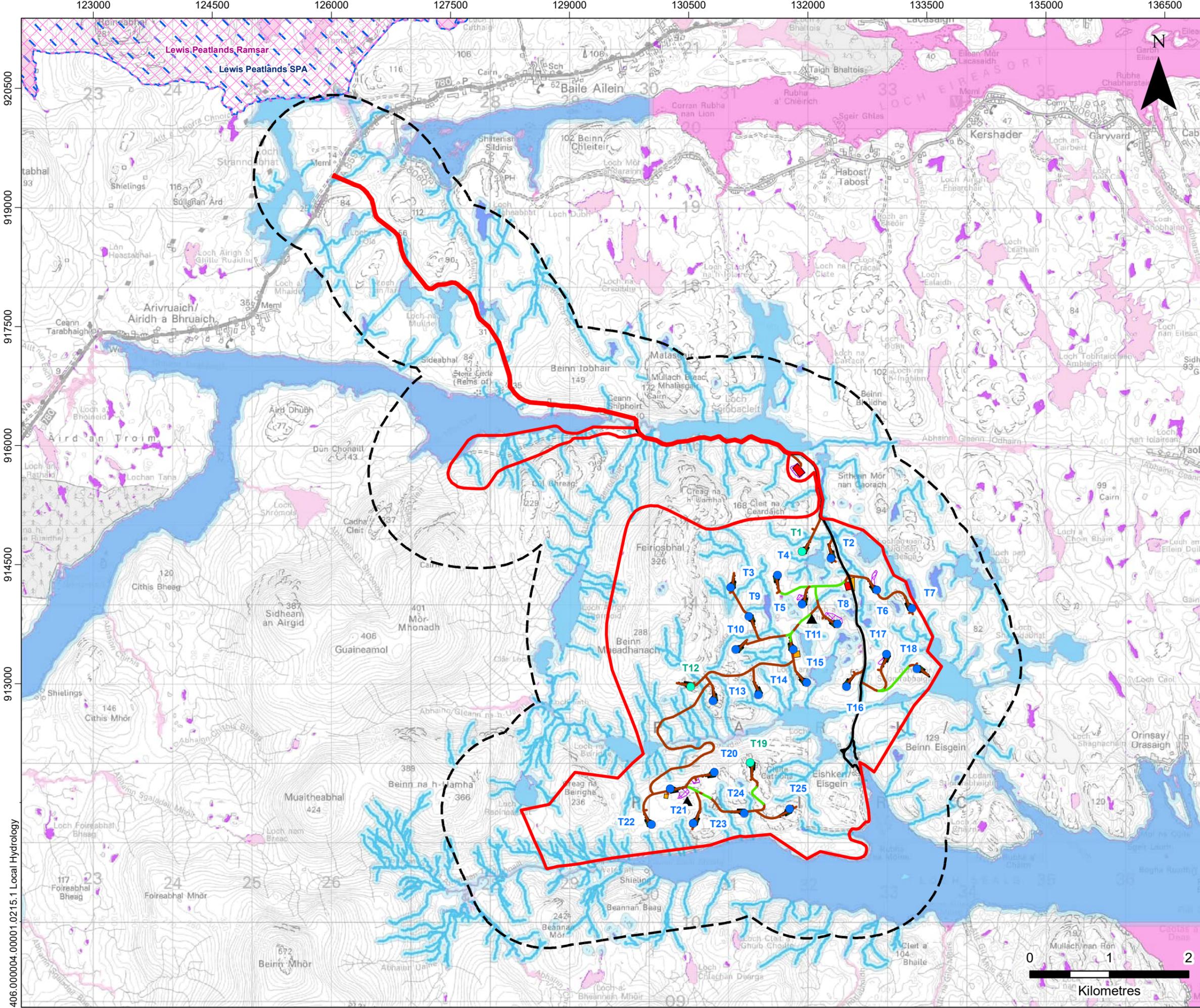


UISENIS WIND FARM - SEI
DESCRIPTION OF THE DEVELOPMENT
INDICATIVE SHET SUBSTATION
COMPOUND

SEI FIGURE 3.12

Scale 1:500 @ A3

Date JUNE 2024



LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Local Hydrology

- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer
- Ramsar Site
- Special Protection Area (SPA)

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Coastal Flooding
- Medium Likelihood of Surface Water Flooding



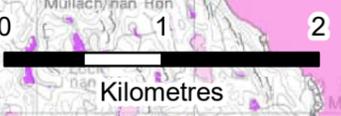
Eurowind Energy



UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY
 LOCAL HYDROLOGY

SEI FIGURE 10.1a

Scale 1:45,000 @ A3 Date JUNE 2024

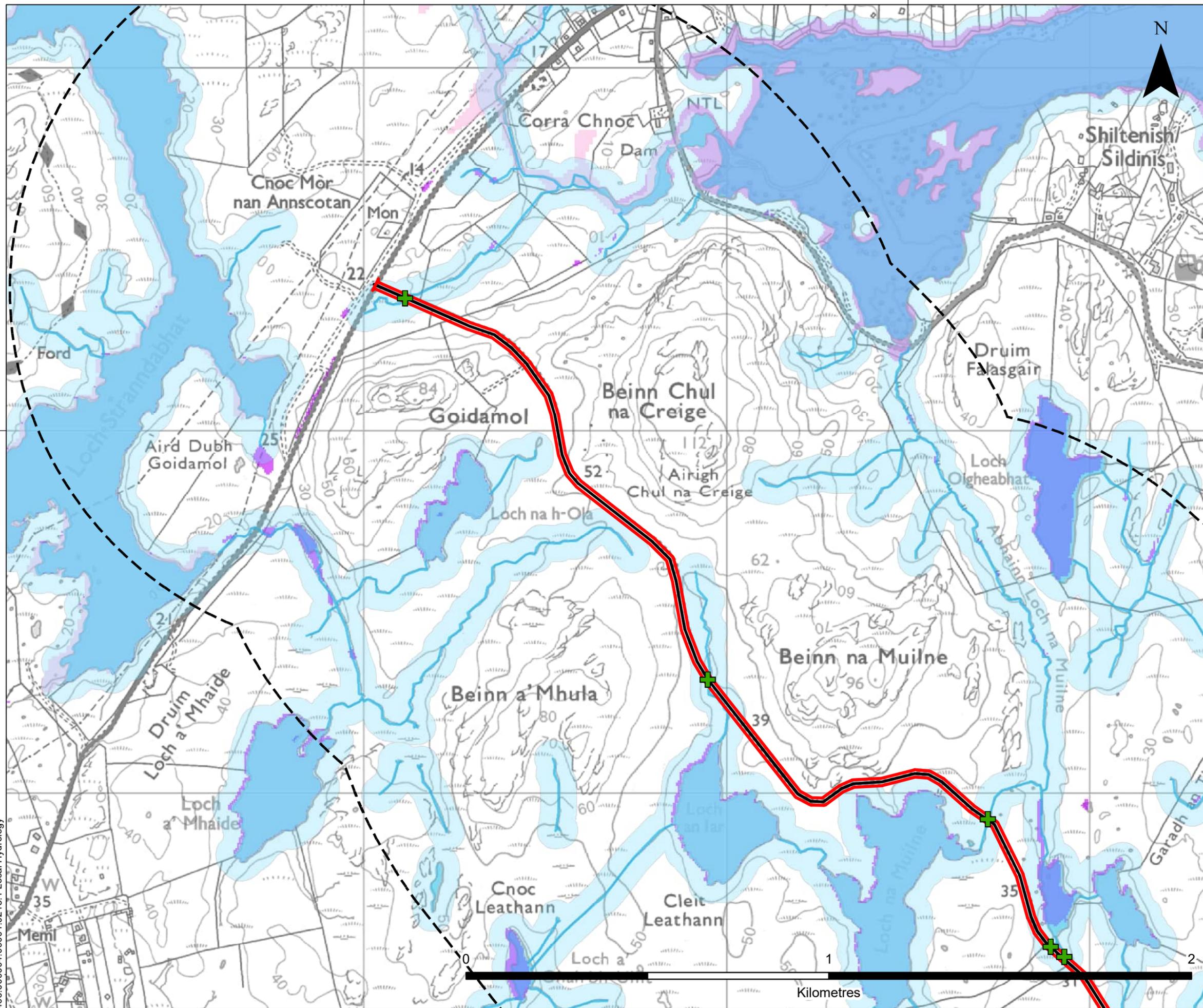


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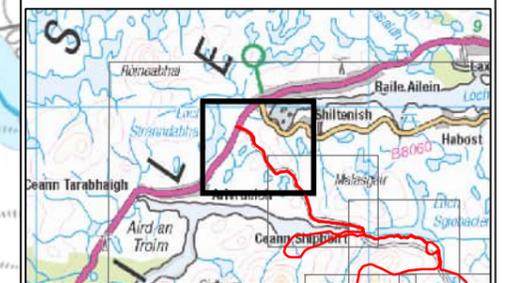
- Application Boundary
- Application Boundary 1 km Buffer
- Existing Road (To Be Upgraded)
- + Watercourse Crossing

Local Hydrology

- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Coastal Flooding
- Medium Likelihood of Surface Water Flooding



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UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY
 LOCAL HYDROLOGY

SEI FIGURE 10.1b

Scale: 1:10,000 @ A3 Date: JUNE 2024

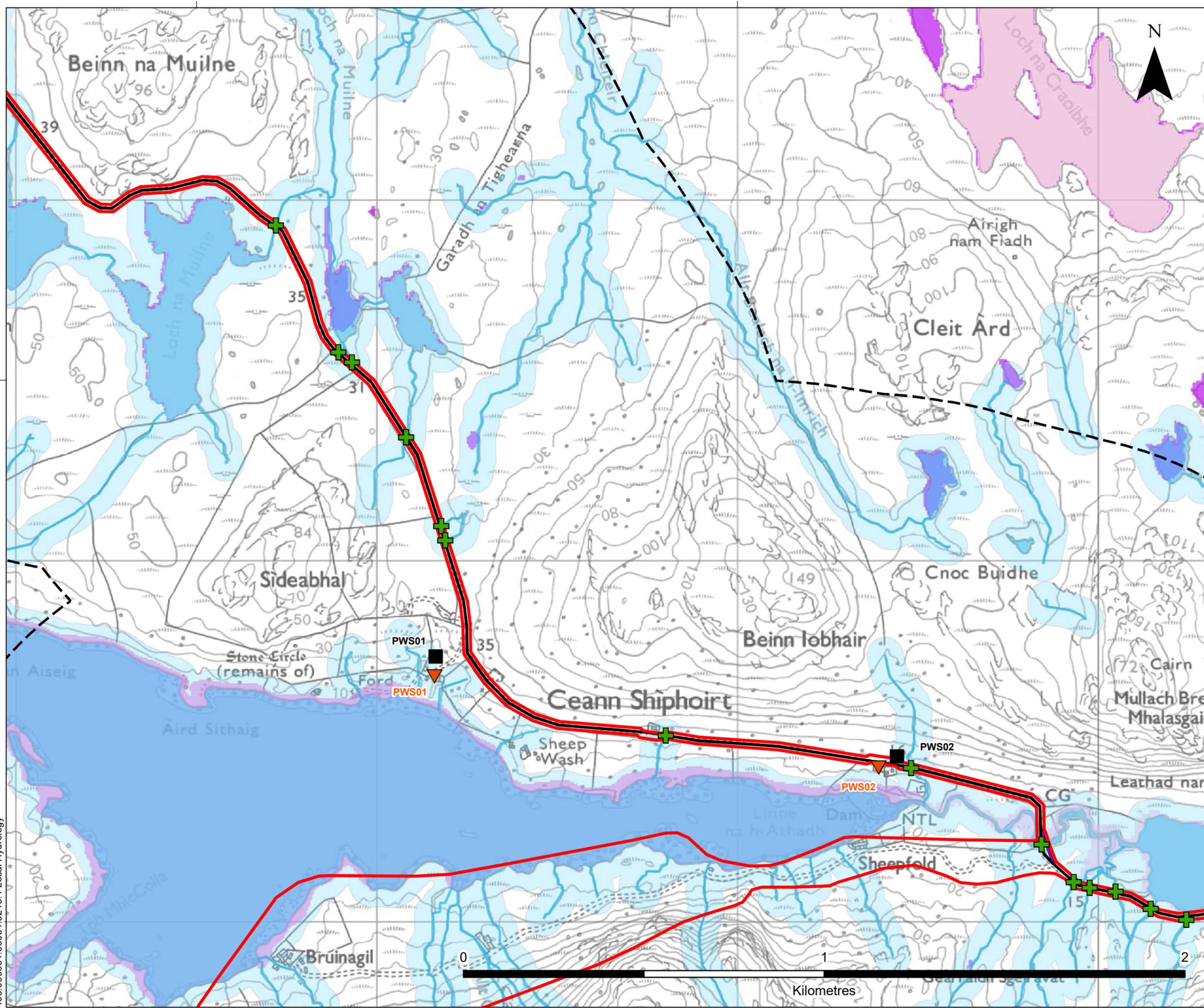
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406.00004.00001.0215.1 Local Hydrology



LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Temporary Bridge Alignment
- Existing Road (To Be Upgraded)
- + Watercourse Crossing

Local Hydrology

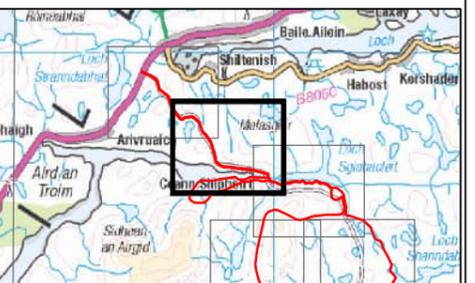
- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Coastal Flooding
- Medium Likelihood of Surface Water Flooding

Private Water Supply (PWS)

- ▼ Property with PWS
- Spring



Eurowind Energy



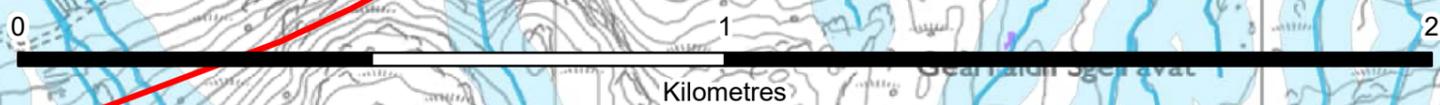
UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY

LOCAL HYDROLOGY

SEI FIGURE 10.1c

Scale 1:10,000 @ A3

Date JUNE 2024

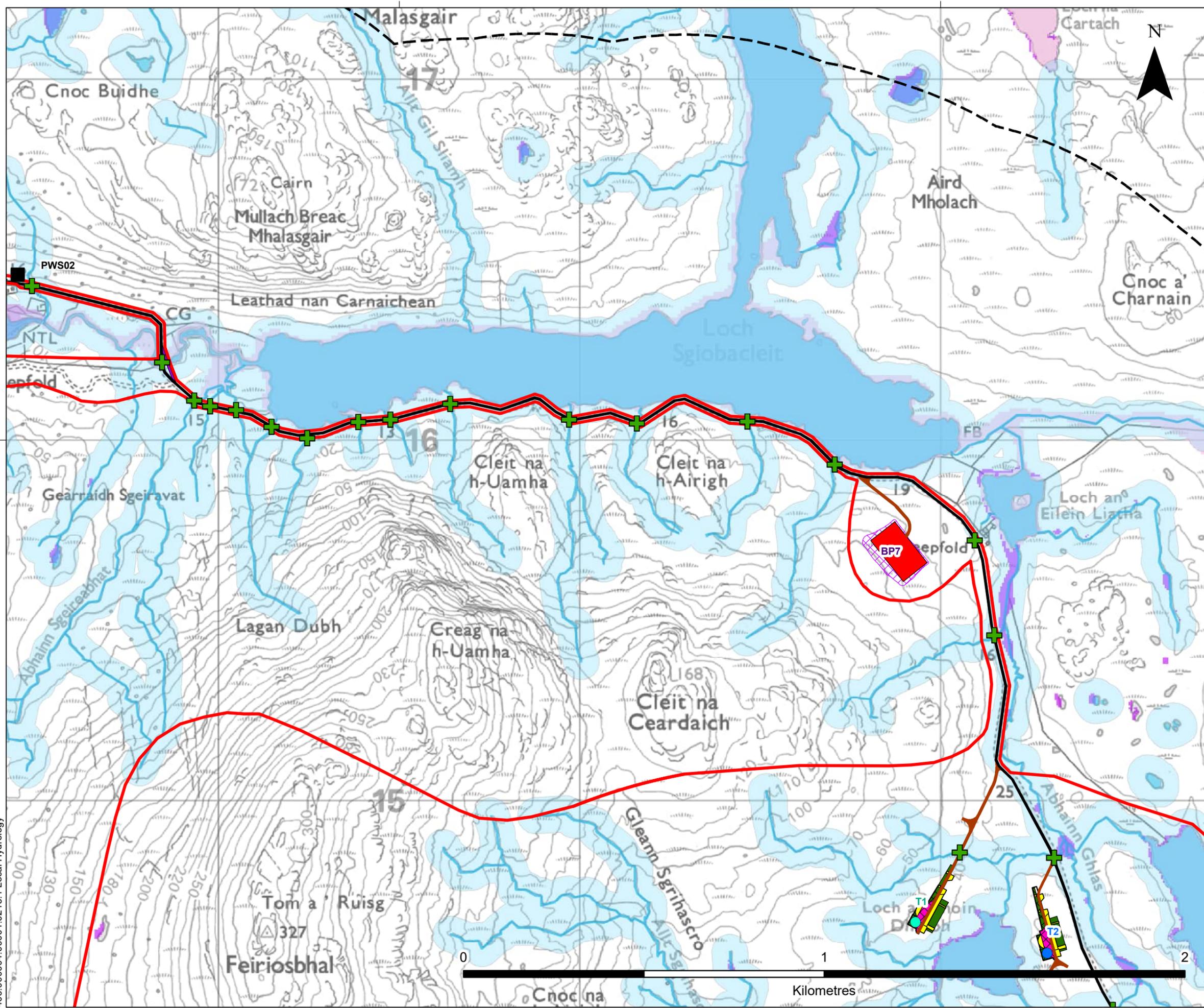


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406.00004.00001.0215.1 Local Hydrology

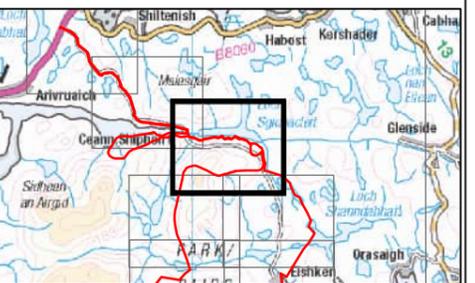


- LEGEND**
- Application Boundary
 - Application Boundary 1 km Buffer
 - Proposed Turbine Location (180 m Blade Tip Height)
 - Proposed Turbine Location (200 m Blade Tip Height)
 - Proposed Bespoke Hardstanding Envelope
 - Proposed Permanent Substation
 - Proposed Permanent Hardstanding
 - Proposed Temporary Hardstanding
 - Proposed Temporary Bridge Alignment
 - Proposed Clearance Area
 - Potential Borrow Pit
 - Proposed Access Track / Turning Head
 - Existing Road (To Be Upgraded)
 - + Watercourse Crossing

- Local Hydrology**
- Watercourse
 - Waterbody
 - Watercourse and Waterbody 50 m Buffer

- SEPA Flood Extent**
- Medium Likelihood of River Flooding
 - Medium Likelihood of Coastal Flooding
 - Medium Likelihood of Surface Water Flooding

- Private Water Supply (PWS)**
- ▼ Property with PWS
 - Spring



Eurowind Energy

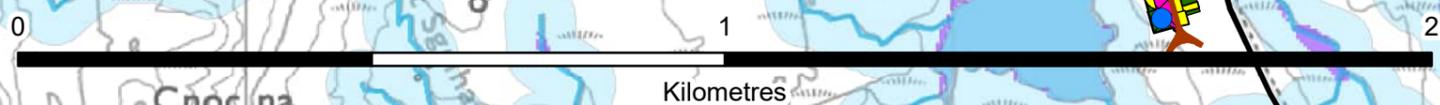
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UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY

LOCAL HYDROLOGY

SEI FIGURE 10.1d

Scale 1:10,000 @ A3	Date JUNE 2024
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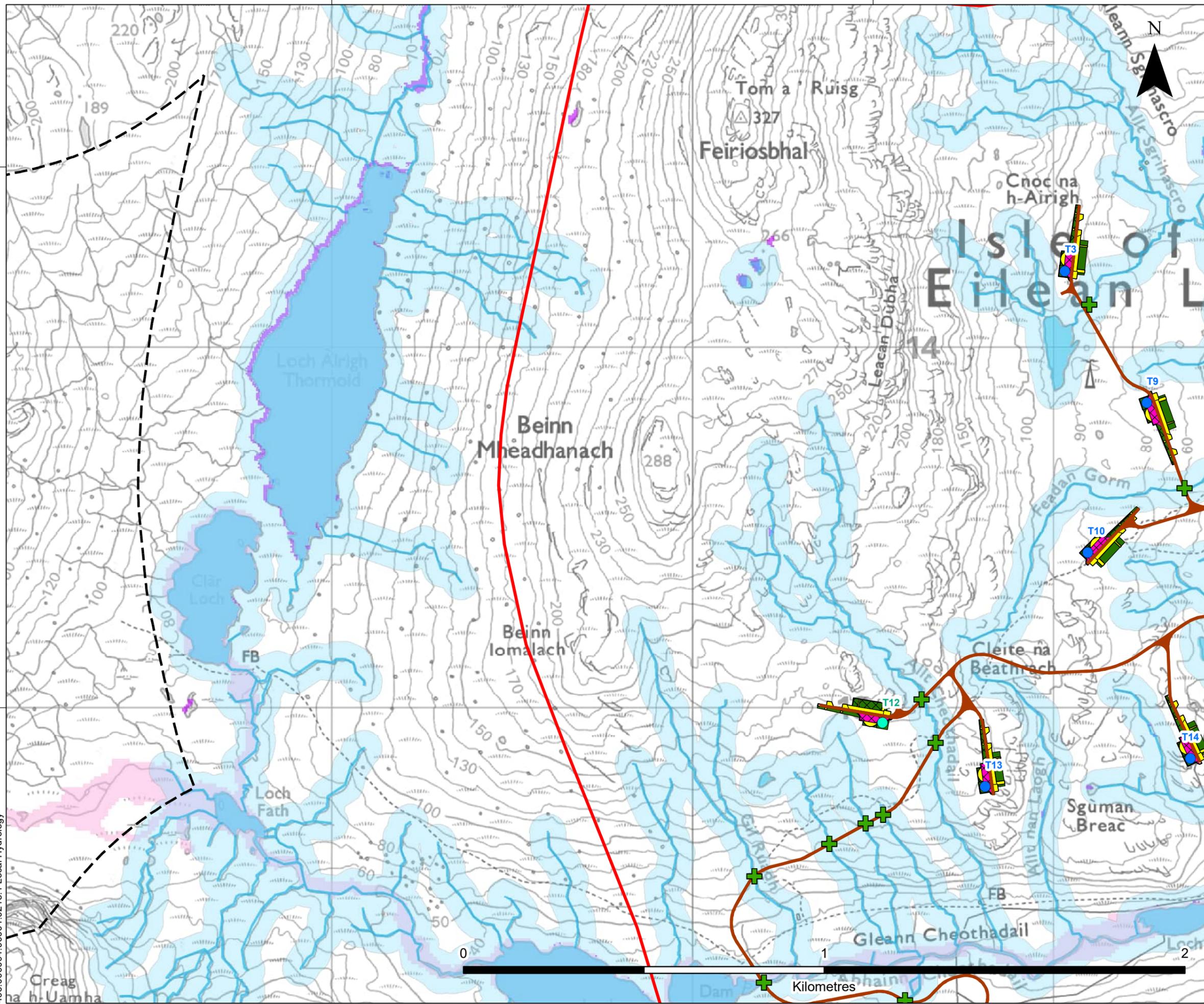
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406.00004.00001.0215.1 Local Hydrology



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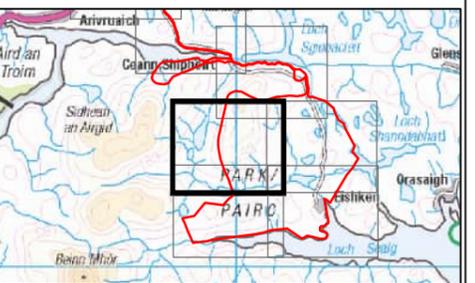
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- + Watercourse Crossing

Local Hydrology

- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Surface Water Flooding



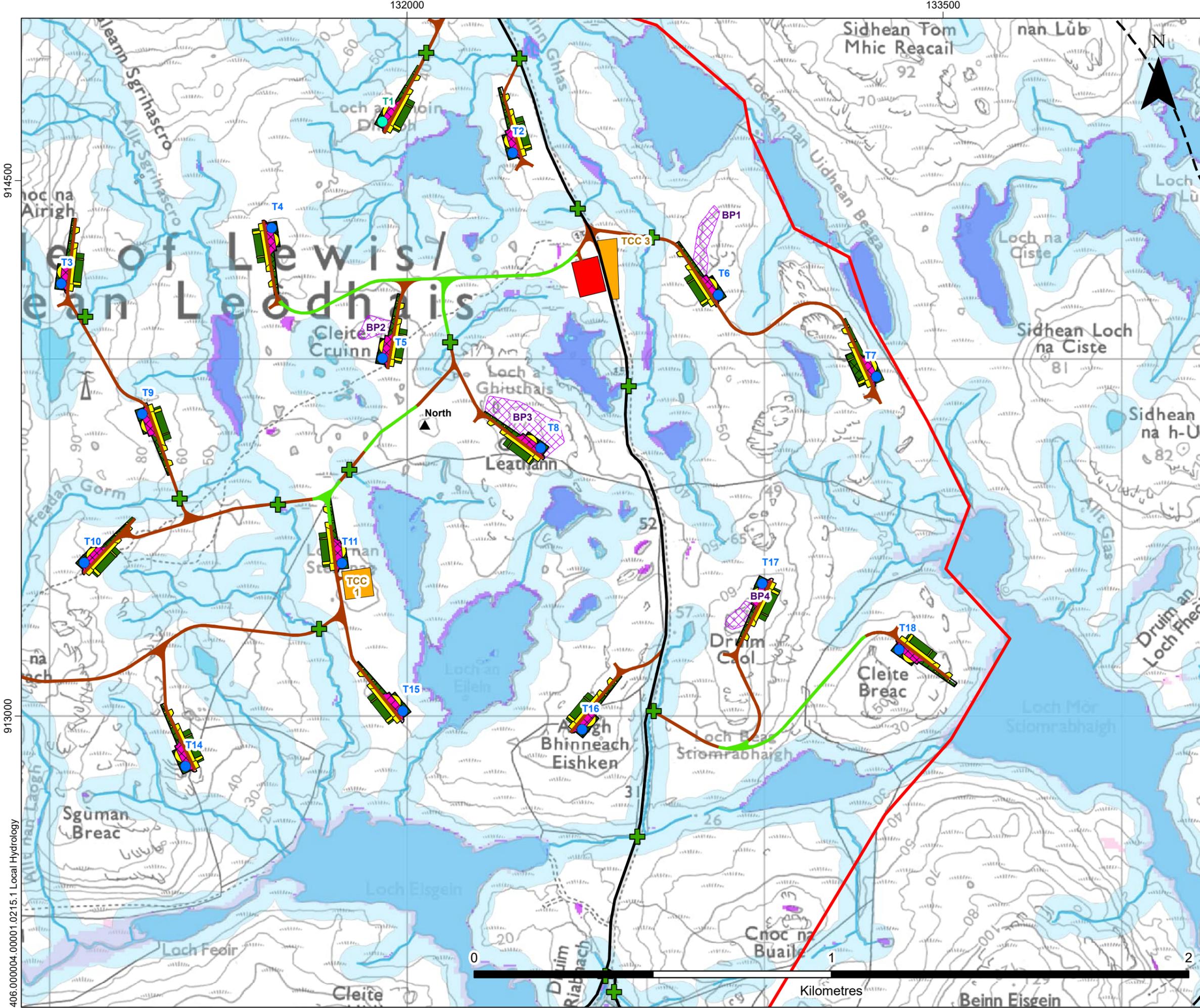
Eurowind Energy

SLR

UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
LOCAL HYDROLOGY

SEI FIGURE 10.1e

Scale 1:10,000 @ A3	Date JUNE 2024
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LEGEND

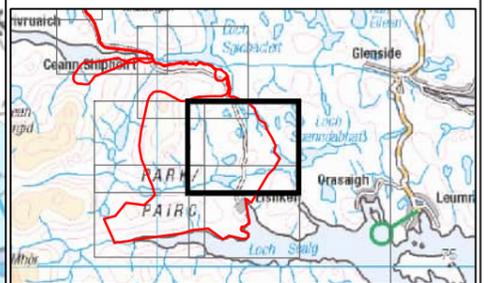
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)
- + Watercourse Crossing

Local Hydrology

- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Surface Water Flooding



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UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY
 LOCAL HYDROLOGY

SEI FIGURE 10.1f

Scale 1:10,000 @ A3 Date JUNE 2024

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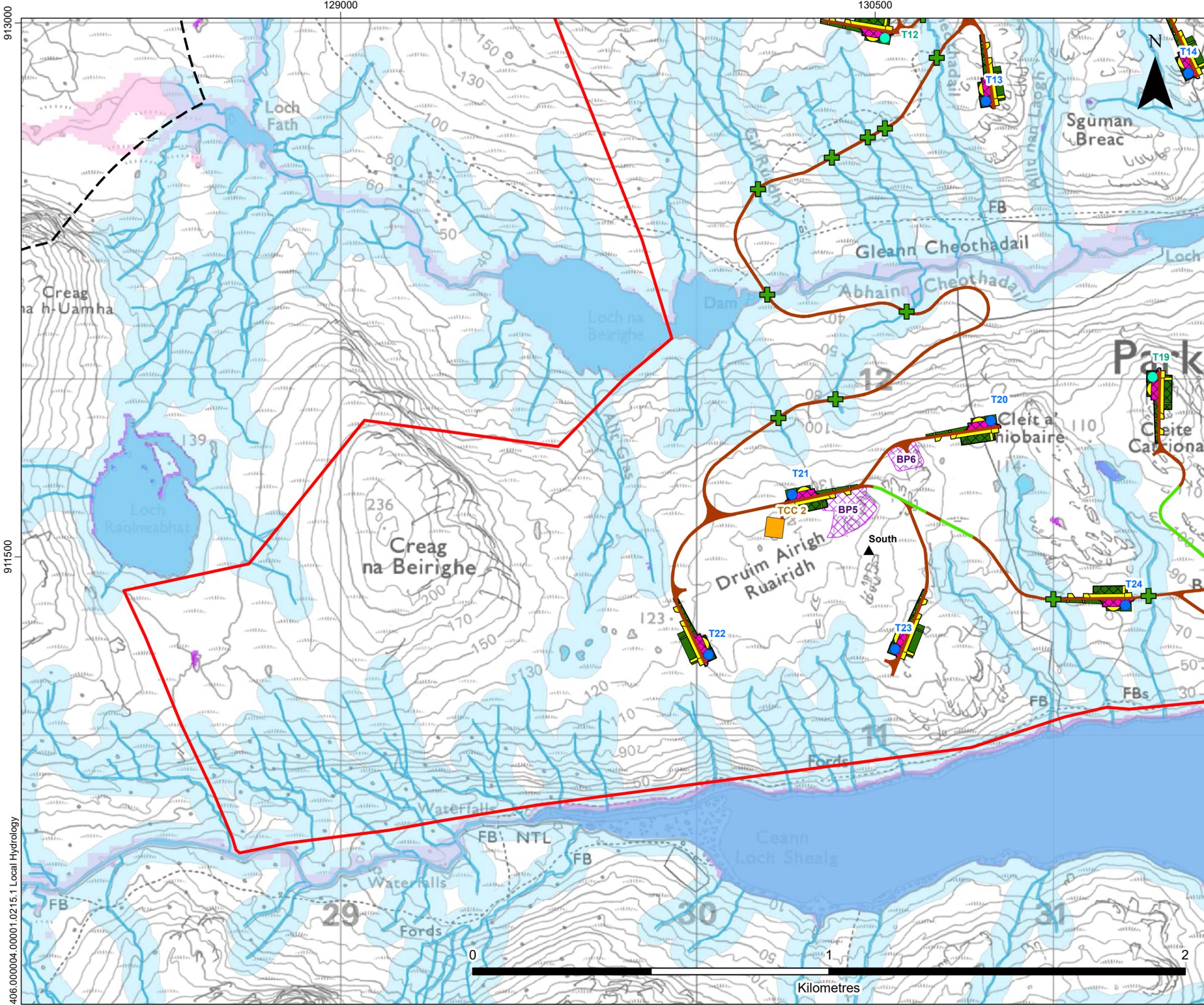
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406.00004.00001.0215.1 Local Hydrology

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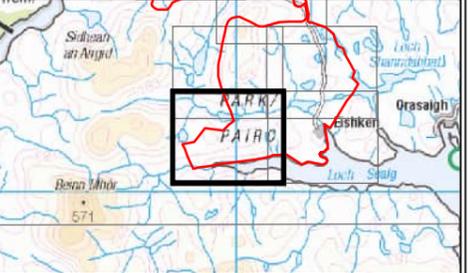
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- + Watercourse Crossing

Local Hydrology

- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Coastal Flooding
- Medium Likelihood of Surface Water Flooding



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UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY
LOCAL HYDROLOGY

SEI FIGURE 10.1g

Scale: 1:10,000 @ A3 Date: JUNE 2024

406.00004.00001.0215.1 Local Hydrology

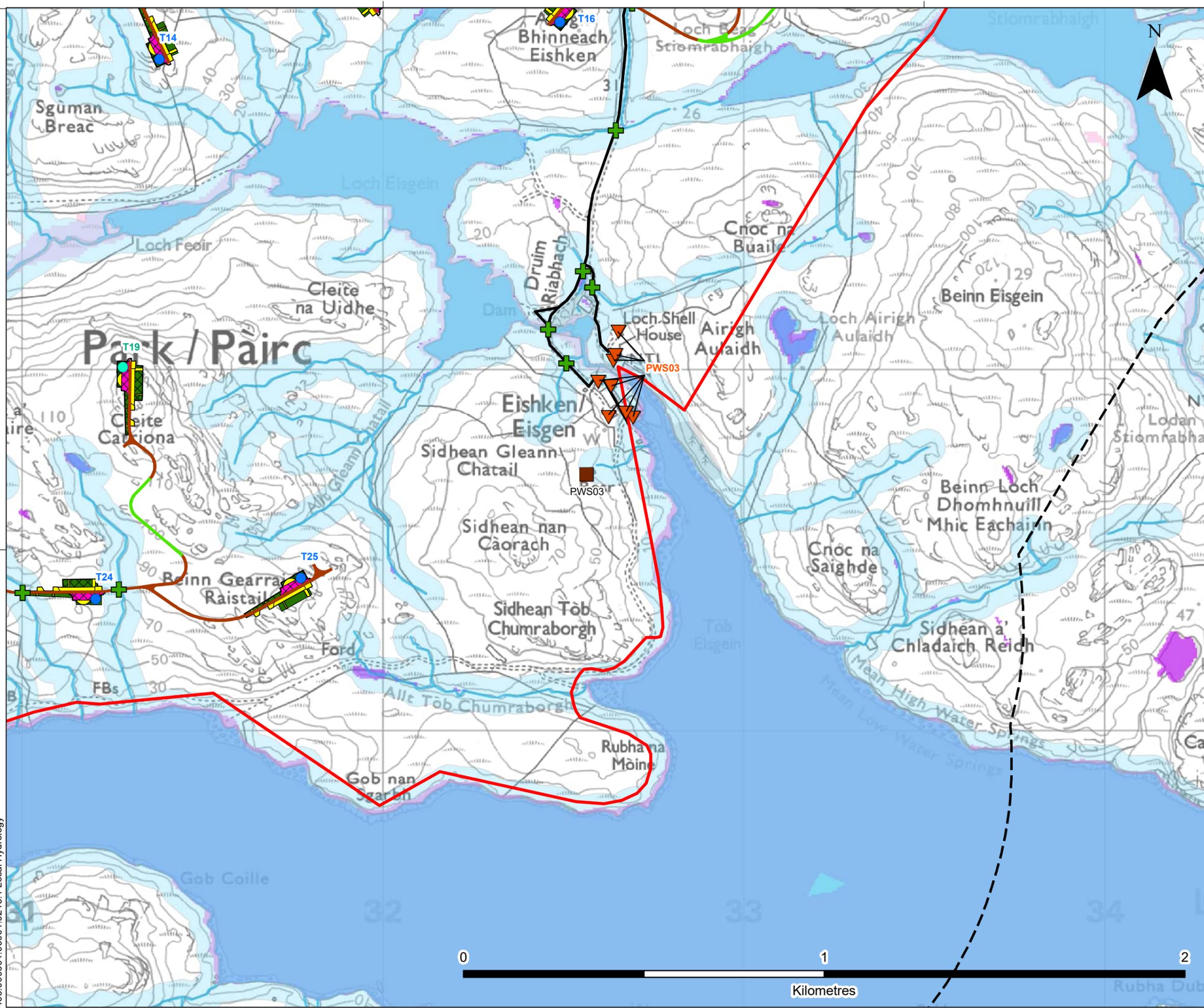
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406.00004.00001.0215.1 Local Hydrology



LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)
- + Watercourse Crossing

Local Hydrology

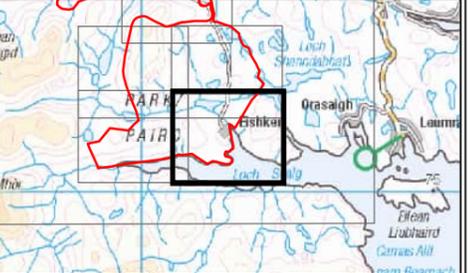
- Watercourse
- Waterbody
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

- Medium Likelihood of River Flooding
- Medium Likelihood of Coastal Flooding
- Medium Likelihood of Surface Water Flooding

Private Water Supply (PWS)

- ▼ Property with PWS
- Spring / Hill Runoff



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UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY

LOCAL HYDROLOGY

SEI FIGURE 10.1h



Scale: 1:10,000 @ A3 Date: JUNE 2024

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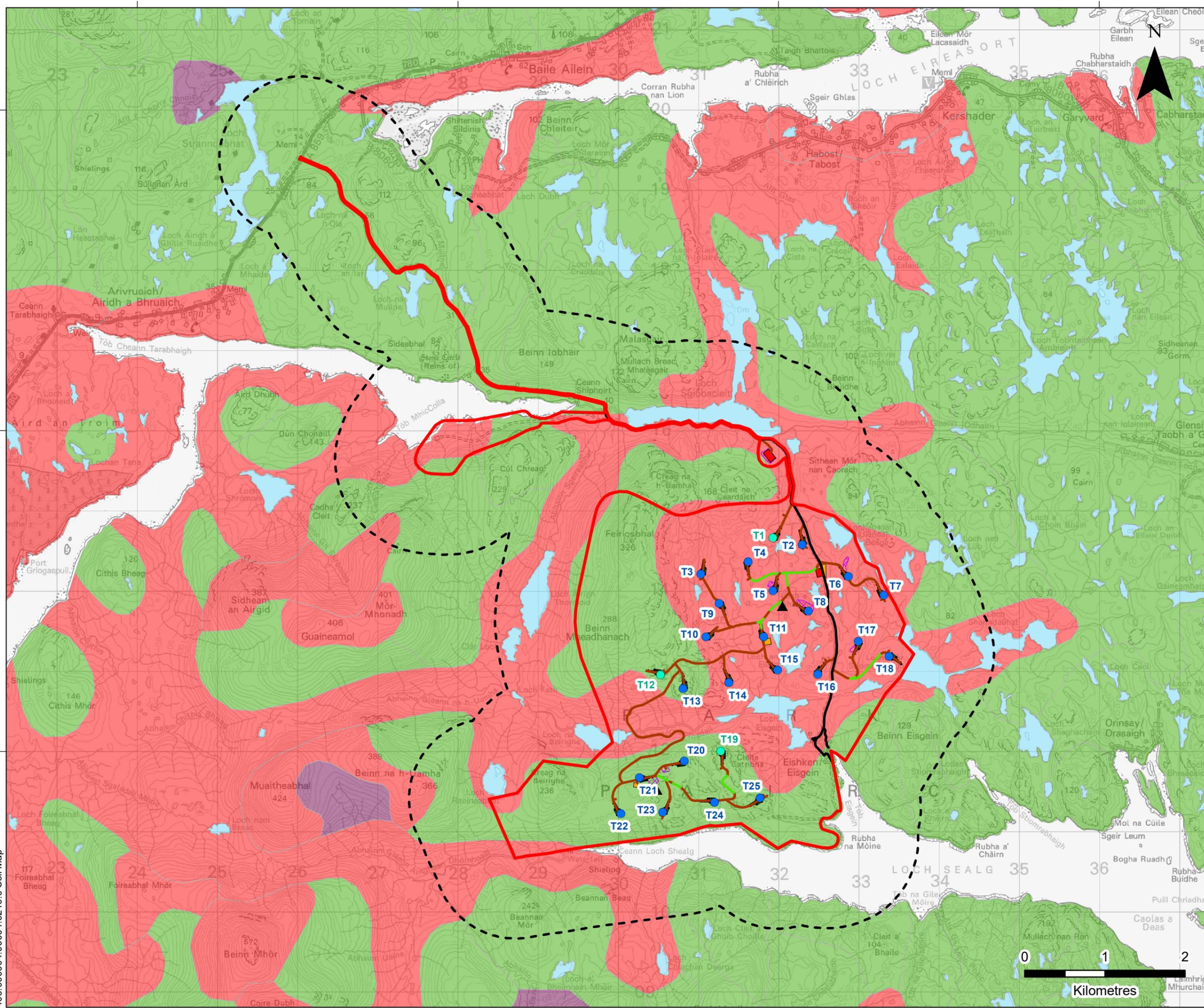
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406.00004.00001.02.16.0 Soil Map

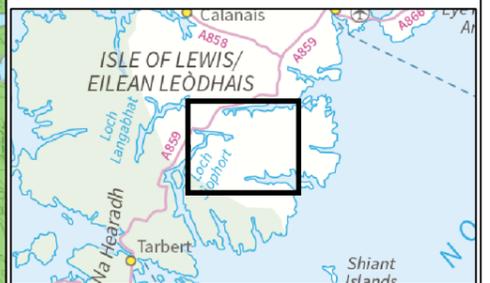


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Soil Map of Scotland - Generalised Soil Type

- Blanket Peats
- Gleys
- Lochs
- Podzols
- No Data



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**UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY**

SOIL MAP

SEI FIGURE 10.2

Scale 1:45,000 @ A3	Date MAY 2024
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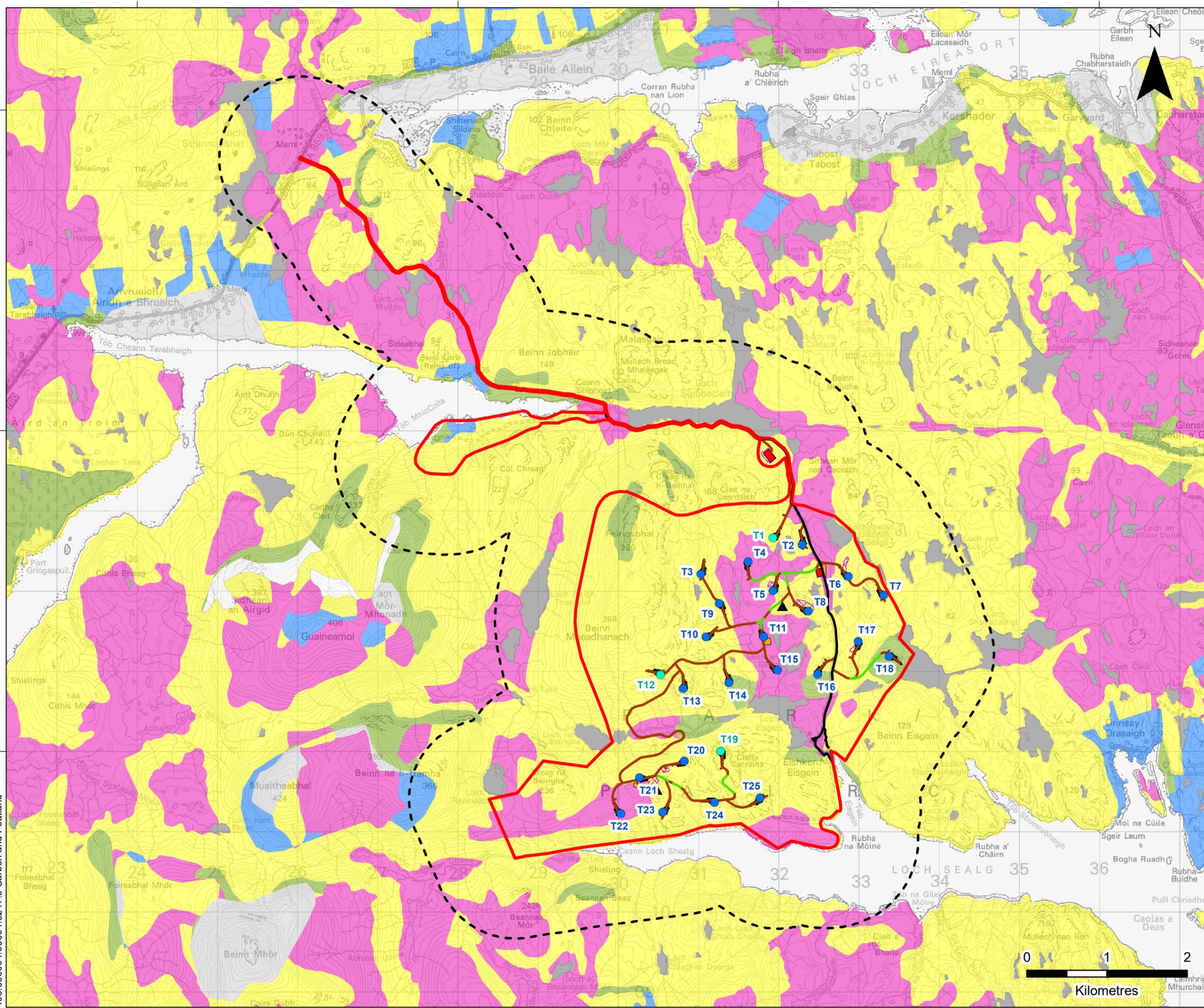
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LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

National Importance for Carbon-Rich Soil, Deep Peat and Priority Peatland Habitat

- CLASS 1 All vegetation cover is priority peatland habitats. All soils are carbon-rich soils and deep peat
- CLASS 2 The vegetation cover is dominated by priority peatland habitats. All soils are carbon-rich soil and deep peat
- CLASS 3 Dominant vegetation cover is not priority peatland habitat but is associated with wet and acidic type. Occasional peatland habitats can be found. Most soils are carbon-rich soils, with some areas of deep peat
- CLASS 4 Area unlikely to be associated with peatland habitats or wet and acidic type. Area unlikely to include carbon-rich soils
- CLASS 5 Soil information takes precedence over vegetation data. No peatland habitat recorded. May also show bare soil. All soils are carbon-rich soil and deep peat
- Mineral soils - Peatland habitats are not typically found on such soils
- Non-soil (i.e. loch, built up area, rock and scree)



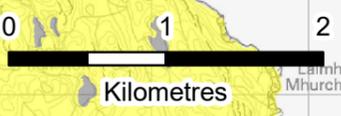
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UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY
CARBON AND PEATLAND

SEI FIGURE 10.3

Scale 1:45,000 @ A3 Date MAY 2024



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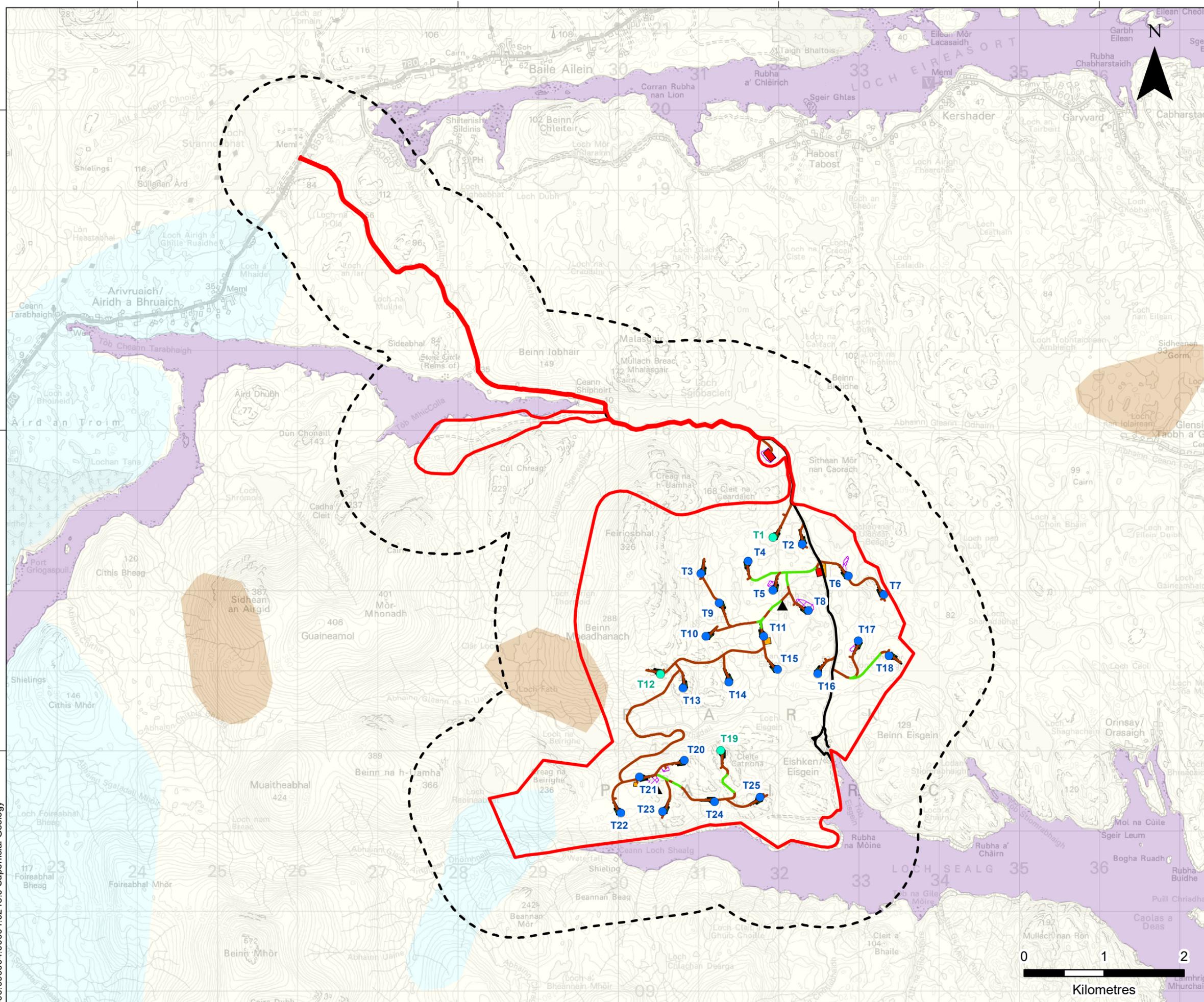
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406.000004.00001.02.18.0 Superficial Geology

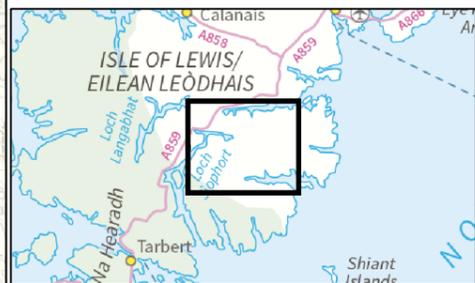


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Superficial Geology

- Peat
- Till - Diamicton
- No Mapped Superficial Deposit
- Bedrock at or Near Surface



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UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY
SUPERFICIAL GEOLOGY

SEI FIGURE 10.4

Scale 1:45,000 @ A3 Date MAY 2024



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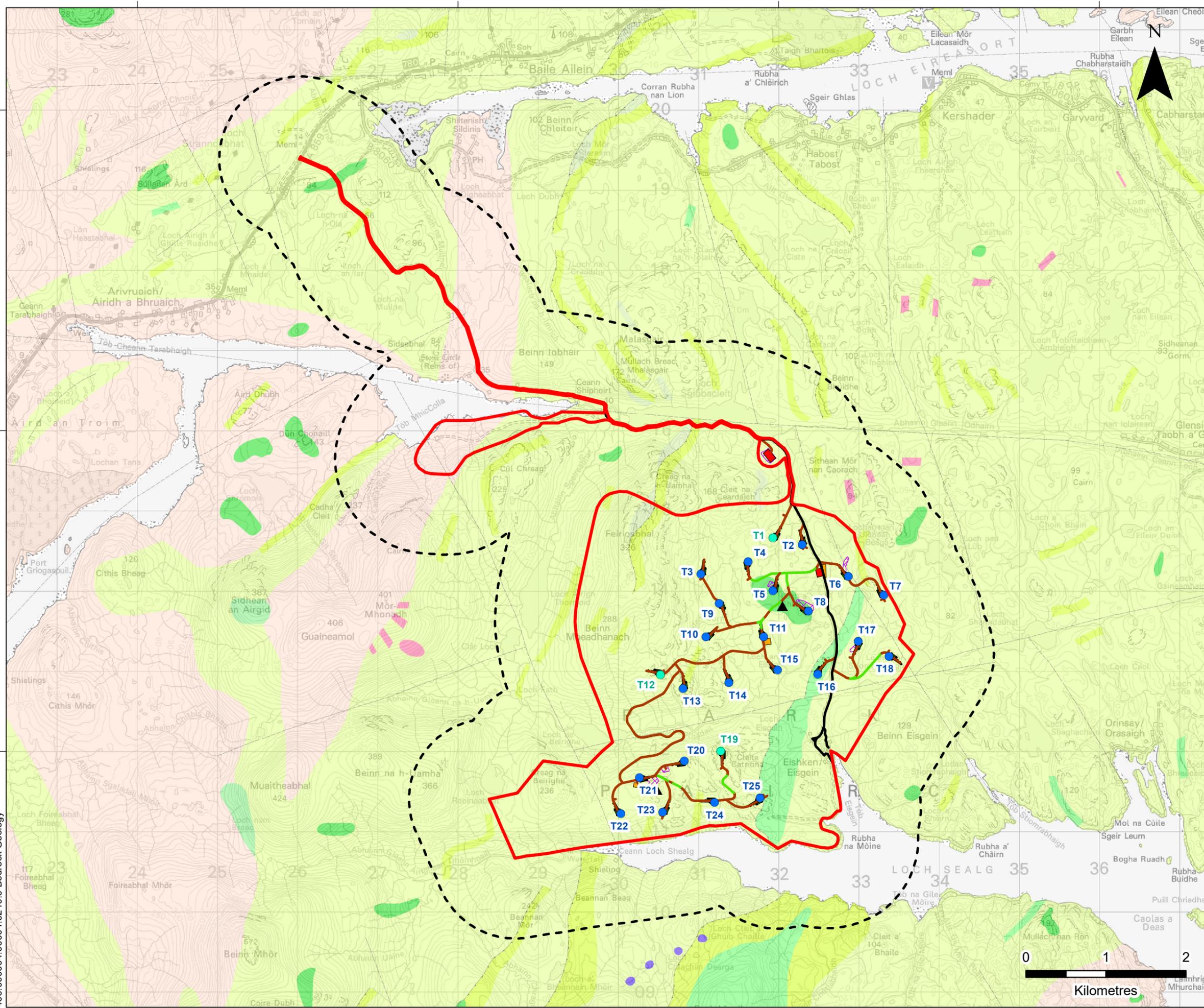
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LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Bedrock Geology

Igneous Rock

- Uig Hills - Harris Igneous Complex - Granite

Metamorphic Rock

- Scourie Dyke Swarm - Ortho-Amphibolite
- Lewisian Complex -
- Lewisian Complex - Gneiss
- Lewisian Complex - Ultramafic Rock
- Outer Hebrides Thrust Zone Mylonites Complex - Cataclasite
- Outer Hebrides Thrust Zone Mylonites Complex - Mylonite
- Outer Hebrides Thrust Zone Mylonites Complex - Pseudotachylite

Linear Geology

- Fault Line
- Thrust Fault Line

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UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
BEDROCK GEOLOGY

SEI FIGURE 10.5

Scale 1:45,000 @ A3 Date MAY 2024

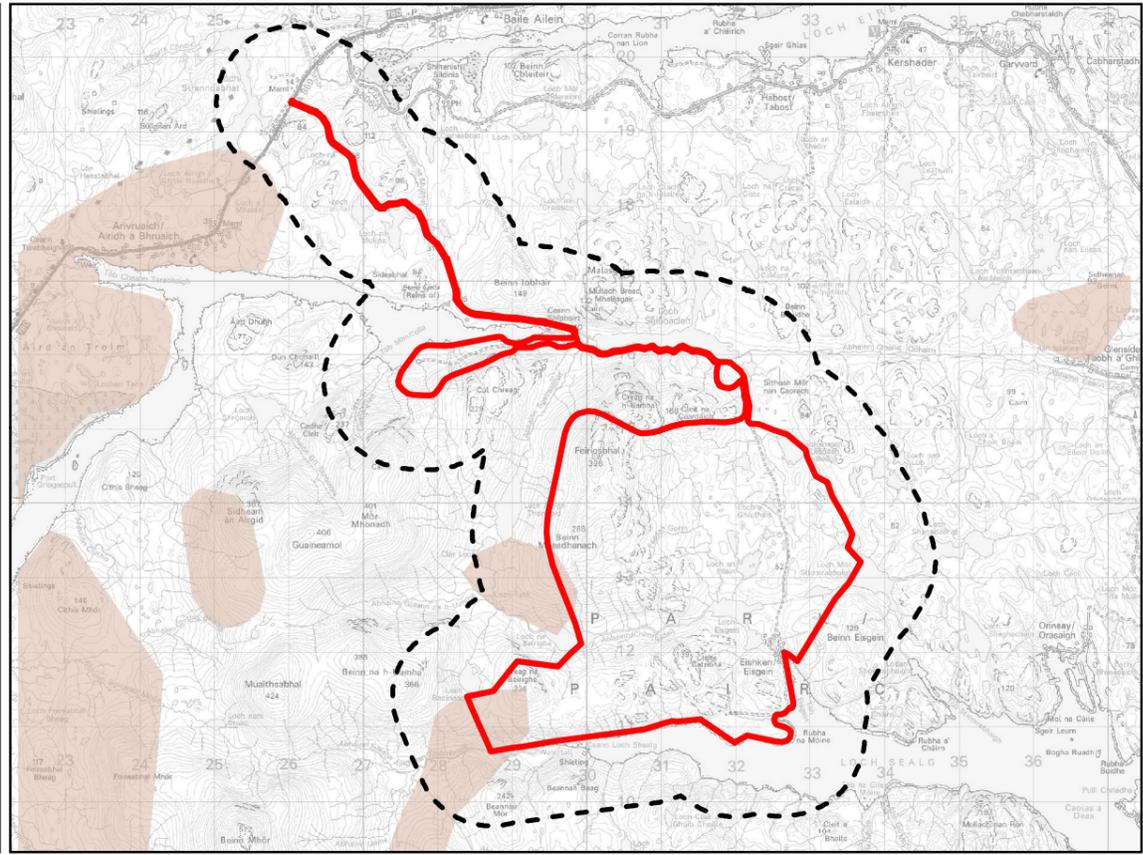
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MAP EXTRACT

Scale - 1:500,000 @ A3

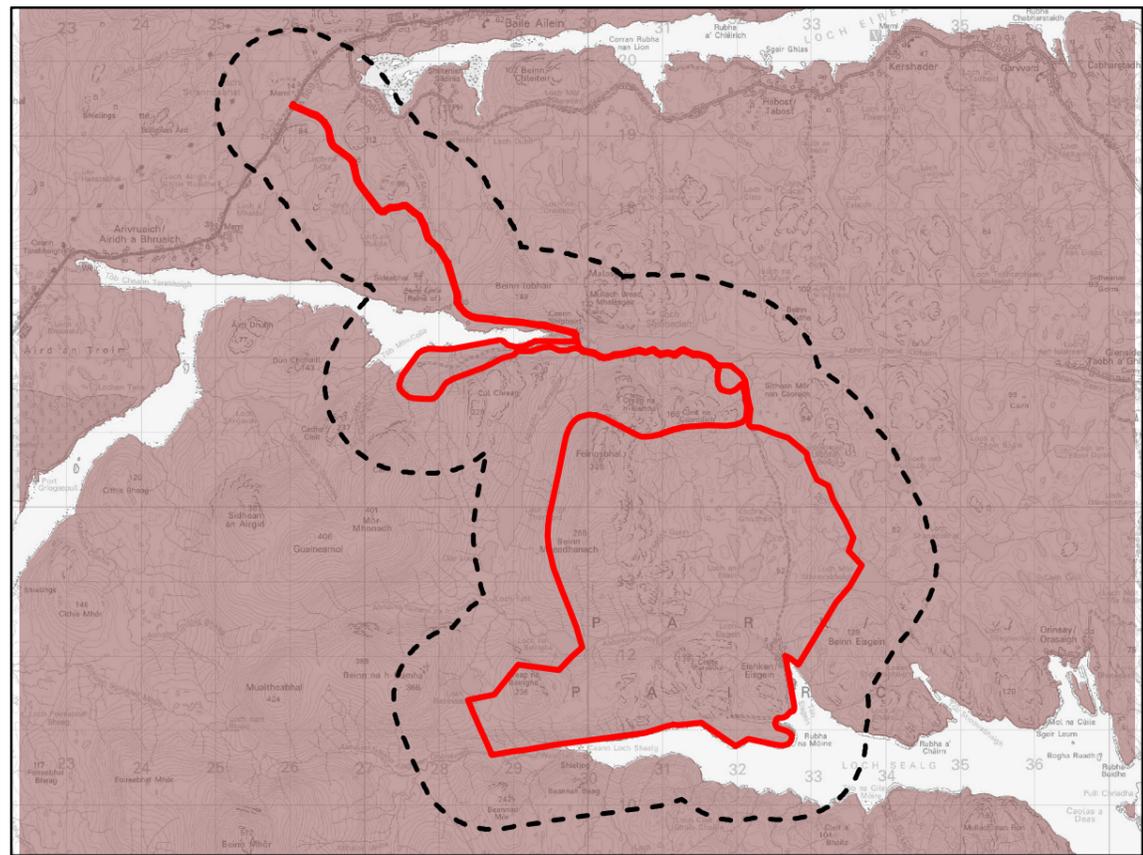


SUPERFICIAL AQUIFER

Scale - 1:100,000 @ A3

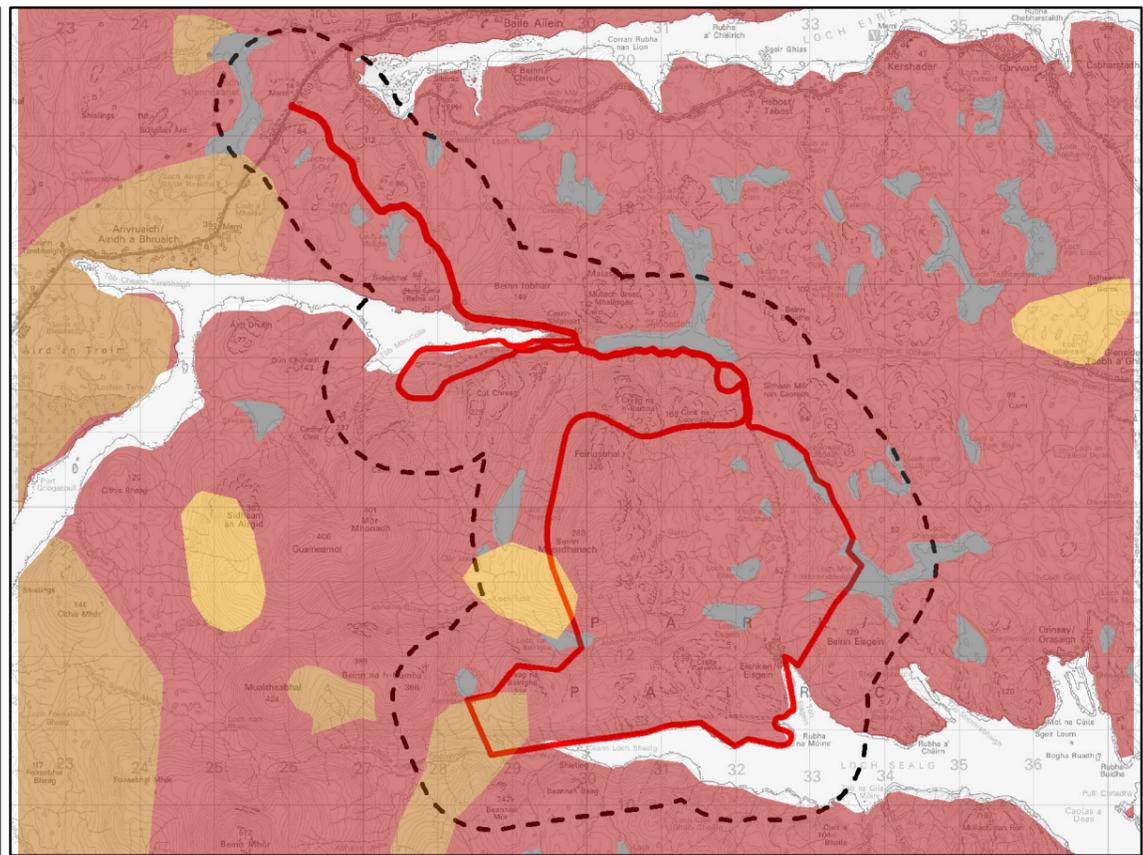
LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Superficial Aquifer**
 - Not a Significant Aquifer
- Bedrock Aquifer**
 - Fracture; Very Low Productivity
- Groundwater Vulnerability in the Uppermost Aquifer Vulnerability Class**
 - 5 - Vulnerable to Most Pollutants, With Rapid Impact in Many Scenarios).
 - 4a - Vulnerable to Those Pollutants not Readily Adsorbed or Transformed. Less Likely to Have Clay Present in Superficial Deposits (Therefore Generally Higher Vulnerability Than 4b).
 - 4b - Vulnerable to Those Pollutants not Readily Adsorbed or Transformed. More Likely to Have Clay Present in Superficial Deposits (Therefore Generally Lower Vulnerability Than 4a).
 - 0 - Not Sufficient Data to Classify Vulnerability: e.g. Below Lochs; in Urban Areas Where Geological and/or Soils Data are Missing; or Where Superficial Deposits are Mapped but not Classified.



BEDROCK AQUIFER

Scale - 1:100,000 @ A3



GROUNDWATER VULNERABILITY IN THE UPPERMOST AQUIFER

Scale - 1:100,000 @ A3



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UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
GROUNDWATER VULNERABILITY

SEI FIGURE 10.6

AS SHOWN ON PLAN Date MAY 2024

406.00004.00001.0220.0 Groundwater Vulnerability

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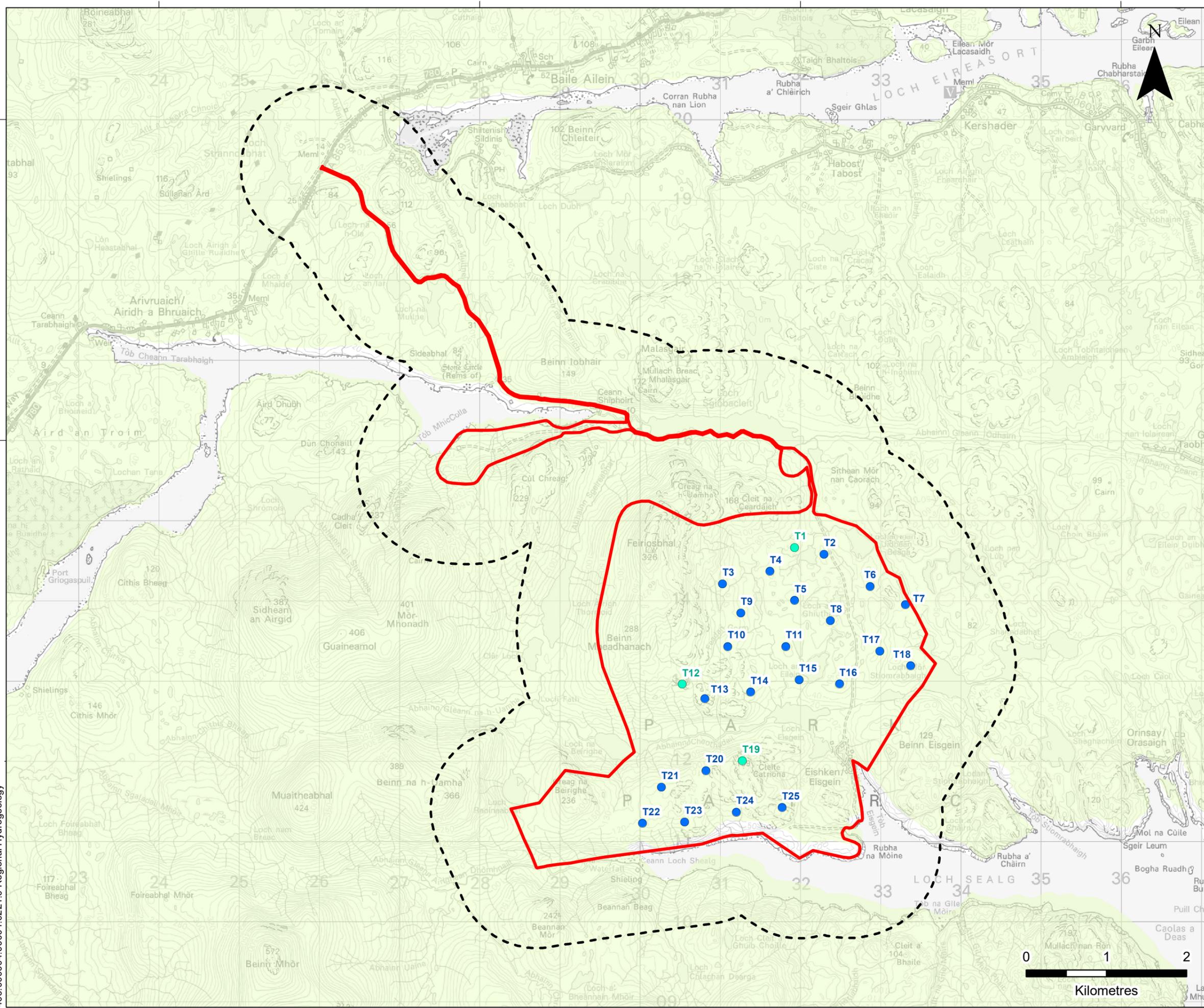
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406.000004.00001.0221.0 Regional Hydrogeology

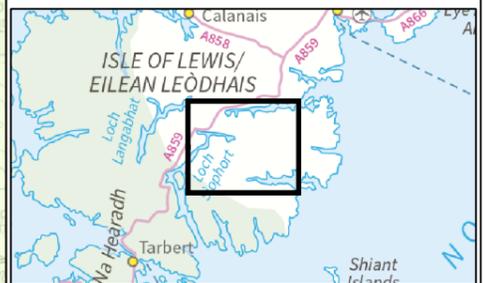


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)

Aquifer In Which Flow Is Virtually All Though Fractures And Other Discontinuities

- Low Productivity Aquifer



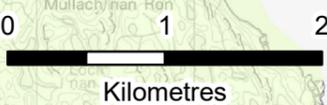
Eurowind Energy

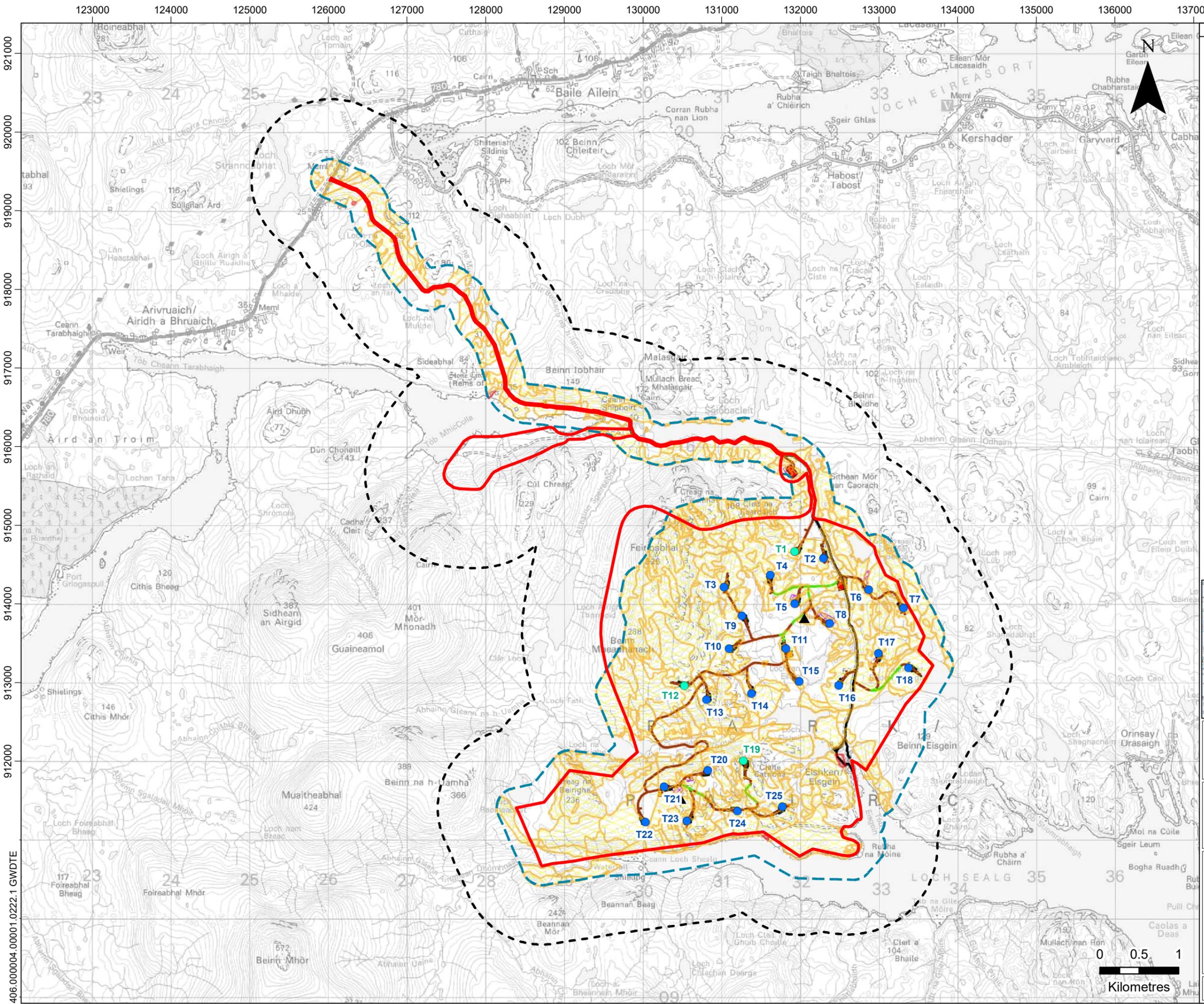
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UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
REGIONAL HYDROGEOLOGY

SEI FIGURE 10.7

Scale 1:45,000 @ A3	Date MAY 2024
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LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- Moderate Potential



Eurowind Energy.

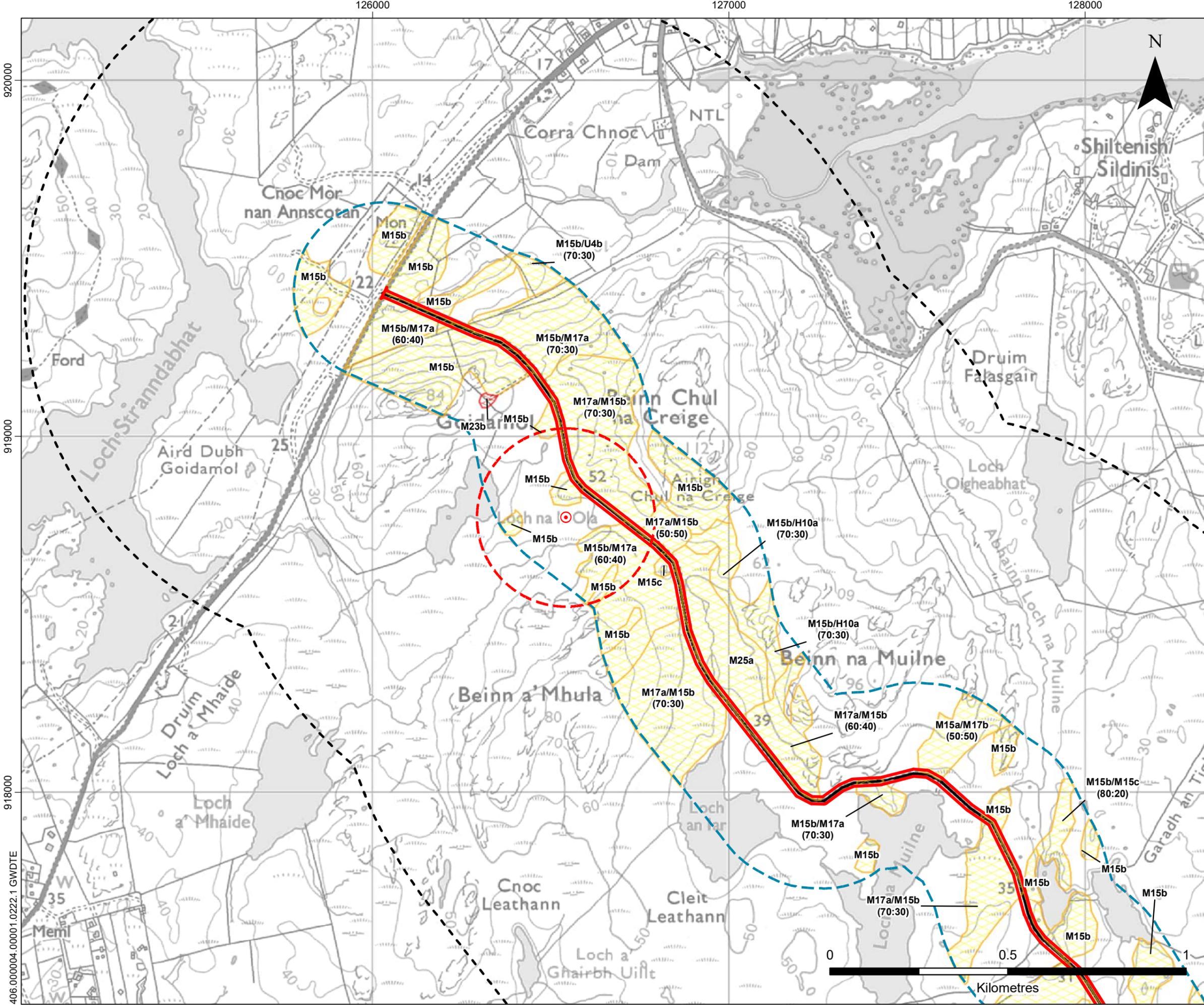
SLR

**UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY**

**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8a

Scale: 1:45,000 @ A3 Date: JUNE 2024



LEGEND

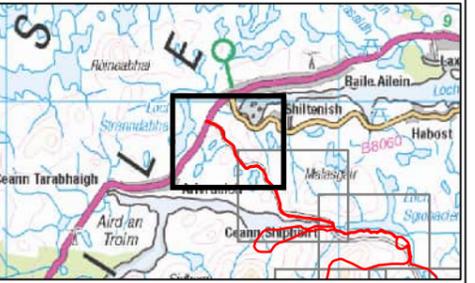
- Application Boundary
- Application Boundary 1 km Buffer
- Existing Road (To Be Upgraded)
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- Moderate Potential

Target Note

- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDTE) Potential
- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDTE) Potential 250 m Buffer



Eurowind Energy.

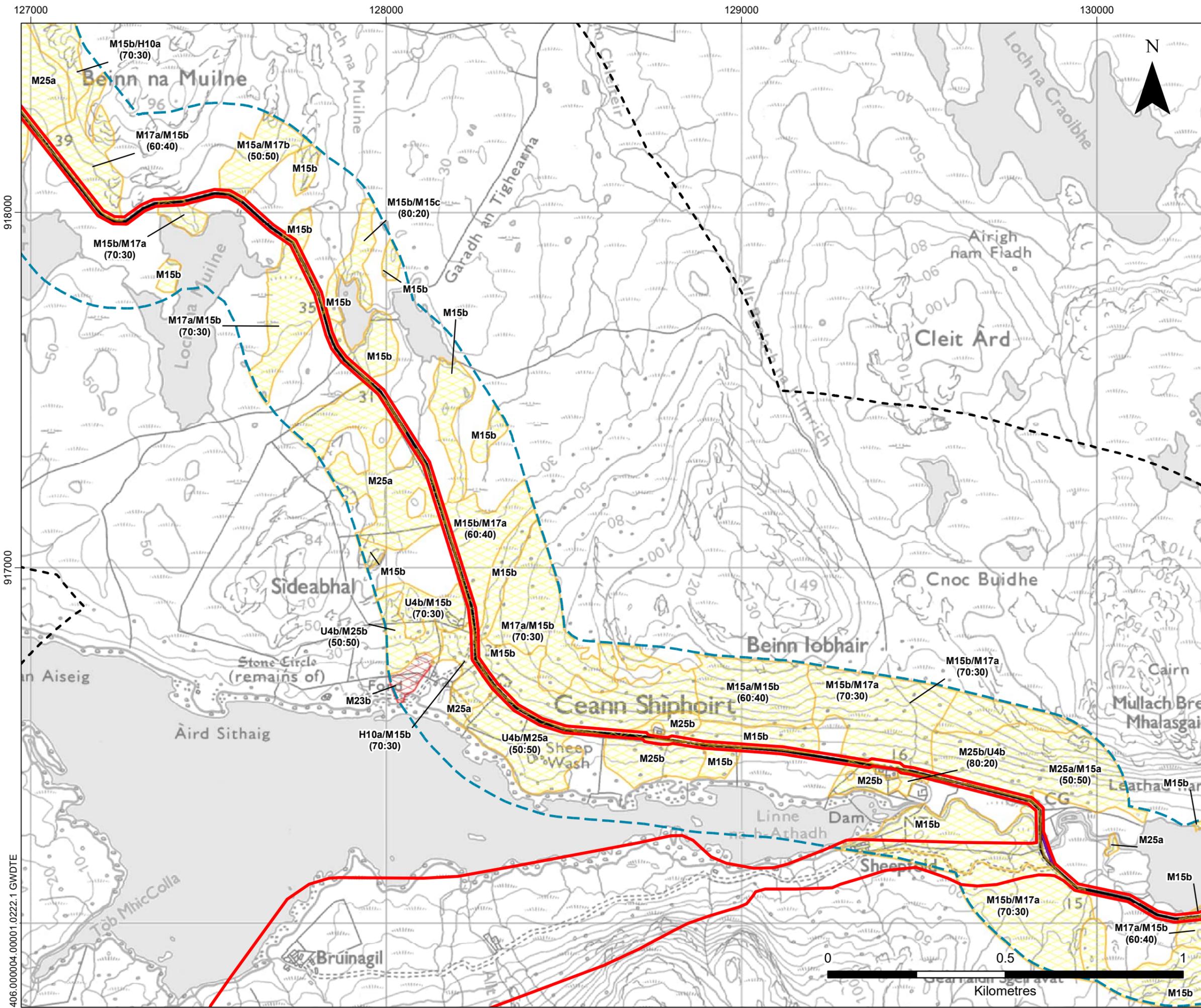
SLR

UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY

**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8b

Scale: 1:10,000 @ A3 Date: JUNE 2024

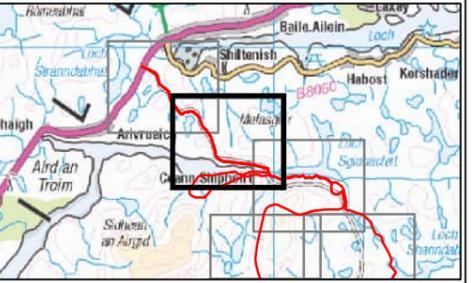


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Temporary Bridge Alignment
- Existing Road (To Be Upgraded)
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- Moderate Potential



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UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY

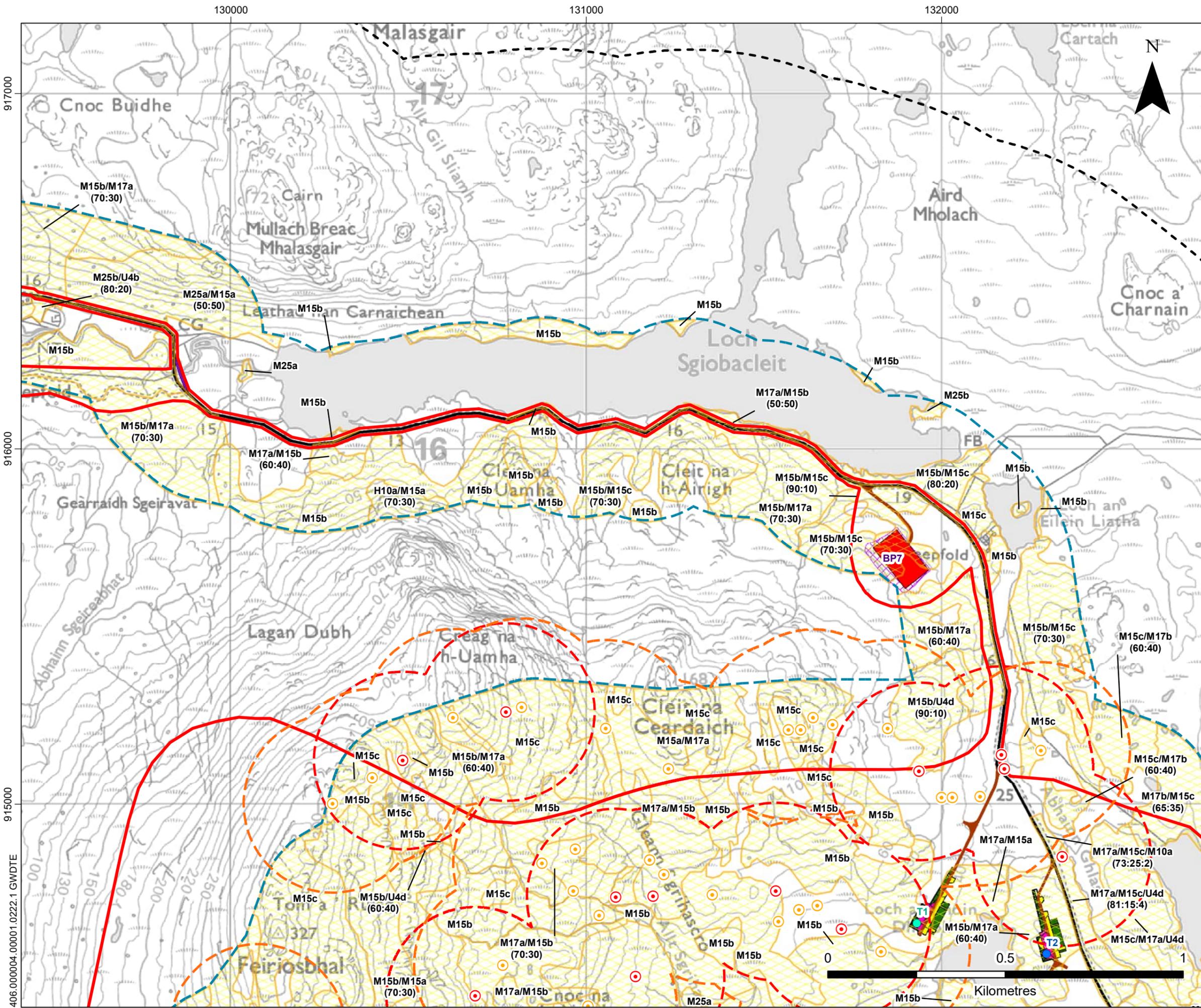
**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8c

Scale: 1:10,000 @ A3 Date: JUNE 2024

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406.00004.00001.0222.1.GWDTE





LEGEND

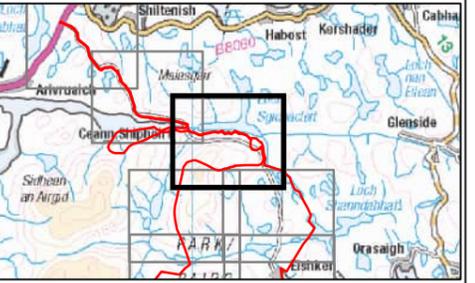
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Existing Road (To Be Upgraded)
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- Moderate Potential

Target Note

- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDTE) Potential
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDTE) Potential
- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDTE) Potential 250 m Buffer
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDTE) Potential 250 m Buffer



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UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY

**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8d

Scale: 1:10,000 @ A3 Date: JUNE 2024

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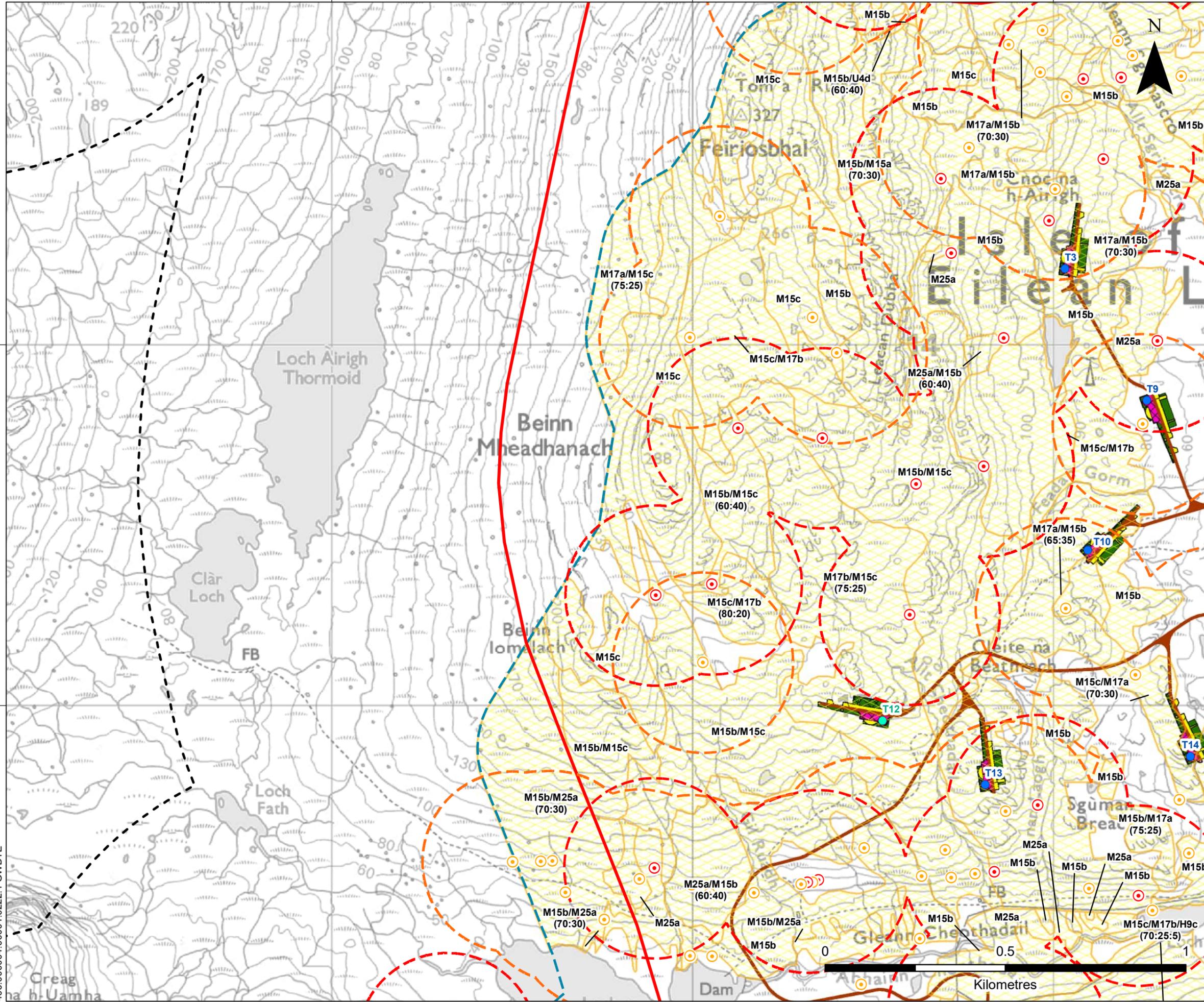
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406.00004.0001.0222.1 GWDTE



LEGEND

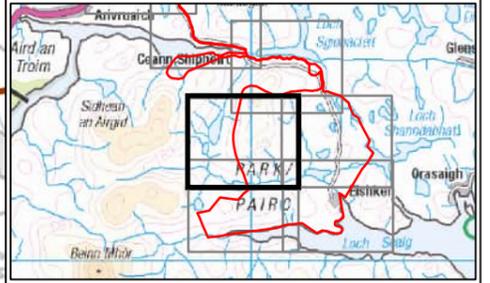
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- Moderate Potential

Target Note

- ⊙ Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential
- ⊙ Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential
- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential 250 m Buffer
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential 250 m Buffer



Eurowind Energy.

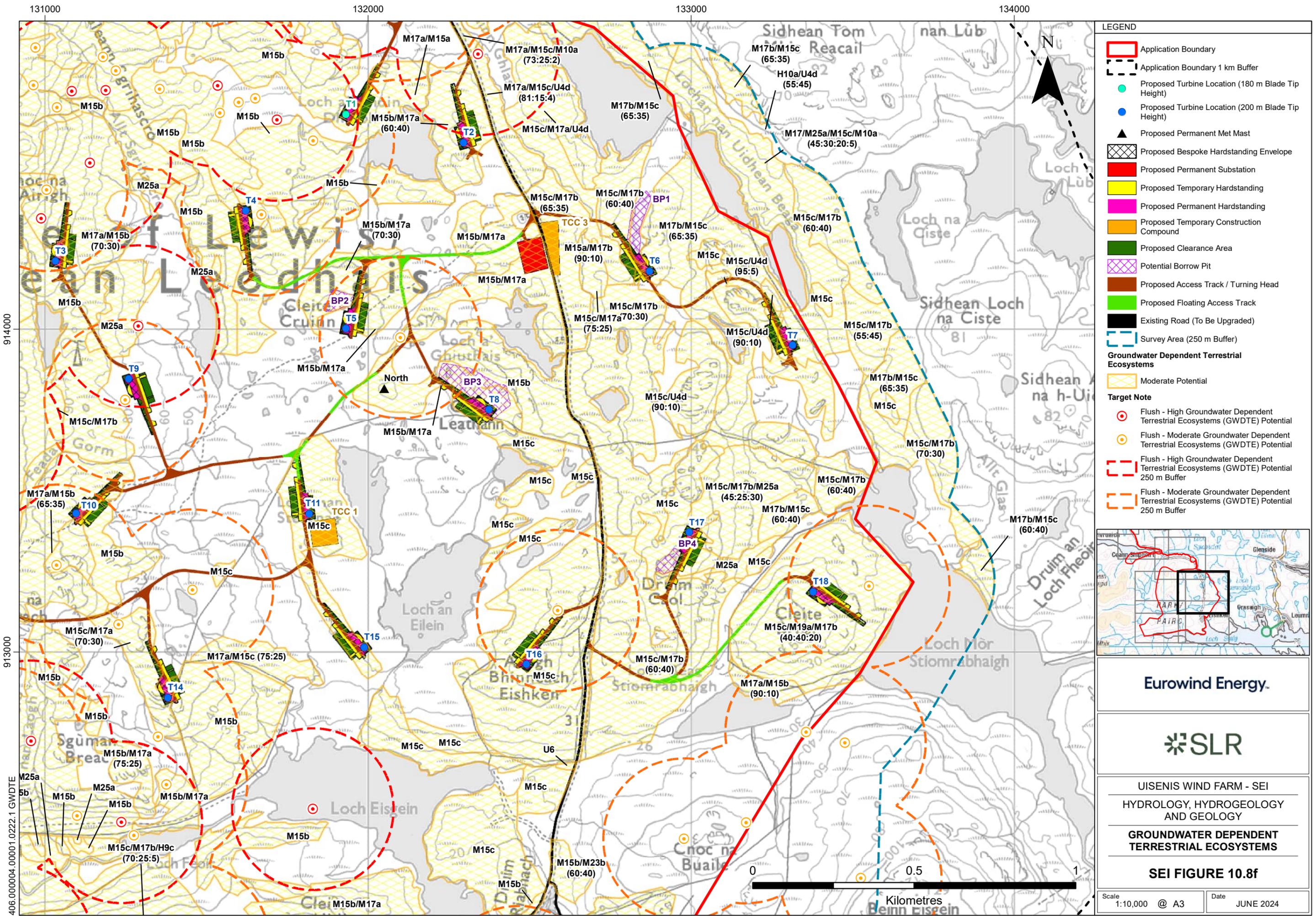


UISENIS WIND FARM - SEI
 HYDROLOGY, HYDROGEOLOGY
 AND GEOLOGY

**GROUNDWATER DEPENDENT
 TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8e

Scale 1:10,000 @ A3 Date JUNE 2024



LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- Moderate Potential

Target Note

- ⊙ Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential
- ⊙ Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential
- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential 250 m Buffer
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential 250 m Buffer

Eurowind Energy.

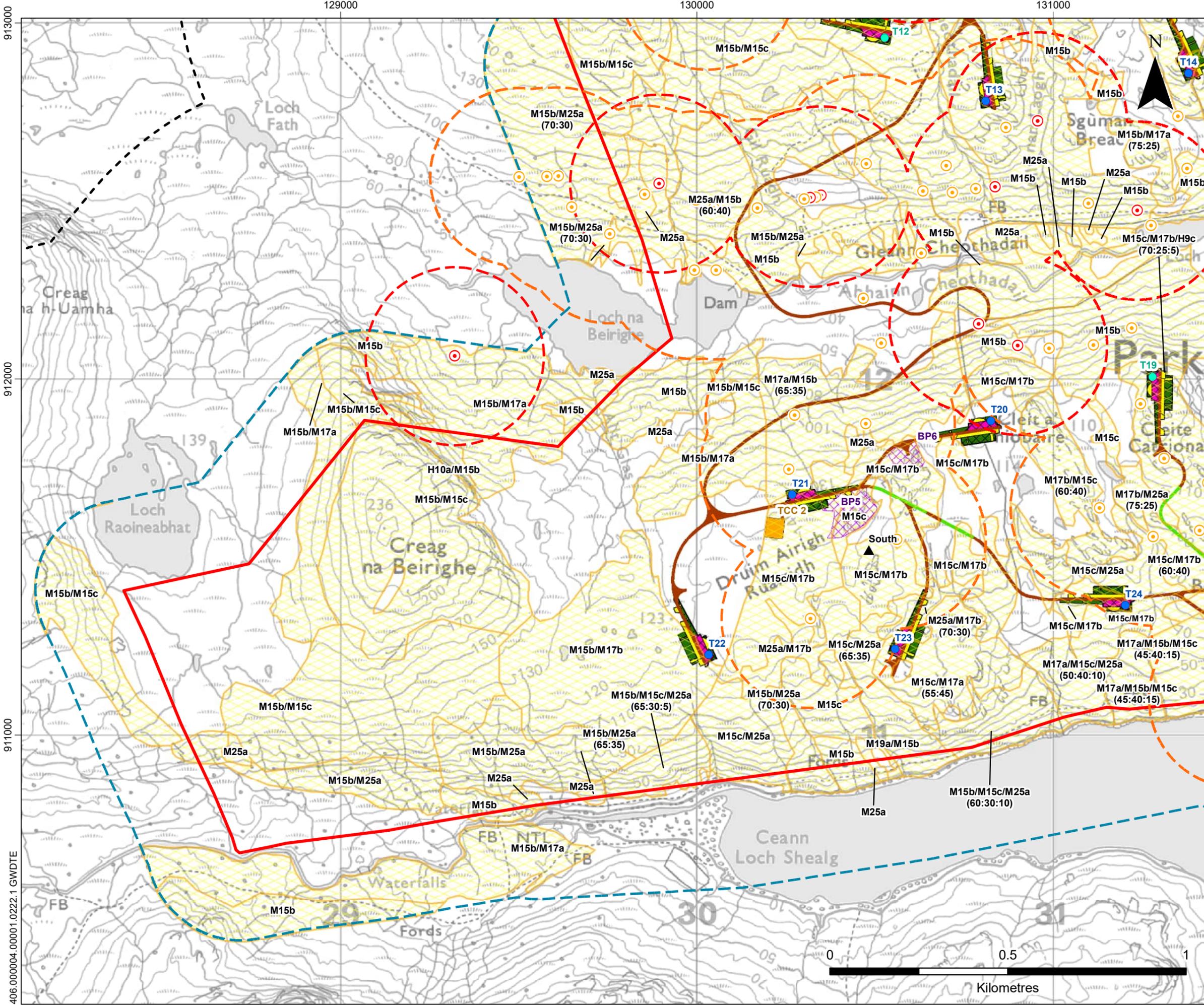
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**UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY**

**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8f

Scale 1:10,000 @ A3 Date JUNE 2024



LEGEND

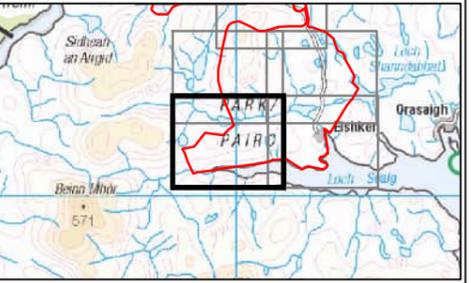
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- Moderate Potential

Target Note

- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWLTE) Potential
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWLTE) Potential
- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWLTE) Potential 250 m Buffer
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWLTE) Potential 250 m Buffer



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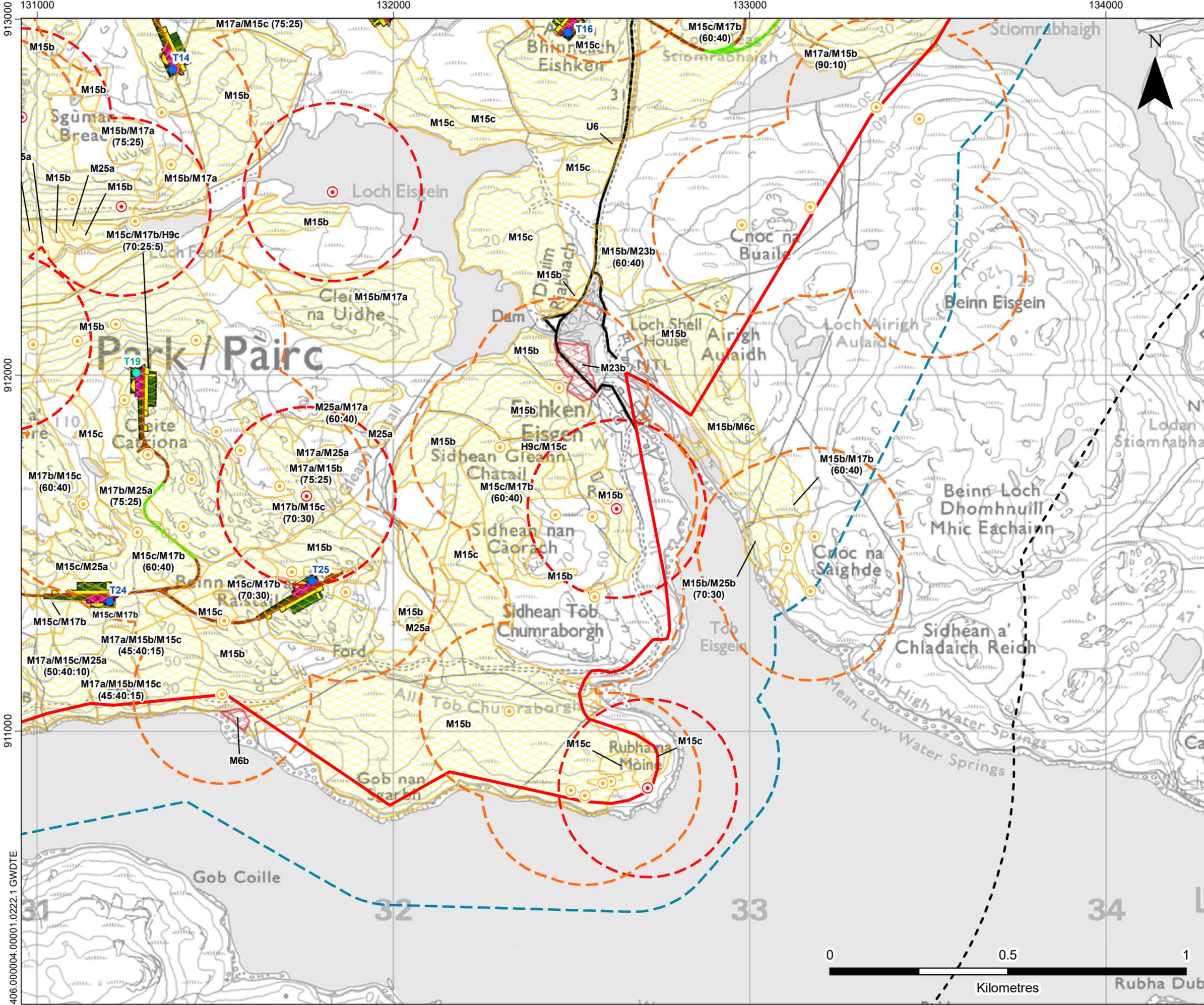
UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY

**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8g

Scale 1:10,000 @ A3 Date JUNE 2024





LEGEND

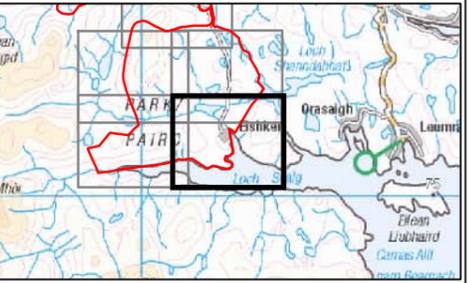
- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)
- Survey Area (250 m Buffer)

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- Moderate Potential

Target Note

- ⊙ Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential
- ⊙ Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential
- Flush - High Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential 250 m Buffer
- Flush - Moderate Groundwater Dependent Terrestrial Ecosystems (GWDE) Potential 250 m Buffer



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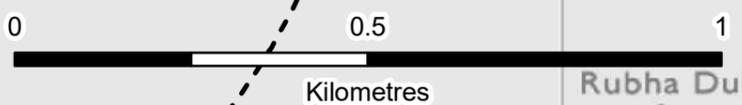
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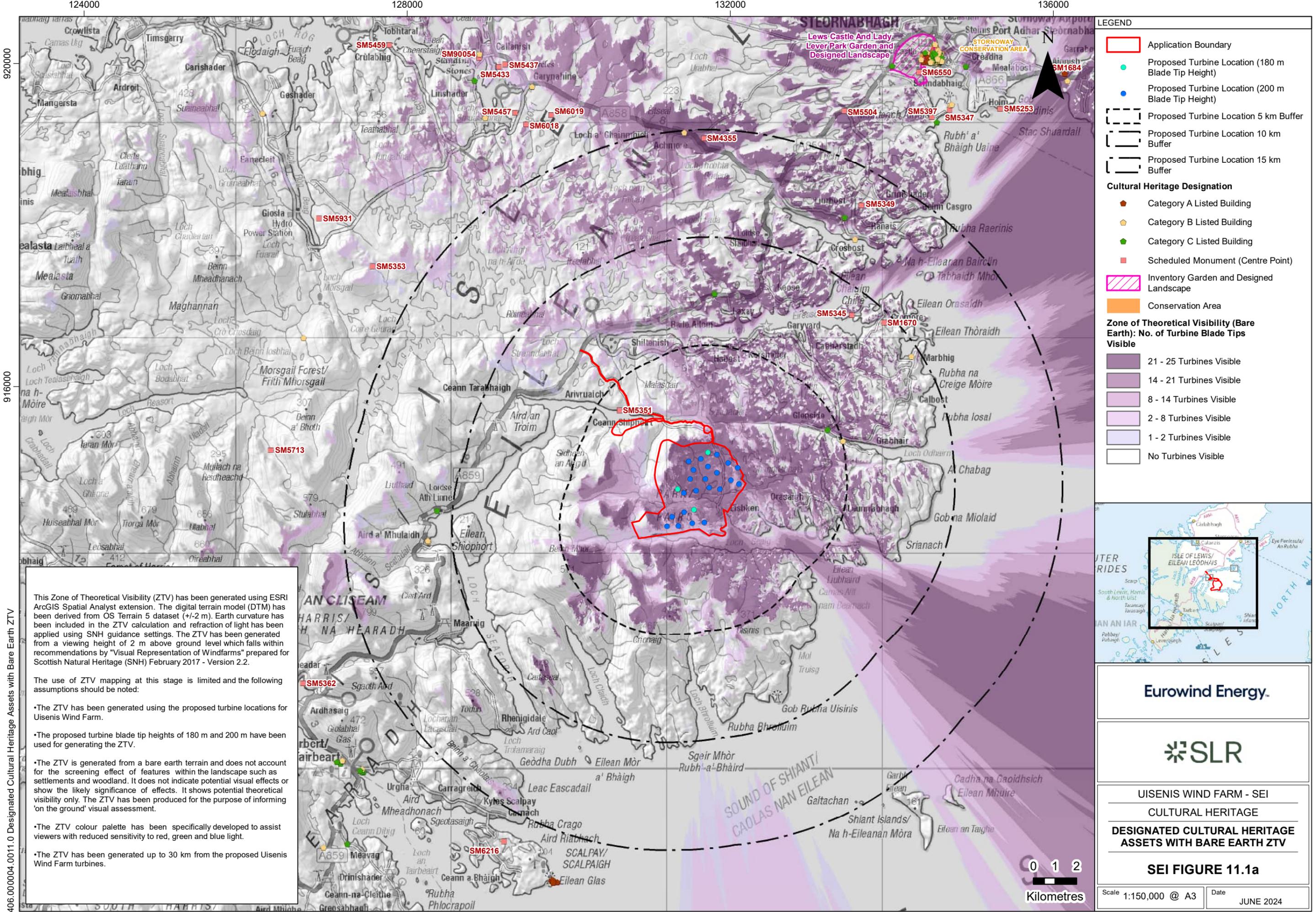
UISENIS WIND FARM - SEI
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY

**GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS**

SEI FIGURE 10.8h

Scale: 1:10,000 @ A3 Date: JUNE 2024





This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/- 2 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed turbine locations for Uisenis Wind Farm.
- The proposed turbine blade tip heights of 180 m and 200 m have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.
- The ZTV has been generated up to 30 km from the proposed Uisenis Wind Farm turbines.

LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Turbine Location 5 km Buffer
- Proposed Turbine Location 10 km Buffer
- Proposed Turbine Location 15 km Buffer

Cultural Heritage Designation

- Category A Listed Building
- Category B Listed Building
- Category C Listed Building
- Scheduled Monument (Centre Point)
- Inventory Garden and Designed Landscape
- Conservation Area

Zone of Theoretical Visibility (Bare Earth): No. of Turbine Blade Tips Visible

- 21 - 25 Turbines Visible
- 14 - 21 Turbines Visible
- 8 - 14 Turbines Visible
- 2 - 8 Turbines Visible
- 1 - 2 Turbines Visible
- No Turbines Visible



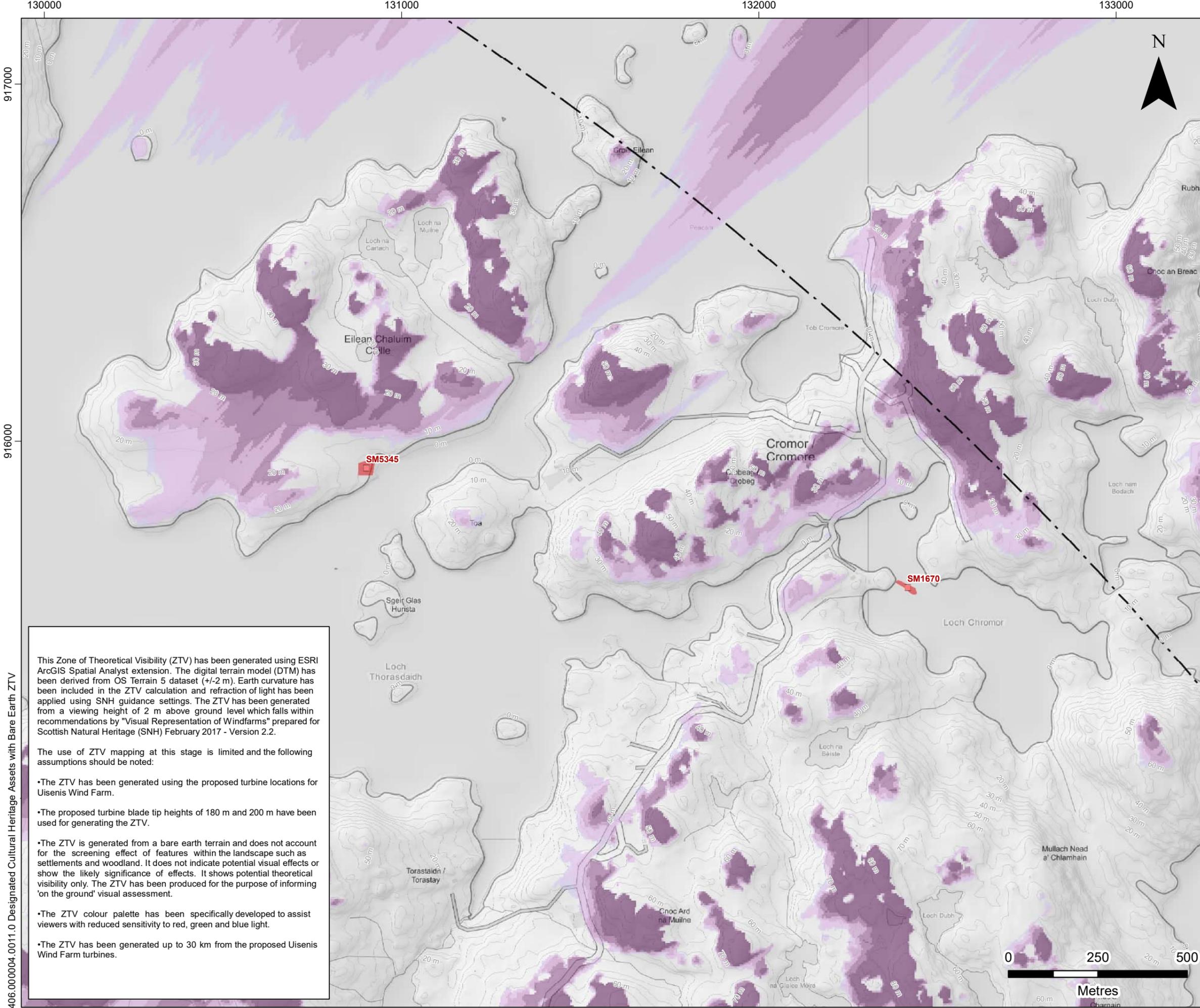
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UISENIS WIND FARM - SEI
CULTURAL HERITAGE
DESIGNATED CULTURAL HERITAGE ASSETS WITH BARE EARTH ZTV

SEI FIGURE 11.1a

Scale 1:150,000 @ A3 Date JUNE 2024



LEGEND

- Application Boundary
- Proposed Turbine Location 10 km Buffer
- Scheduled Monument (Centre Point)
- Scheduled Monument

Zone of Theoretical Visibility (Bare Earth): No. of Turbine Blade Tips Visible

- 21 - 25 Turbines Visible
- 14 - 21 Turbines Visible
- 8 - 14 Turbines Visible
- 2 - 8 Turbines Visible
- 1 - 2 Turbines Visible
- No Turbines Visible

406.000004.0011.0 Designated Cultural Heritage Assets with Bare Earth ZTV

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/-2 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed turbine locations for Uisenis Wind Farm.
- The proposed turbine blade tip heights of 180 m and 200 m have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.
- The ZTV has been generated up to 30 km from the proposed Uisenis Wind Farm turbines.



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UISENIS WIND FARM - SEI

CULTURAL HERITAGE

DESIGNATED CULTURAL HERITAGE ASSETS WITH BARE EARTH ZTV

SEI FIGURE 11.1b

Scale 1:10,000 @ A3 Date JUNE 2024

129000

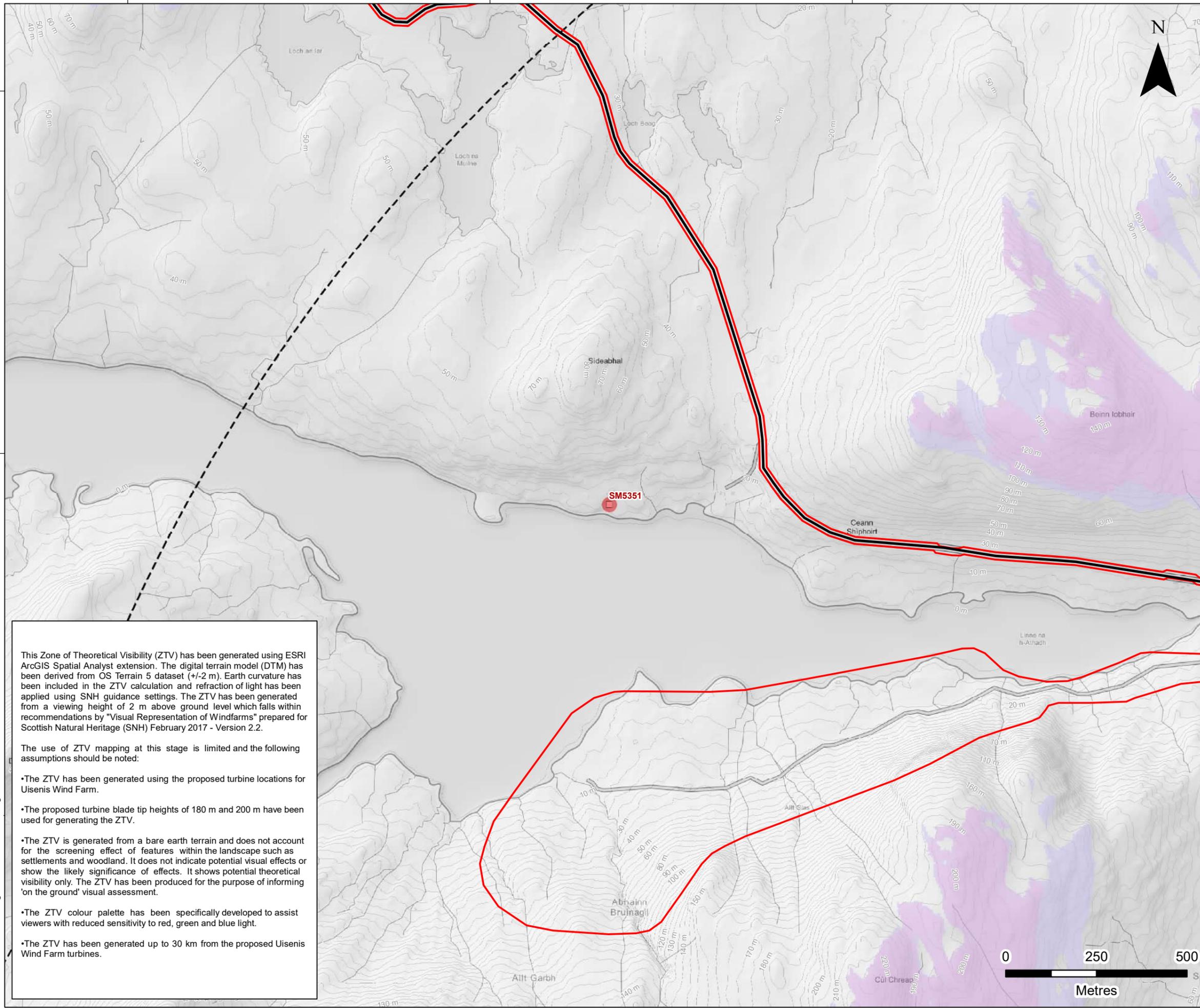
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406.000004.0011.0 Designated Cultural Heritage Assets with Bare Earth ZTV



LEGEND

- Application Boundary
- Proposed Turbine Location 5 km Buffer
- Proposed Turbine Location 10 km Buffer
- Existing Road (To Be Upgraded)
- Scheduled Monument (Centre Point)
- Scheduled Monument

Zone of Theoretical Visibility (Bare Earth): No. of Turbine Blade Tips Visible

- 2 - 8 Turbines
- 1 - 2 Turbines
- No Turbines

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/-2 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed turbine locations for Uisenis Wind Farm.
- The proposed turbine blade tip heights of 180 m and 200 m have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.
- The ZTV has been generated up to 30 km from the proposed Uisenis Wind Farm turbines.



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**UISENIS WIND FARM - SEI
CULTURAL HERITAGE
DESIGNATED CULTURAL HERITAGE
ASSETS WITH BARE EARTH ZTV**

SEI FIGURE 11.1c



Scale 1:10,000 @ A3 Date JUNE 2024

132000

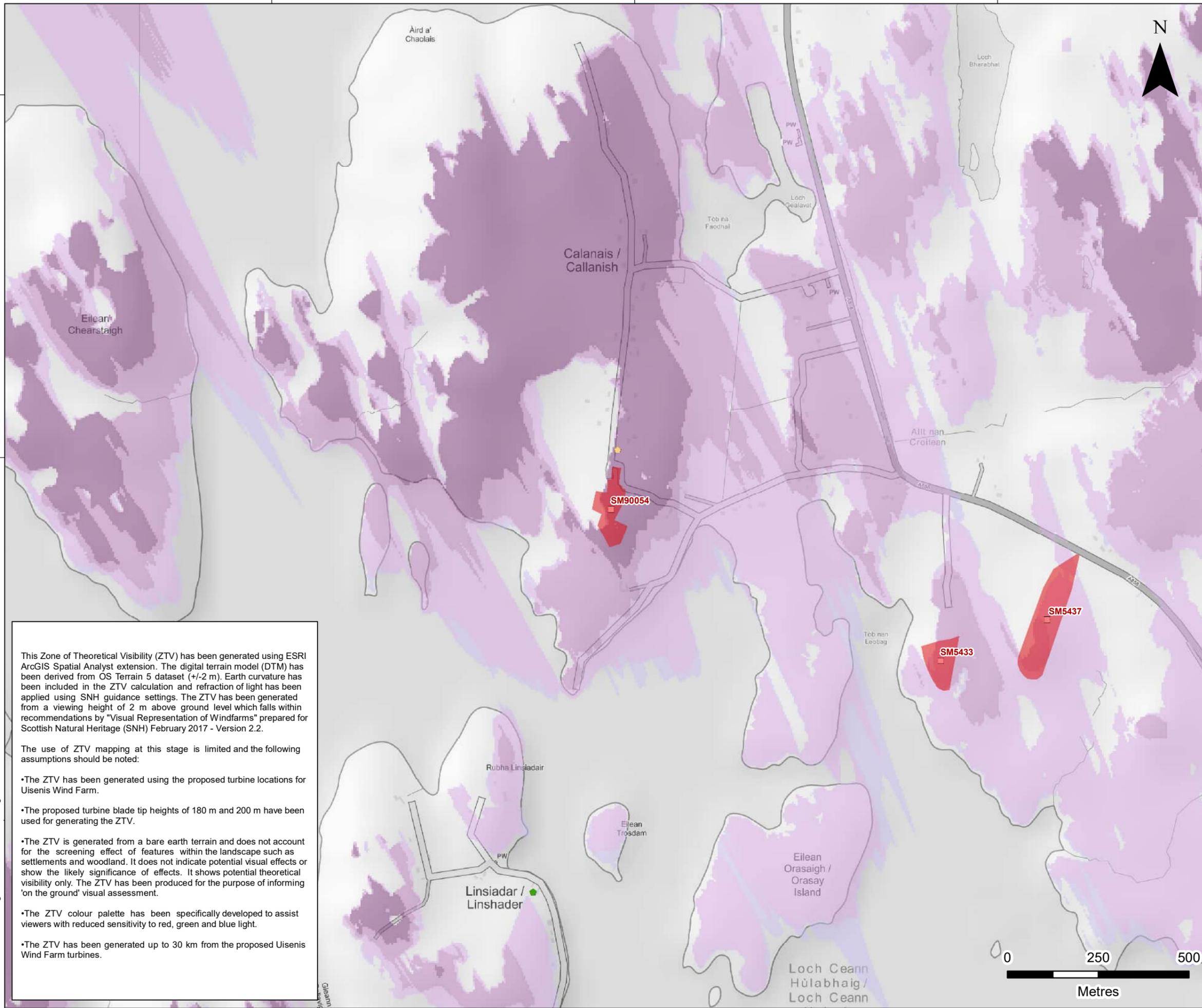
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406.000004.0011.0 Designated Cultural Heritage Assets with Bare Earth ZTV



LEGEND

- Application Boundary
- Cultural Heritage Designation**
- ◆ Category B Listed Building
- ◆ Category C Listed Building
- Scheduled Monument (Centre Point)
- Scheduled Monument
- Zone of Theoretical Visibility (Bare Earth): No. of Turbine Blade Tips Visible**
- 14 - 21 Turbines Visible
- 8 - 14 Turbines Visible
- 2 - 8 Turbines Visible
- 1 - 2 Turbines Visible
- No Turbines Visible

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (+/-2 m). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2 m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed turbine locations for Uisenis Wind Farm.
- The proposed turbine blade tip heights of 180 m and 200 m have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.
- The ZTV has been generated up to 30 km from the proposed Uisenis Wind Farm turbines.



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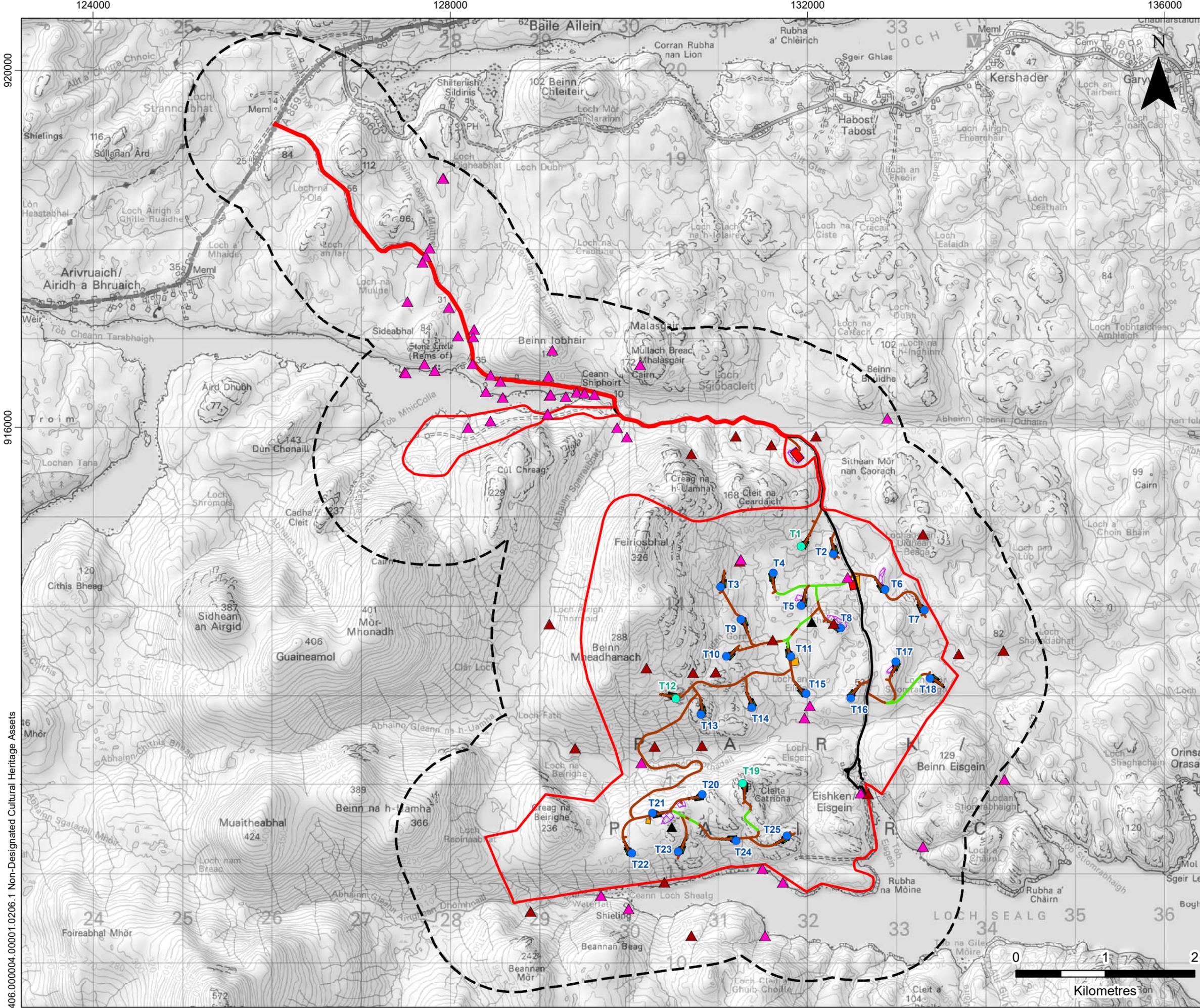
SLR

UISENIS WIND FARM - SEI
CULTURAL HERITAGE
**DESIGNATED CULTURAL HERITAGE
ASSETS WITH BARE EARTH ZTV**

SEI FIGURE 11.1d

Scale 1:10,000 @ A3 Date JUNE 2024



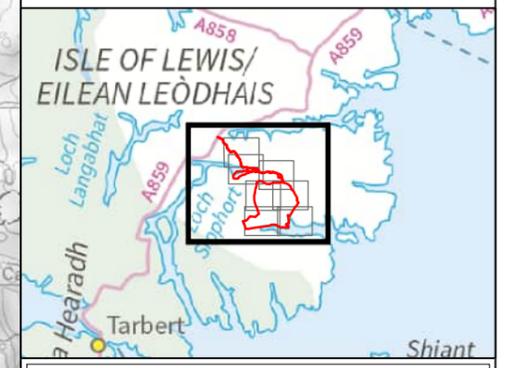


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Non-Designated Cultural Heritage Asset

- ▲ Post-Medieval
- ▲ Unknown



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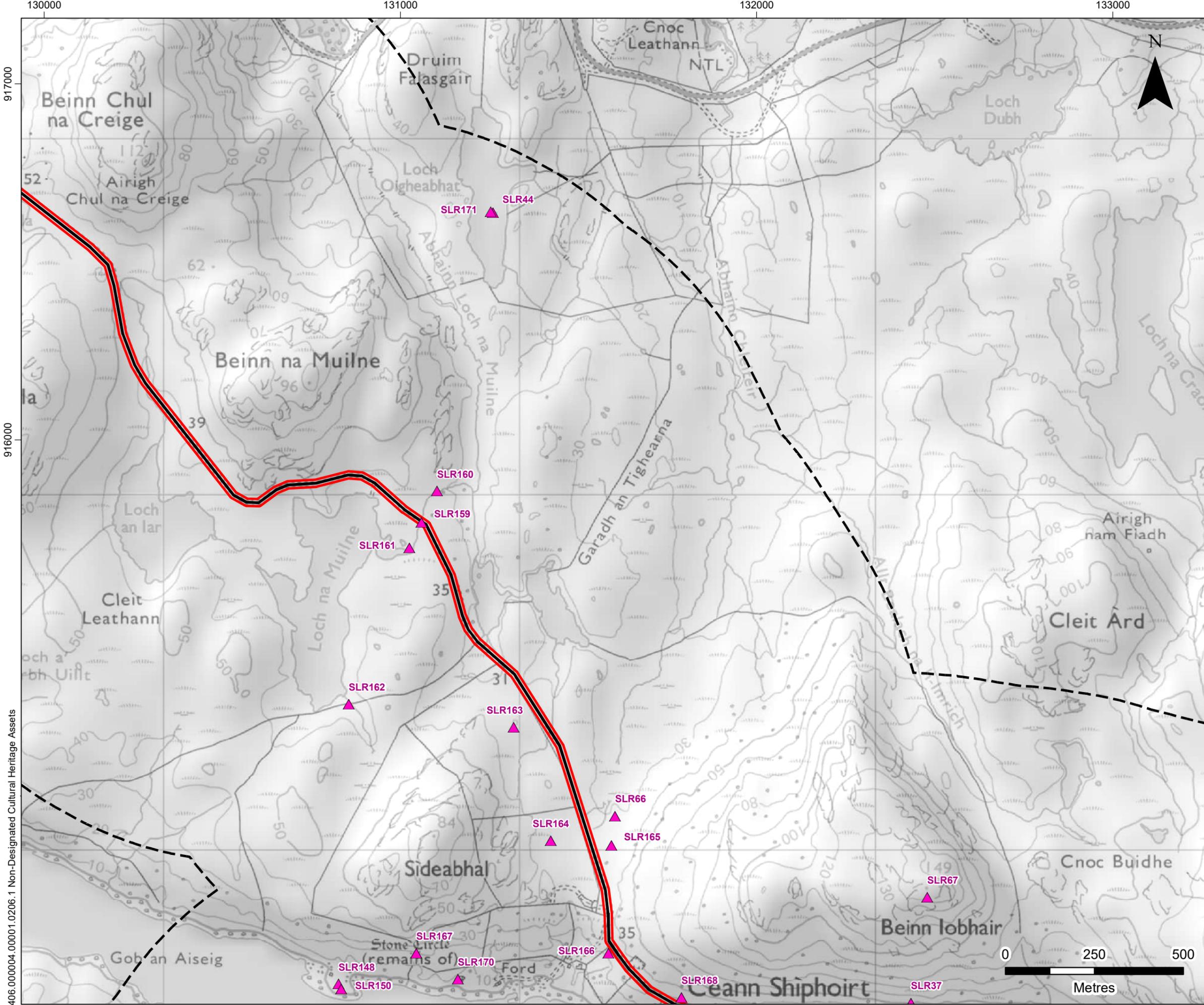
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UISENIS WIND FARM - SEI
CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

SEI FIGURE 11.2a

Scale: 1:40,000 @ A3 Date: JUNE 2024

406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets

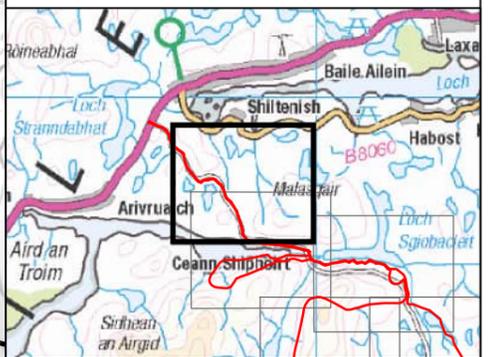


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Existing Road (To Be Upgraded)

Non-Designated Cultural Heritage Asset

- ▲ Unknown



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UISENIS WIND FARM - SEI
CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

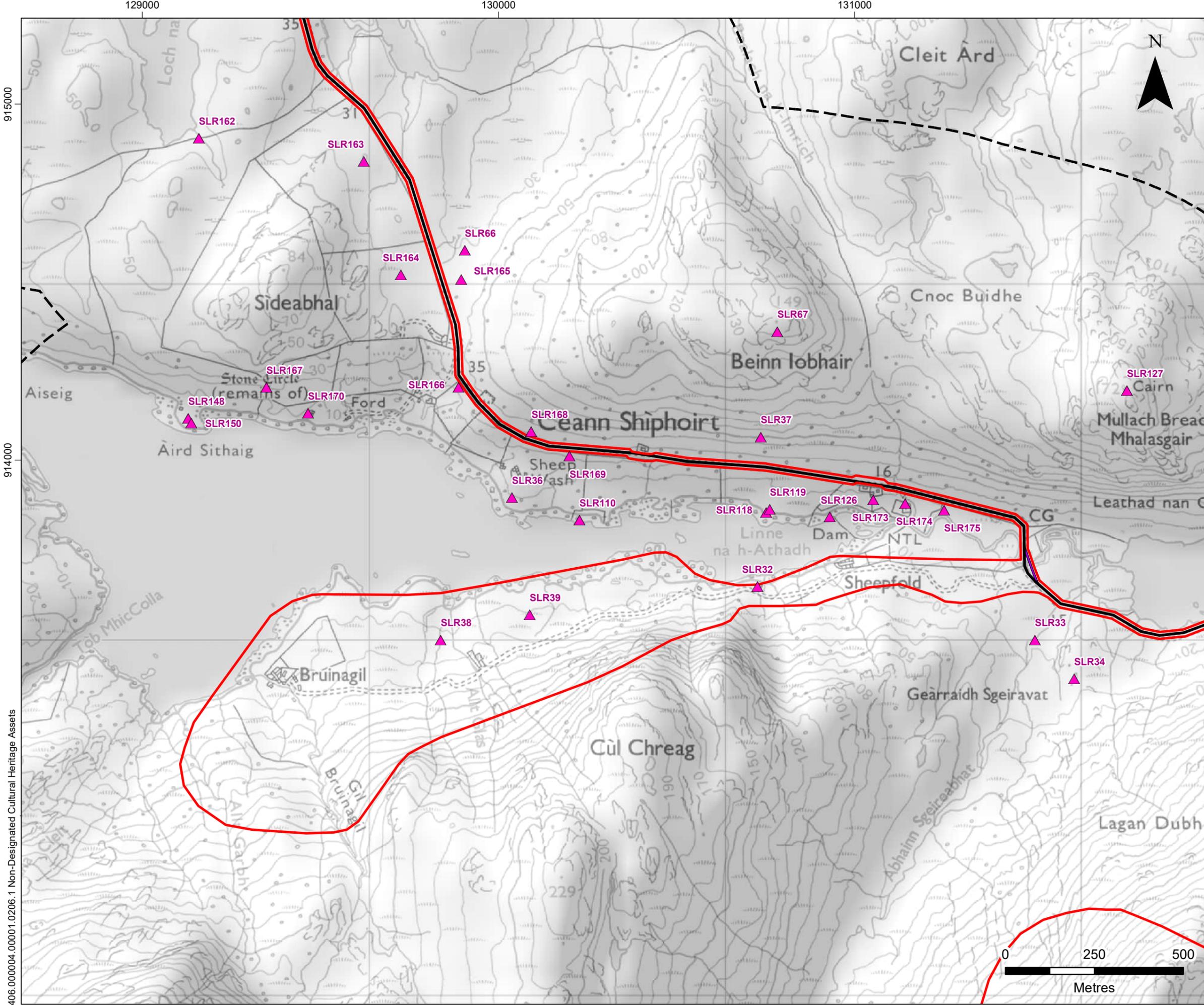
SEI FIGURE 11.2b

Scale 1:10,000 @ A3 Date JUNE 2024

406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets

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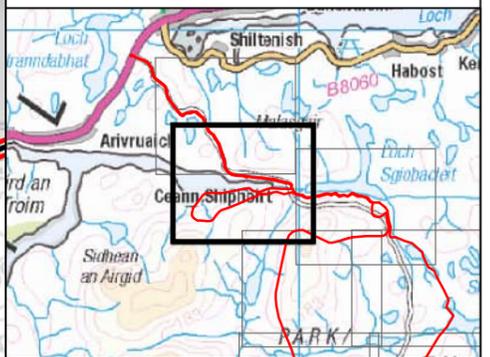


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Temporary Bridge Alignment
- Existing Road (To Be Upgraded)

Non-Designated Cultural Heritage Asset

- ▲ Unknown



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UISENIS WIND FARM - SEI
CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

SEI FIGURE 11.2c

Scale 1:10,000 @ A3	Date JUNE 2024
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406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets

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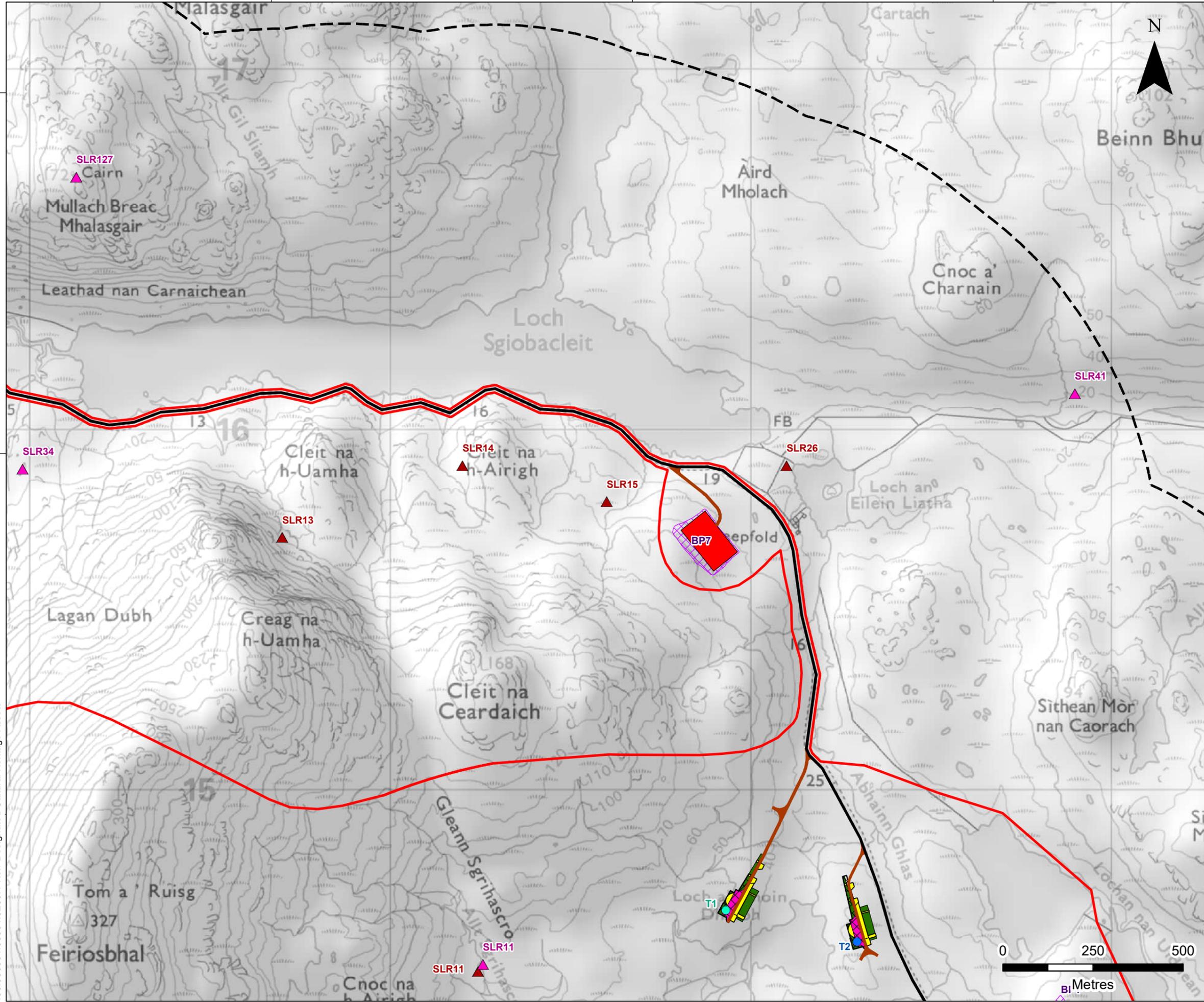
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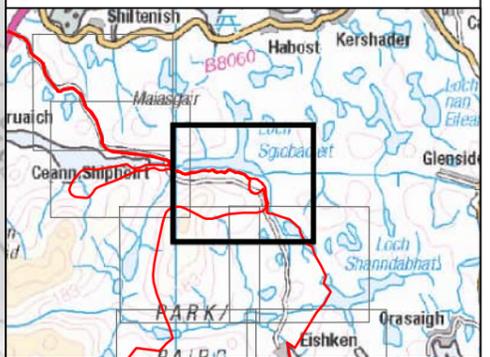
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406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets



- LEGEND**
- Application Boundary
 - Application Boundary 1 km Buffer
 - Proposed Turbine Location (180 m Blade Tip Height)
 - Proposed Turbine Location (200 m Blade Tip Height)
 - Proposed Bespoke Hardstanding Envelope
 - Proposed Permanent Substation
 - Proposed Permanent Hardstanding
 - Proposed Temporary Hardstanding
 - Proposed Clearance Area
 - Proposed Access Track / Turning Head
 - Existing Road (To Be Upgraded)
- Non-Designated Cultural Heritage Asset**
- ▲ Post-Medieval
 - ▲ Unknown



Eurowind Energy



UISENIS WIND FARM - SEI
 CULTURAL HERITAGE
 NON-DESIGNATED CULTURAL HERITAGE ASSETS

SEI FIGURE 11.2d



Scale 1:10,000 @ A3 Date JUNE 2024

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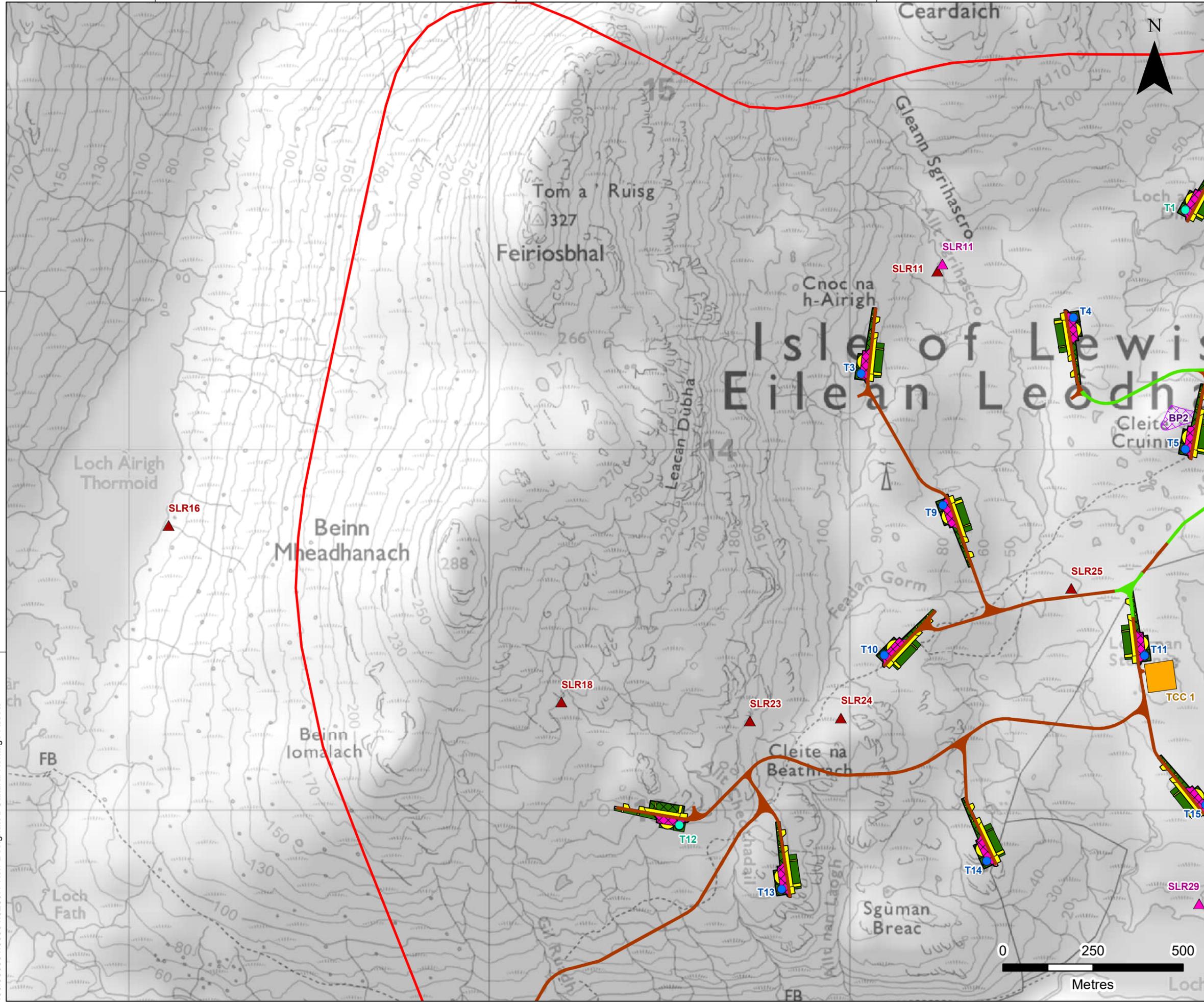
130000

131000

912000

911000

406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets



LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

Non-Designated Cultural Heritage Asset

- ▲ Post-Medieval
- ▲ Unknown

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UISENIS WIND FARM - SEI

CULTURAL HERITAGE

NON-DESIGNATED CULTURAL HERITAGE ASSETS

SEI FIGURE 11.2e

Scale 1:10,000 @ A3
Date JUNE 2024

0 250 500

Metres

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132000

133000

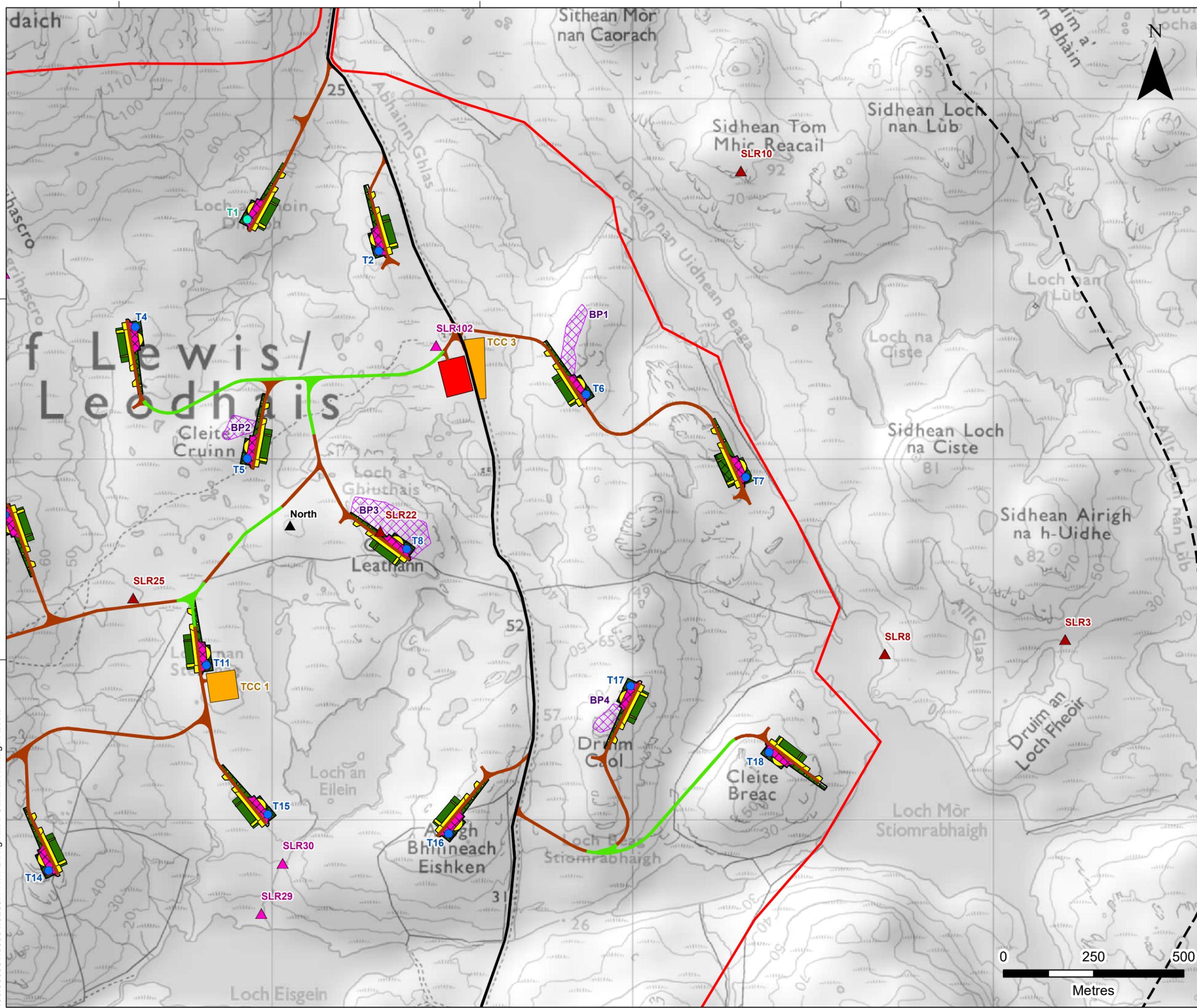
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406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets

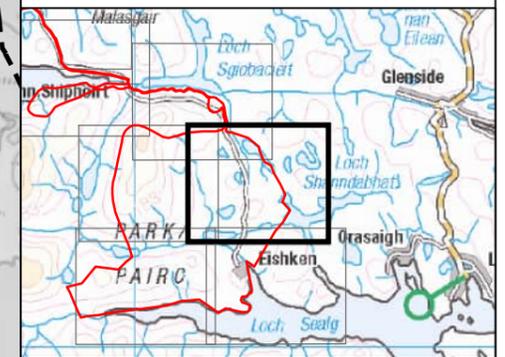


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Non-Designated Cultural Heritage Asset

- ▲ Post-Medieval
- ▲ Unknown



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UISENIS WIND FARM - SEI
CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

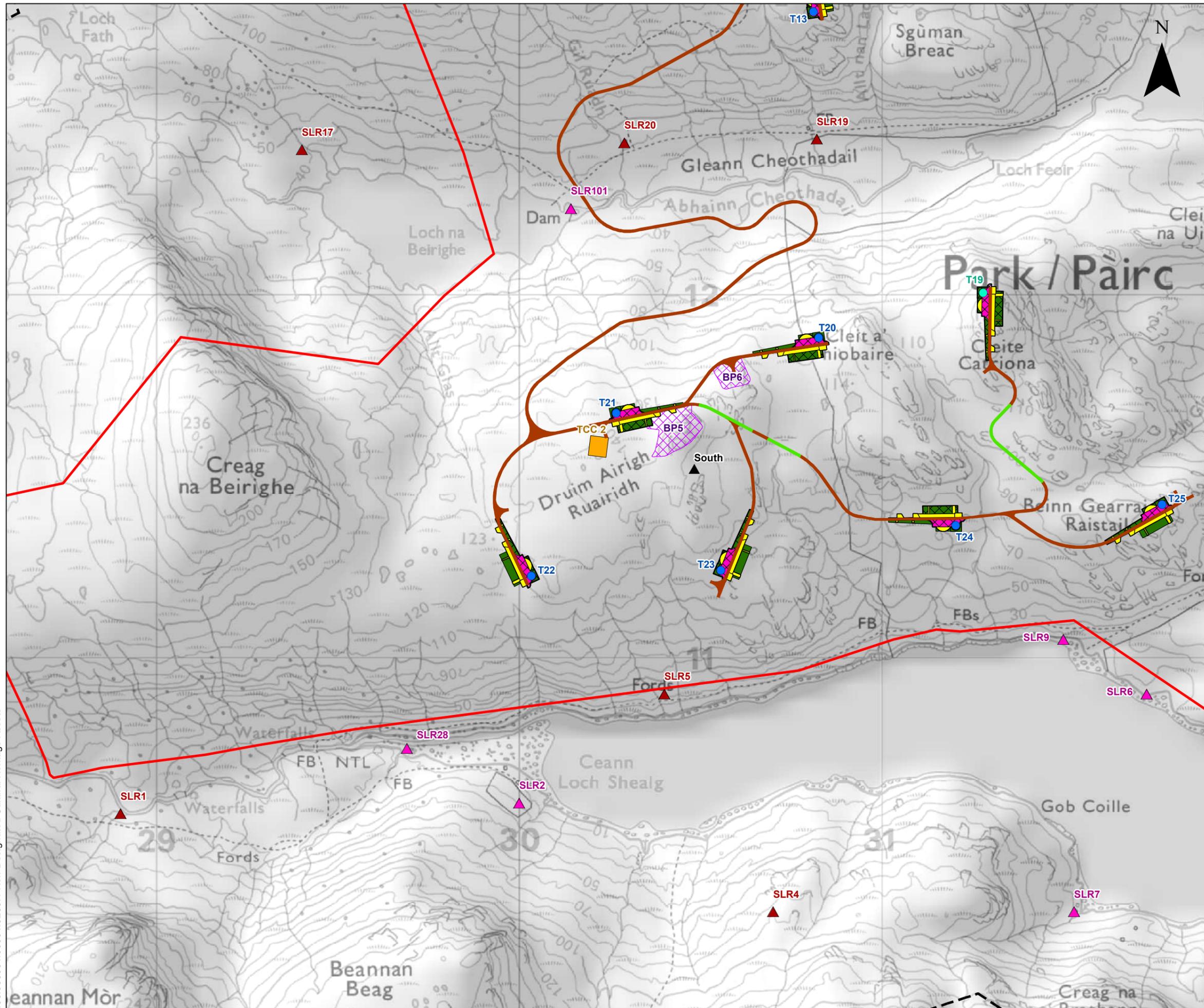
SEI FIGURE 11.2f

Scale 1:10,000 @ A3 Date JUNE 2024



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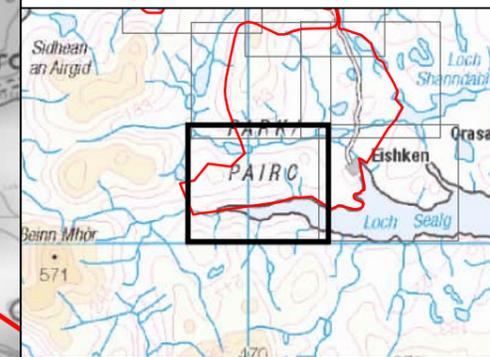


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Proposed Floating Access Track

Non-Designated Cultural Heritage Asset

- ▲ Post-Medieval
- ▲ Unknown



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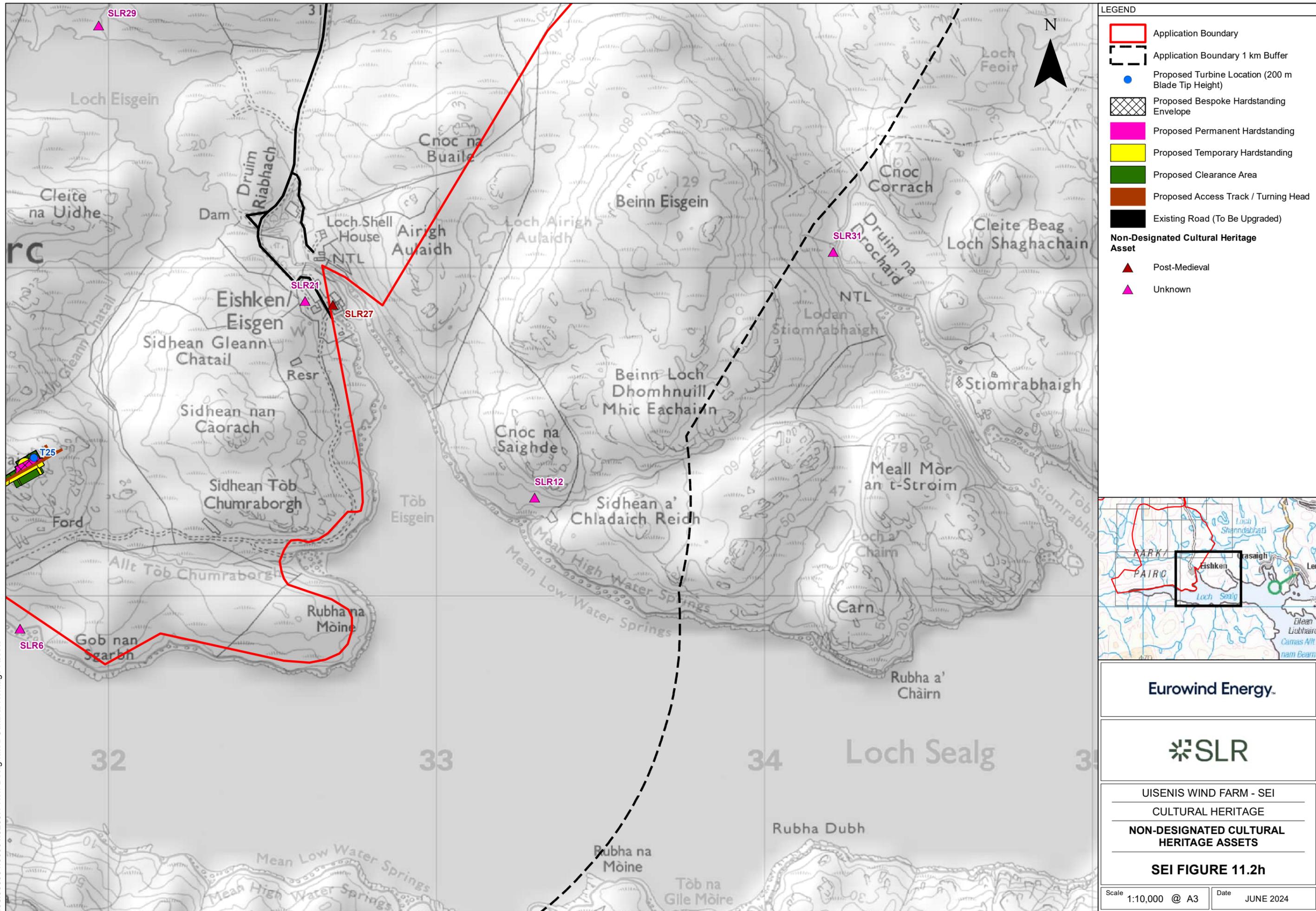
SLR

UISENIS WIND FARM - SEI
CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

SEI FIGURE 11.2g

Scale 1:10,000 @ A3 Date JUNE 2024

406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets

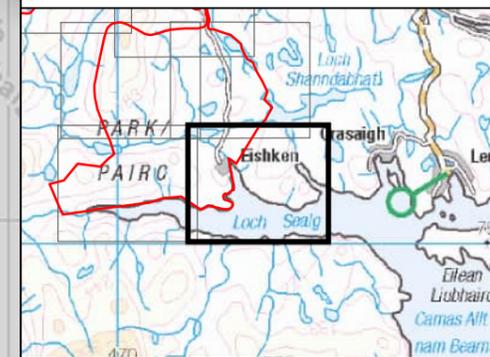


LEGEND

- Application Boundary
- Application Boundary 1 km Buffer
- Proposed Turbine Location (200 m Blade Tip Height)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
- Proposed Access Track / Turning Head
- Existing Road (To Be Upgraded)

Non-Designated Cultural Heritage Asset

- ▲ Post-Medieval
- ▲ Unknown



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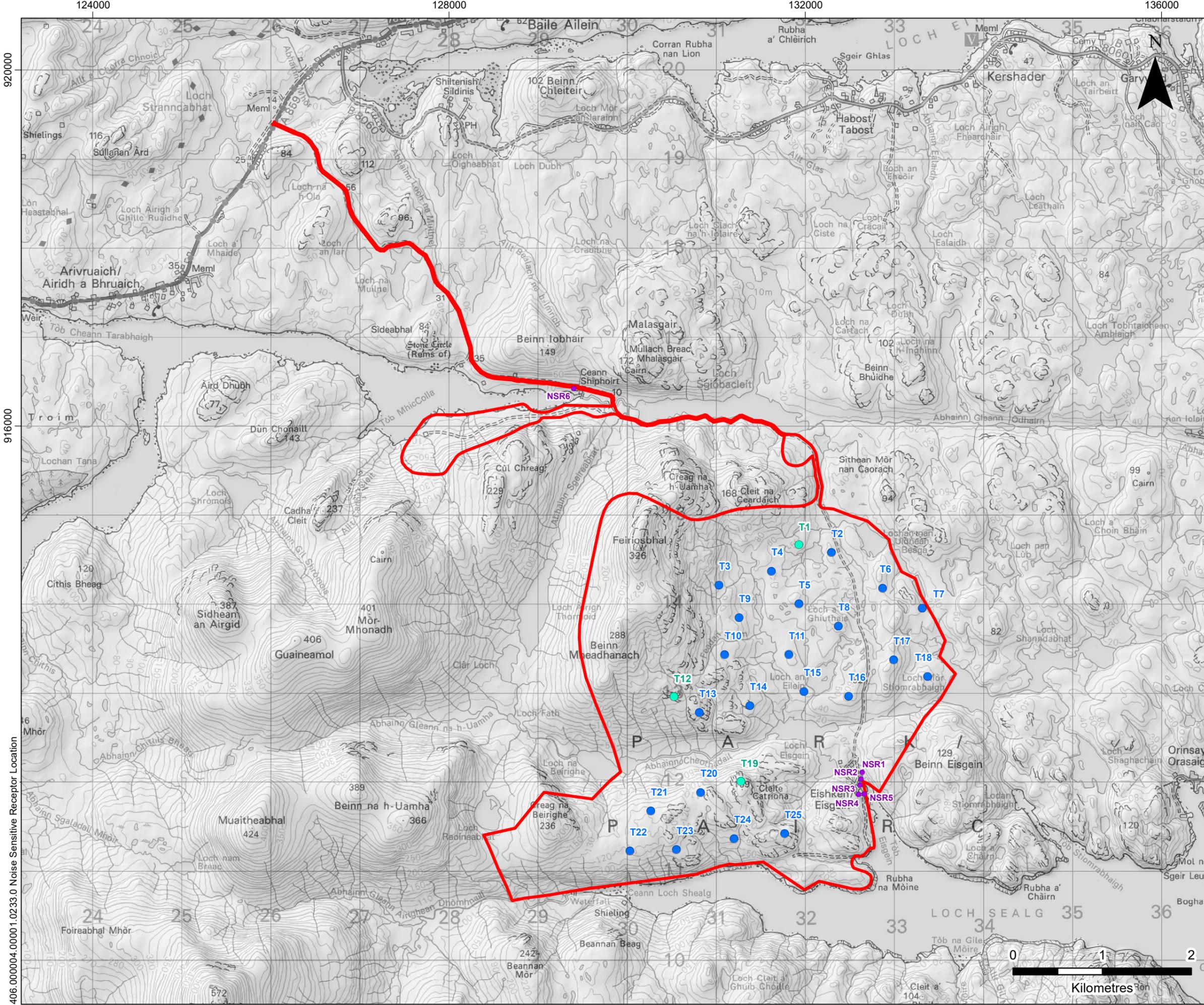
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UISENIS WIND FARM - SEI
CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

SEI FIGURE 11.2h

Scale 1:10,000 @ A3 Date JUNE 2024

406.000004.00001.0206.1 Non-Designated Cultural Heritage Assets



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Noise Sensitive Receptor (NSR)

- Noise Sensitive Receptor (NSR)**
- NSR1 - Loch Shell House
 - NSR2 - The Cottage
 - NSR3 - Burnside Cottage
 - NSR4 - Eishken Lodge
 - NSR5 - Glenburn Cottage
 - NSR6 - Keepers Cottage



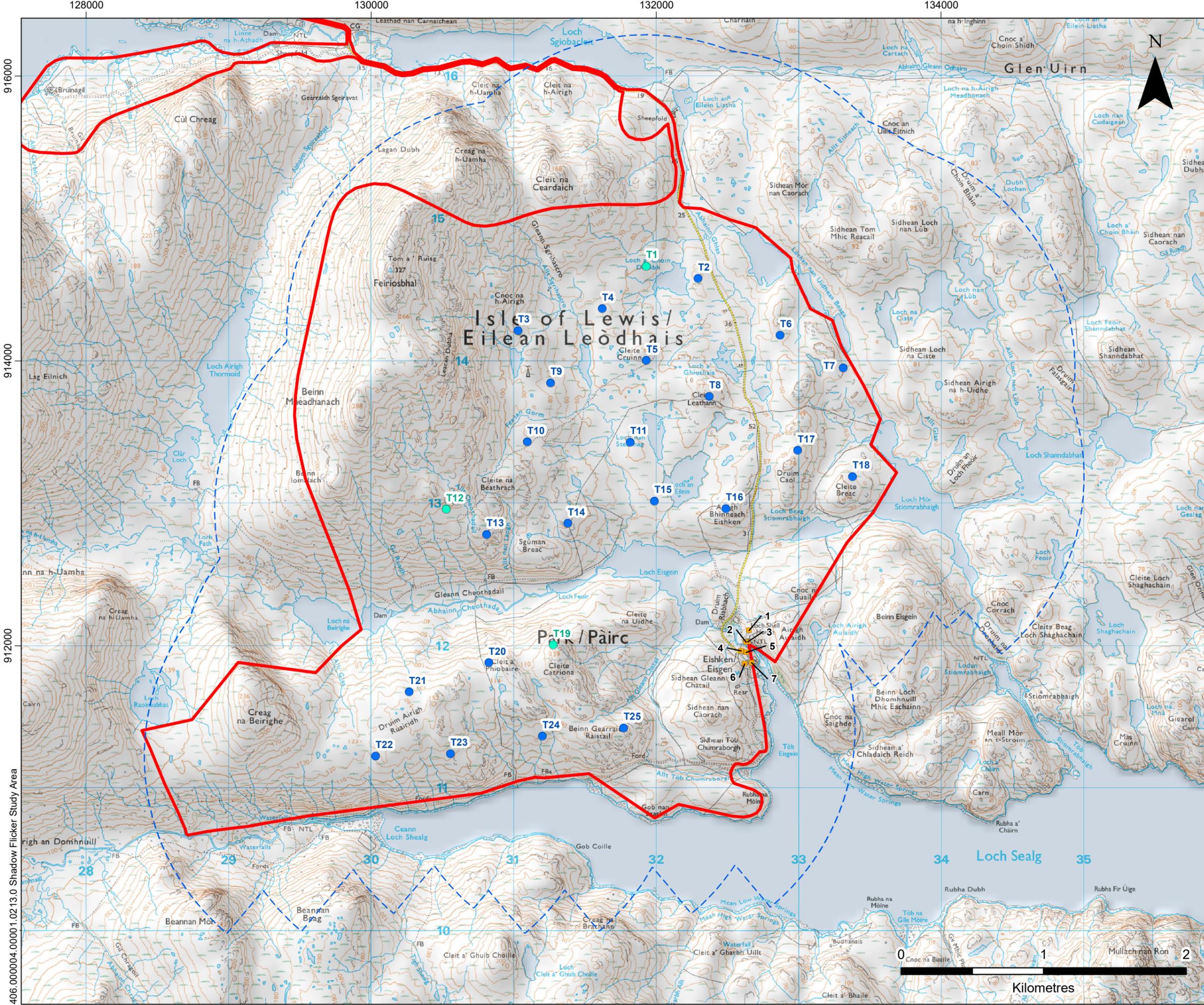
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UISENIS WIND FARM - SEI
NOISE
NOISE SENSITIVE RECEPTOR LOCATIONS

SEI FIGURE 13.1

Scale 1:40,000 @ A3 Date MAY 2024



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Shadow Flicker Study Area
- Residential Receptor



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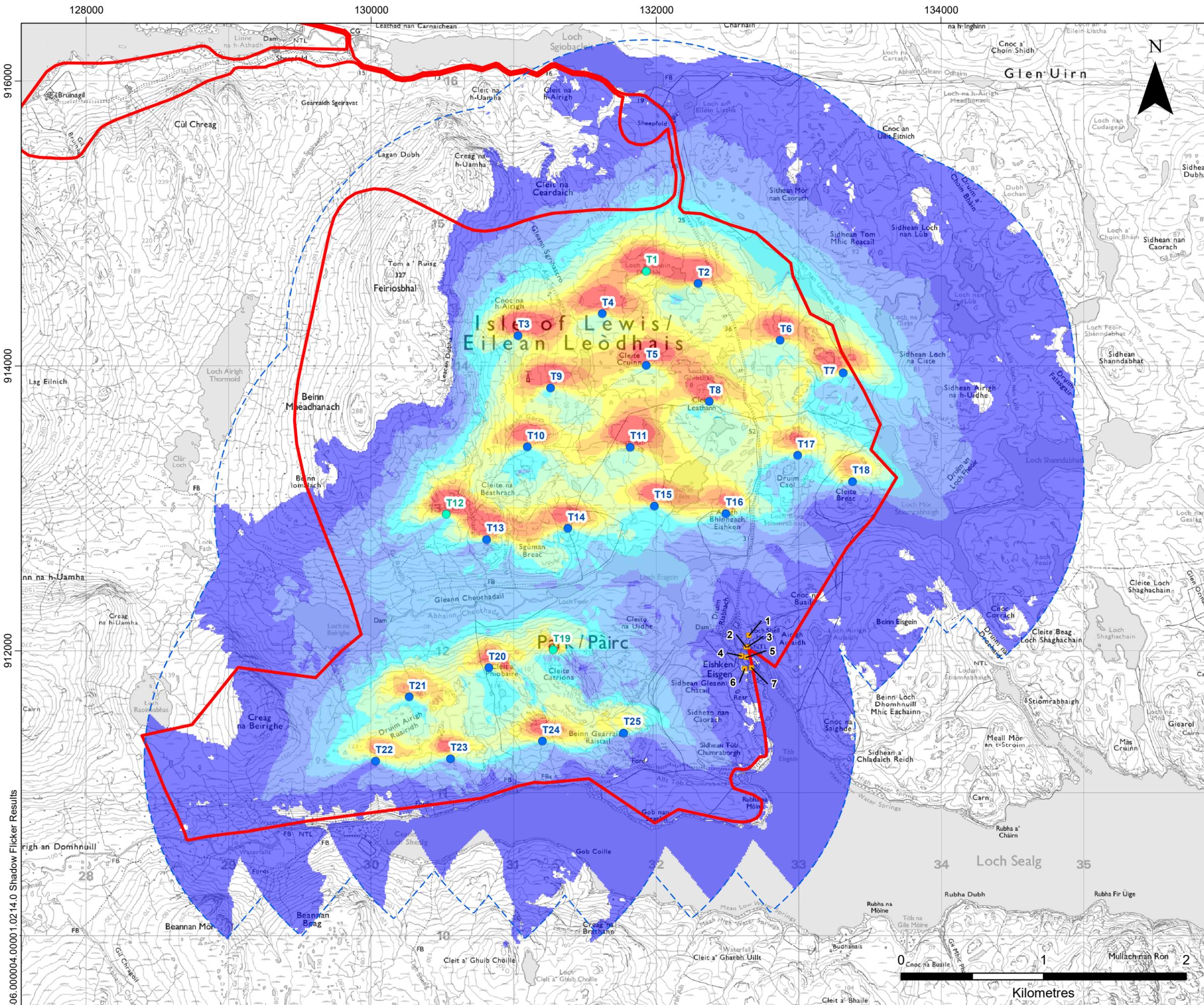
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UISENIS WIND FARM - SEI
OTHER ISSUES
SHADOW FLICKER STUDY AREA

SEI FIGURE 16.1

Scale: 1:25,000 @ A3 Date: MAY 2024

406.00004.00001.02.13.0 Shadow Flicker Study Area



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Shadow Flicker Study Area
- Residential Receptor

Zone of Potential Shadow Flicker Influence (hours per year)

	0 - 100
	100 - 200
	200 - 300
	300 - 400
	400 - 500
	500 - 600
	600 - 700
	700 - 800
	800 - 900
	900 - 1,000



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UISENIS WIND FARM - SEI
OTHER ISSUES
SHADOW FLICKER RESULTS

SEI FIGURE 16.2

Scale 1:25,000 @ A3	Date MAY 2024
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