



Uisenis Wind Farm

Volume 3d

Figures to support Chapters 8-17 of the EIA Report

August 2023

VOLUME 3D – EIA REPORT FIGURES (CH8-17)

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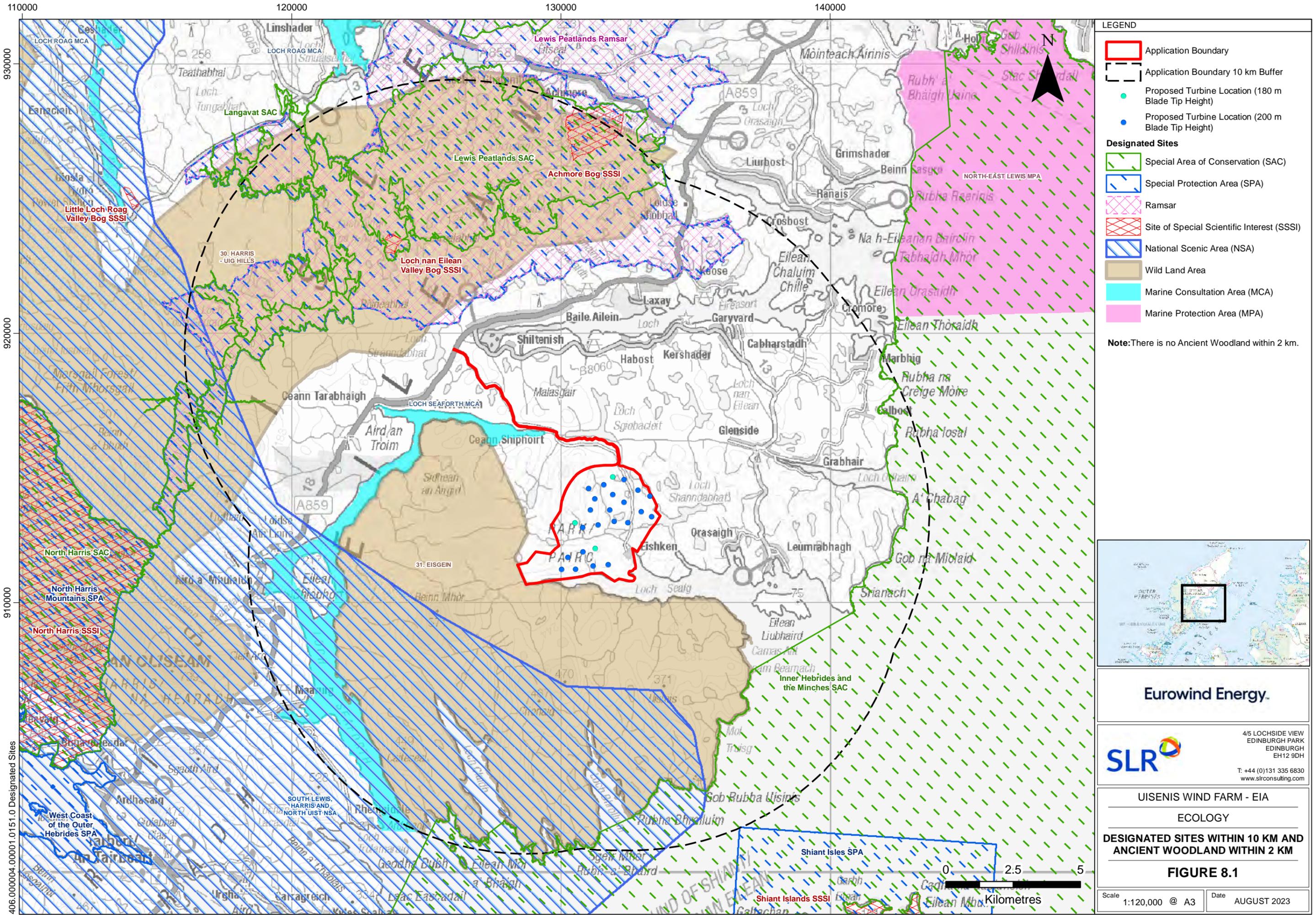
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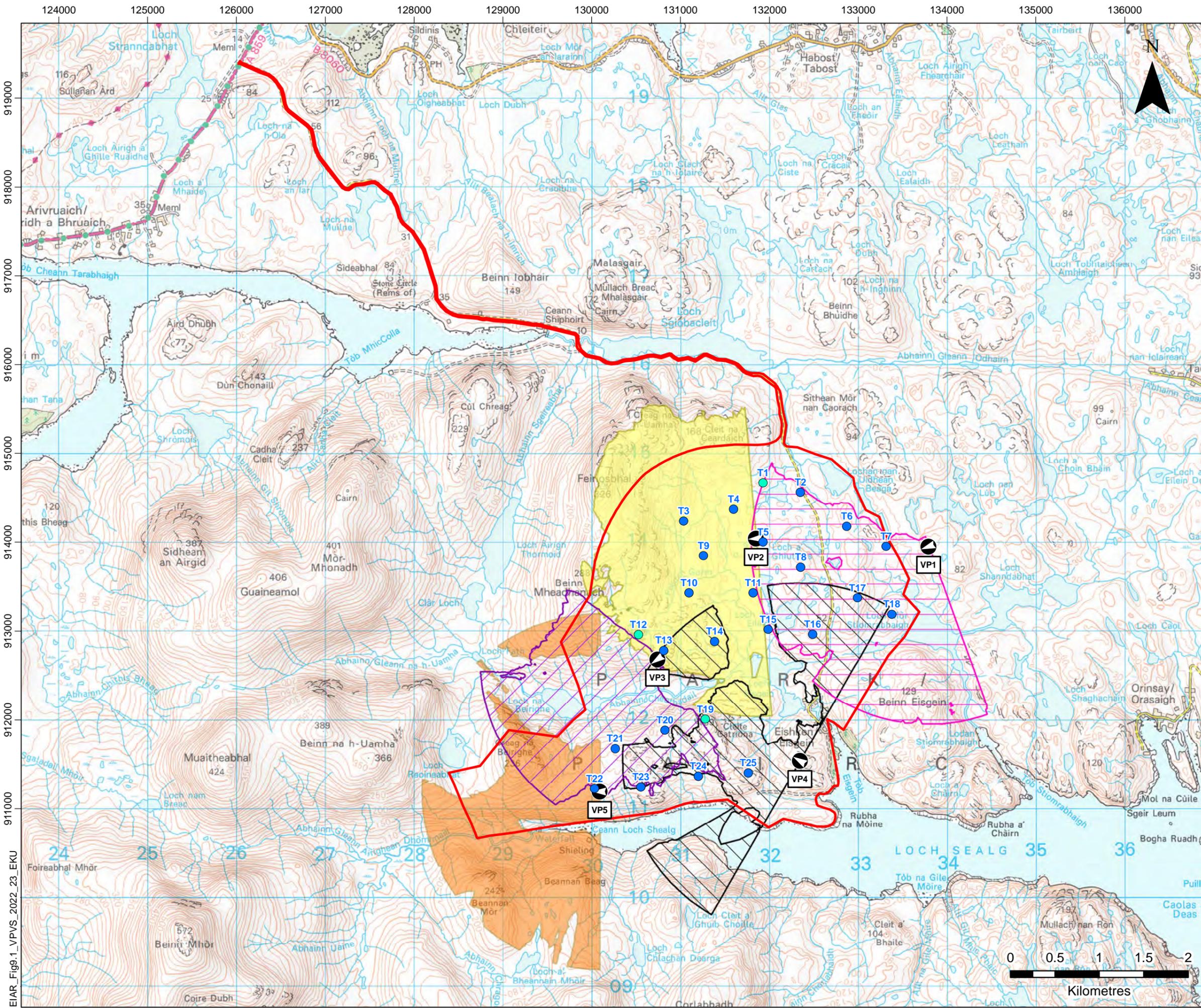
UISENIS WIND FARM - EIA

ECOLOGY

DESIGNATED SITES WITHIN 10 KM AND ANCIENT WOODLAND WITHIN 2 KM

FIGURE 8.1

Scale 1:120,000 @ A3 Date AUGUST 2023



LEGEND

- Proposed Turbine Location (180m Blade Tip Height)
- Proposed Turbine Location (200m Blade Tip Height)
- Application Boundary
- Vantage Points and Viewsheds**
- Vantage Point (VP)
- Visible Area From VP1
- Visible Area From VP2
- Visible Area From VP3
- Visible Area From VP4
- Visible Area From VP5

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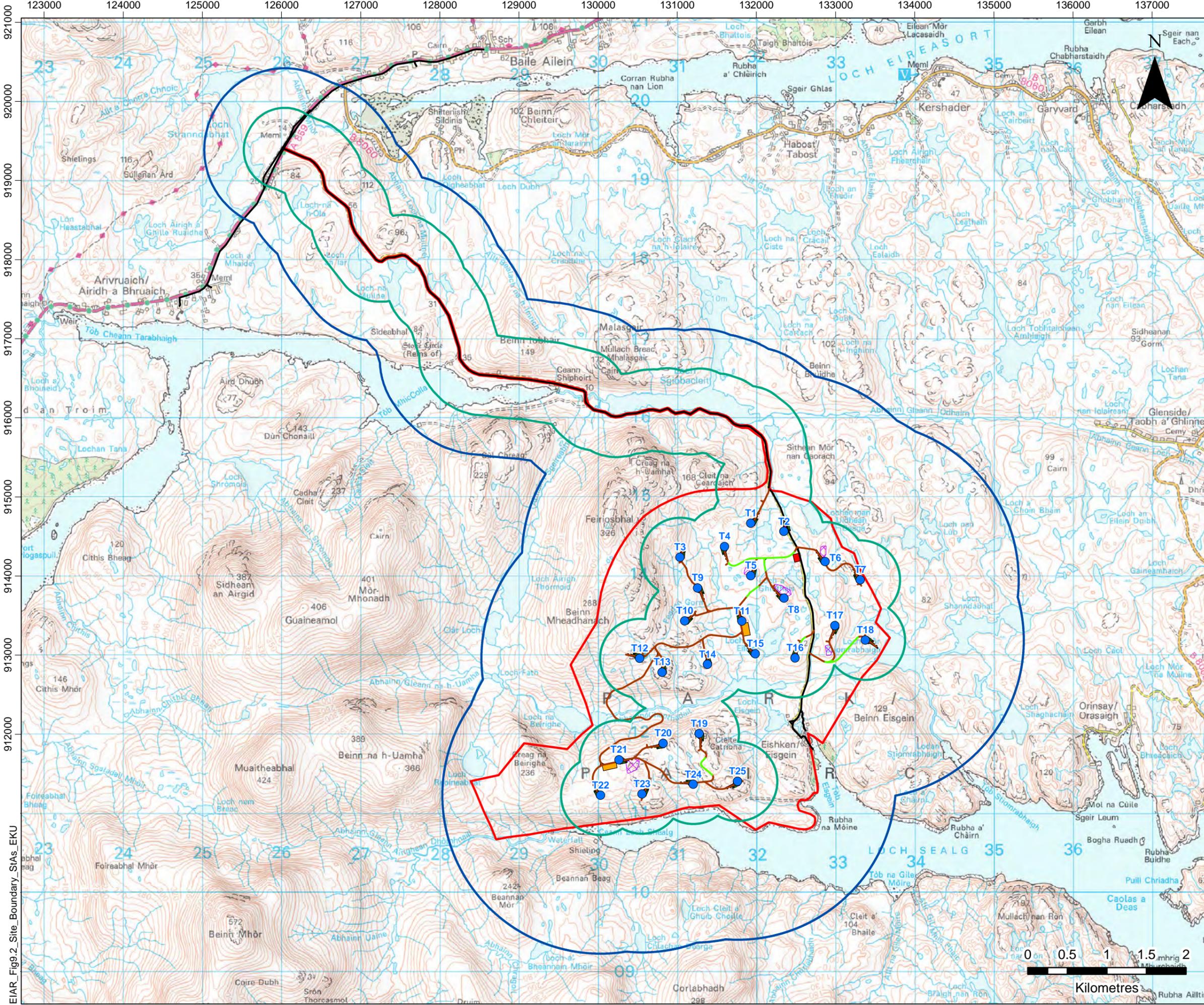
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VANTAGE POINTS AND
VIEWSHEDS 2022-23**

FIGURE 9.1
Scale 1:40,000 @ A3 Date AUGUST 2023

EIAR_Fig.1_VPVS_2022_23_EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- 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
- Breeding Bird Study Area
- Scarce Breeding Bird Study Area

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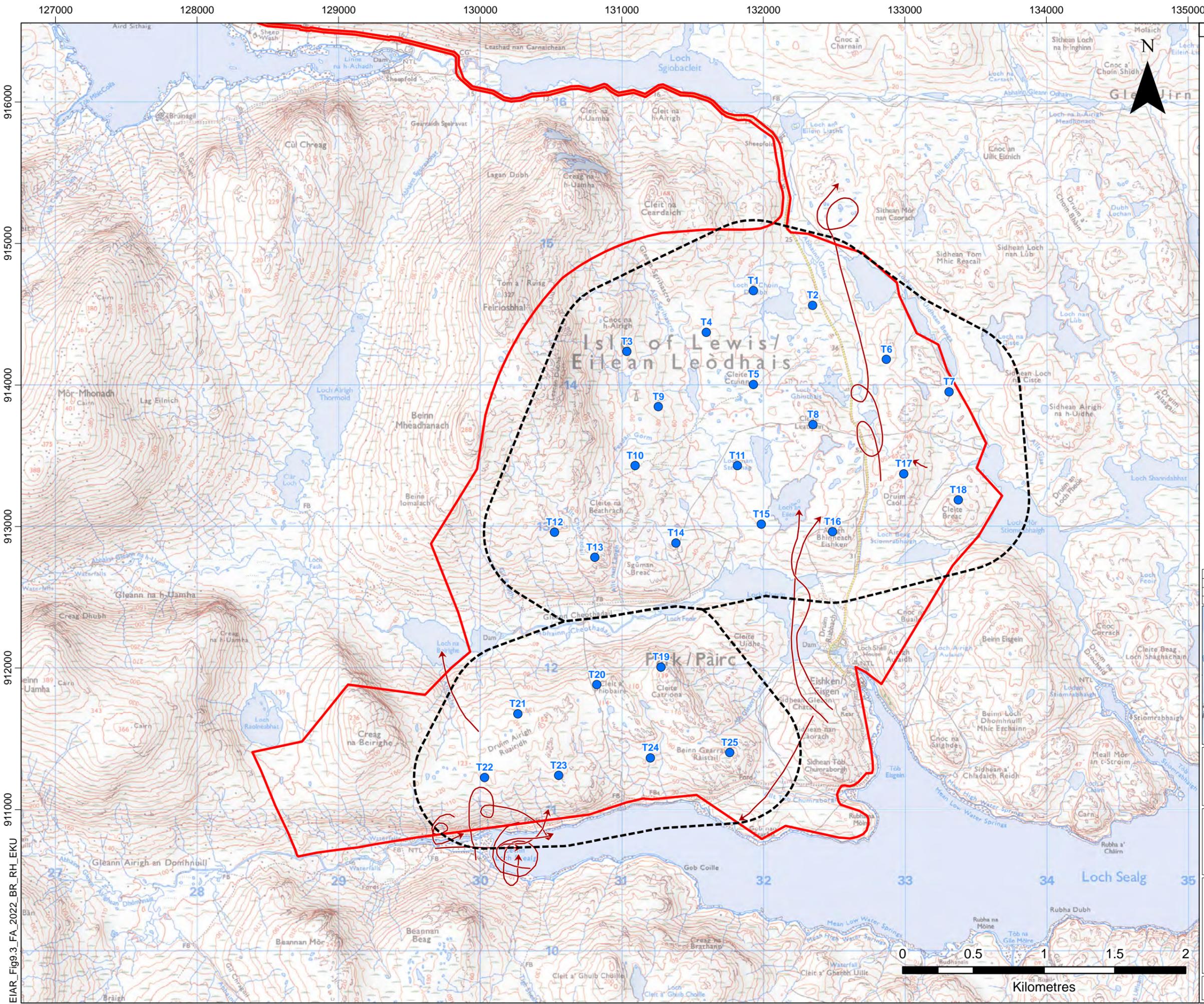
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SITE BOUNDARY AND STUDY AREAS

FIGURE 9.2

Scale: 1:45,000 @ A3 Date: AUGUST 2023

EIA/ Fig.9.2 Site Boundary StAs EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2022 Breeding Season Flight Activity**
- Red-throated Diver

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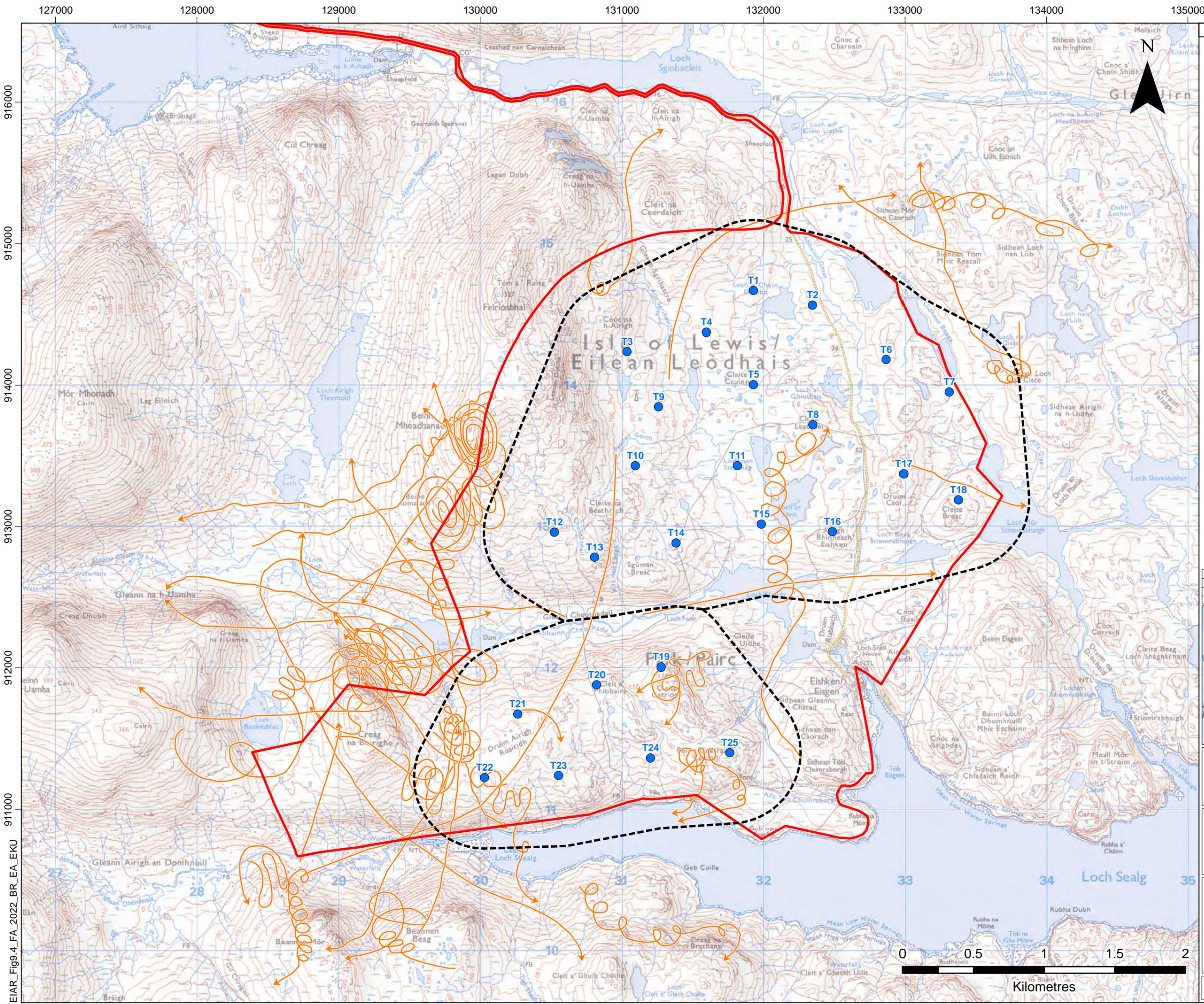


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 FLIGHT ACTIVITY 2022 BREEDING
 SEASON: RED-THROATED DIVER**

FIGURE 9.3
 Scale 1:25,000 @ A3 Date AUGUST 2023



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2022 Breeding Season Flight Activity**
- Golden Eagle

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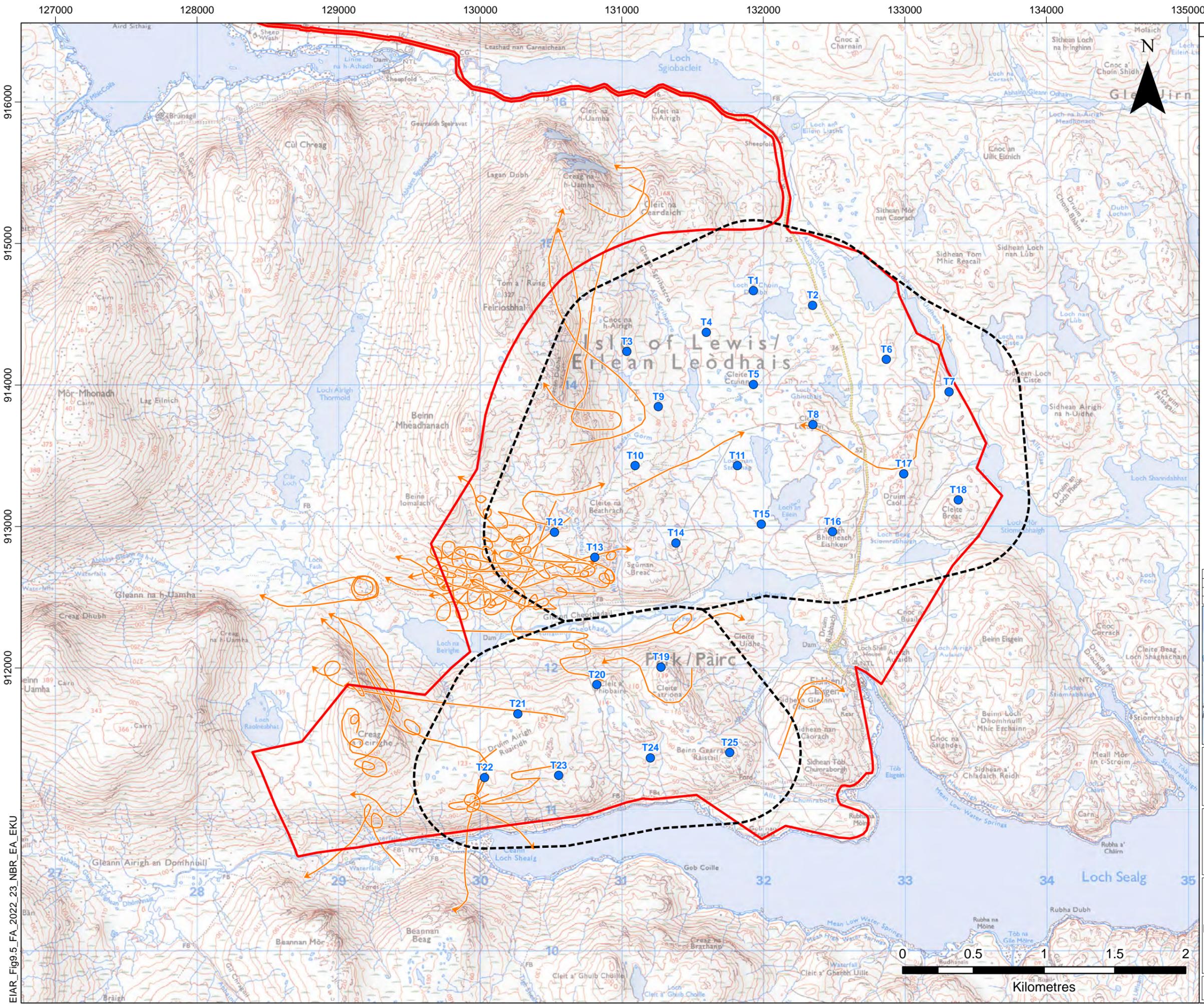


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 FLIGHT ACTIVITY 2022 BREEDING
 SEASON: GOLDEN EAGLE**

FIGURE 9.4
 Scale 1:25,000 @ A3 Date AUGUST 2023



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2022-23 Non-breeding Season Flight Activity**
- Golden Eagle

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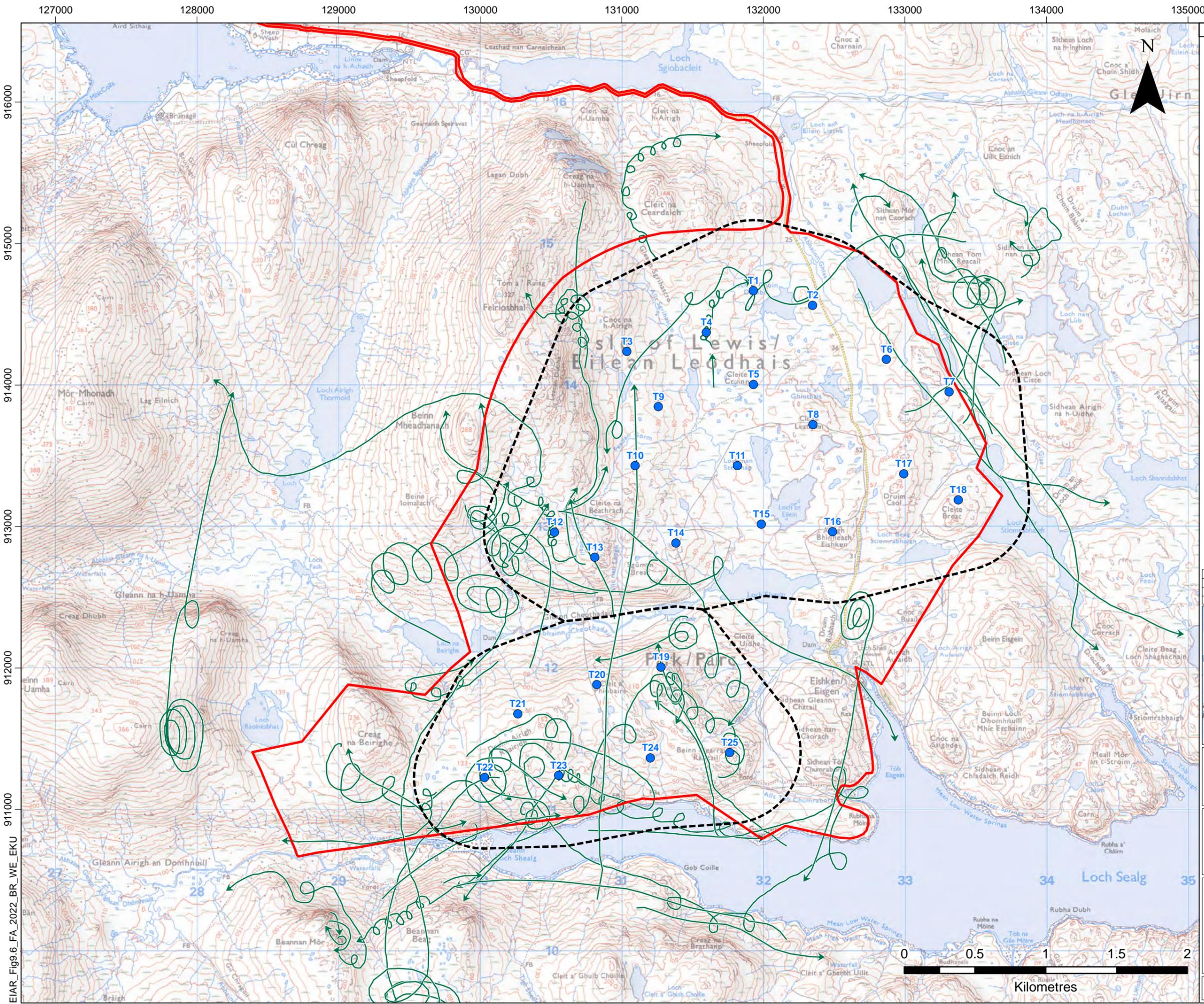
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 SEASON: GOLDEN EAGLE**

FIGURE 9.5
 Scale 1:25,000 @ A3 Date AUGUST 2023

EIA Fig.9.5_FA_2022_23_NBR_EA_EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2022 Breeding Season Flight Activity**
- White-tailed Eagle

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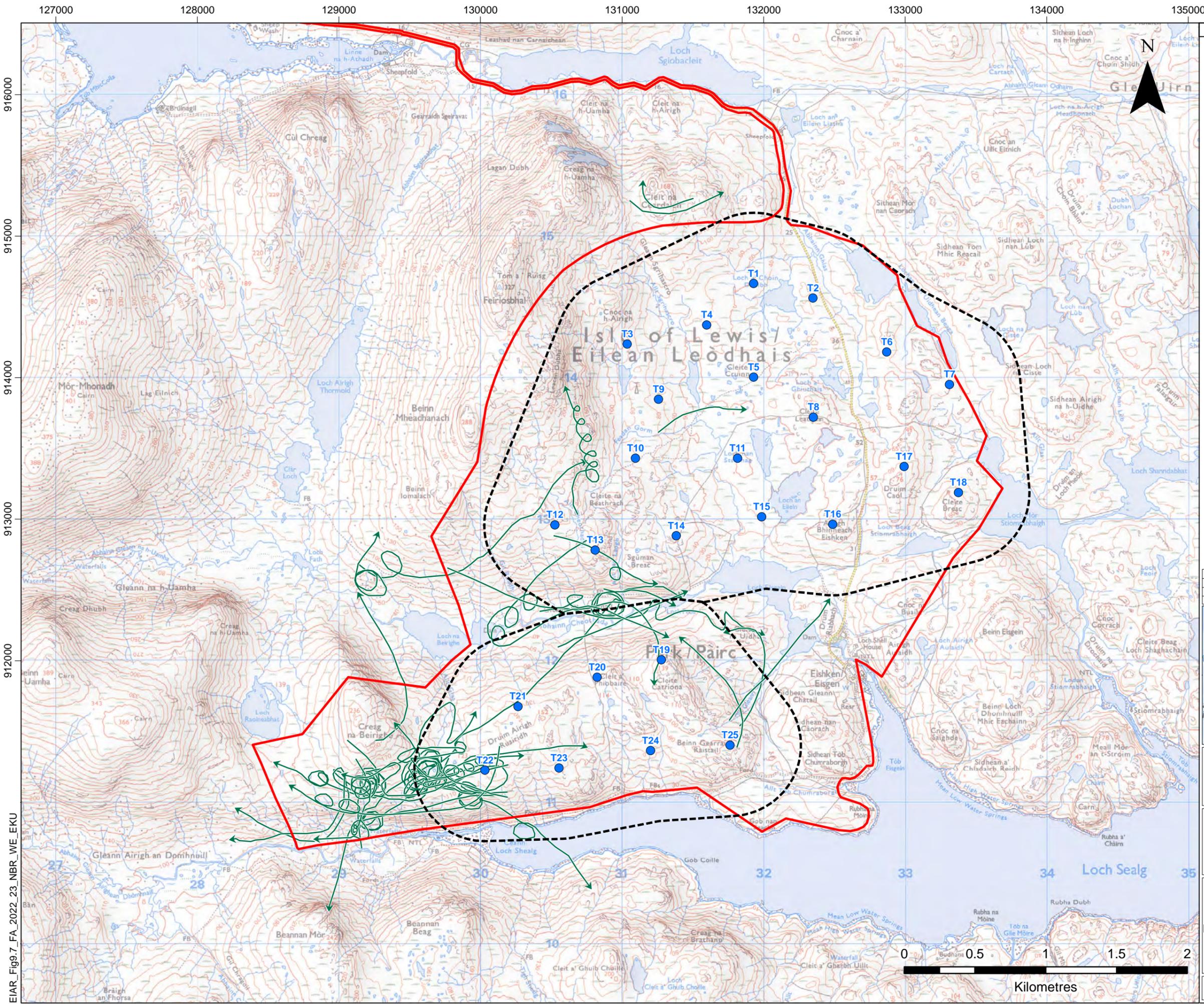


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FLIGHT ACTIVITY 2022 BREEDING SEASON: WHITE-TAILED EAGLE

FIGURE 9.6
 Scale 1:25,000 @ A3 Date AUGUST 2023



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2022-23 Non-breeding Season Flight Activity**
- White-tailed Eagle

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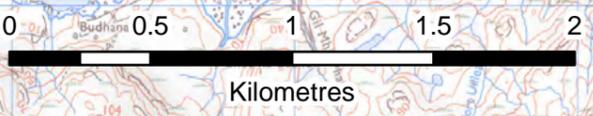


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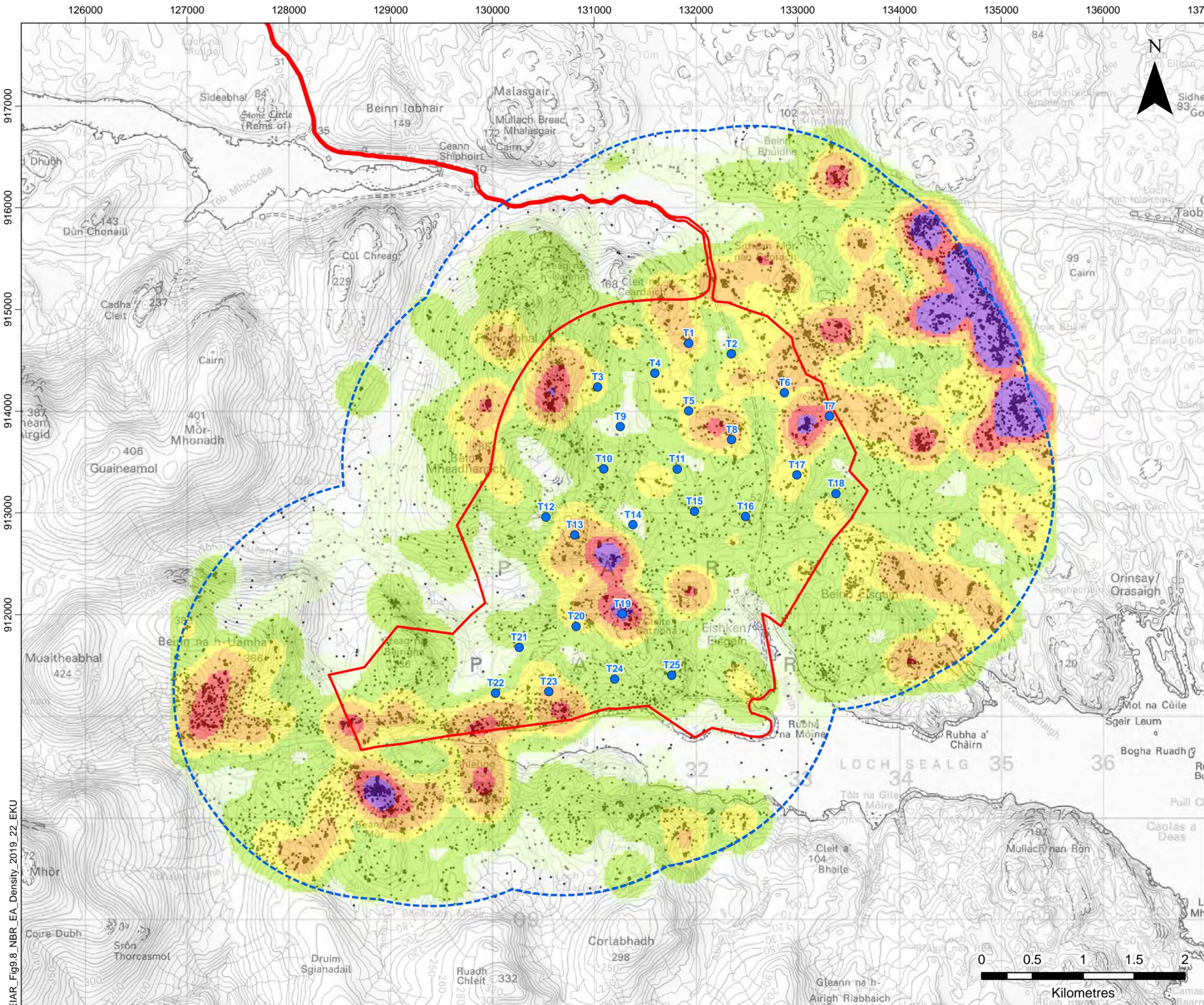
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 SEASON: WHITE-TAILED EAGLE**

FIGURE 9.7
 Scale 1:25,000 @ A3 Date AUGUST 2023



EIA Fig.9.7 FA 2022_23_NBR_WE_EKU



LEGEND

- Proposed Turbine Location
- ▭ Application Boundary
- ▭ 2km Study Area

Satellite Tag Records (2019 - 2022)
Source: Natural Research

- Non-breeding Golden Eagle

Non-breeding Golden Eagle Density (2019 - 2022)

- High
- Low

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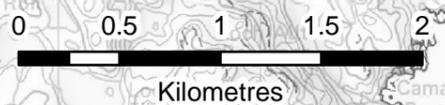
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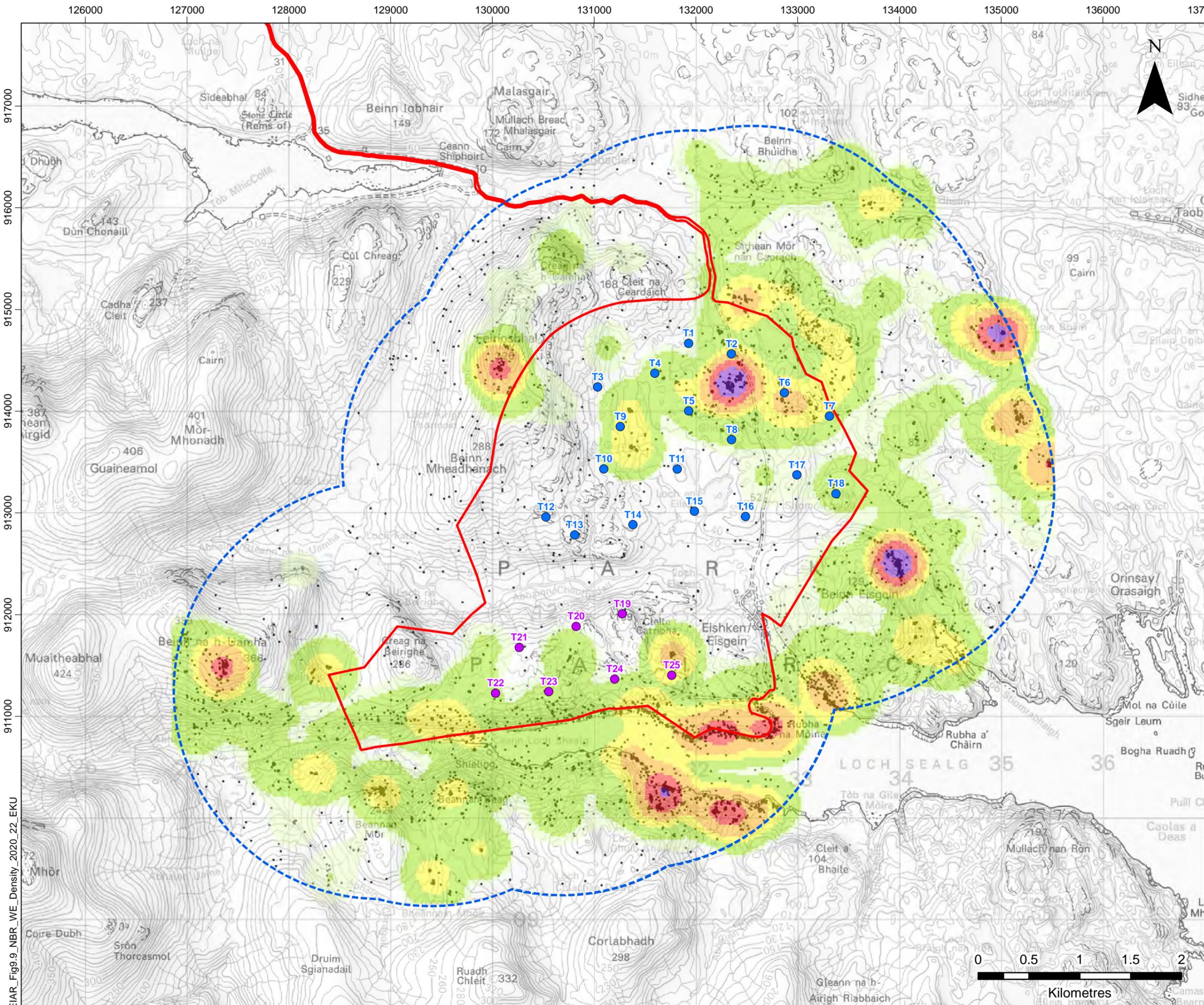
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NON-BREEDING GOLDEN EAGLE DENSITY 2019 TO 2022

FIGURE 9.8

Scale 1:35,000 @ A3 Date AUGUST 2023



EIAR_Fig.9.8_NBR_EA_Density_2019_22_EKU



LEGEND

- Proposed Turbine Location
- Proposed Painted Blade Mitigation Turbine Location
- Application Boundary
- 2km Study Area

Satellite Tag Records (2020 - 2022)
Source: Natural Research

- Non-breeding White-tailed Eagle

Non-breeding White-tailed Eagle Density (2020 - 2022)

- High
- Low

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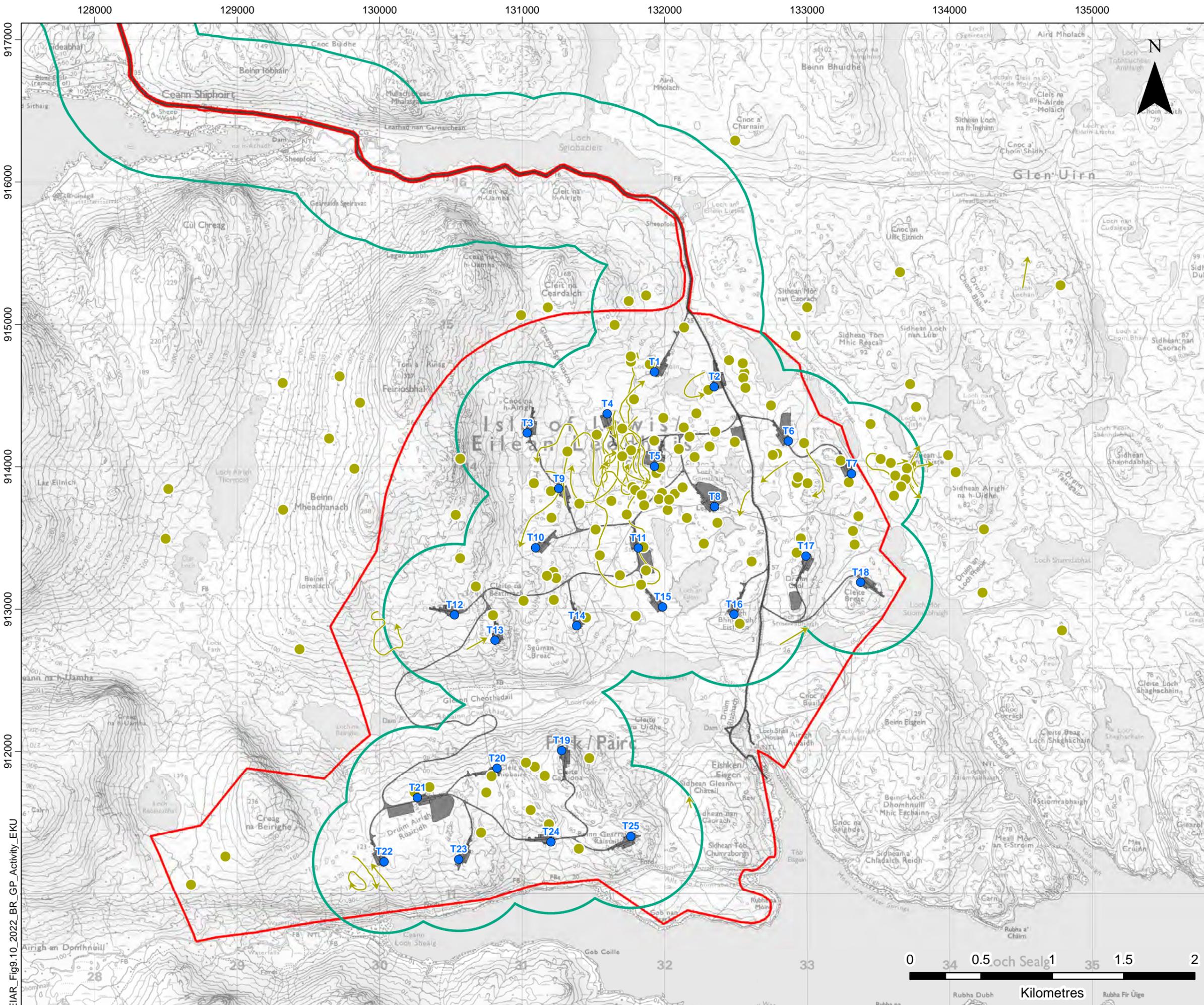
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**NON-BREEDING WHITE-TAILED
EAGLE DENSITY 2020 TO 2022**

FIGURE 9.9

Scale 1:35,000 @ A3 Date AUGUST 2023

EIAR_Fig.9_NBR_WE_Density_2020_22_EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- Infrastructure
- Breeding Bird Study Area

Golden Plover 2022 Breeding Season Activity

- Flight
- Observation

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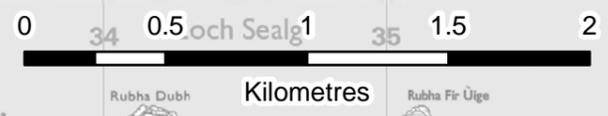


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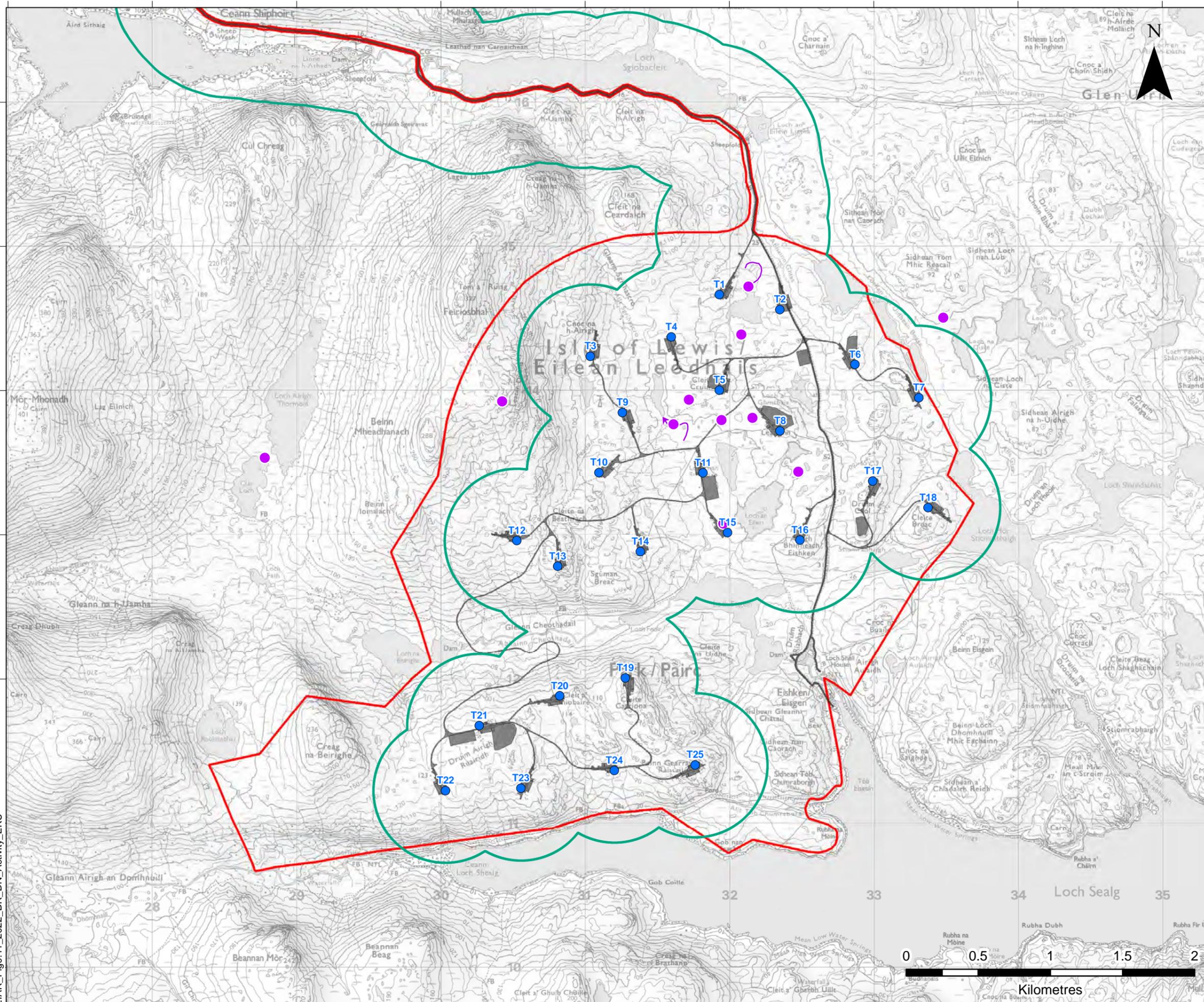
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 GOLDEN PLOVER BREEDING
 SEASON ACTIVITY 2022**

FIGURE 9.10
 Scale 1:25,000 @ A3 Date AUGUST 2023



127000 128000 129000 130000 131000 132000 133000 134000 135000

916000
915000
914000
913000
912000



LEGEND

- Proposed Turbine Location
- Application Boundary
- Infrastructure
- Breeding Bird Study Area

Dunlin 2022 Breeding Season Activity

- Flight
- Observation

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DUNLIN BREEDING SEASON ACTIVITY 2022

FIGURE 9.11

Scale 1:25,000 @ A3 Date AUGUST 2023

EIAR_Fig9.11_2022_BR_DN_Activity_EKU

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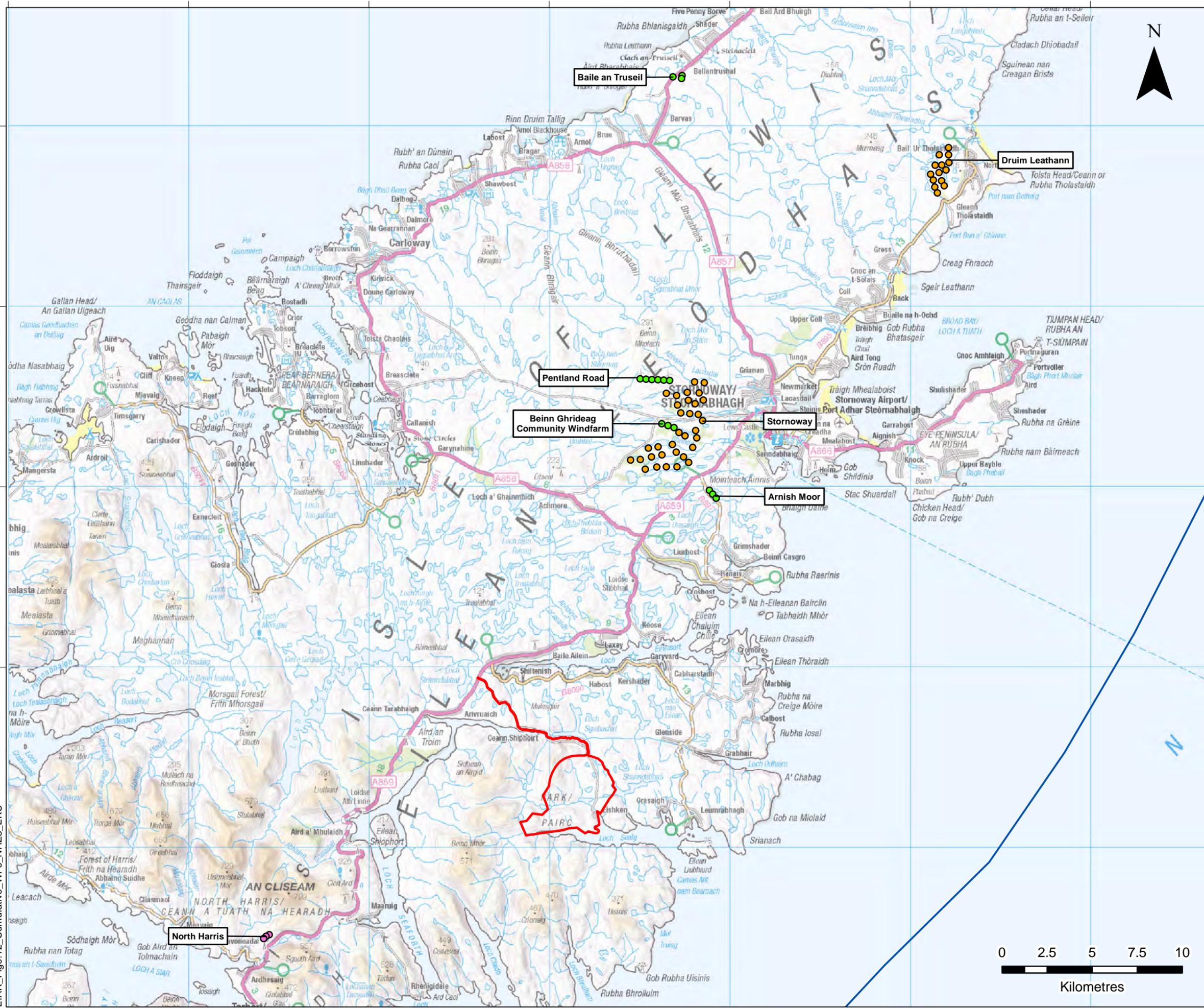
950000

940000

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920000

EIAR_Fig.9.12_Cumulative_WFs_NHZ3_EKU



LEGEND

- Application Boundary
- Natural Heritage Zone (NHZ) 3**
Source: NatureScot
- Coll, Tiree and the Western Isles
- Cumulative Wind Farm Turbines**
Source: Eurowind
- Operational
- Consented
- Design/Scoping (Previously Consented)

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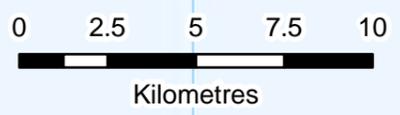
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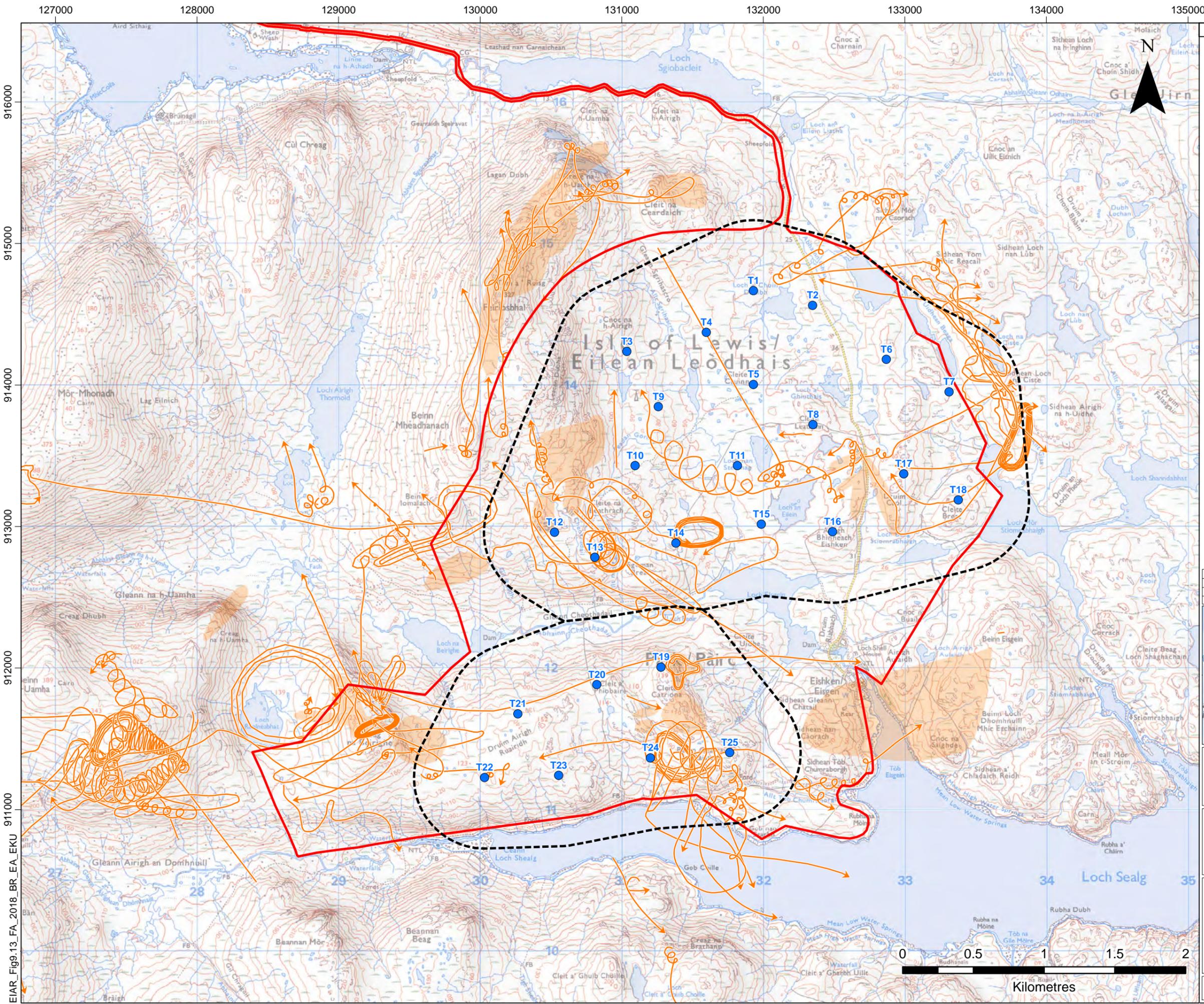
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CUMULATIVE WIND FARM PROJECTS WITHIN NHZ 3

FIGURE 9.12

Scale 1:200,000 @ A3 Date AUGUST 2023





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- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2018 Breeding Season Flight Activity**
Source: Natural Research
- Golden Eagle
- 2018 Breeding Season Flight Areas**
Source: Natural Research
- Golden Eagle

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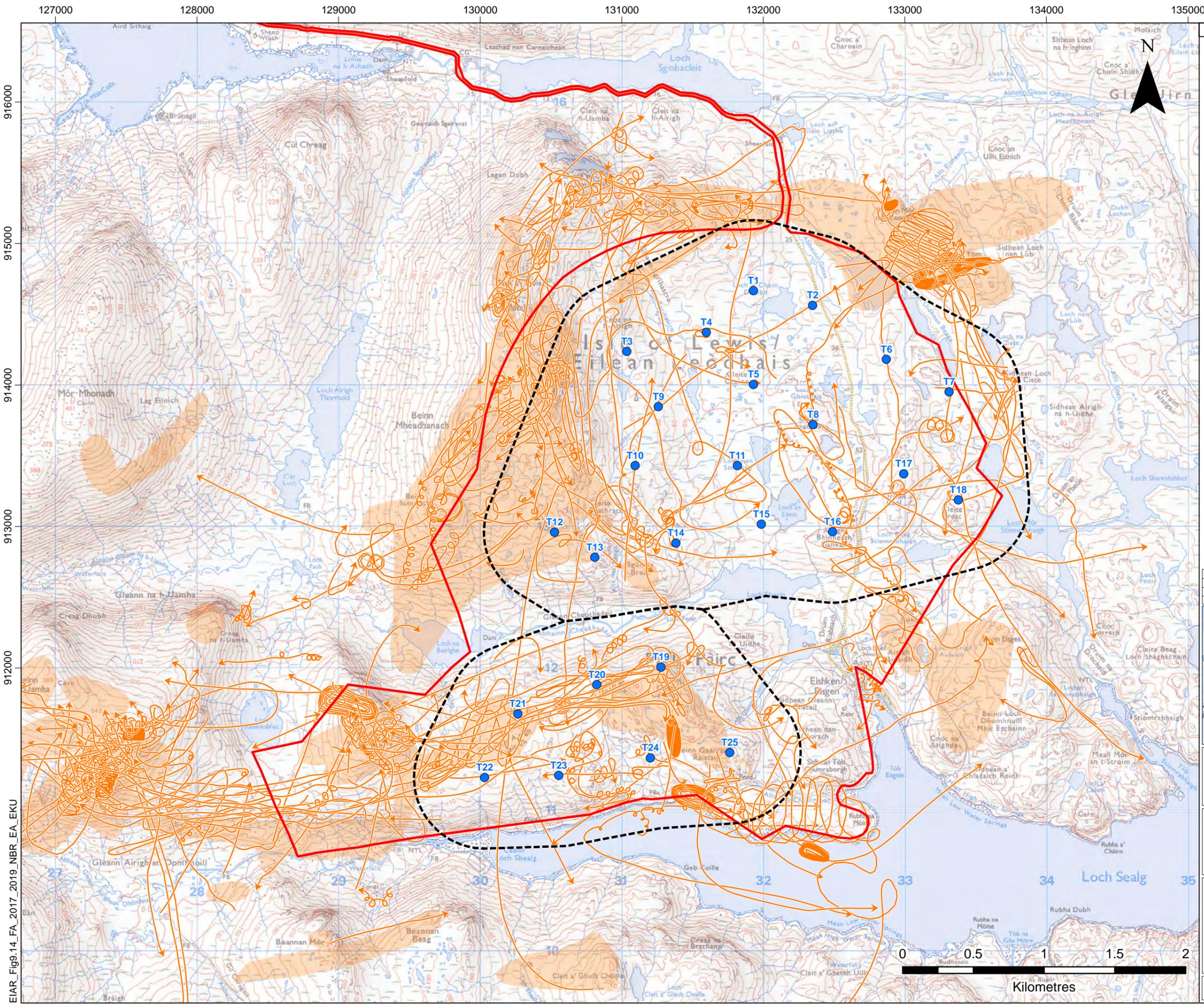


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FLIGHT ACTIVITY 2018 BREEDING
SEASON: GOLDEN EAGLE

FIGURE 9.13
 Scale 1:25,000 @ A3 Date AUGUST 2023



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2017-18 and 2018-19 Non-breeding Season Flight Activity**
Source: Natural Research
- Golden Eagle
- 2017-18 and 2018-19 Non-breeding Season Flight Areas**
Source: Natural Research
- Golden Eagle

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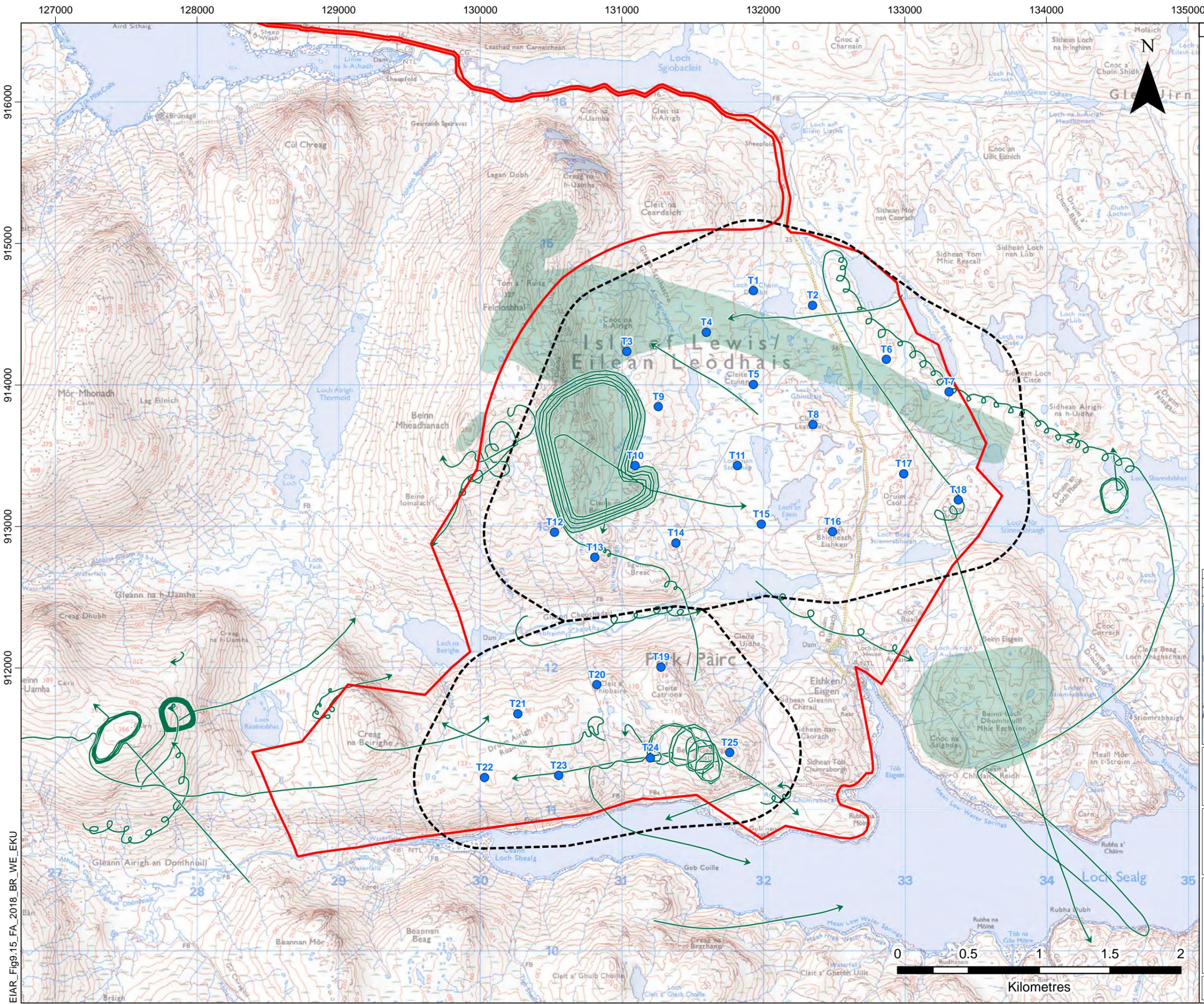
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FLIGHT ACTIVITY 2017 - 2019
NON-BREEDING SEASONS: GOLDEN EAGLE

FIGURE 9.14
 Scale 1:25,000 @ A3 Date AUGUST 2023

EIA Fig.9.14_FA_2017_2019_NBR_EA_EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)
- 2018 Breeding Season Flight Activity**
Source: Natural Research
- White-tailed Eagle
- 2018 Breeding Season Flight Areas**
Source: Natural Research
- White-tailed Eagle

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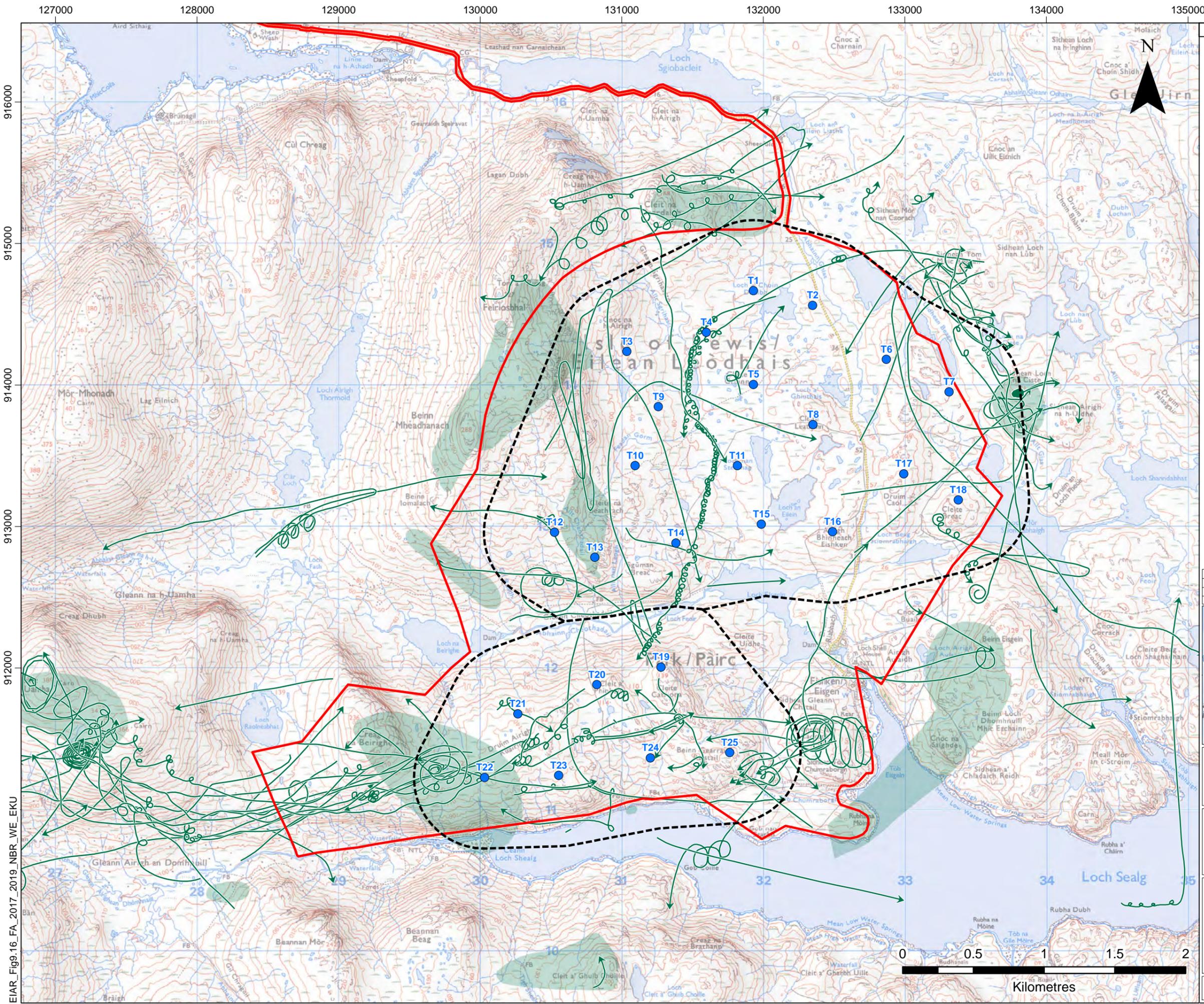
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FLIGHT ACTIVITY 2018 BREEDING SEASON: WHITE-TAILED EAGLE

FIGURE 9.15
 Scale 1:25,000 @ A3 Date AUGUST 2023

EIA Fig.9.15_FA_2018_BR_WE_EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- Collision Risk Analysis Area (CRAA)

2017-18 and 2018-19 Non-breeding Season Flight Activity
Source: Natural Research

- White-tailed Eagle

2017-18 and 2018-19 Non-breeding Season Flight Areas
Source: Natural Research

- White-tailed Eagle

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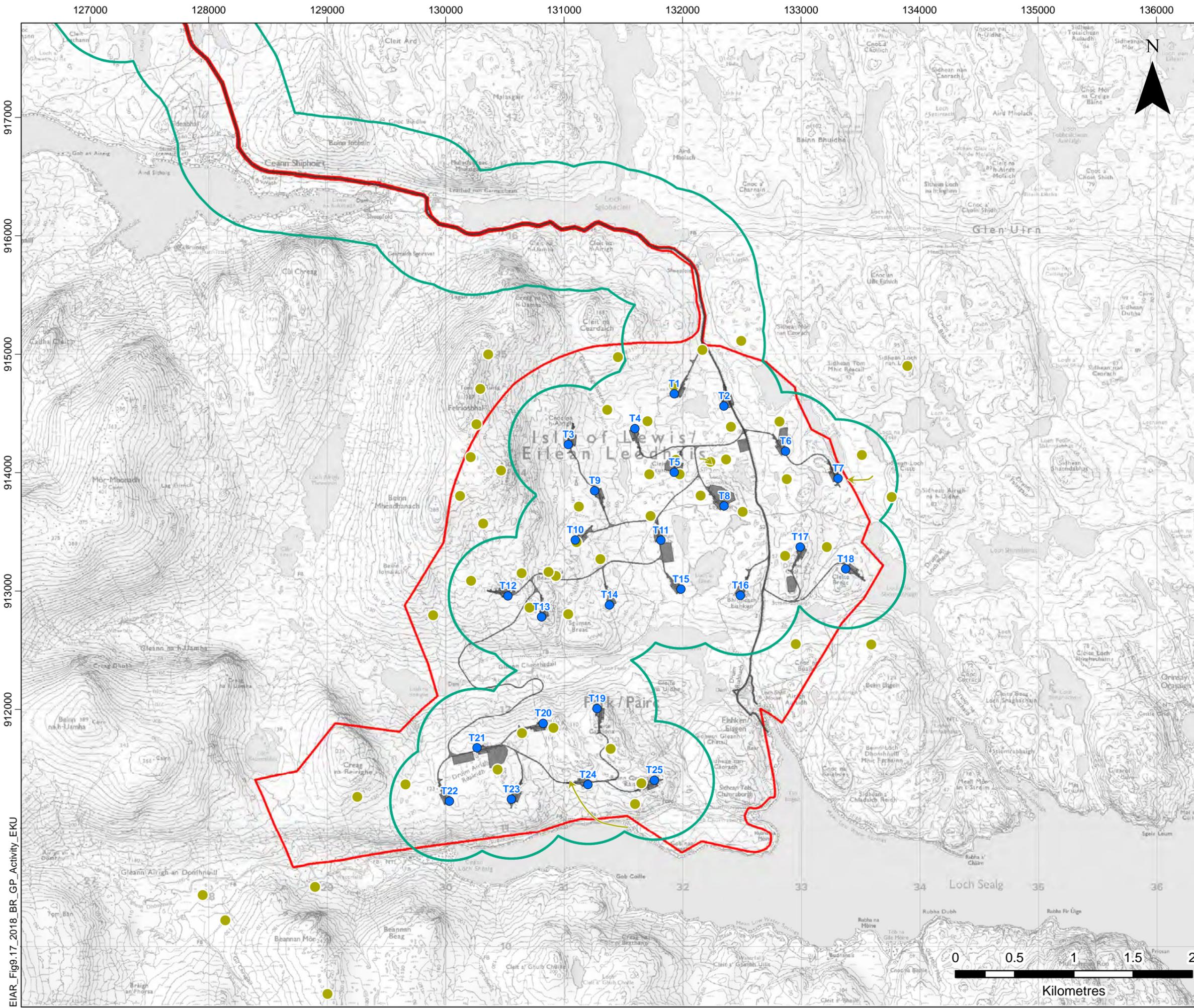
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FLIGHT ACTIVITY 2017 - 2019 NON-BREEDING SEASONS: WHITE-TAILED EAGLE

FIGURE 9.16

Scale 1:25,000 @ A3 Date AUGUST 2023

EIA Fig.9.16 FA_2017_2019_NBR_WE_EKU



LEGEND

- Proposed Turbine Location
- Application Boundary
- Infrastructure
- Breeding Bird Study Area

Golden Plover 2018 Breeding Season Activity

Source: *Natural Research*

- Flight
- Observation

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GOLDEN PLOVER BREEDING SEASON ACTIVITY 2018

FIGURE 9.17

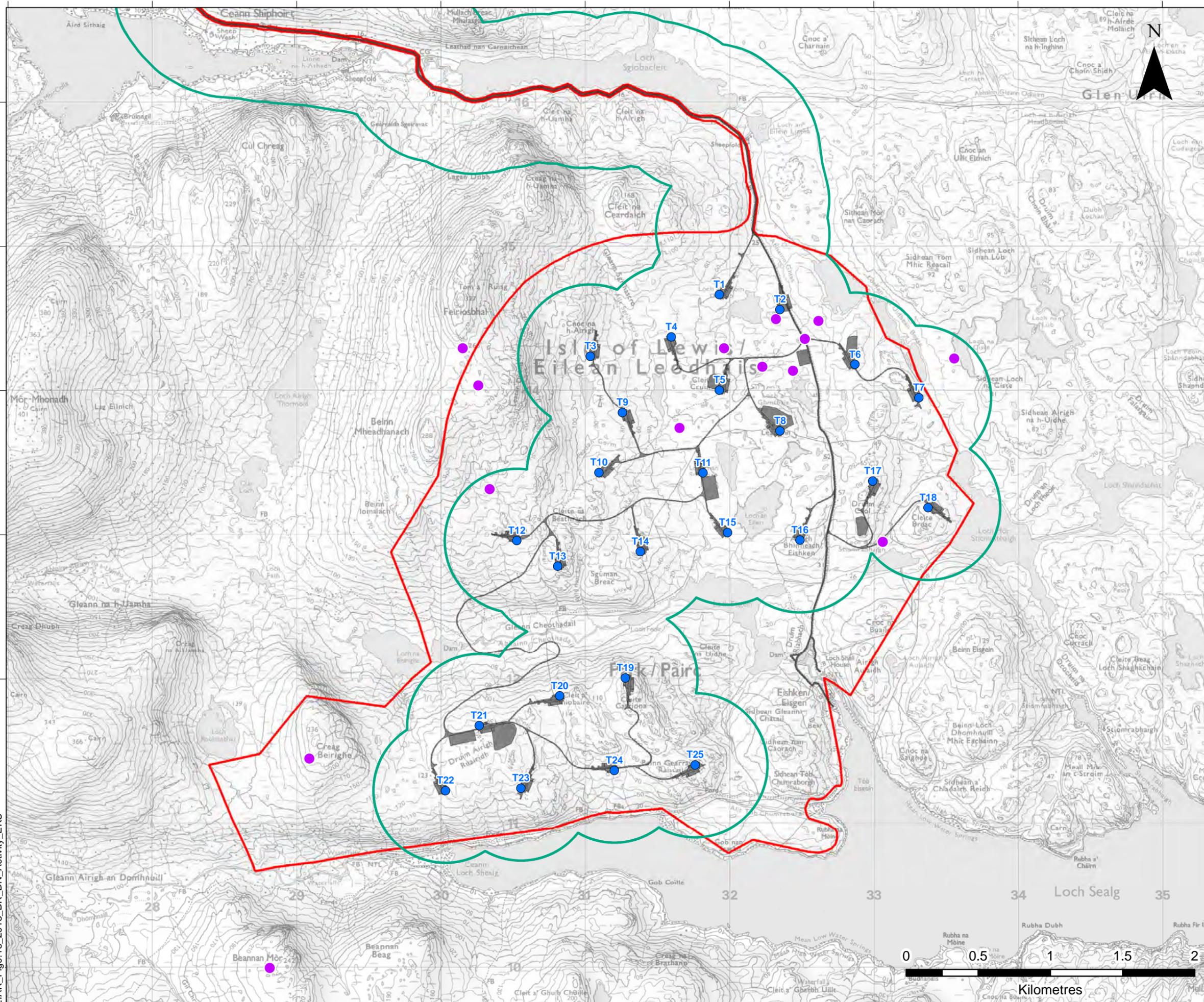
Scale 1:30,000 @ A3 Date AUGUST 2023



EIA Fig.9.17_2018_BR_GP_Activity_EKU

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915000
914000
913000
912000



LEGEND

- Proposed Turbine Location
- Application Boundary
- Infrastructure
- Breeding Bird Study Area

Dunlin 2018 Breeding Season Activity
Source: Natural Research

- Observation

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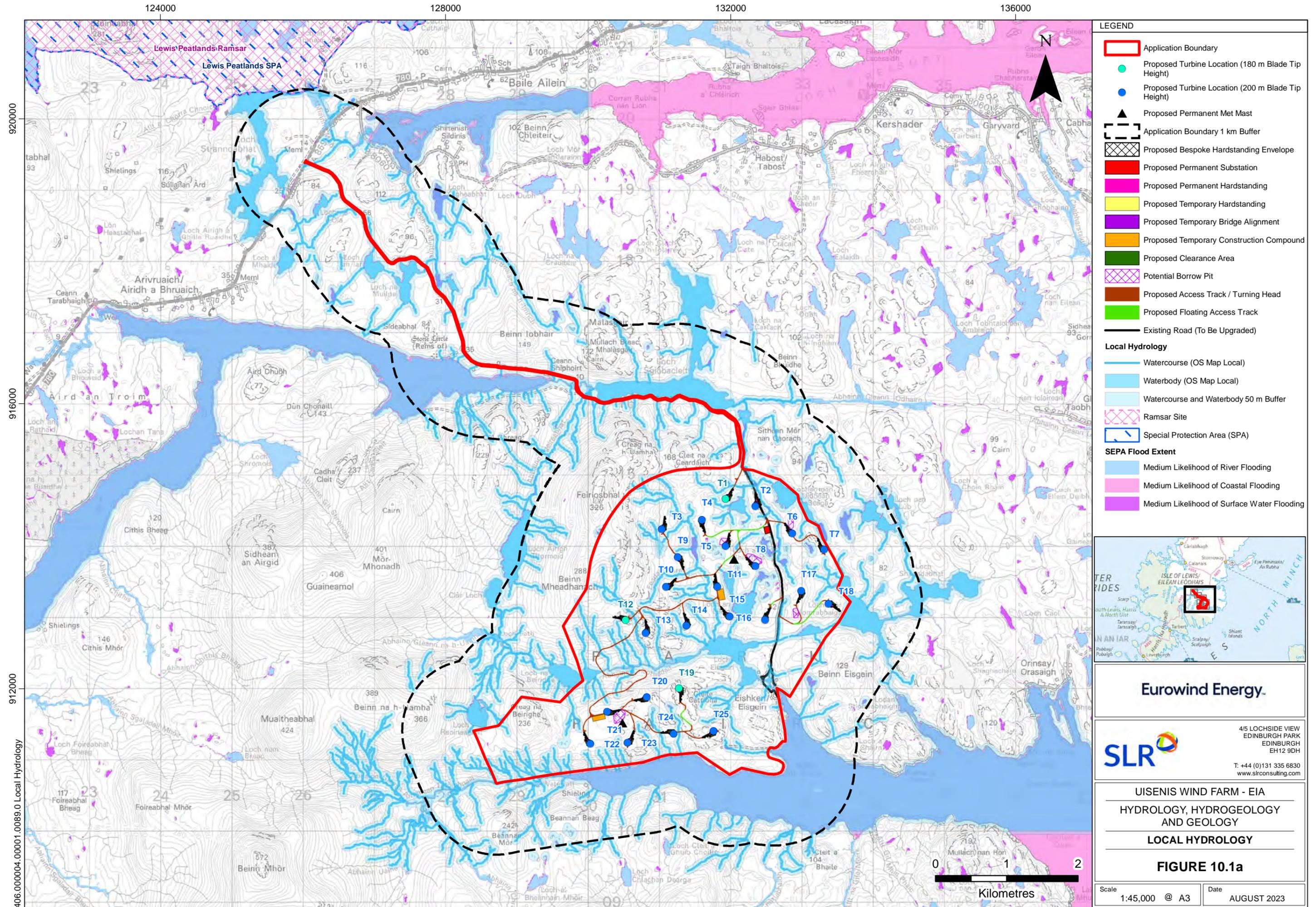
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ENVIRONMENT IMPACT ASSESSMENT
DUNLIN BREEDING SEASON ACTIVITY 2018
FIGURE 9.18

Scale 1:25,000 @ A3 Date AUGUST 2023

EIAR_Fig.9.18_2018_BR_DN_Activity_EKU



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Application Boundary 1 km Buffer
- 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 (OS Map Local)
- Waterbody (OS Map Local)
- 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

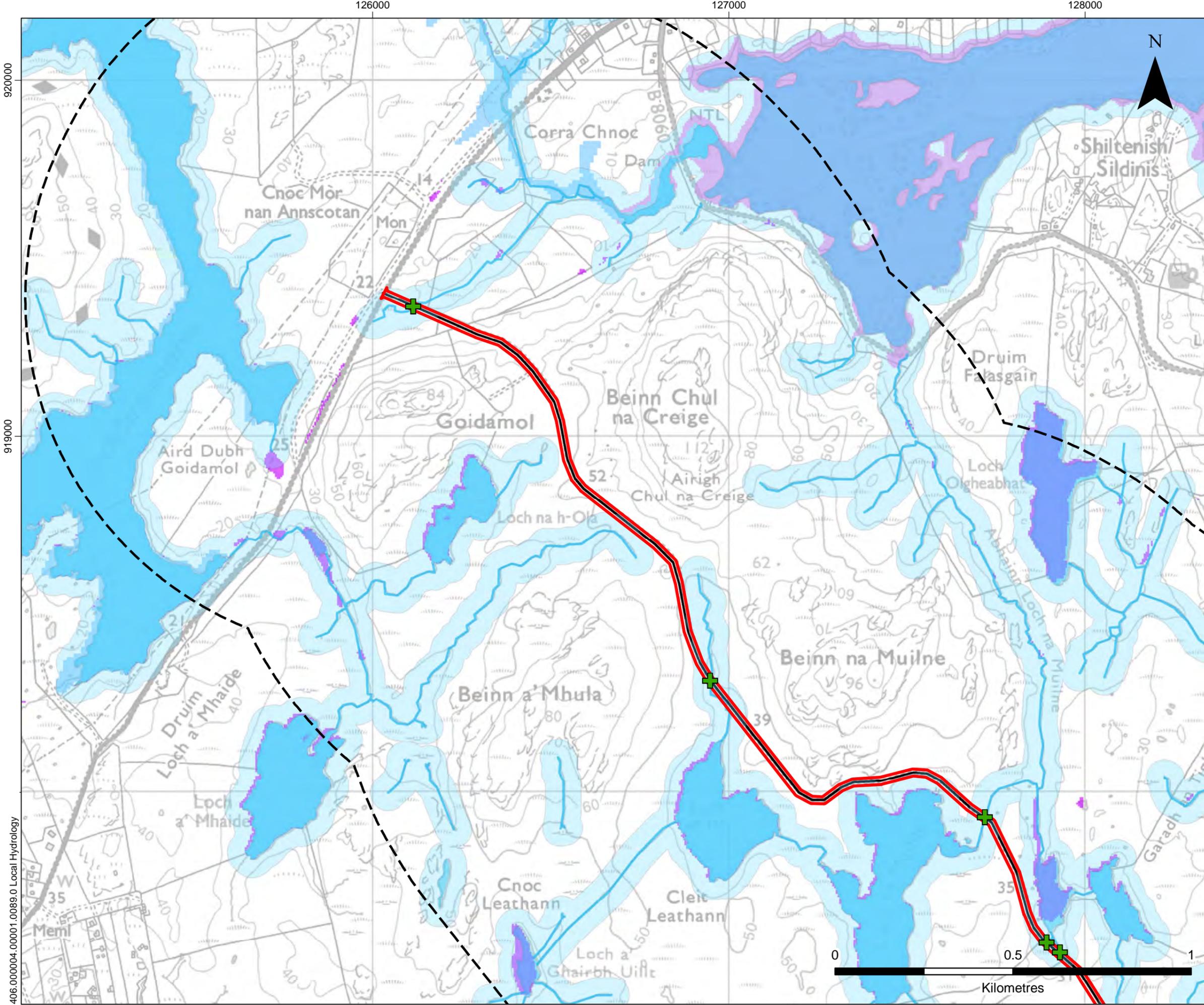
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UISENIS WIND FARM - EIA
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
LOCAL HYDROLOGY

FIGURE 10.1a

Scale: 1:45,000 @ A3 Date: AUGUST 2023



LEGEND

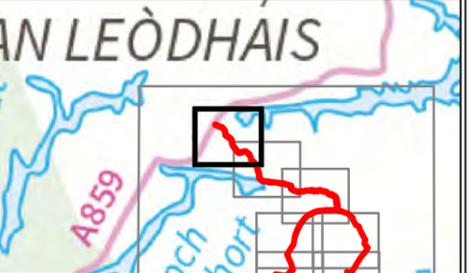
- Application Boundary
- Application Boundary 1 km Buffer
- Existing Road (To Be Upgraded)
- + Watercourse Crossing

Local Hydrology

- Watercourse (OS Map Local)
- Waterbody (OS Map Local)
- 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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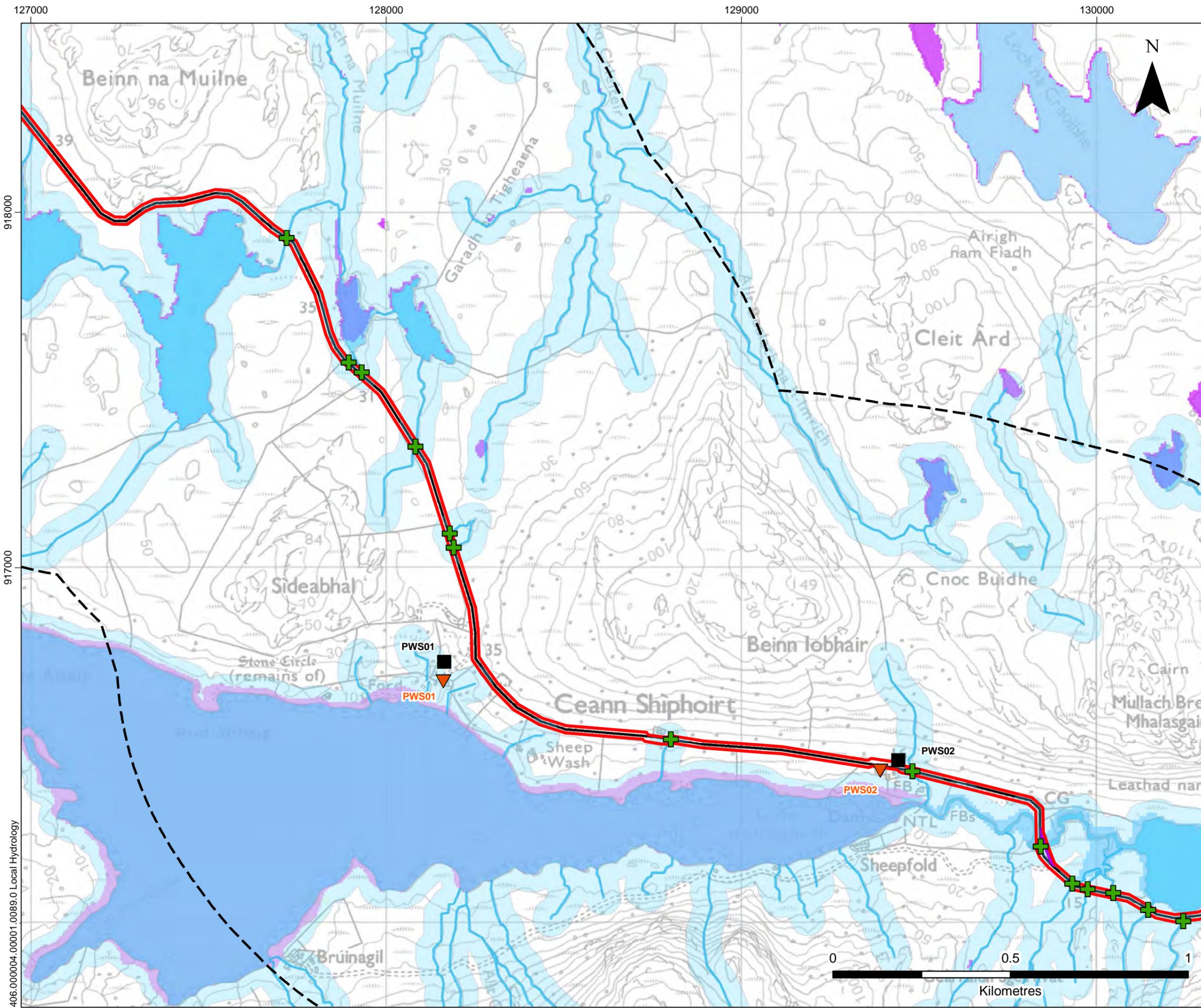
UISENIS WIND FARM - EIA
**HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY**
LOCAL HYDROLOGY

FIGURE 10.1b

Scale: 1:10,000 @ A3 Date: AUGUST 2023



406.00004.00001.0089.0 Local Hydrology



LEGEND

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

Local Hydrology

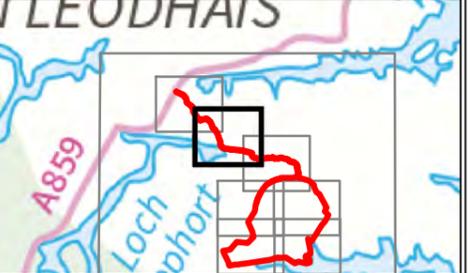
- Watercourse (OS Map Local)
- Waterbody (OS Map Local)
- Watercourse and Waterbody 50 m Buffer

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



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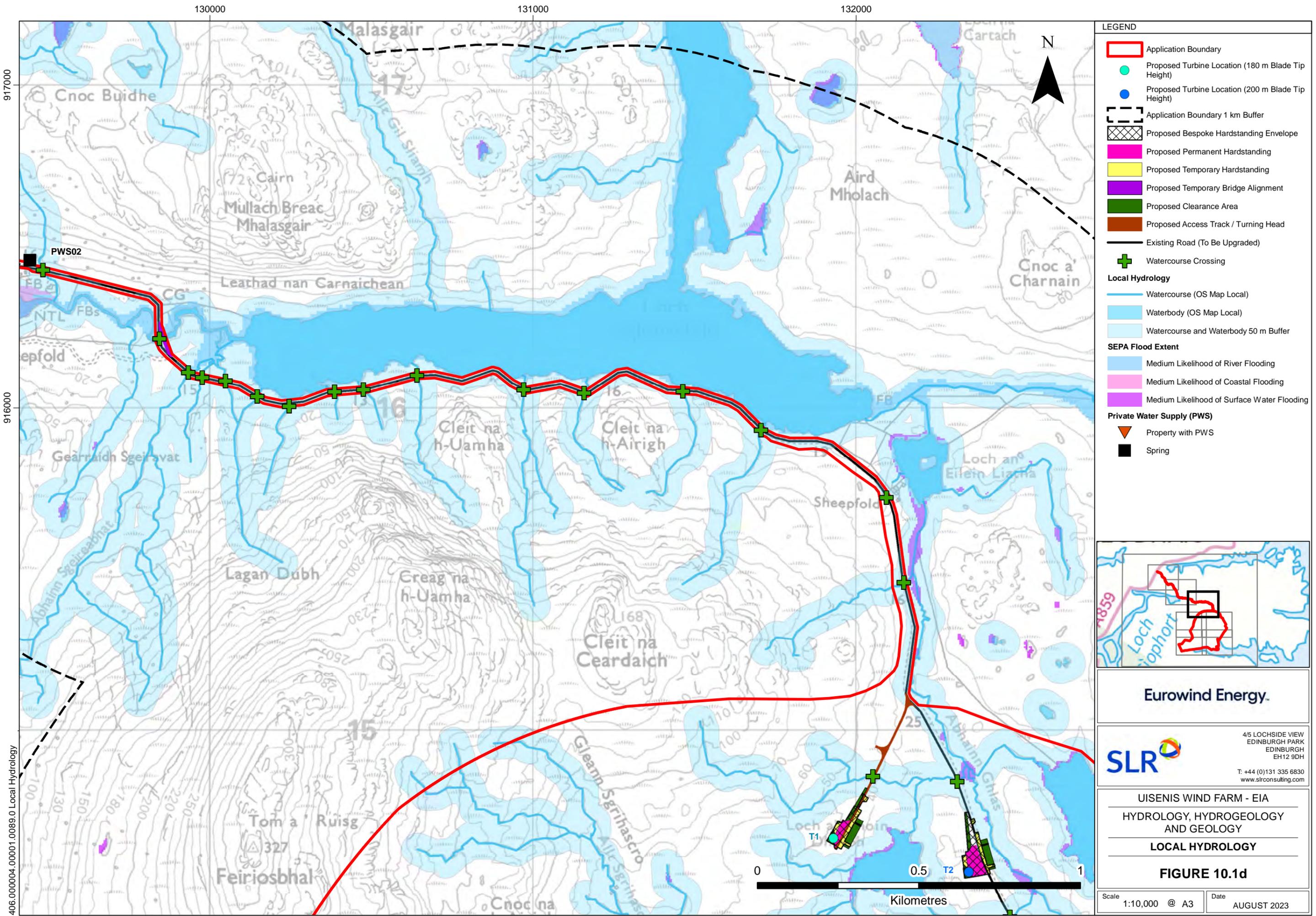
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HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
LOCAL HYDROLOGY

FIGURE 10.1c

Scale: 1:10,000 @ A3 Date: AUGUST 2023





LEGEND

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

Local Hydrology

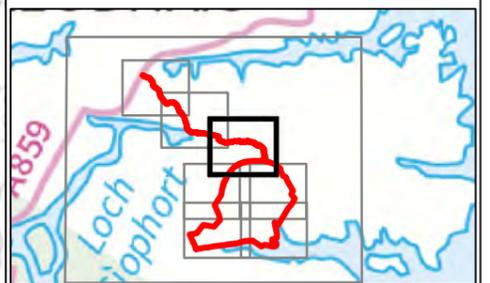
- Watercourse (OS Map Local)
- Waterbody (OS Map Local)
- Watercourse and Waterbody 50 m Buffer

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



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

FIGURE 10.1d

Scale 1:10,000 @ A3 Date AUGUST 2023

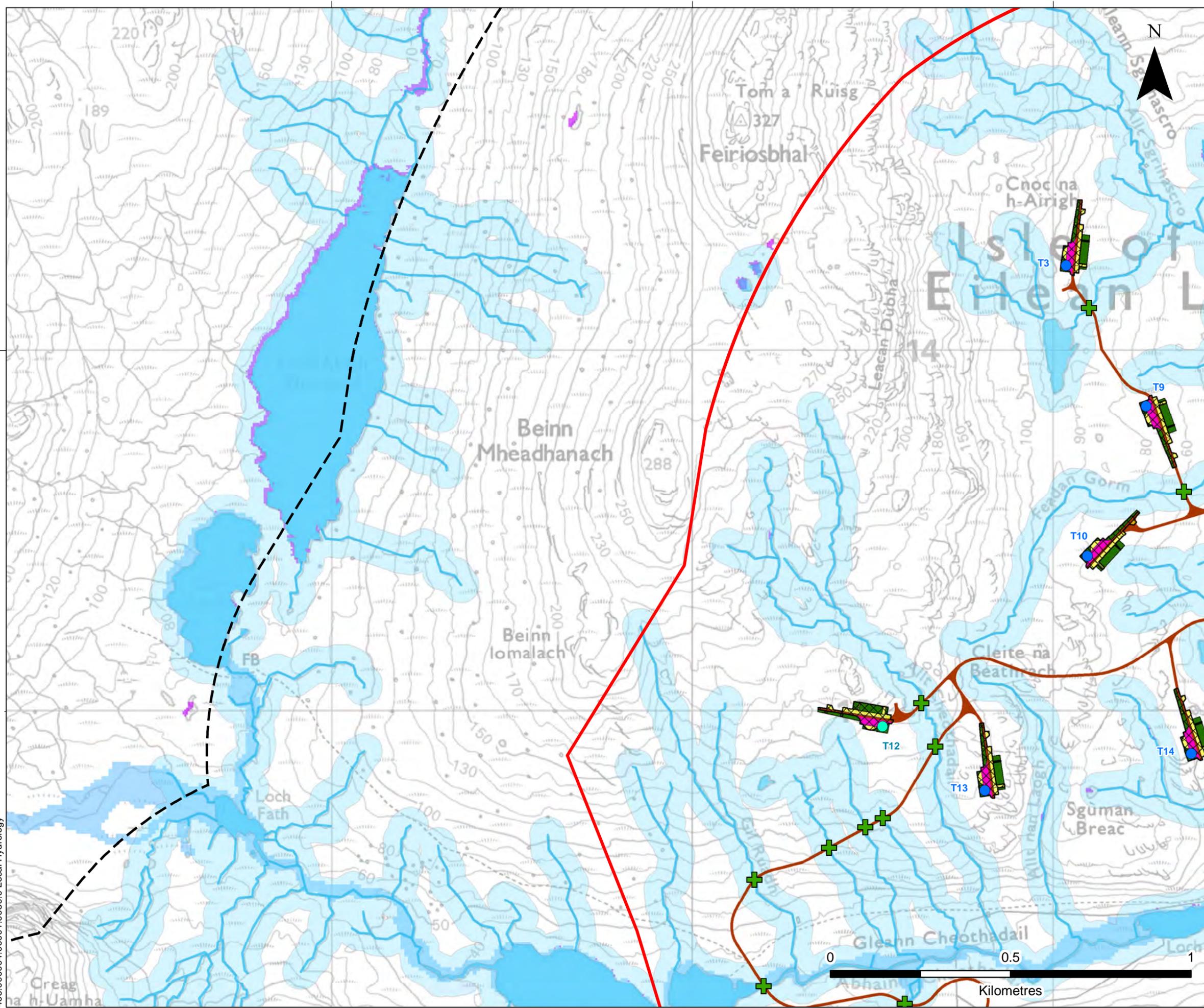
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406.00004.00001.0089.0 Local Hydrology



LEGEND

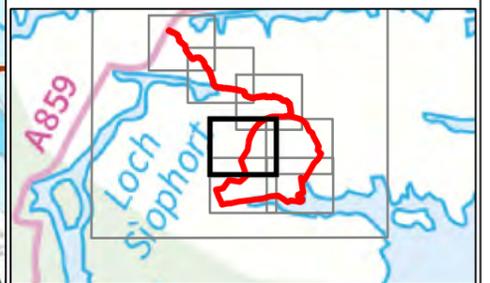
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Application Boundary 1 km Buffer
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Clearance Area
-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

Local Hydrology

- Watercourse (OS Map Local)
- Waterbody (OS Map Local)
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

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



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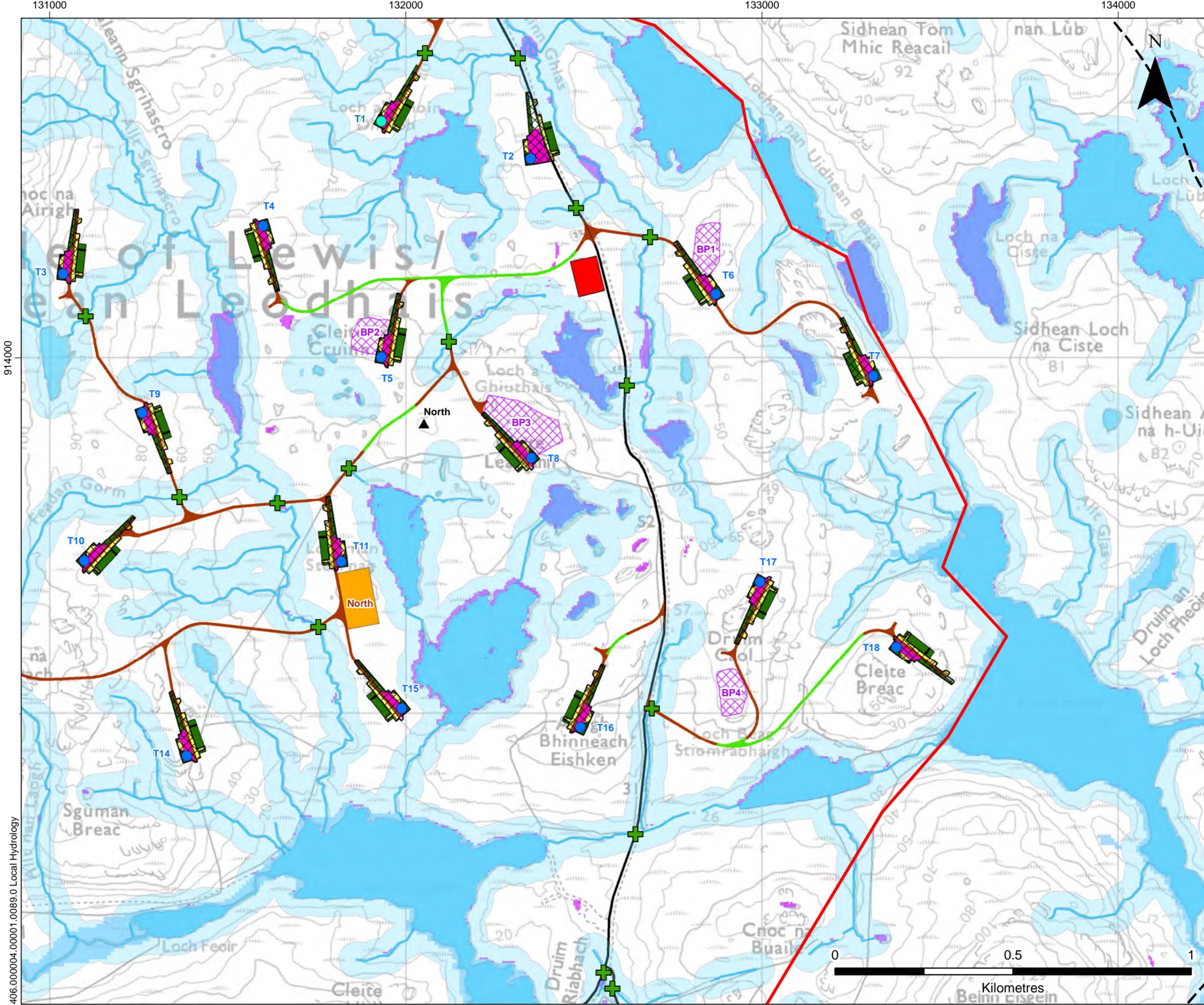
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UISENIS WIND FARM - EIA
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
LOCAL HYDROLOGY

FIGURE 10.1e

Scale 1:10,000 @ A3	Date AUGUST 2023
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LEGEND

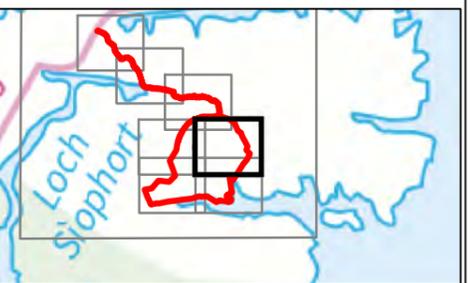
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Application Boundary 1 km Buffer
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- 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 (OS Map Local)
- Waterbody (OS Map Local)
- Watercourse and Waterbody 50 m Buffer

SEPA Flood Extent

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



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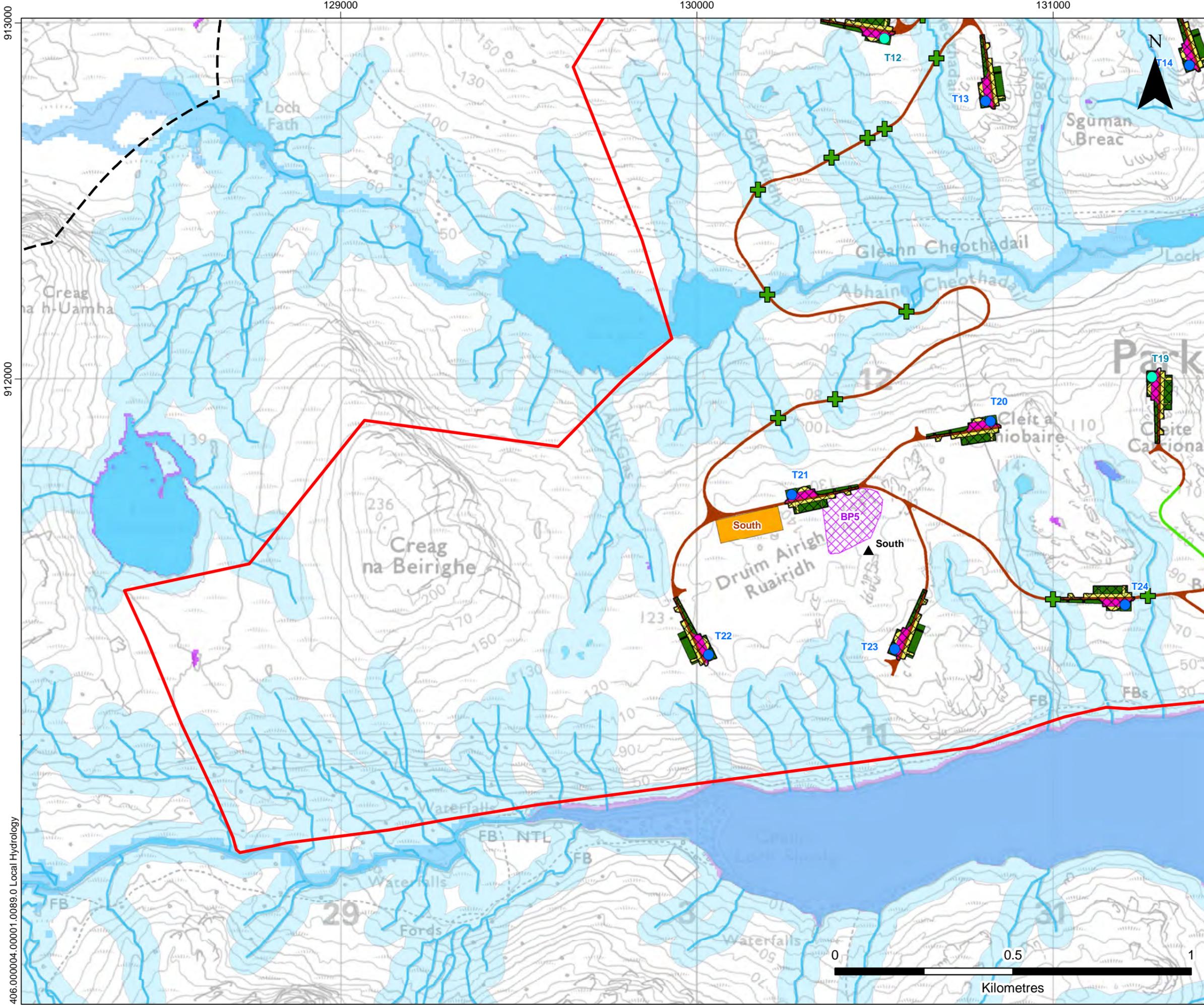
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HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
LOCAL HYDROLOGY

FIGURE 10.1f

Scale 1:10,000 @ A3 Date AUGUST 2023

406.00004.00001.0089.0 Local Hydrology



LEGEND

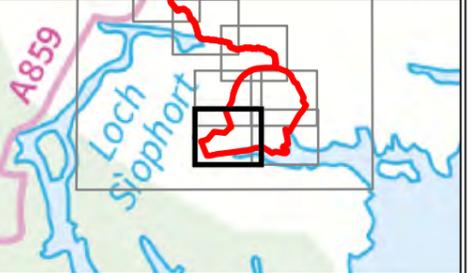
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Application Boundary 1 km Buffer
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding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

Local Hydrology

- Watercourse (OS Map Local)
- Waterbody (OS Map Local)
- 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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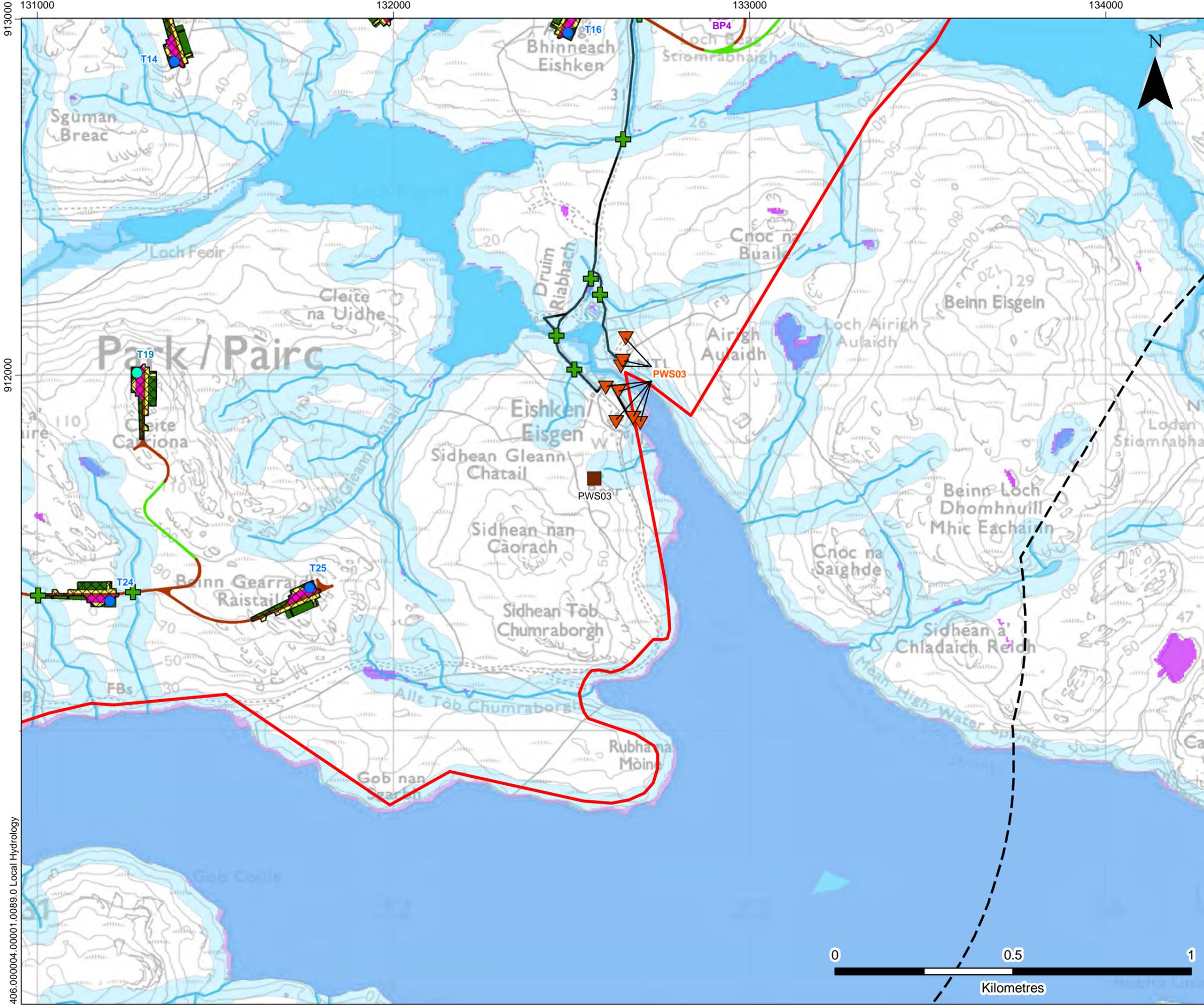
UISENIS WIND FARM - EIA
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
LOCAL HYDROLOGY

FIGURE 10.1g

Scale 1:10,000 @ A3 Date AUGUST 2023



406.00004.00001.0089.0 Local Hydrology



LEGEND

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

Local Hydrology

- Watercourse (OS Map Local)
- Waterbody (OS Map Local)
- 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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HYDROLOGY, HYDROGEOLOGY AND GEOLOGY
LOCAL HYDROLOGY

FIGURE 10.1h

Scale: 1:10,000 @ A3 Date: AUGUST 2023



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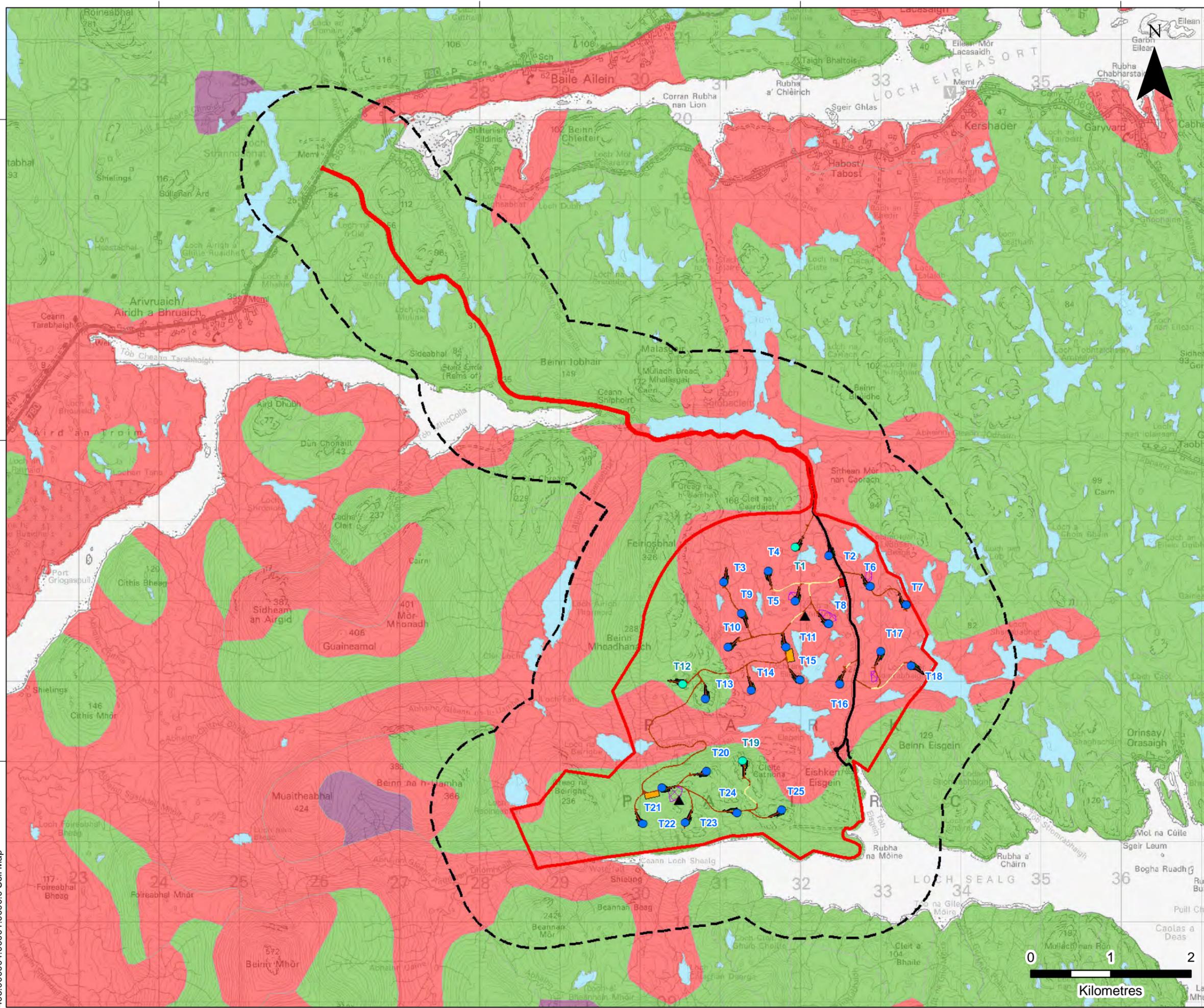
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406.00004.00001.0090.0 Soil Map



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Application Boundary 1 km Buffer
- Proposed Bespoke Hardstanding Envelope
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- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Clearance Area
- Proposed Temporary Construction Compound
- 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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HYDROLOGY, HYDROGEOLOGY AND GEOLOGY
SOIL MAP

FIGURE 10.2

Scale 1:45,000 @ A3 Date AUGUST 2023



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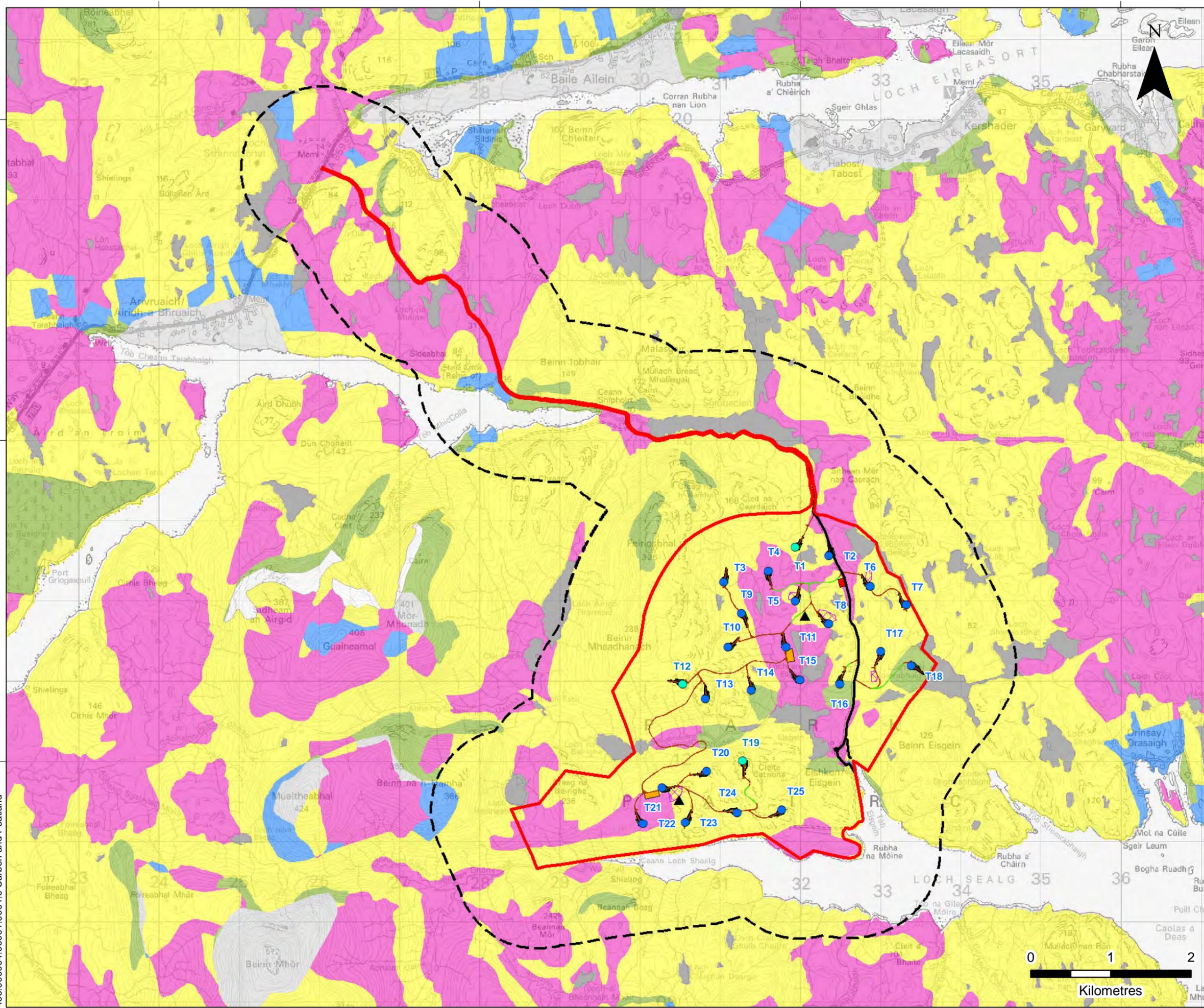
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406.00004.00001.00091.0 Carbon and Peatland



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Application Boundary 1 km Buffer
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
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- Proposed Temporary Hardstanding
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
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- 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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AND GEOLOGY
CARBON AND PEATLAND

FIGURE 10.3

Scale 1:45,000 @ A3 Date AUGUST 2023

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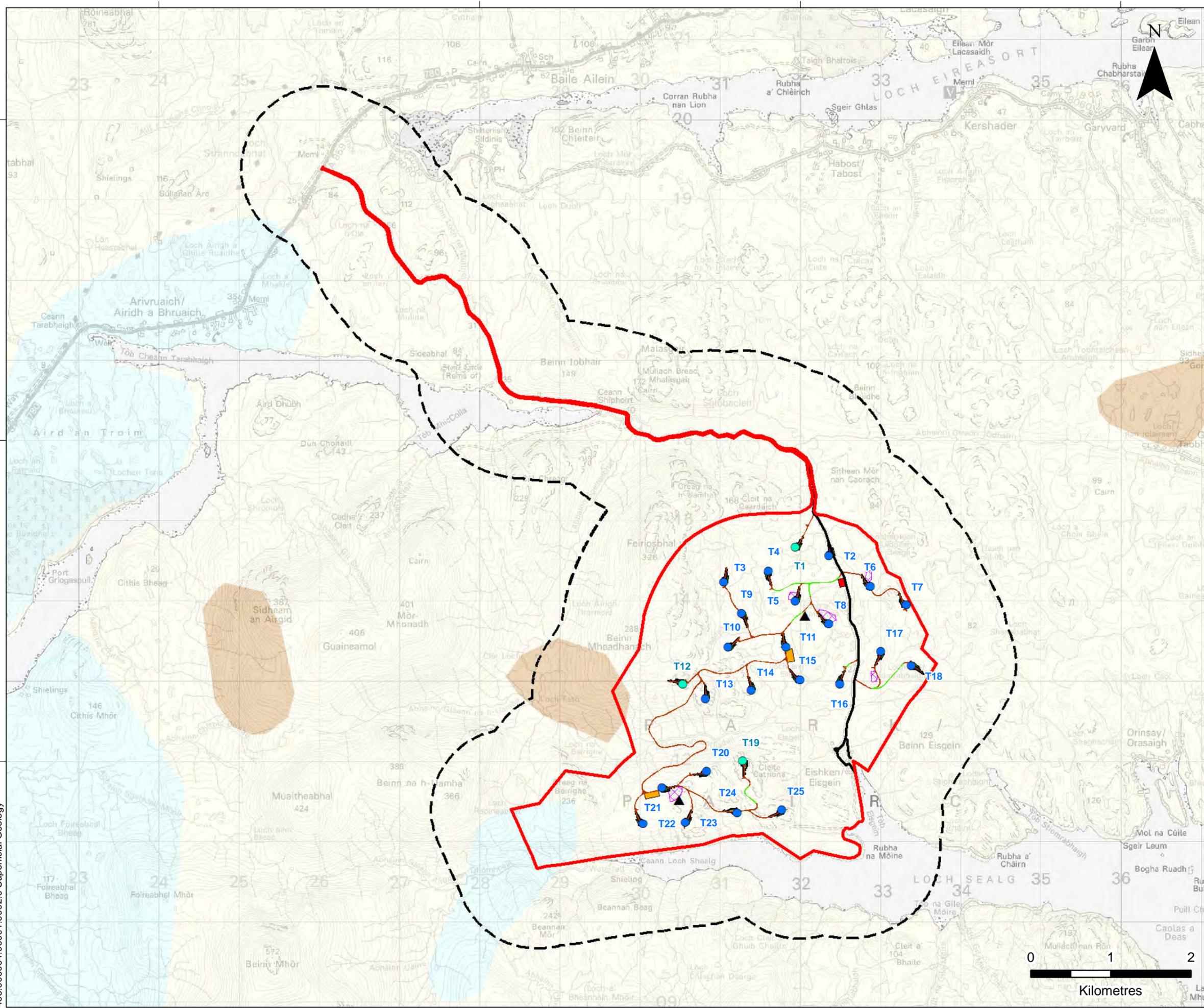
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406.00004.00001.0092.0 Superficial Geology



LEGEND

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

Superficial Geology

- Peat
- Till - Diamicton
- No Mapped Superficial Deposit



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AND GEOLOGY
SUPERFICIAL GEOLOGY

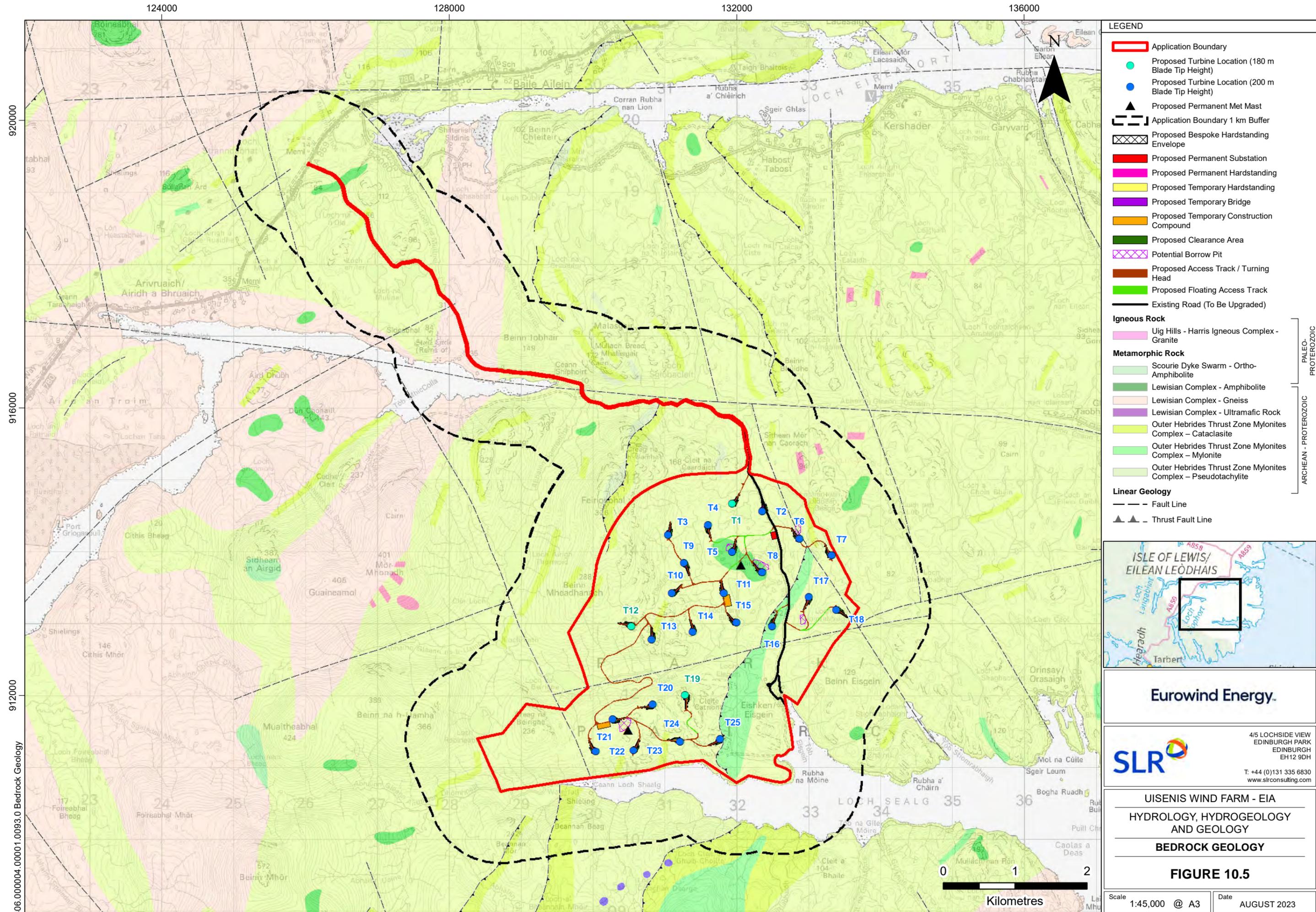
FIGURE 10.4

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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
- Application Boundary 1 km Buffer
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Permanent Hardstanding
- Proposed Temporary Hardstanding
- Proposed Temporary Bridge
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track / Turning Head
- Proposed Floating Access Track
- Existing Road (To Be Upgraded)

Igneous Rock

- Uig Hills - Harris Igneous Complex - Granite

Metamorphic Rock

- Scourie Dyke Swarm - Ortho-Amphibolite
- Lewisian Complex - Amphibolite
- 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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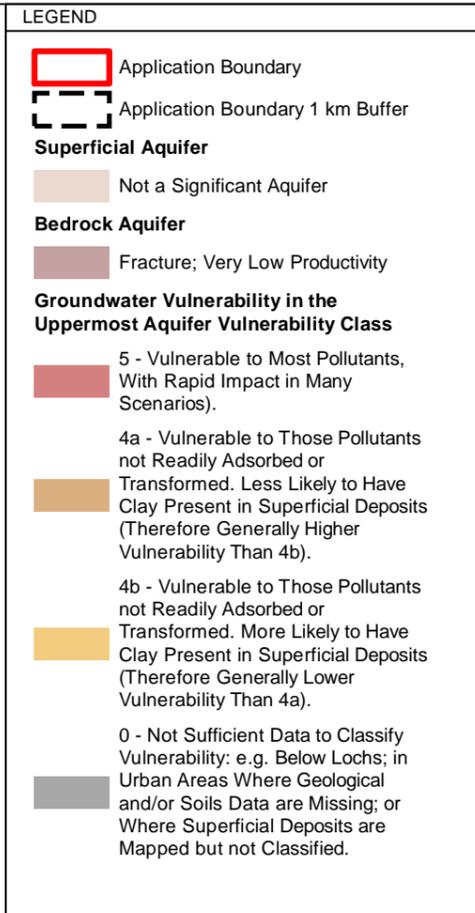
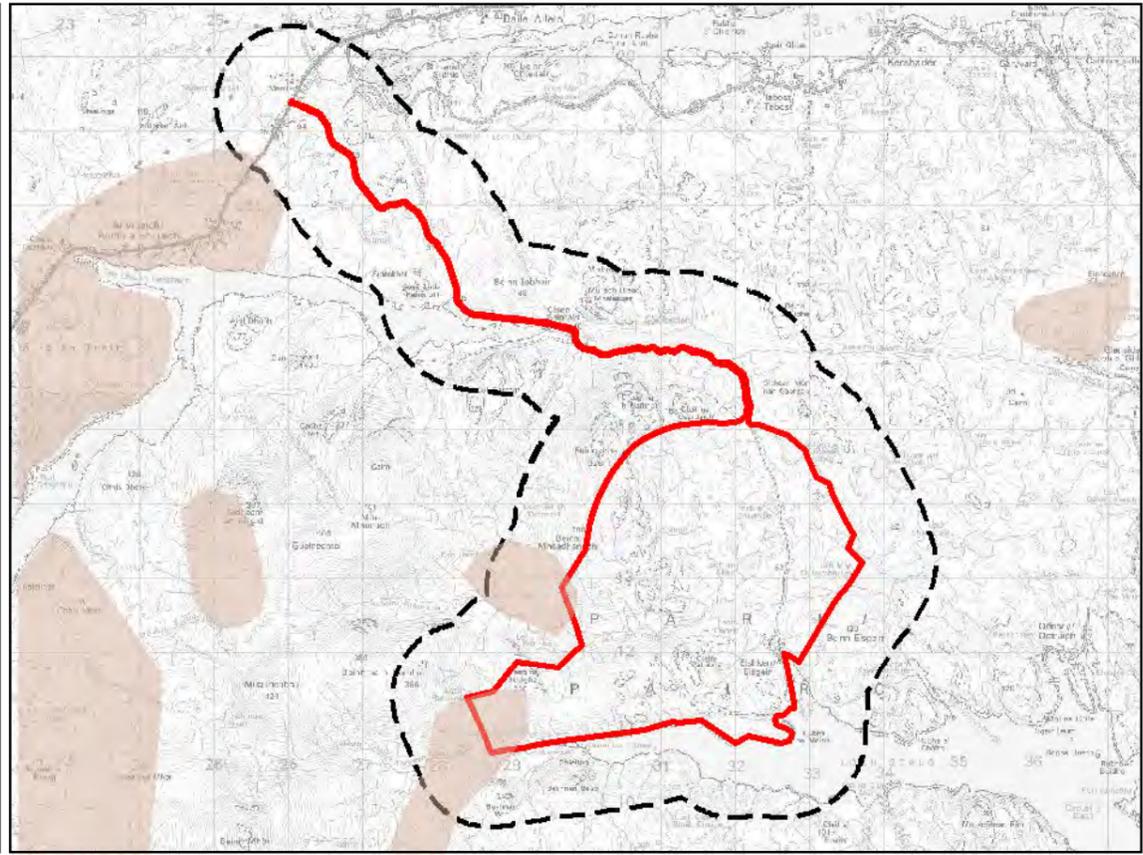
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UISENIS WIND FARM - EIA
HYDROLOGY, HYDROGEOLOGY AND GEOLOGY
BEDROCK GEOLOGY

FIGURE 10.5

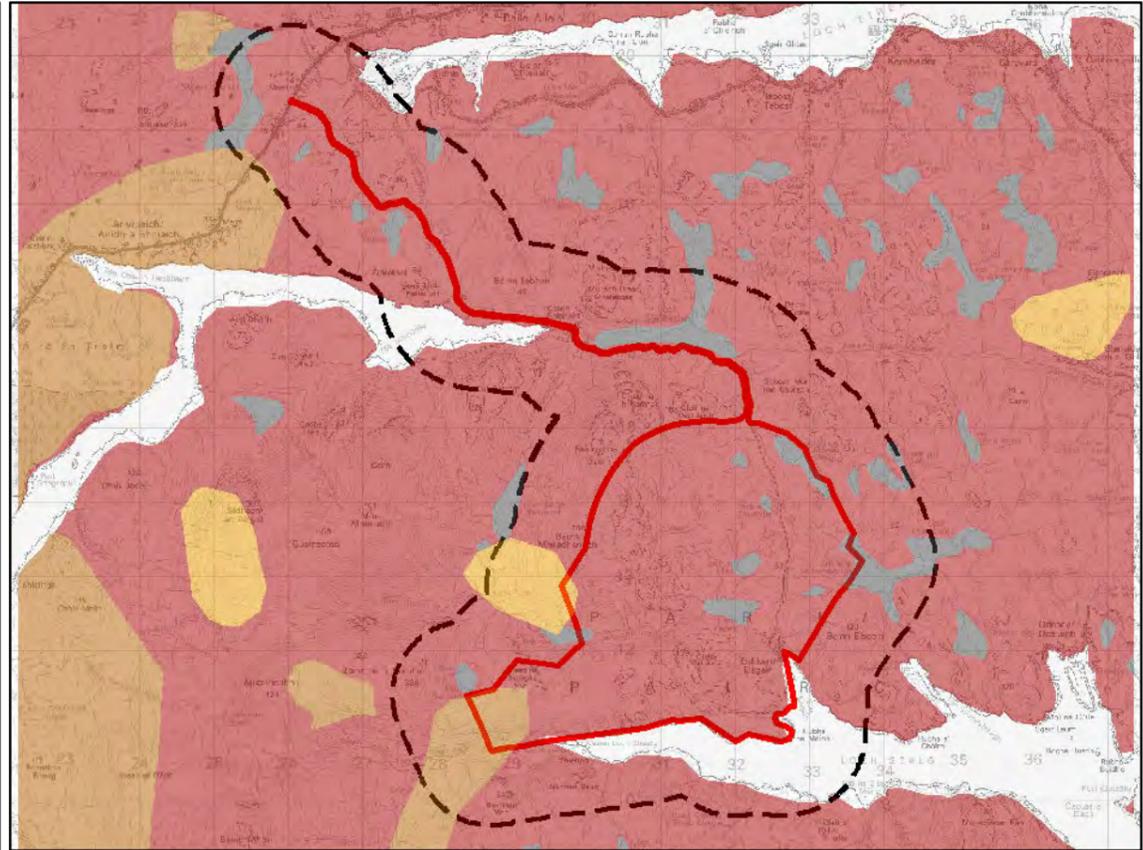
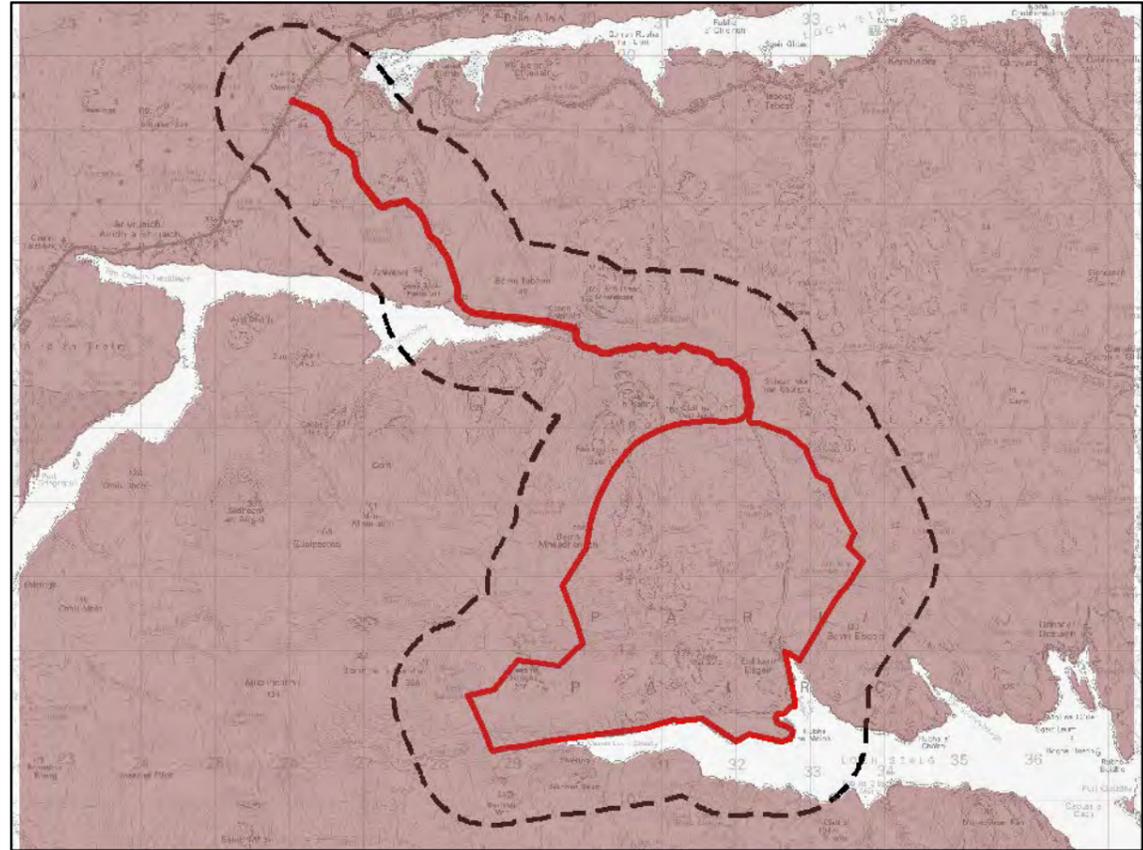
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MAP EXTRACT

Scale - 1:500,000 @ A3 SUPERFICIAL AQUIFER

Scale - 1:95,000 @ A3



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**HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY**
GROUNDWATER VULNERABILITY

FIGURE 10.6

AS SHOWN ON PLAN Date AUGUST 2023

BEDROCK AQUIFER

Scale - 1:95,000 @ A3 GROUNDWATER VULNERABILITY IN THE UPPERMOST AQUIFER

Scale - 1:95,000 @ A3

406.00004.00001.0094.0 Groundwater Vulnerability

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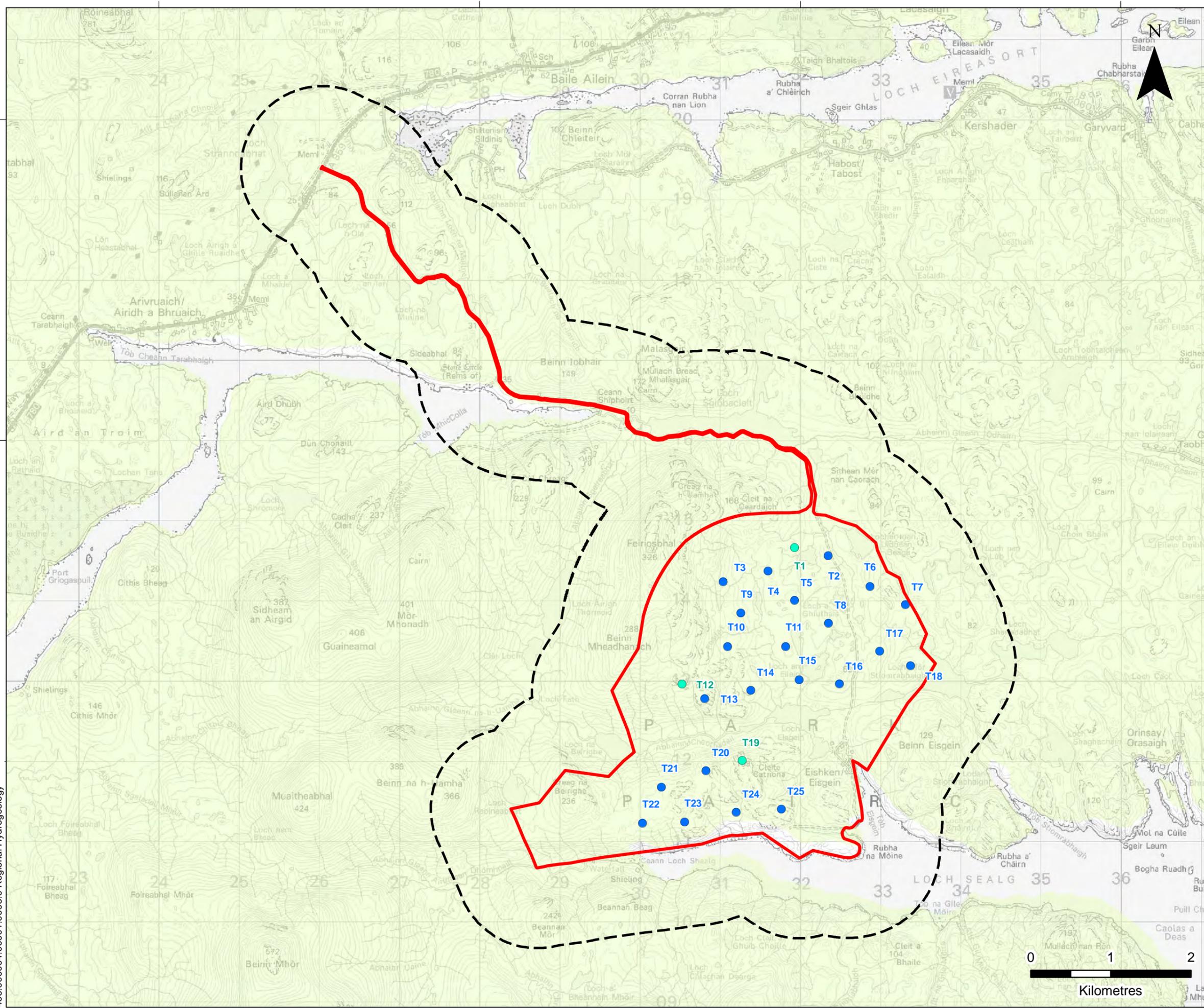
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406.000004.00001.0095.0 Regional Hydrogeology



LEGEND

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

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

- Low Productivity Aquifer



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REGIONAL HYDROGEOLOGY

FIGURE 10.7

Scale 1:45,000 @ A3

Date AUGUST 2023

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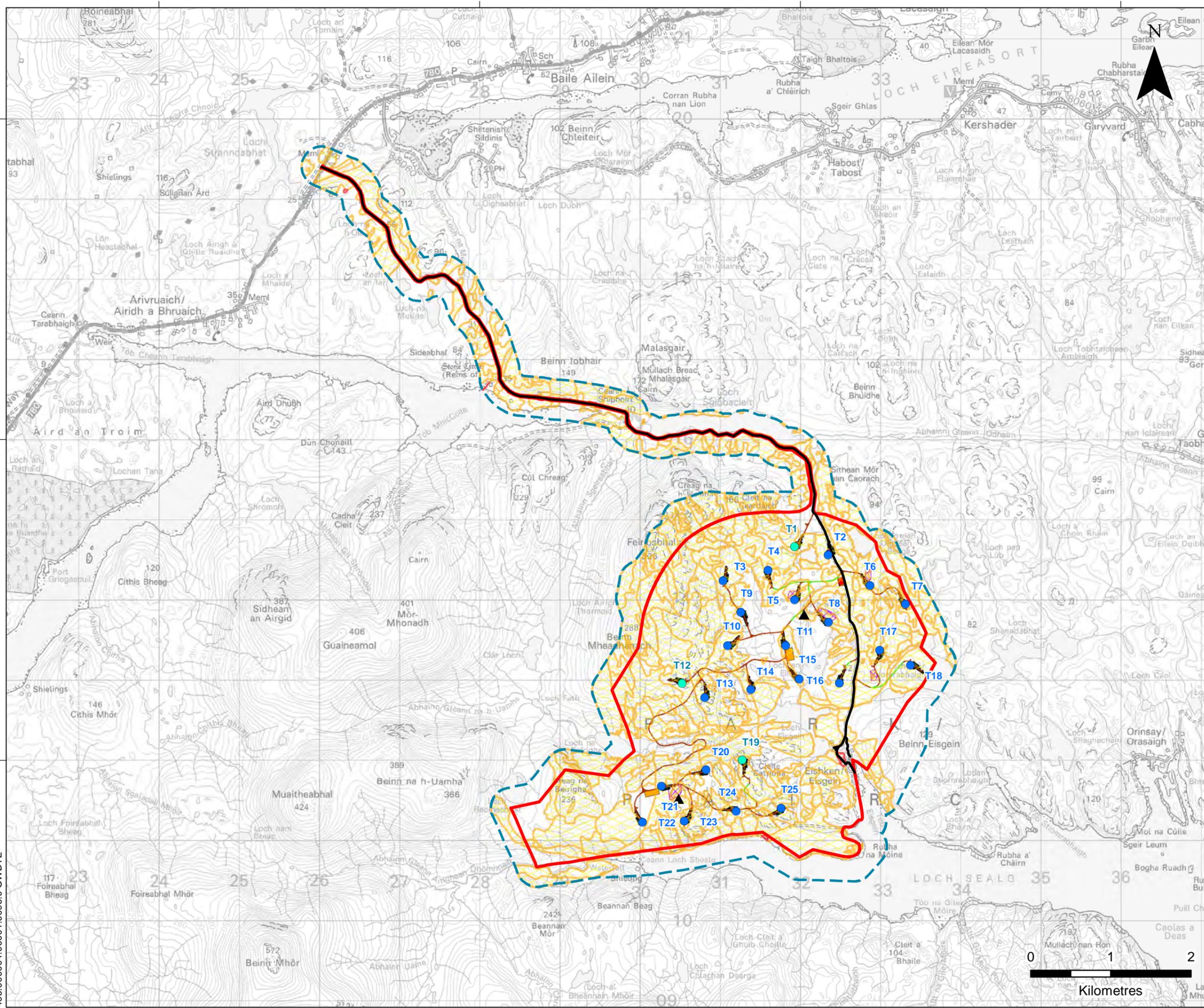
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406.00004.00001.0096.0 GWDTE

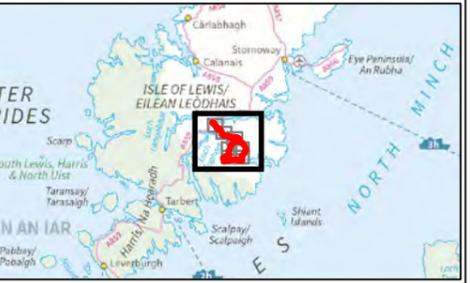


LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Survey Area (250 m Buffer)
- 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)

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- Moderate Potential

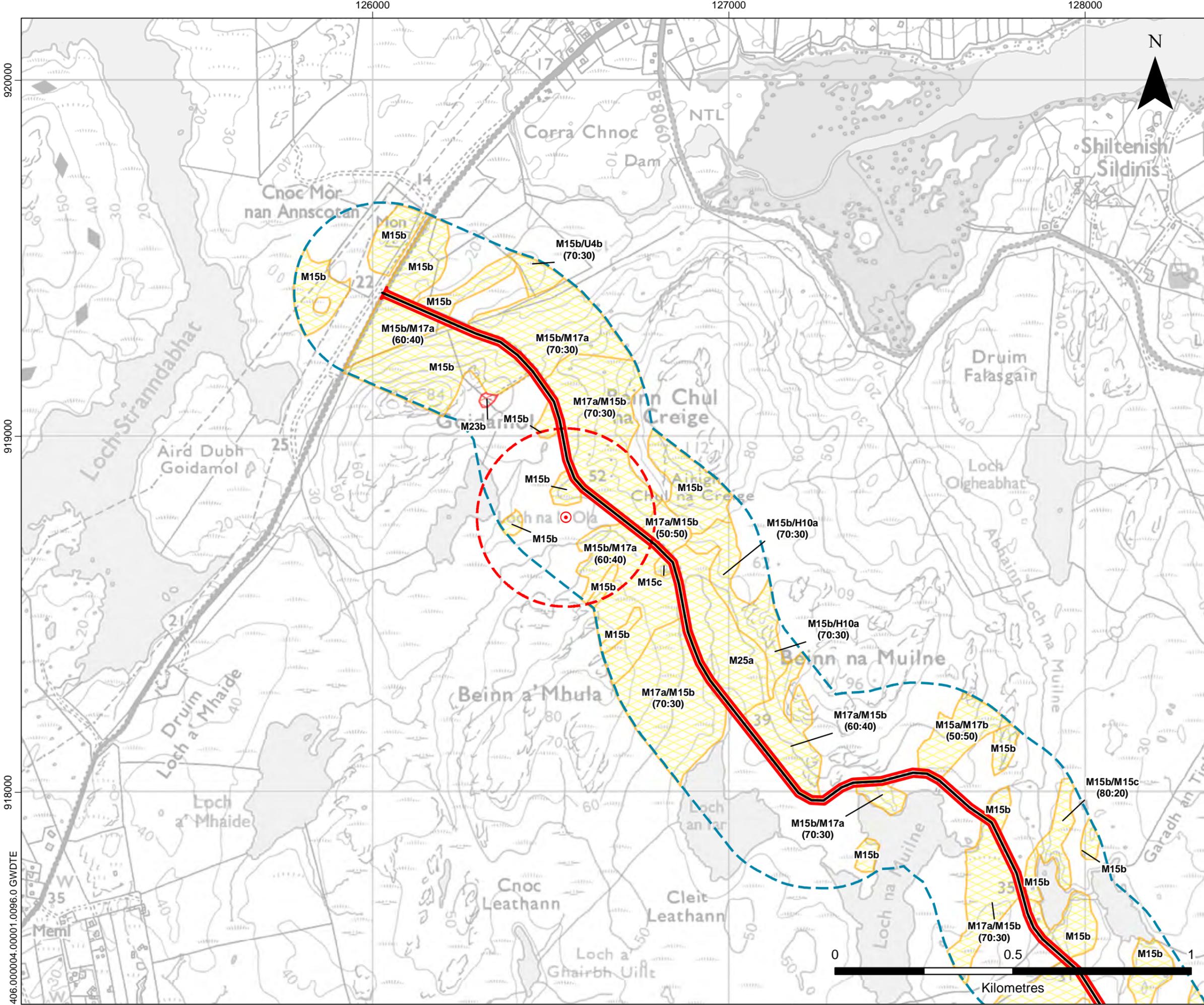


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GROUNDWATER DEPENDENT TERRESTRIAL ECOSYSTEMS

FIGURE 10.8a
Scale 1:45,000 @ A3 Date AUGUST 2023



LEGEND

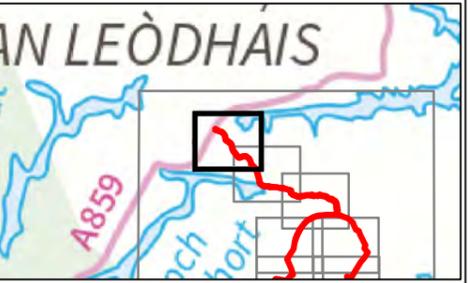
- Application Boundary
- Survey Area (250 m Buffer)
- Existing Road (To Be Upgraded)

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



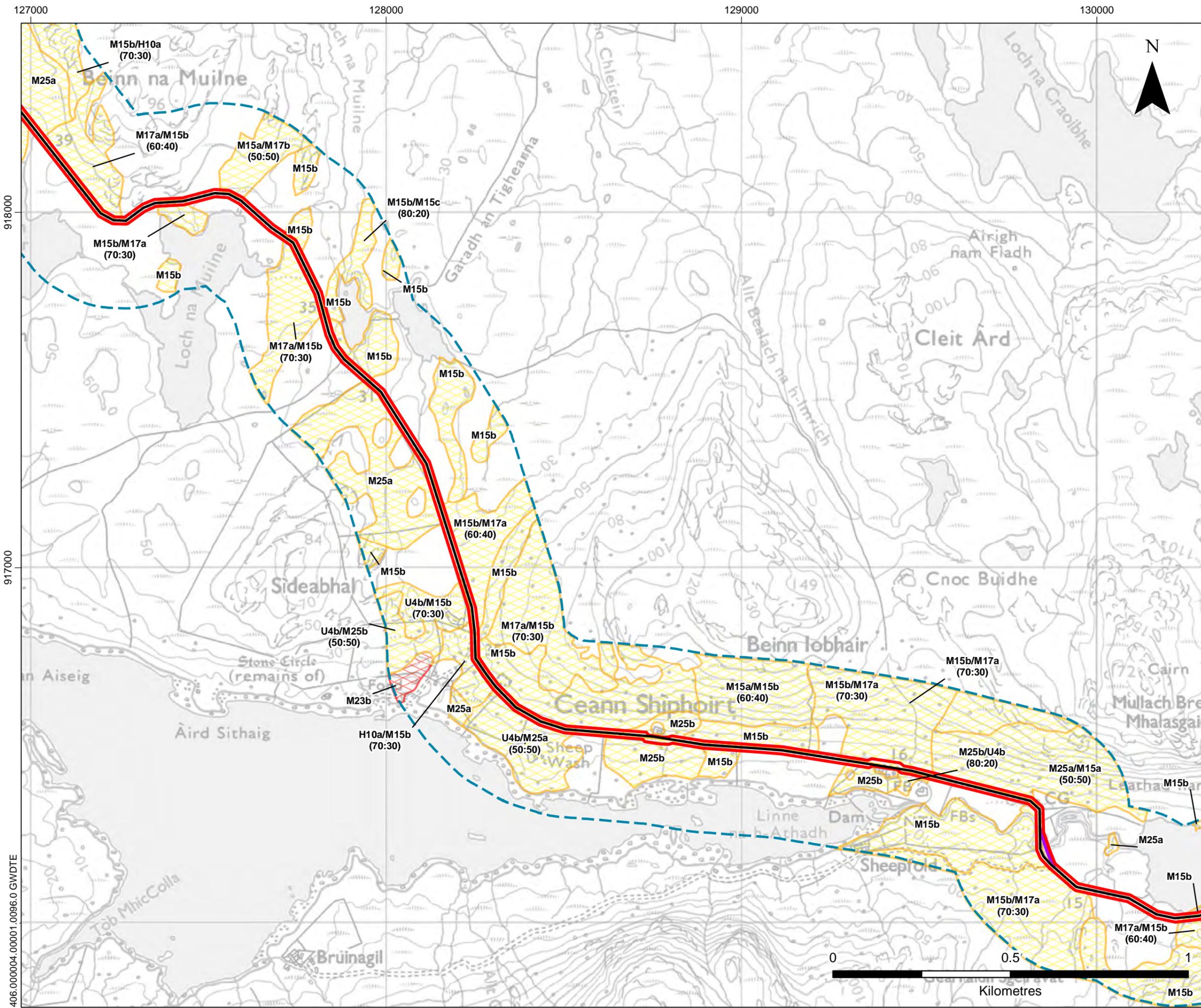
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UISENIS WIND FARM - EIA
HYDROLOGY, HYDROGEOLOGY
AND GEOLOGY
GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS

FIGURE 10.8b

Scale 1:10,000 @ A3 Date AUGUST 2023

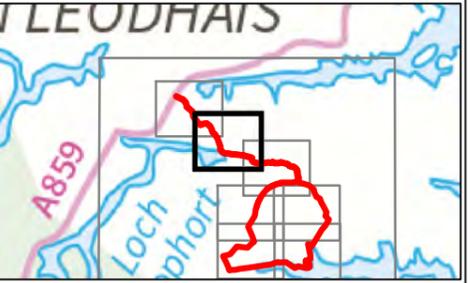


LEGEND

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

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- Moderate Potential



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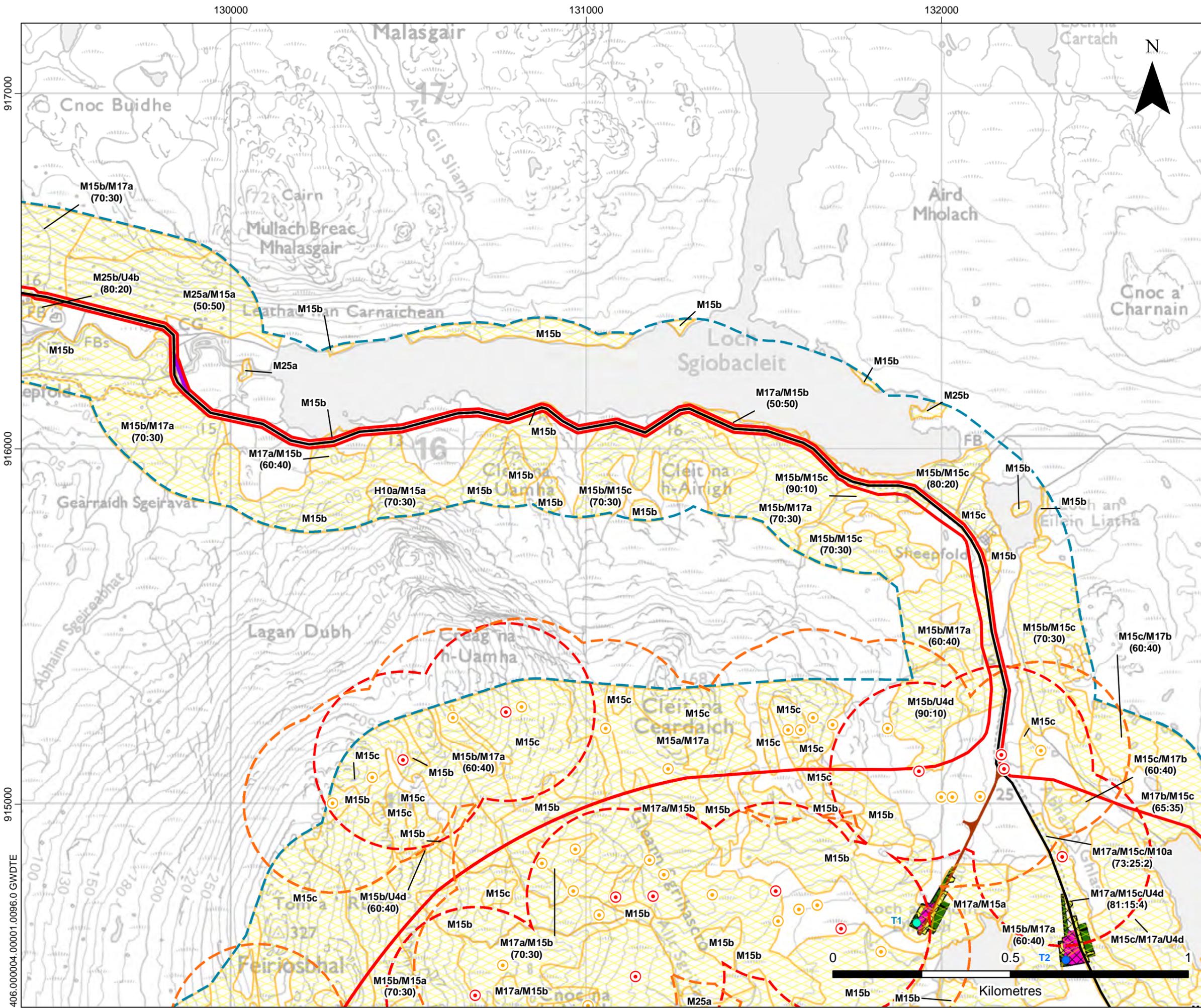
GROUNDWATER DEPENDENT
TERRESTRIAL ECOSYSTEMS

FIGURE 10.8c

Scale 1:10,000 @ A3

Date AUGUST 2023

406.00004.00001.0096.0 GWDTE



LEGEND

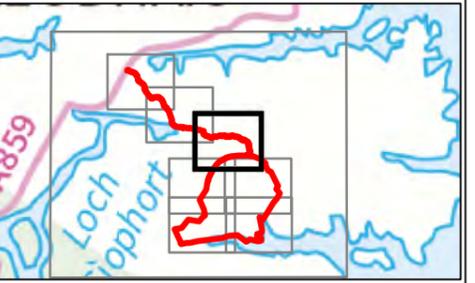
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Survey Area (250 m Buffer)
- Proposed Bespoke Hardstanding Envelope
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Temporary Bridge Alignment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

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



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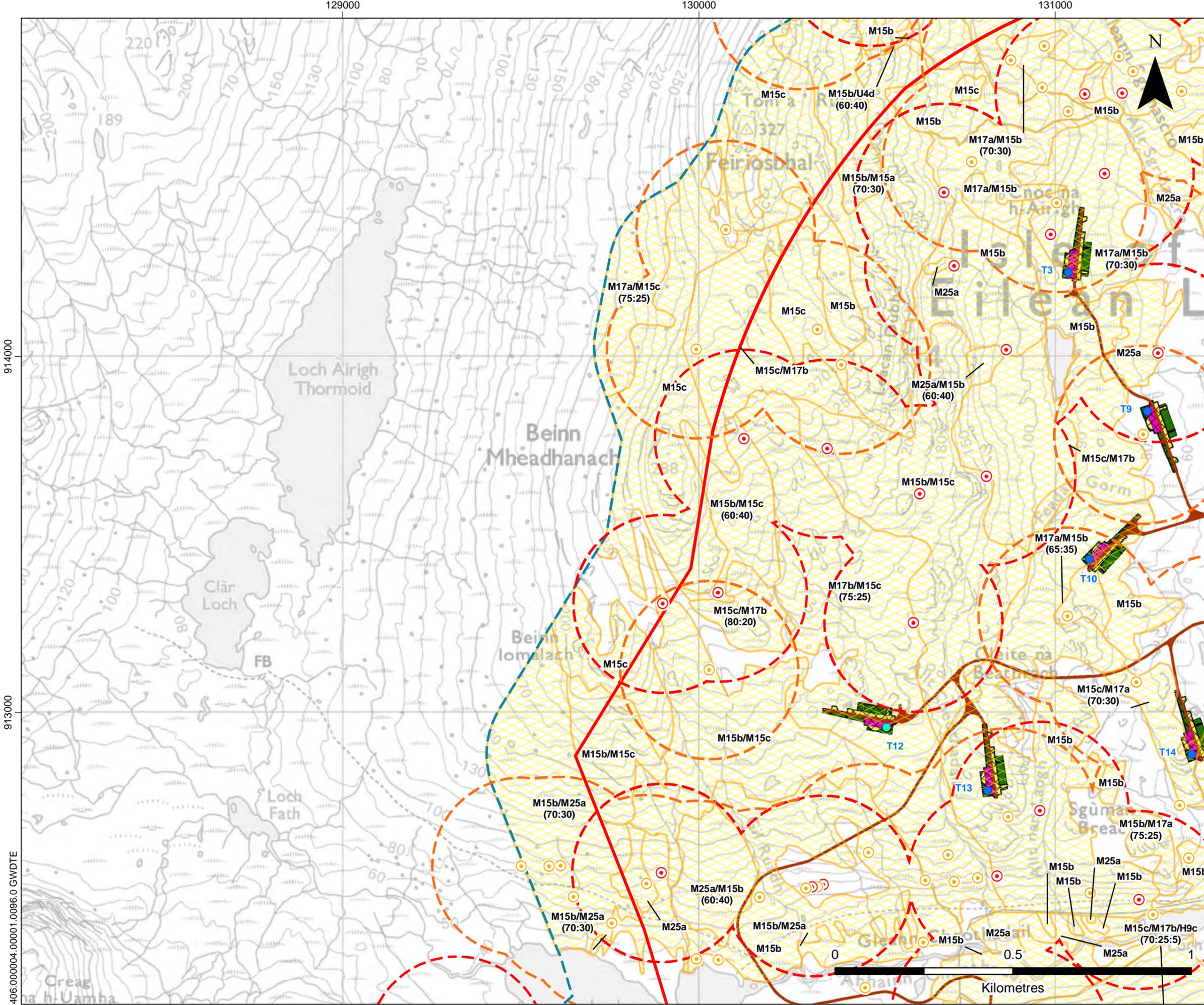
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HYDROLOGY, HYDROGEOLOGY AND GEOLOGY

GROUNDWATER DEPENDENT TERRESTRIAL ECOSYSTEMS

FIGURE 10.8d

Scale 1:10,000 @ A3 Date AUGUST 2023



LEGEND

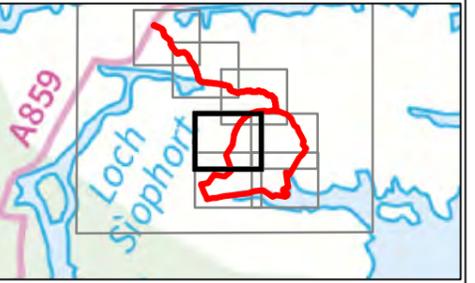
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Survey Area (250 m Buffer)
- Proposed Bespoke Hardstanding Envelope
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Clearance Area
- Proposed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

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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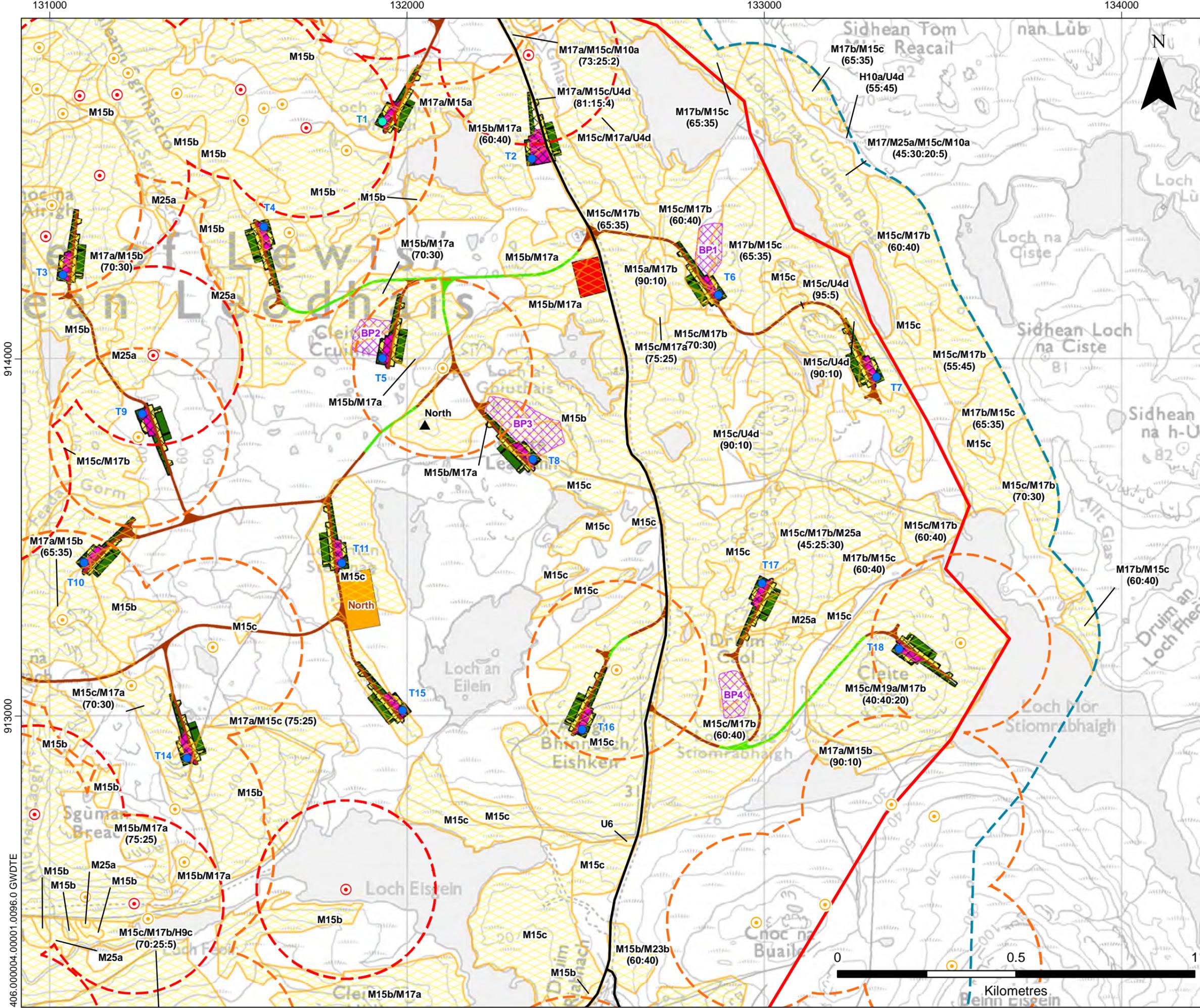
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GROUNDWATER DEPENDENT TERRESTRIAL ECOSYSTEMS

FIGURE 10.8e

Scale 1:10,000 @ A3 Date AUGUST 2023



LEGEND

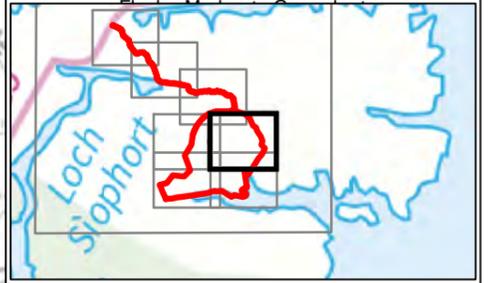
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Survey Area (250 m Buffer)
- Proposed Bespoke Hardstanding Envelope
- Proposed Permanent Substation
- Proposed Temporary Hardstanding
- Proposed 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)

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



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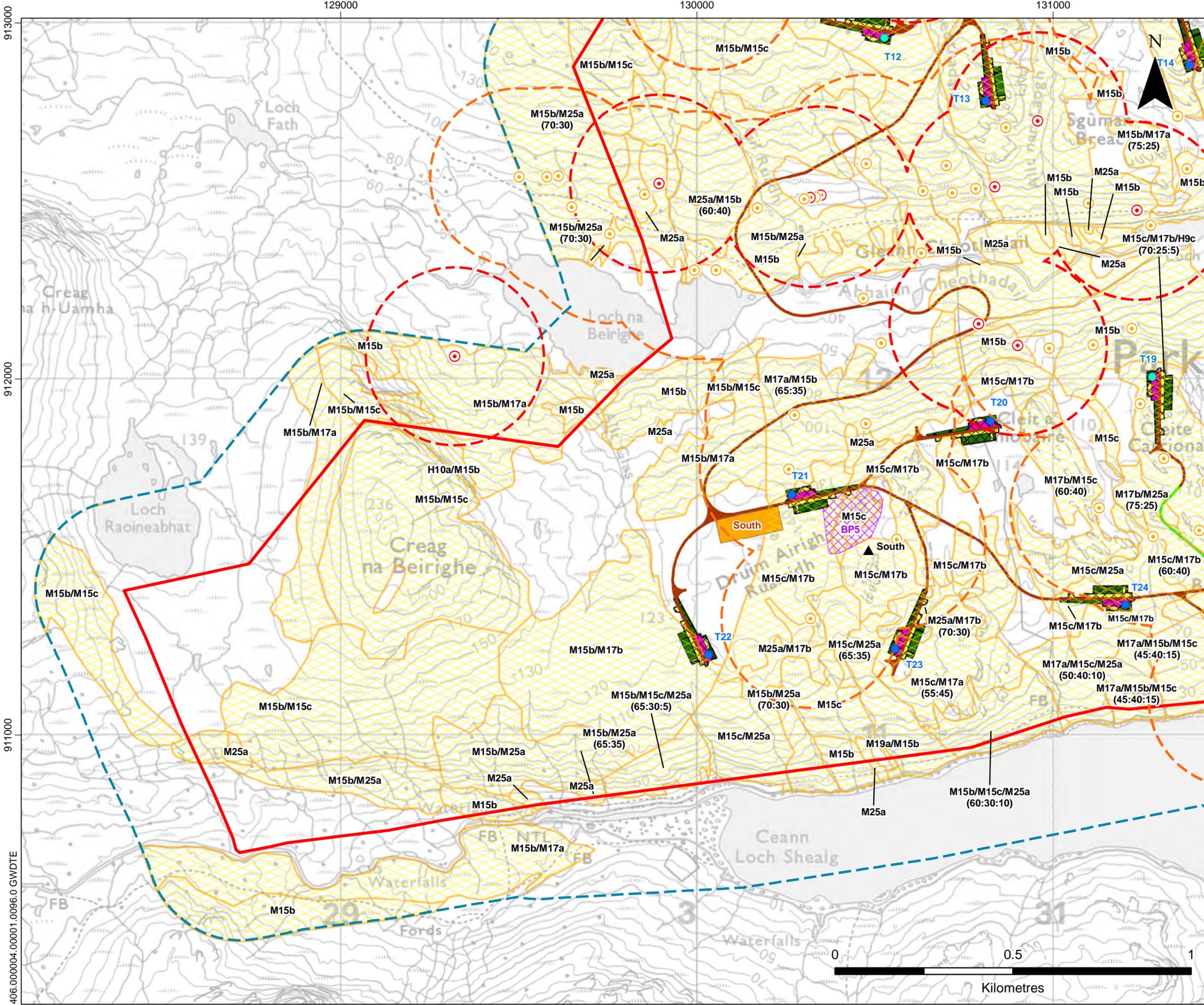
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GROUNDWATER DEPENDENT TERRESTRIAL ECOSYSTEMS

FIGURE 10.8f

Scale 1:10,000 @ A3 Date AUGUST 2023



LEGEND

- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- ▲ Proposed Permanent Met Mast
- Survey Area (250 m Buffer)
- 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

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

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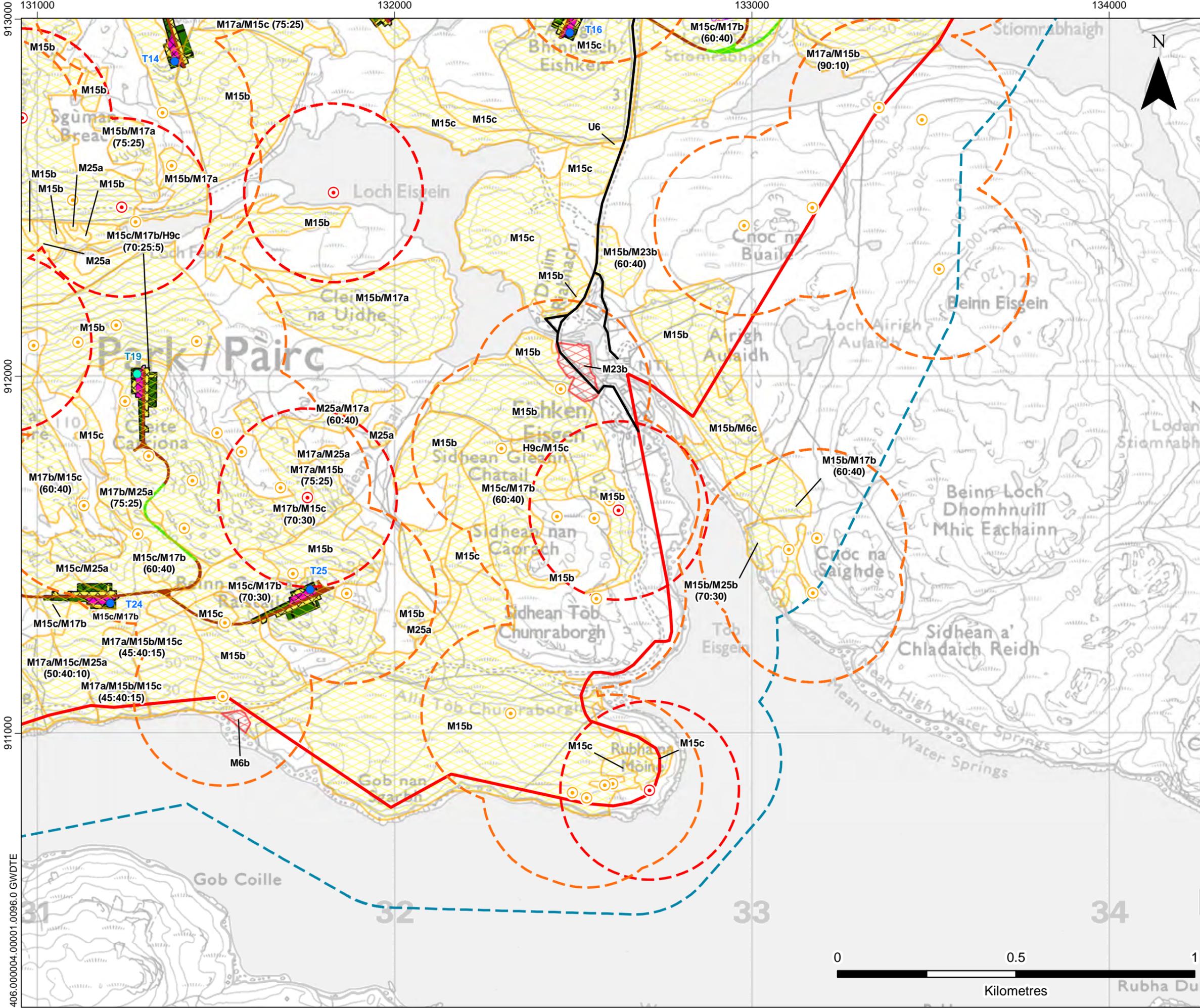
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GROUNDWATER DEPENDENT TERRESTRIAL ECOSYSTEMS

FIGURE 10.8g

Scale 1:10,000 @ A3

Date AUGUST 2023



LEGEND

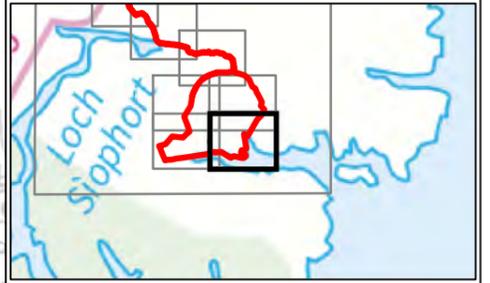
- Application Boundary
- Proposed Turbine Location (180 m Blade Tip Height)
- Proposed Turbine Location (200 m Blade Tip Height)
- Survey Area (250 m Buffer)
- Proposed Bespoke Hardstanding Envelope
- Proposed Temporary Hardstanding
- Proposed Permanent Hardstanding
- Proposed Clearance Area
- Potential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

Groundwater Dependent Terrestrial Ecosystems

- High Potential
- 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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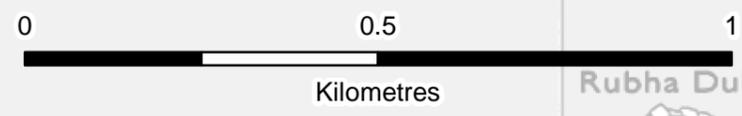


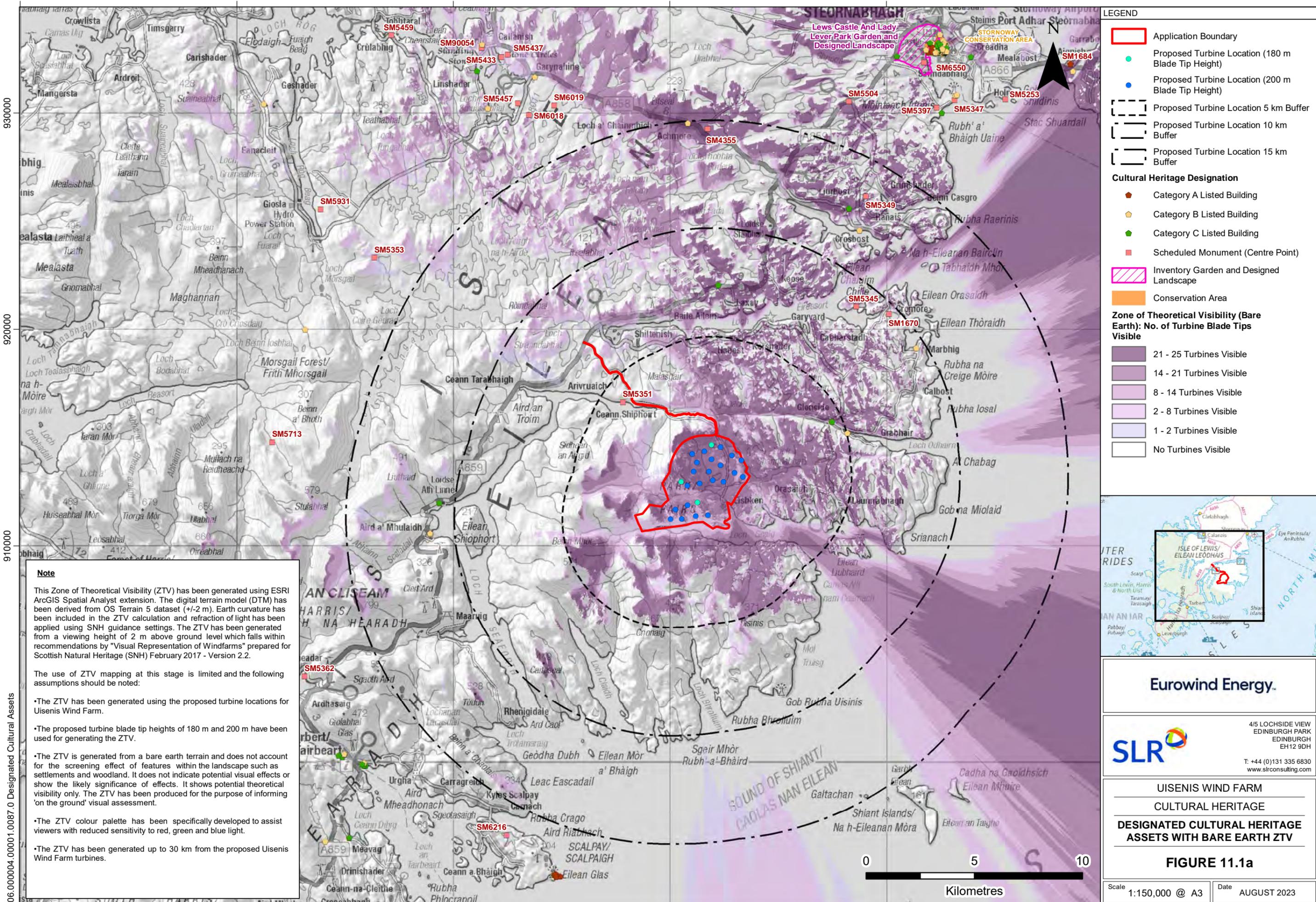
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FIGURE 10.8h

Scale 1:10,000 @ A3 Date AUGUST 2023





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

Note

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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CULTURAL HERITAGE

DESIGNATED CULTURAL HERITAGE ASSETS WITH BARE EARTH ZTV

FIGURE 11.1a

Scale 1:150,000 @ A3 Date AUGUST 2023

406.000004.00001.0087.0 Designated Cultural Assets

138000

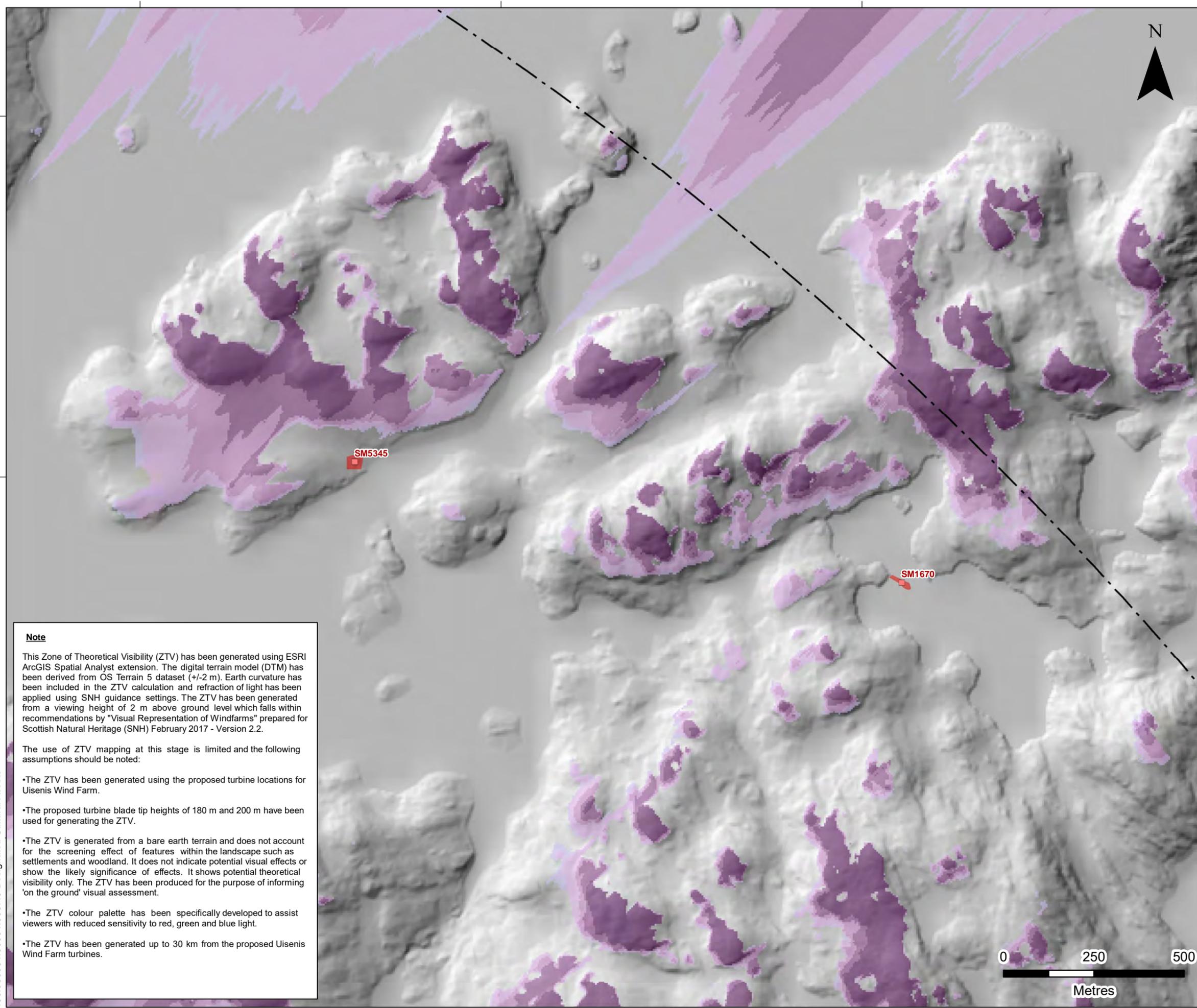
139000

140000

922000

921000

406.000004.00001.0087.0 Designated Cultural Assets



LEGEND

- 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

Note

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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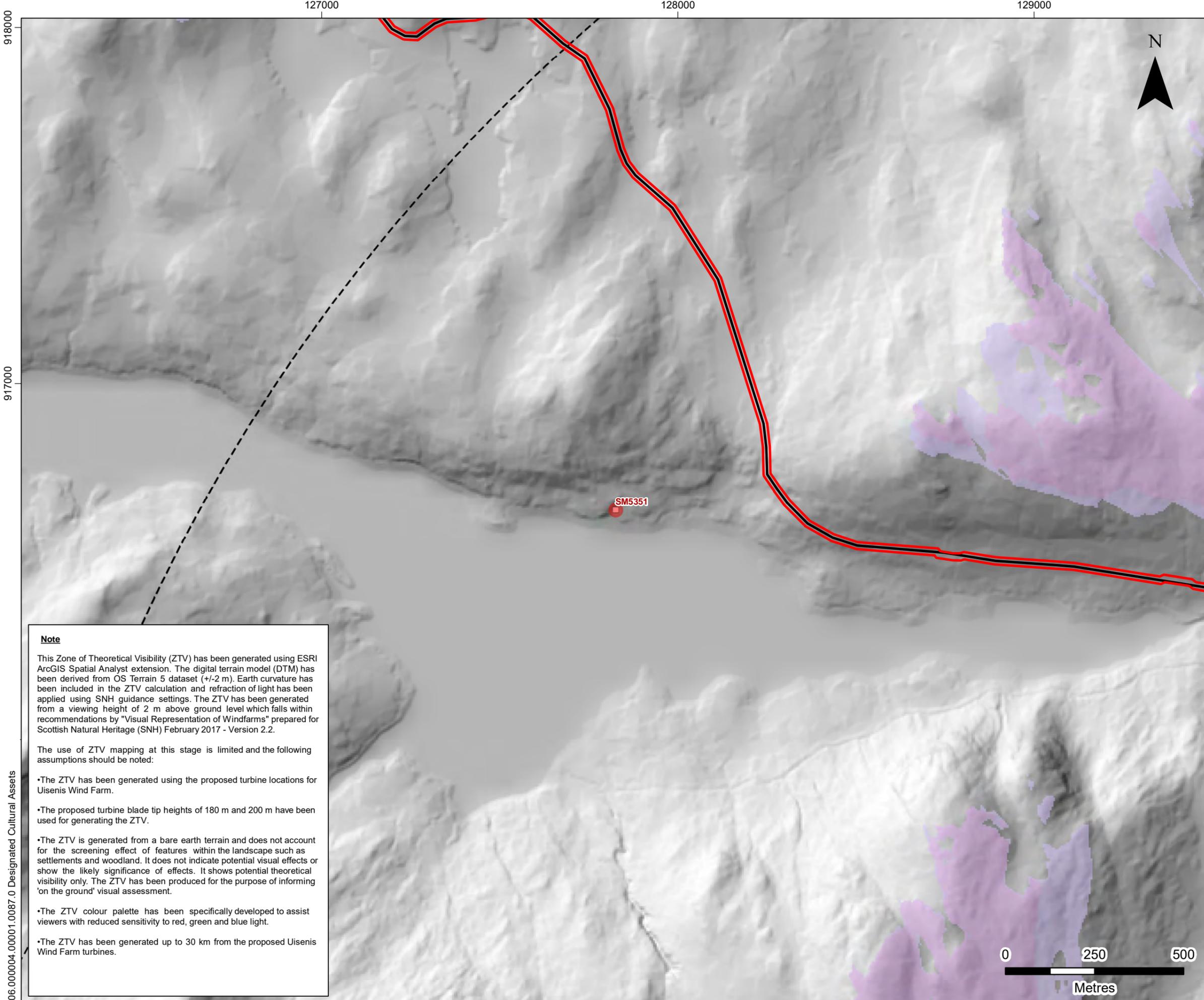
CULTURAL HERITAGE

DESIGNATED CULTURAL HERITAGE ASSETS WITH BARE EARTH ZTV

FIGURE 11.1b

Scale 1:10,000 @ A3 Date AUGUST 2023





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 Visible
- 1 - 2 Turbines Visible
- No Turbines Visible

Note

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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CULTURAL HERITAGE

DESIGNATED CULTURAL HERITAGE ASSETS WITH BARE EARTH ZTV

FIGURE 11.1c

Scale 1:10,000 @ A3

Date AUGUST 2023



406.000004.00001.0087.0 Designated Cultural Assets

120000

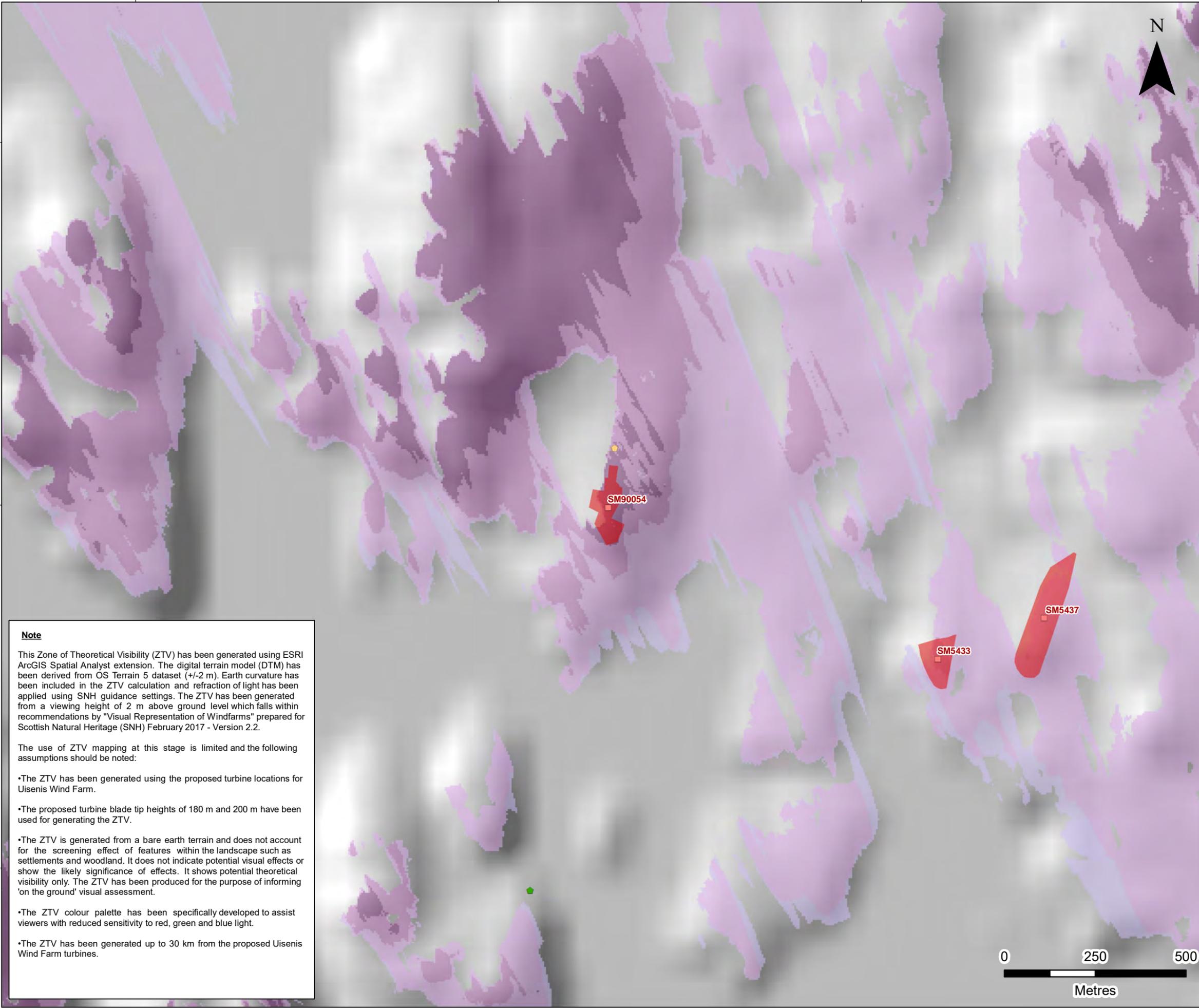
121000

122000

934000

933000

406.000004.00001.0087.0 Designated Cultural Assets



LEGEND

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

Note

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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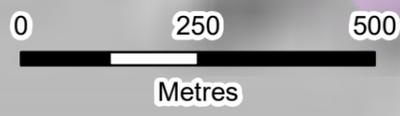
UISENIS WIND FARM

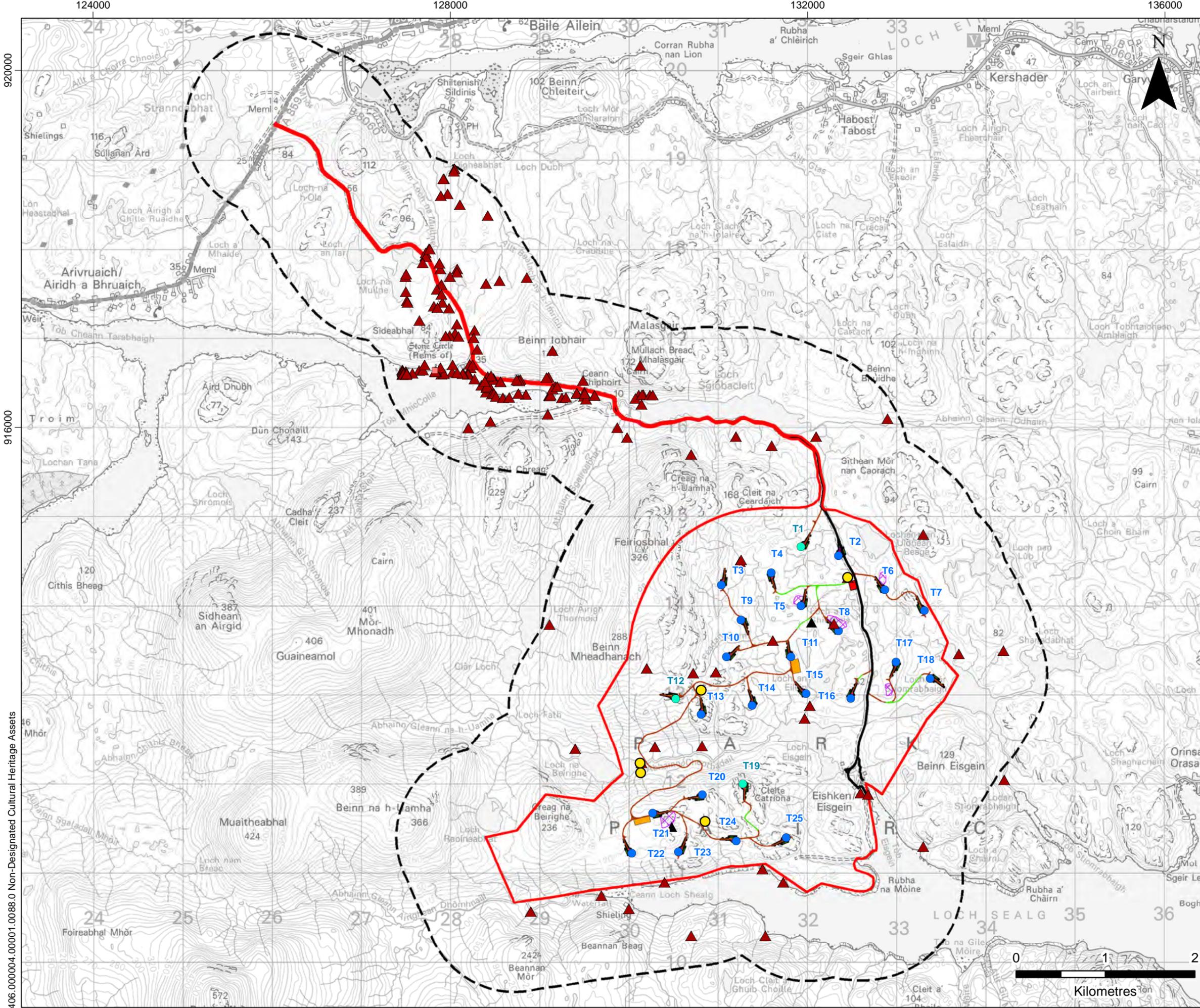
CULTURAL HERITAGE

DESIGNATED CULTURAL HERITAGE ASSETS WITH BARE EARTH ZTV

FIGURE 11.1d

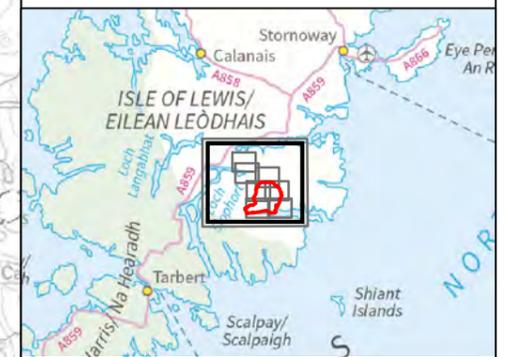
Scale 1:10,000 @ A3 Date AUGUST 2023





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
- Proposed Temporary Bridge Alignment
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track/ Turning Head
- Proposed Floating Access
- Existing Road (To Be Upgraded)
- ▲ Non-Designated Cultural Heritage
- Scheduled Monument (Centre Point)
- Scheduled Monument



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UISENIS WIND FARM - EIA

CULTURAL HERITAGE

NON-DESIGNATED CULTURAL HERITAGE ASSETS

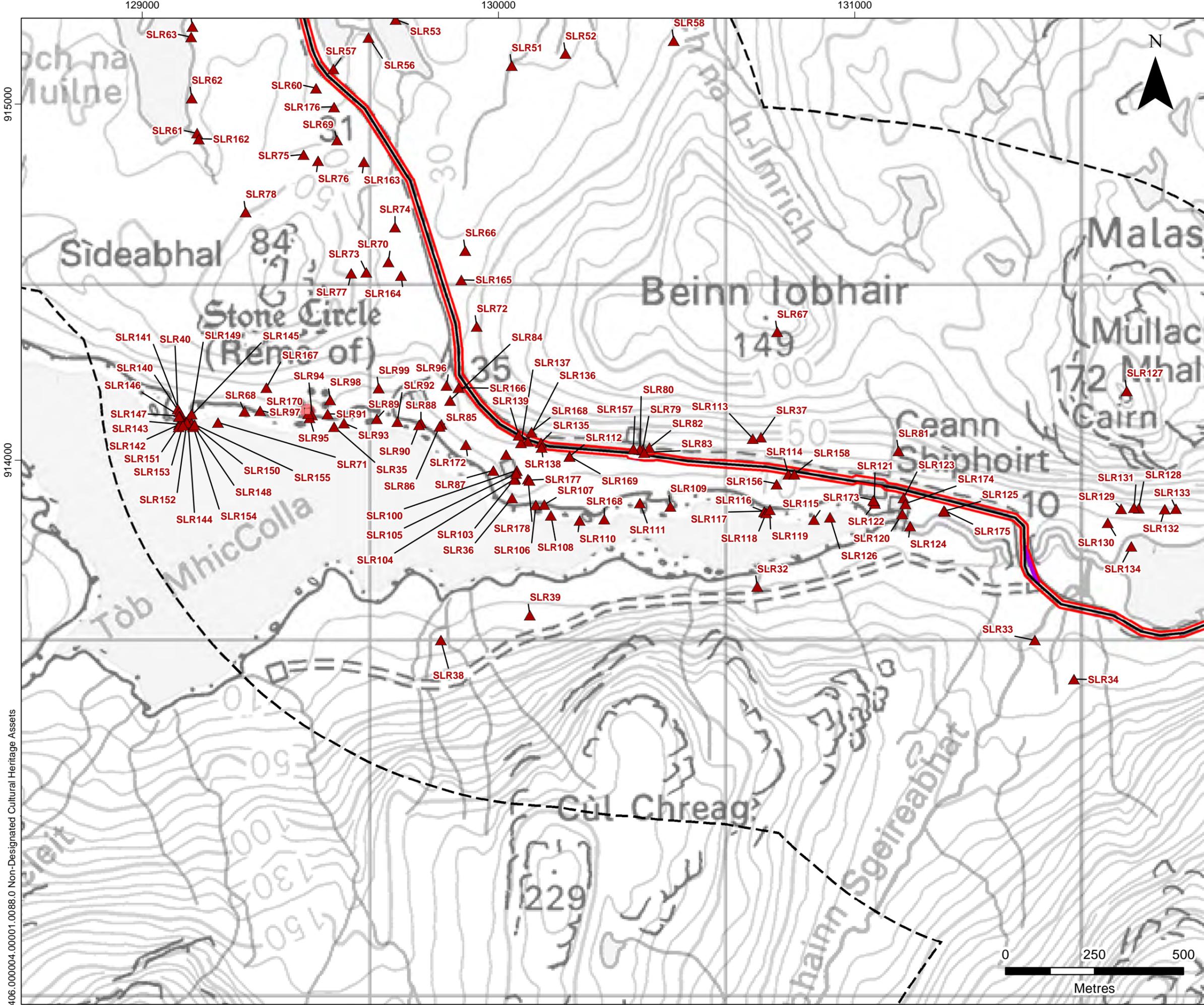
FIGURE 11.2a

Scale 1:40,000 @ A3 Date AUGUST 2023

406.000004.00001.0088.0 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
- Scheduled Monument (Centre Point)
- Scheduled Monument



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CULTURAL HERITAGE

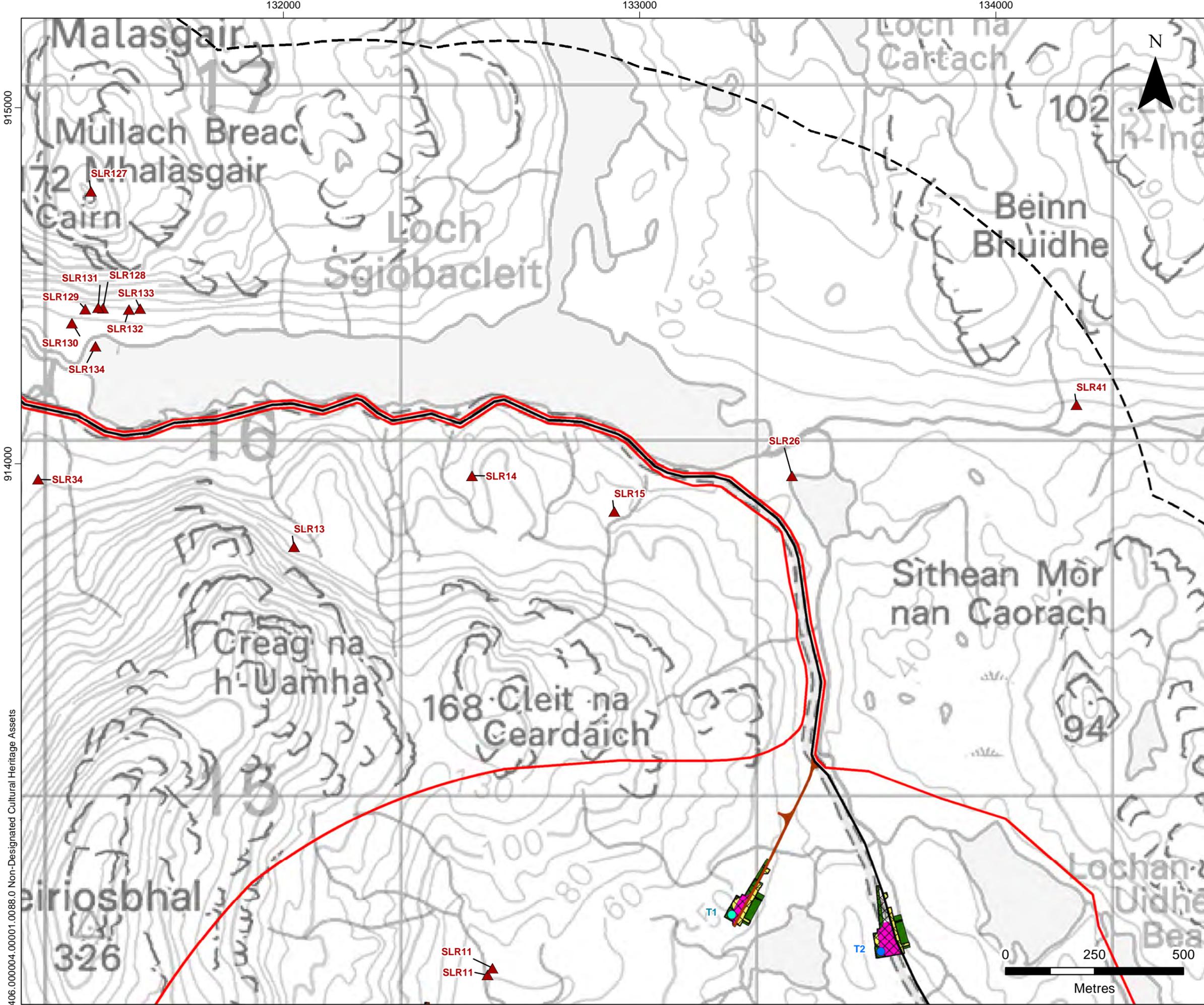
NON-DESIGNATED CULTURAL HERITAGE ASSETS

FIGURE 11.2c

Scale 1:10,000 @ A3

Date AUGUST 2023

406.000004.00001.0088.0 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
- Existing Road (To Be Upgraded)
- ▲ Non-Designated Cultural Heritage



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FIGURE 11.2d

Scale 1:10,000 @ A3 Date AUGUST 2023

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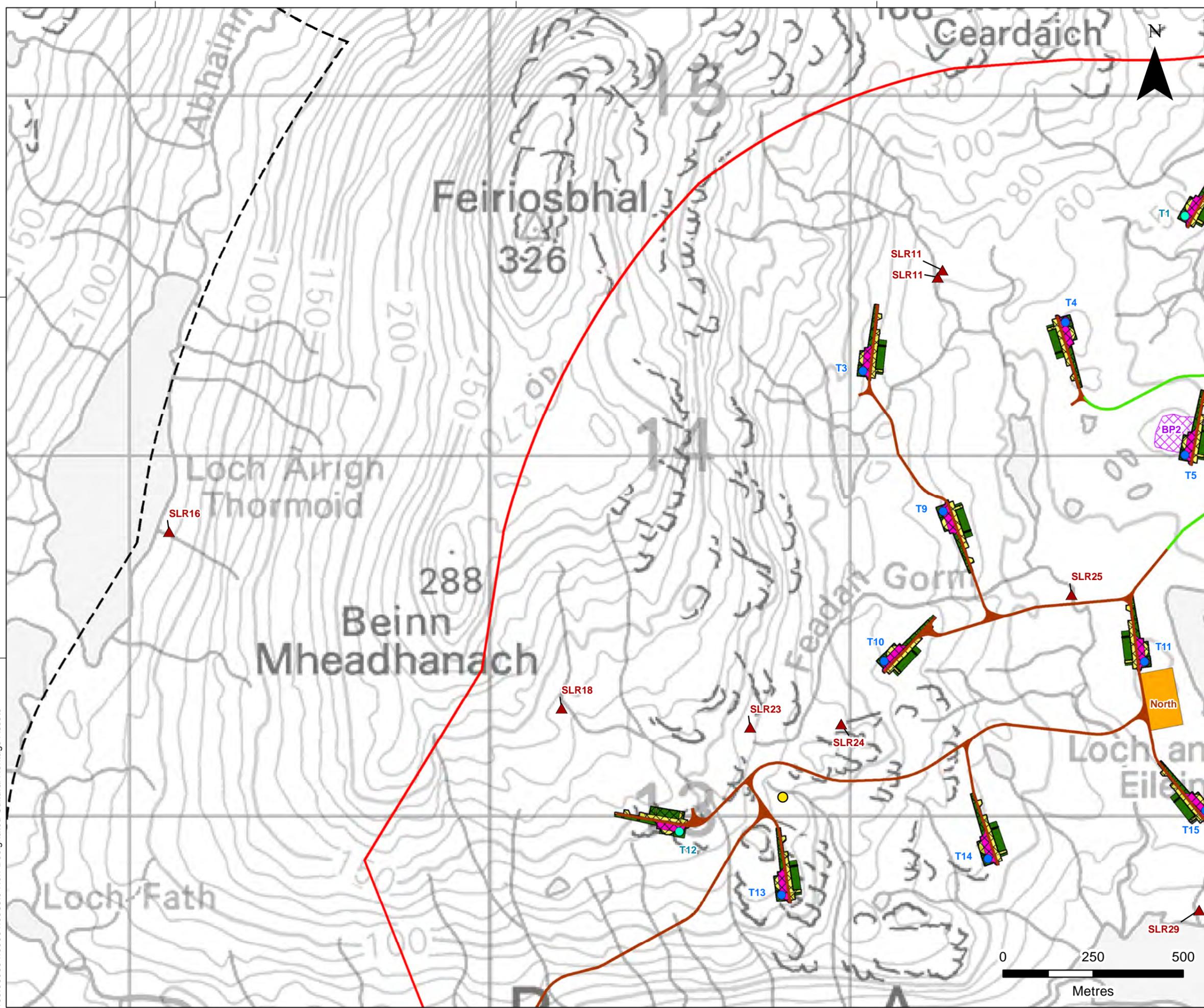
130000

131000

912000

911000

406.000004-.00001.0088.0 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
- Proposed Temporary
- Proposed Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track/ Turning Head
- Proposed Floating Access
- ▲ Non-Designated Cultural Heritage



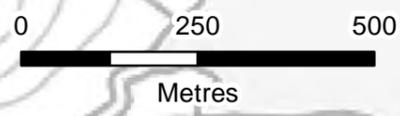
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CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

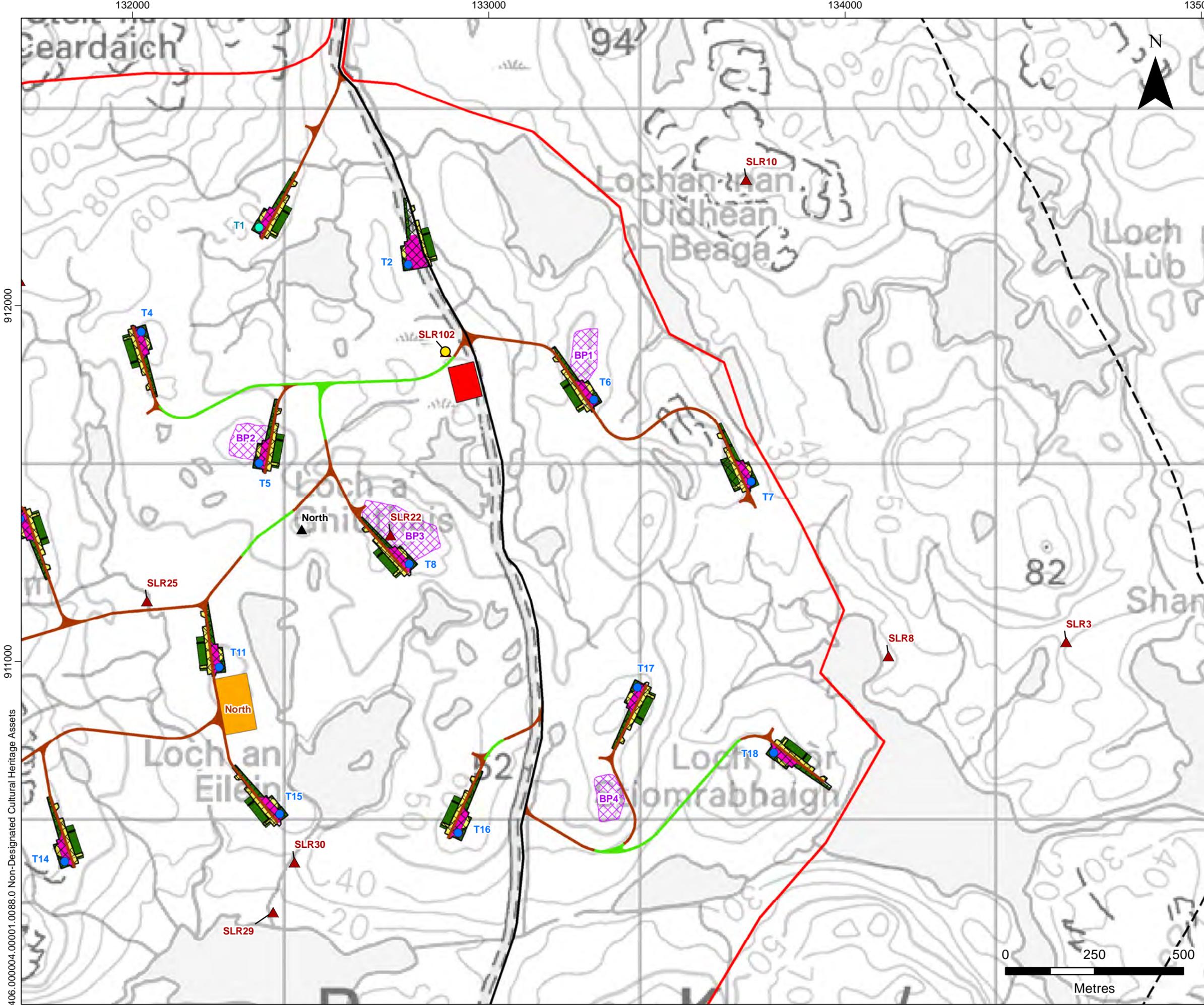
FIGURE 11.2e

Scale 1:10,000 @ A3 Date AUGUST 2023



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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)
- ▲ Non-Designated Cultural Heritage Asset



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UISENIS WIND FARM - EIA

CULTURAL HERITAGE

NON-DESIGNATED CULTURAL HERITAGE ASSETS

FIGURE 11.2f

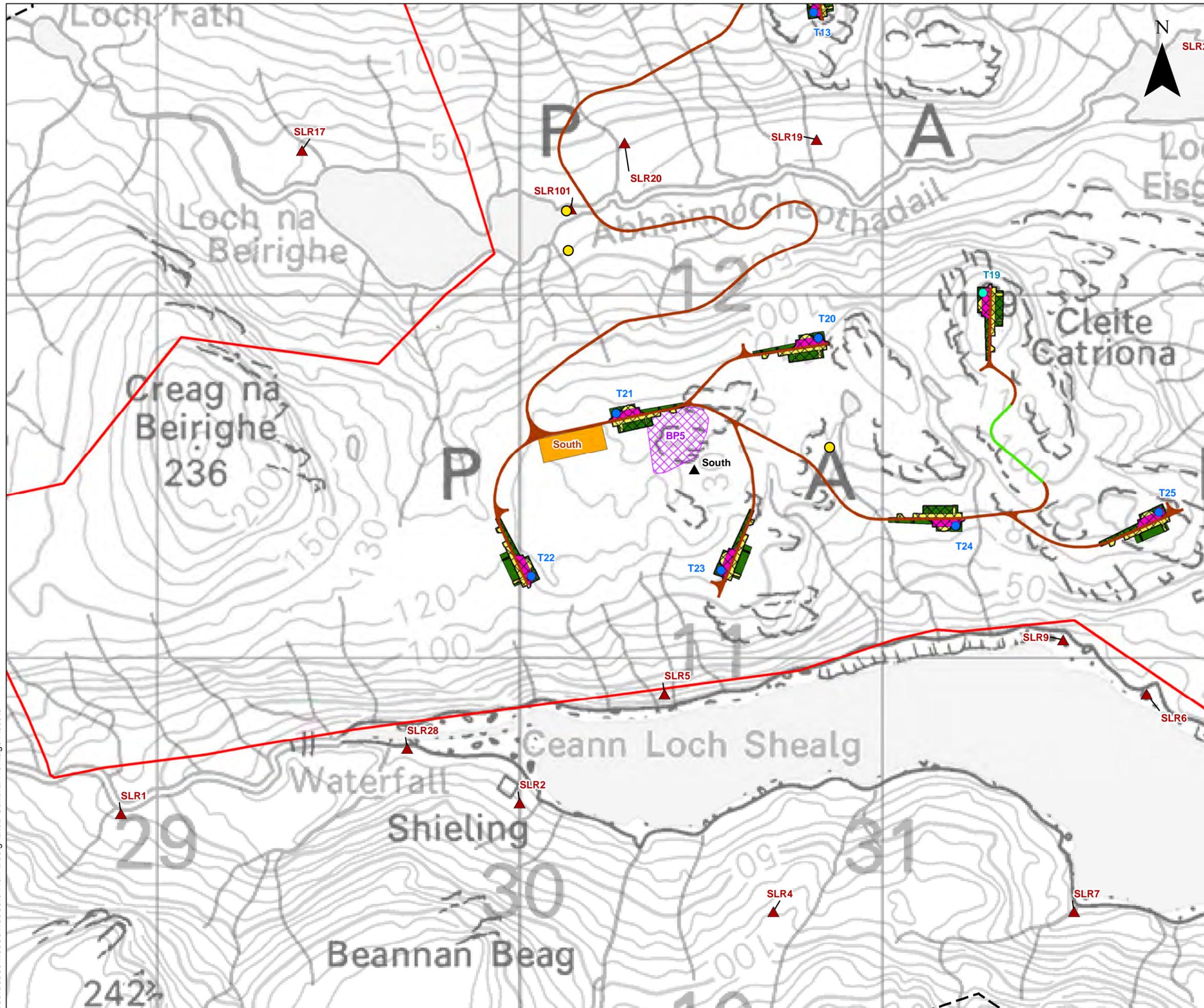
Scale 1:10,000 @ A3

Date AUGUST 2023

406.000004.00001.0088.0 Non-Designated Cultural Heritage Assets

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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 Temporary Construction Compound
- Proposed Clearance Area
- Potential Borrow Pit
- Proposed Access Track/ Turning Head
- Proposed Floating Access Track
- ▲ Non-Designated Cultural Heritage Asset



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CULTURAL HERITAGE

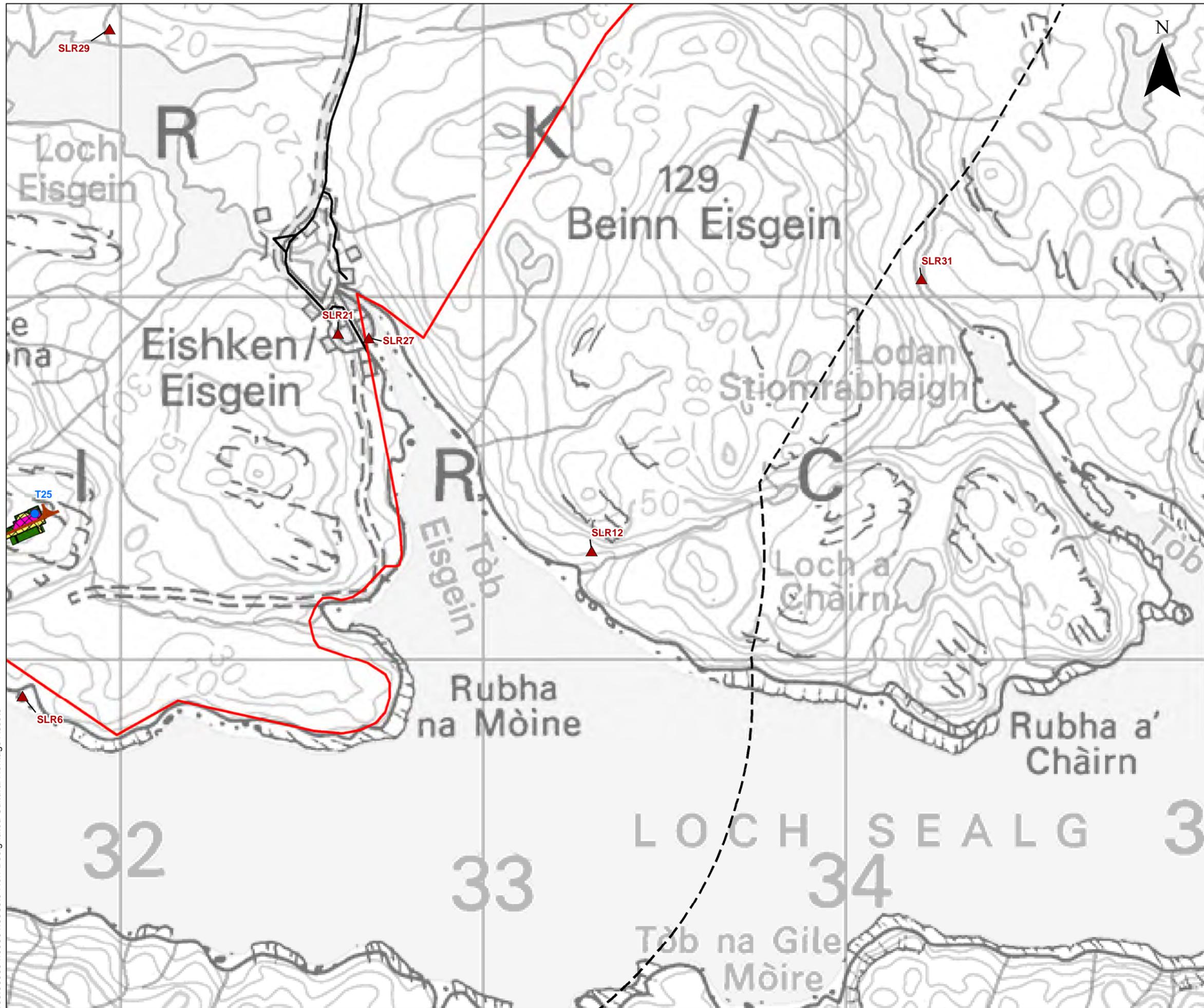
NON-DESIGNATED CULTURAL HERITAGE ASSETS

FIGURE 11.2g

Scale 1:10,000 @ A3

Date AUGUST 2023

406.000004.00001.0088.0 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



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CULTURAL HERITAGE
NON-DESIGNATED CULTURAL HERITAGE ASSETS

FIGURE 11.2h

Scale 1:10,000 @ A3 Date AUGUST 2023

406.000004.00001.0088.0 Non-Designated Cultural Heritage Assets

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110000

120000

130000

140000

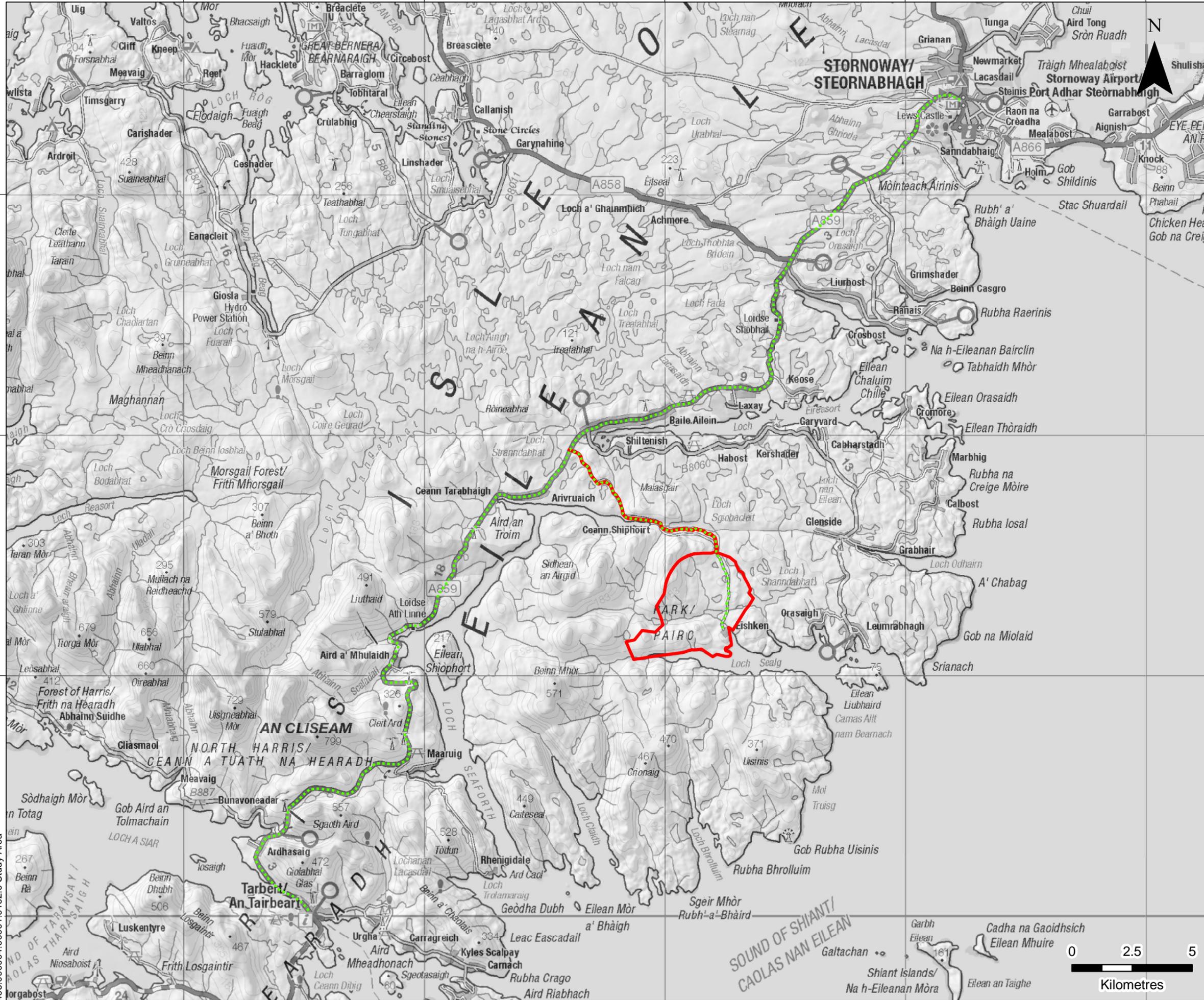
150000

930000

920000

910000

406.00004.00001.0162.0 Study Area



LEGEND

- Application Boundary
- Study Area Route Section



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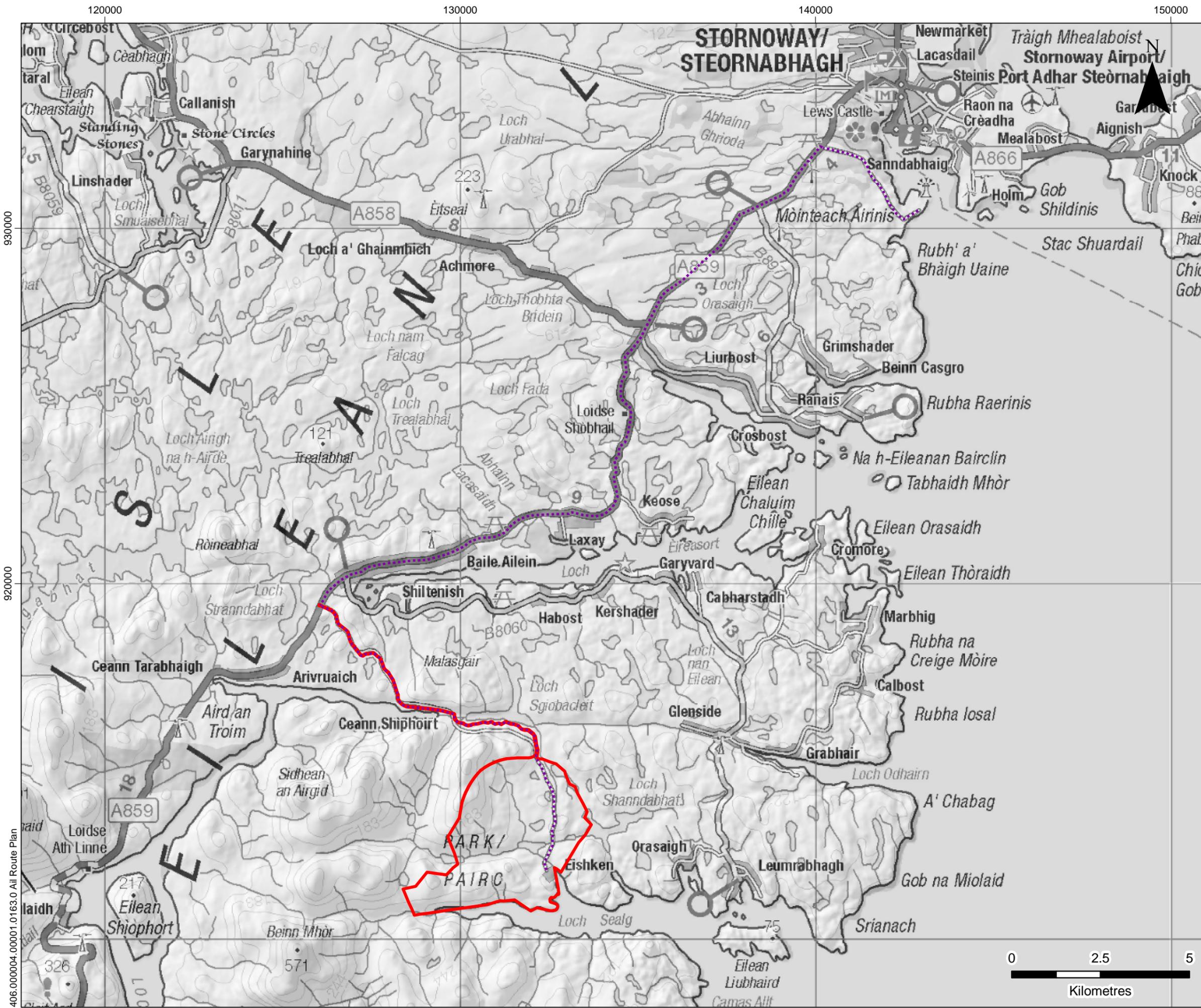
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SITE ACCESS, TRAFFIC AND TRANSPORT

STUDY AREA

FIGURE 12.1

Scale: 1:150,000 @ A3 Date: AUGUST 2023



LEGEND

- Application Boundary
- Abnormal Indivisible Load Route

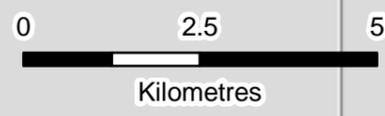


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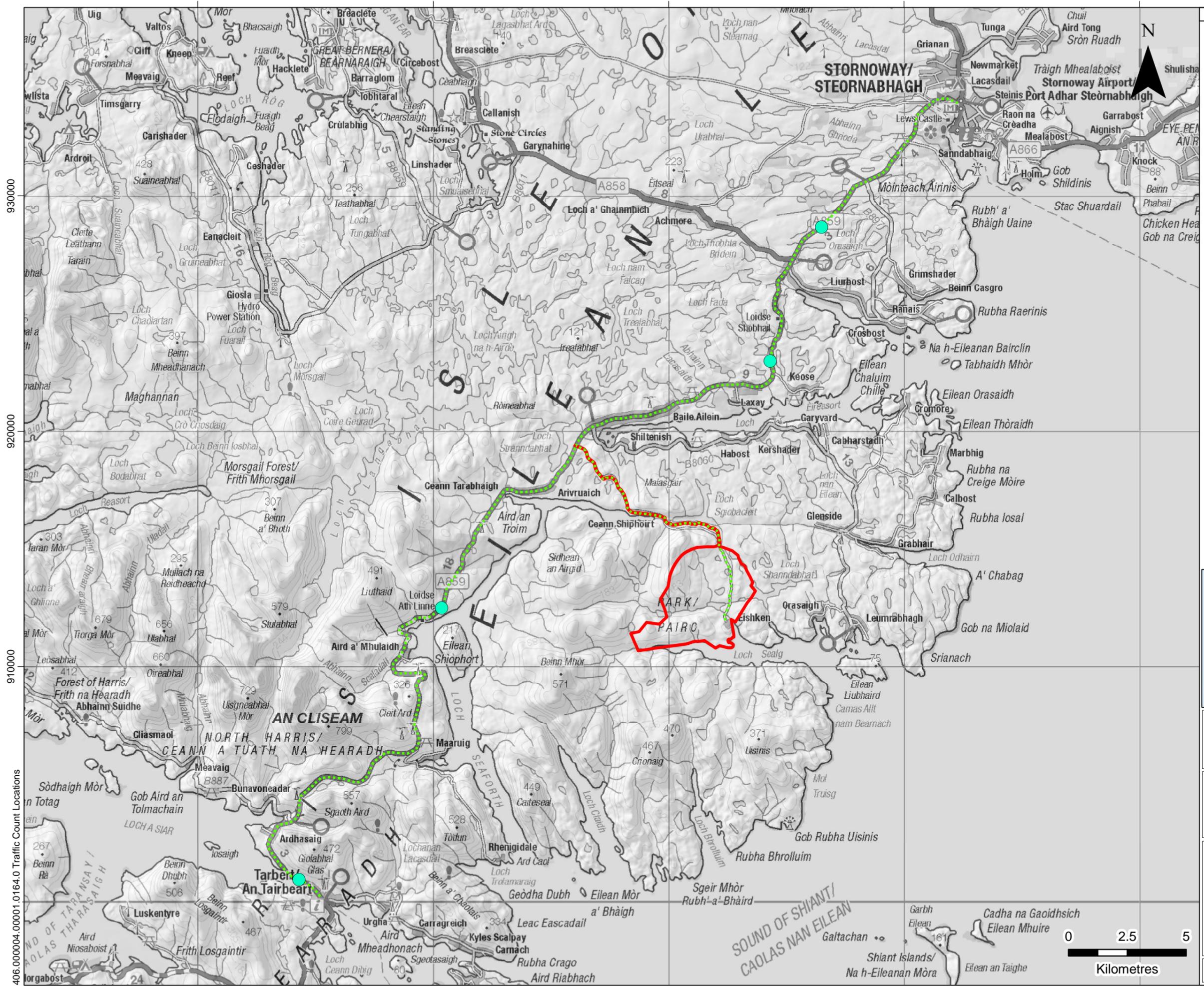
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 SITE ACCESS, TRAFFIC
 AND TRANSPORT
 AIL ROUTE PLAN

FIGURE 12.2
 Scale 1:100,000 @ A3 Date AUGUST 2023



406.00004.00001.0163.0 Ail Route Plan

110000 120000 130000 140000 150000



LEGEND

- Application Boundary
- Study Area Route Section
- Traffic Count Location



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SITE ACCESS, TRAFFIC AND TRANSPORT

TRAFFIC COUNT LOCATIONS

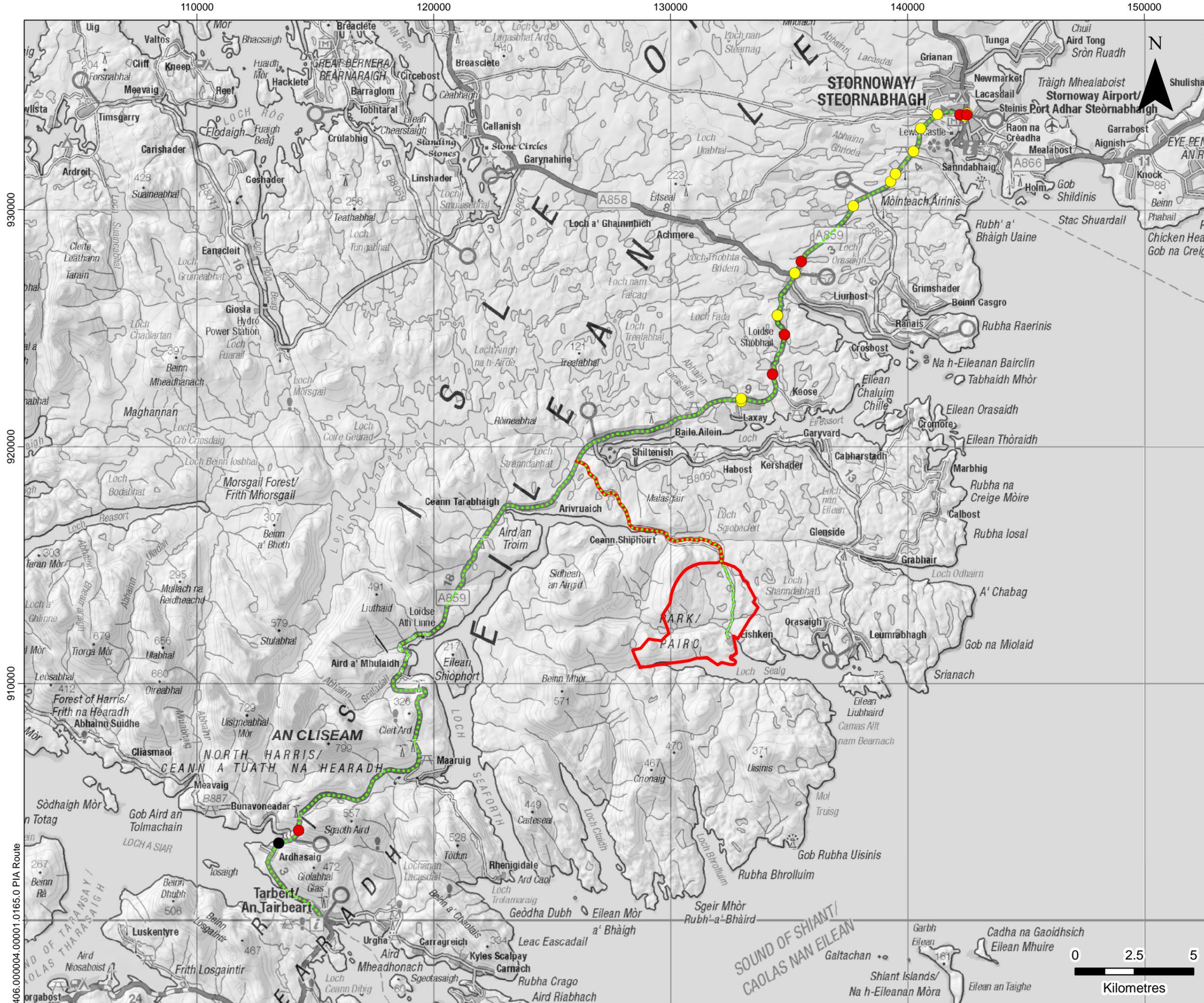
FIGURE 12.3

Scale 1:150,000 @ A3 Date AUGUST 2023

406.00004.00001.0164.0 Traffic Count Locations

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LEGEND

- Application Boundary
- Study Area Route Section
- Fatal Personal Injury Accident
- Serious Personal Injury Accident
- Slight Personal Injury Accident



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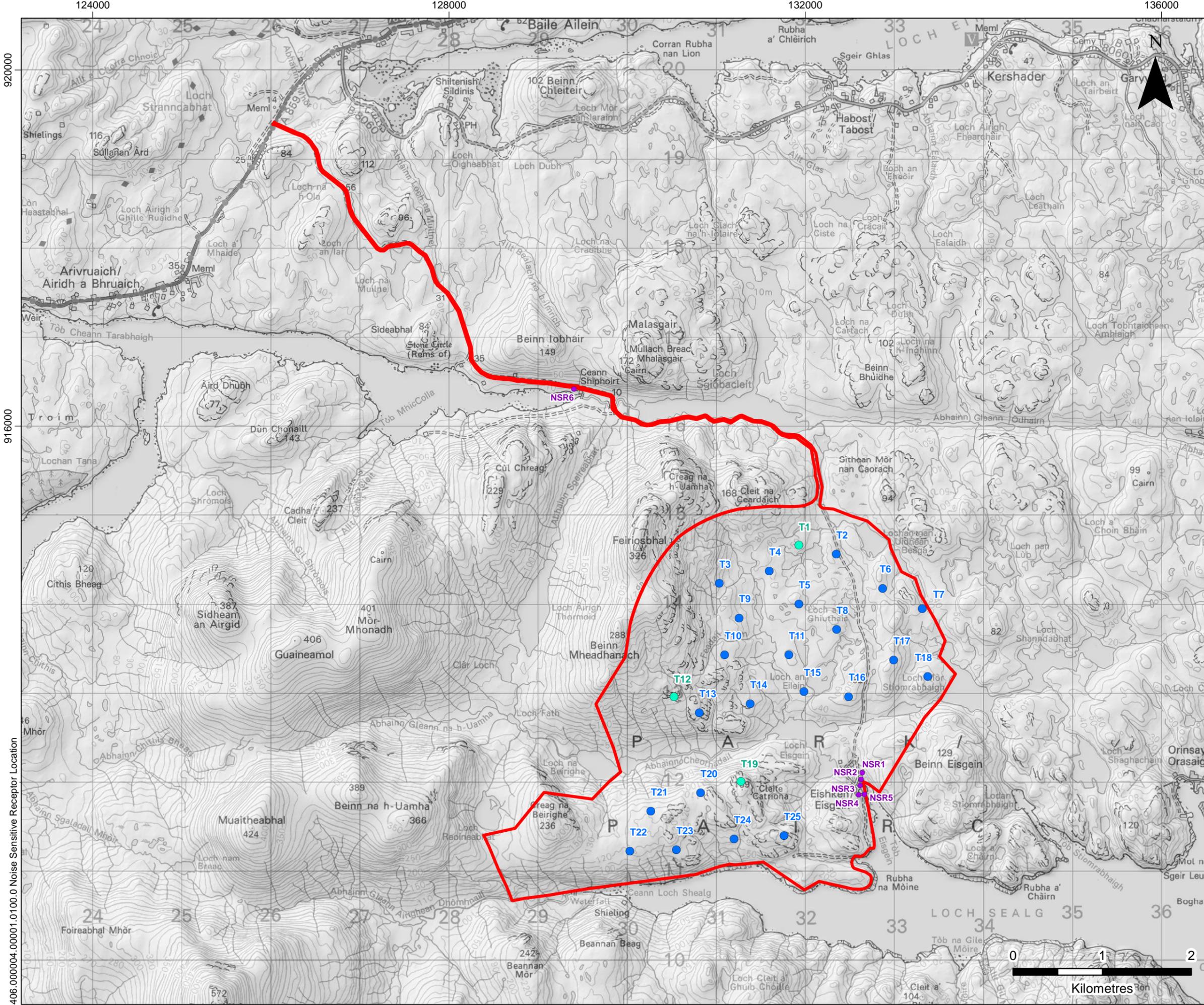
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SITE ACCESS, TRAFFIC AND TRANSPORT

PIA LOCATION PLAN

FIGURE 12.4

Scale: 1:150,000 @ A3 Date: AUGUST 2023



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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NOISE

NOISE SENSITIVE RECEPTOR LOCATIONS

FIGURE 13.1

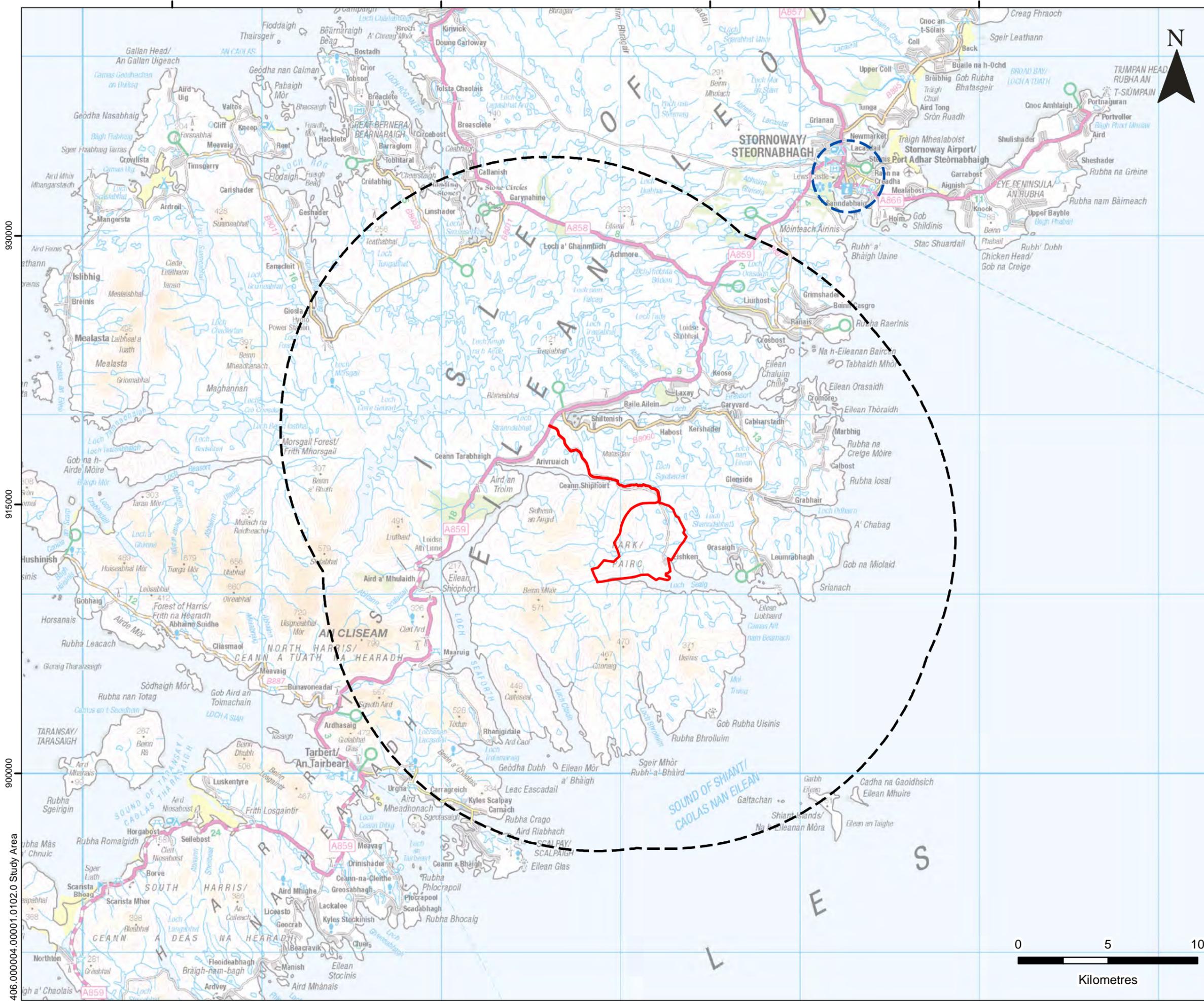
Scale 1:40,000 @ A3 Date AUGUST 2023

105000

120000

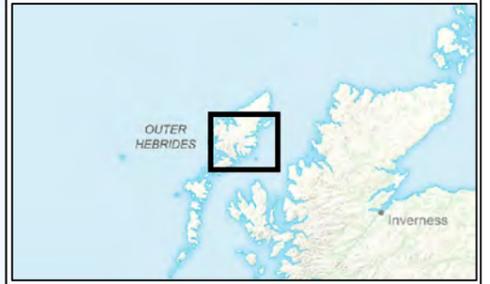
135000

150000



LEGEND

- Application Boundary
- Application Boundary 15 km Buffer
- Local Area of Interest 2 km Buffer (Accommodation Boundary)

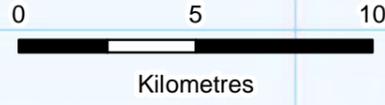


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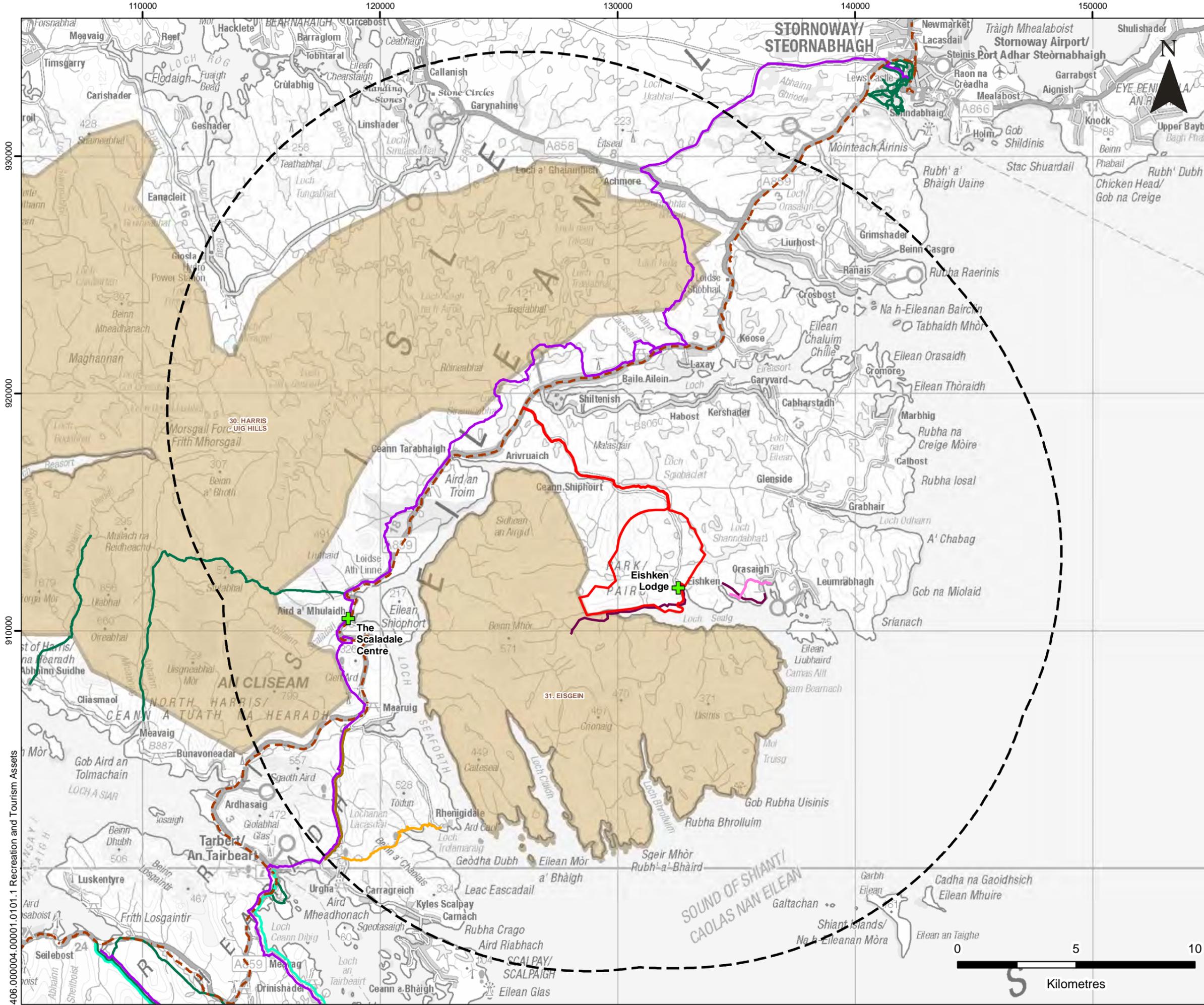
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UISENIS WIND FARM - EIA
SOCIO-ECONOMICS AND LAND USE
STUDY AREA

FIGURE 14.1
Scale 1:200,000 @ A3 Date AUGUST 2023



406.00004.00001.0102.0 Study Area



LEGEND

- Application Boundary
- Application Boundary 15 km Buffer
- Tourism Attraction
- Formal Recreation Facility
- Wild Land
- Core Path
- Long Distance Route**
- Bird of Prey Trail
- Hebridean Way
- Heritage Path**
- Old Harris Drove Road
- Old Road to Tarbert
- Rhenigidale Post Road
- Stiomrabhaigh
- Wider Path Network



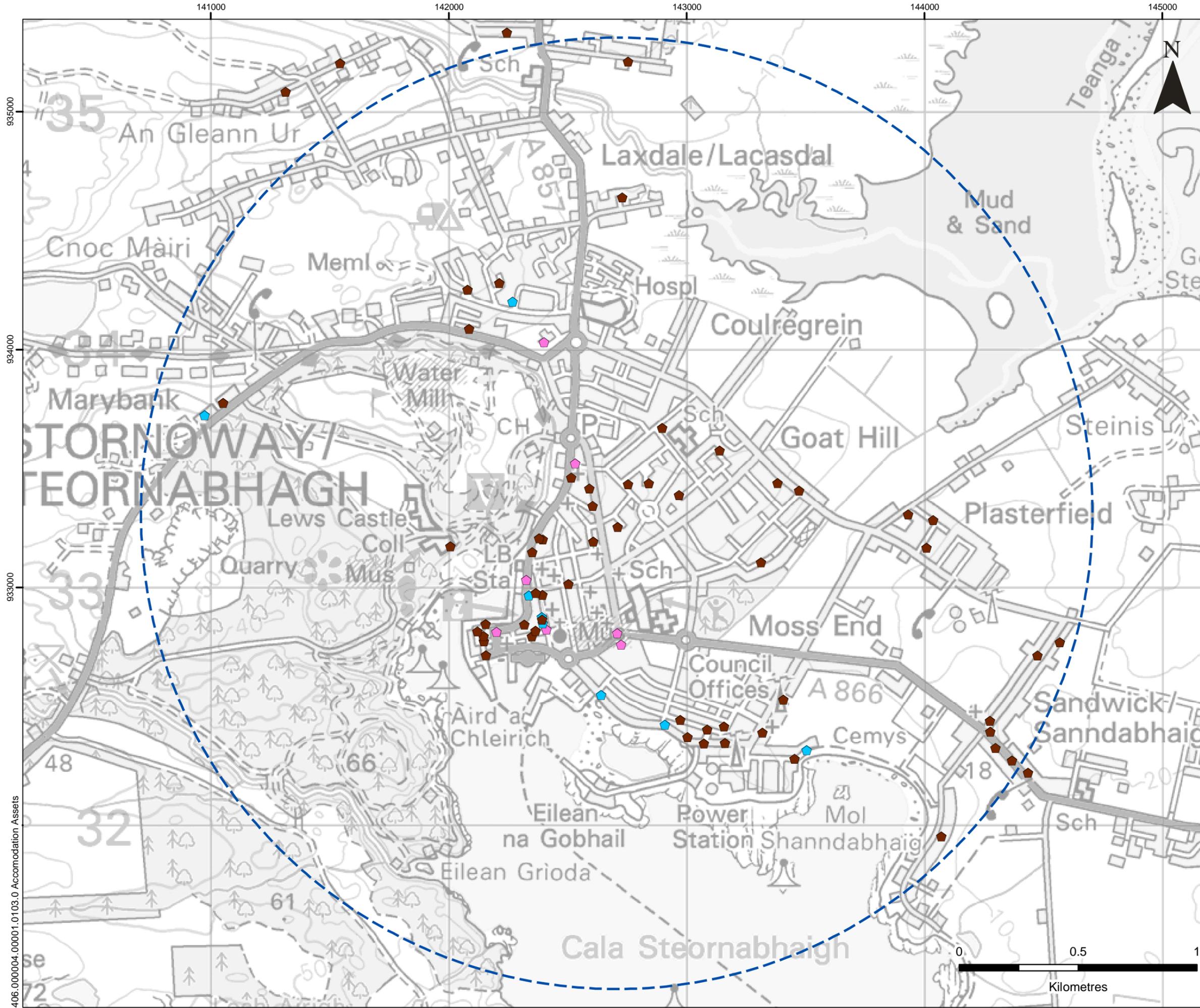
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UISENIS WIND FARM - EIA
SOCIO-ECONOMICS AND LAND USE
RECREATIONAL AND TOURISM
ASSETS

FIGURE 14.2

Scale 1:150,000 @ A3 Date AUGUST 2023

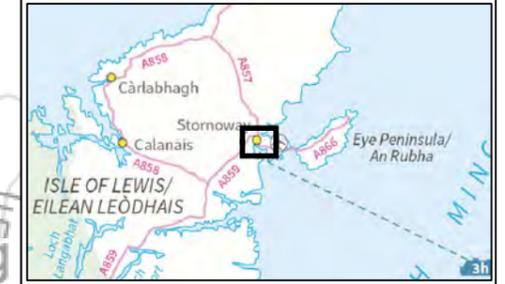


LEGEND

- Application Boundary
- Local Area of Interest 2 km Buffer (Accommodation Boundary)

Accommodation Type

- ◆ Bed and Breakfast
- ◆ Hotel
- ◆ Self-Catering



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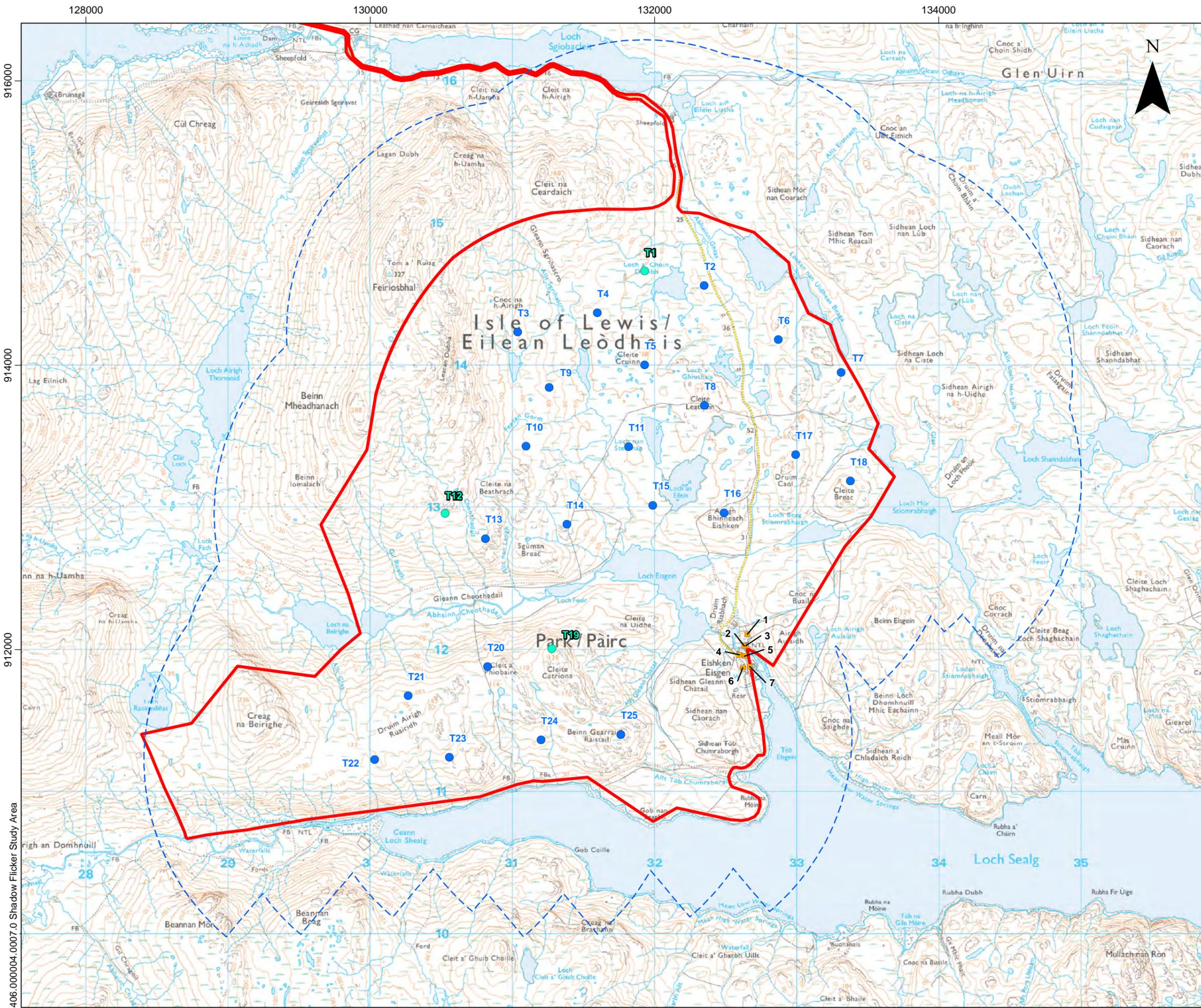
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SOCIO-ECONOMICS AND LAND USE
ACCOMMODATION ASSETS

FIGURE 14.3

Scale: 1:15,000 @ A3 Date: AUGUST 2023

406.000004.00001.0103.0 Accommodation Assets



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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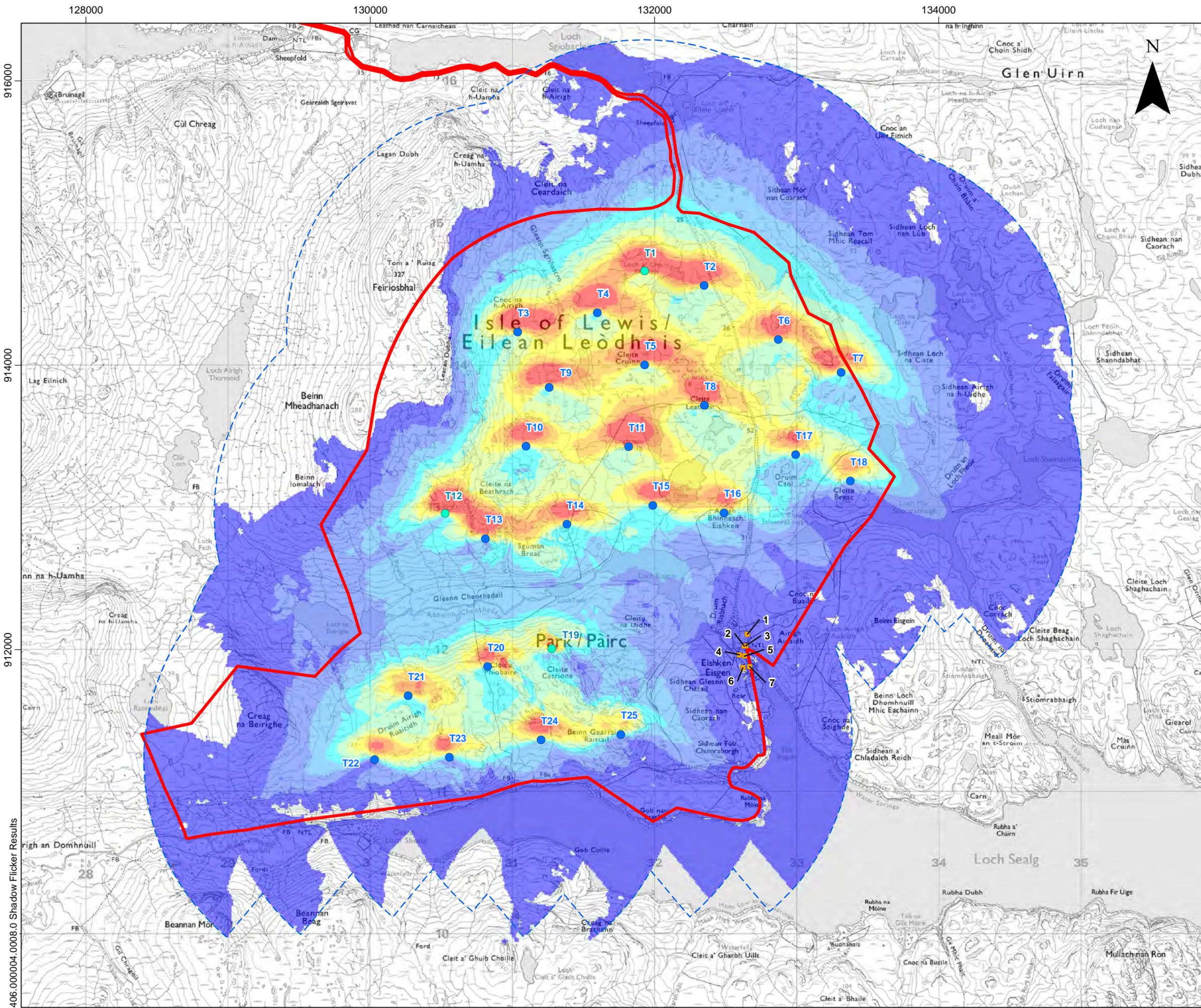
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UISENIS WIND FARM - EIA
OTHER ISSUES
SHADOW FLICKER STUDY AREA

FIGURE 16.1

Scale 1:25,000 @ A3 Date AUGUST 2023

406.00004.0007.0 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 - EIA

OTHER ISSUES

SHADOW FLICKER RESULTS

FIGURE 16.2

Scale: 1:25,000 @ A3

Date: AUGUST 2023

406.00004.0008.0 Shadow Flicker Results