





CONTENTS

CHAPTER 1 INTRODUCTION

EIAR Figure 1.1 Site Layout and Location

EIAR Figure 1.2 Site Constraints

CHAPTER 3 PROJECT DESCRIPTION

EIAR Figure 3.1 Indicative Turbine Specification

EIAR Figure 3.2 Indicative Turbine Foundation Specification

EIAR Figure 3.3 Indicative Crane Pad

EIAR Figure 3.4 Indicative Substation, Control Building and Battery Storage Compound

EIAR Figure 3.5 Indicative Access Track

EIAR Figure 3.6 Indicative Underground Cabling

EIAR Figure 3.7 Indicative Anemometry Mast

EIAR Figure 3.8 Indicative Directional Signage

EIAR Figure 3.9 Typical Temporary Construction Compound

EIAR Figure 3.10 Indicative Batching Plant

EIAR Figure 3.11 Footpath at Site Entrance

EIAR Figure 3.12 Footpath to Crash Site

CHAPTER 5 LANDSCAPE & VISUAL IMPACT ASSESSMENT

See Volume 2b and 2c.

CHAPTER 6 ECOLOGY & BIODIVERSITY

EIAR Figure 6.1 Ecological Study – Survey Areas

EIAR Figure 6.2 Natural Heritage Designated Sites

EIAR Figure 6.3 Ecological Desk Study Records

EIAR Figure 6.4a Phase 1 Habitats (West)

EIAR Figure 6.4b Phase 1 Habitats (East)

EIAR Figure 6.4c Phase 1 Habitats (North)

EIAR Figure 6.5a NVC Communities (West) 041121 sub communities

EIAR Figure 6.5b NVC Communities (East) 041121 sub-communities

EIAR Figure 6.6 Protected Species Survey Results

EIAR Figure 6.7 Bat Activity Survey Results 2020

EIAR Figure 6.8 Electrofishing Sampling Locations

EIAR Figure 6.9 Indicative Habitat Enhancement Areas

CHAPTER 7 ORNITHOLOGY

EIAR Figure 7.1 Ornithological Study – Survey Areas

EIAR Figure 7.2 Non – Confidential Desk Study Records

EIAR Figure 7.3a Vantage Point Locations & Viewsheds 2018-19

EIAR Figure 7.3b Vantage Point Locations & Viewsheds 2020-21

EIAR Figure 7.4a Non - Confidential Breeding Bird Survey Results - Waders 2018-19

EIAR Figure 7.4b Non – Confidential Breeding Bird Survey Results – Other BoCC 2018

EIAR Figure 7.4c Non - Confidential Breeding Bird Survey Results - Other BoCC 2019

EIAR Figure 7.5a Flight Activity by Target Raptor Species – Apr-Aug 2018

EIAR Figure 7.5b Flight Activity by Target Raptor Species - Sep 2018-Mar 2019

EIAR Figure 7.5c Flight Activity by Target Raptor Species - Apr-Aug 2019

EIAR Figure 7.5d Flight Activity by Target Raptor Species - Sept 2020-Mar 2021

EIAR Figure 7.6a Flight Activity by Other Target Species – Apr-Aug 2018

EIAR Figure 7.6b Flight Activity by Other Target Species – Sept 2018-Mar 2019

EIAR Figure 7.6c Flight Activity by Other Target Species - Apr-Aug 2019

EIAR Figure 7.6d Flight Activity by Other Target Species – Sept 2020-Mar 2021

CHAPTER 8 HYDROLOGY, GEOLOGY & HYDROGEOLOGY

EIAR Figure 8.1 Hydrology Overview

EIAR Figure 8.2 Superficial Geology

EIAR Figure 8.4 Carbon Soils

EIAR Figure 8.5 Predominant Soils

EIAR Figure 8.6 Interpolated Peat Depth EIAR Figure 8.7 Topographic Wetness Index

EIAR Figure 8.8 Flow Accumulation





CHAPTER 9 CULTURAL HERTIAGE

EIAR Figure 9.1 The Proposed Development Area and Heritage Assets

EIAR Figure 9.2 Heritage Assets and 1km study area

EIAR Figure 9.3 Designated assets, HER national/regional assets and 10km study area

EIAR Figure 9.4 Designated assets, HER nationa/regional assets and ZTV

EIAR Figure 9.5 Extract from a map by Blaeu, 1654

EIAR Figure 9.6 Extract from a map by Roy, 1752-55

EIAR Figure 9.7 Extract from Ordnance Survey map, 1853

EIAR Figure 9.8 Extract from Ordnance Survey map, 1895

EIAR Figure 9.9 Extract from Ordnance Survey mapping, 1909-10

EIAR Figure 9.29 The Proposed Development Area, Heritage Assets and Infrastructure

CHAPTER 12 FORESTRY

EIAR Figure 12.1 Site Location

EIAR Figure 12.2 Baseline Species

EIAR Figure 12.3 Woodland Loss

CHAPTER 13 OTHER EFFECTS

EIAR Figure 13.1 Predicted Shadow Flicker





PREFACE

An Environmental Impact Assessment Report (EIAR) has been prepared in support of an application submitted by Natural Power Consultants Limited (Natural Power) on behalf of the Applicant (Vattenfall Wind Power Ltd). The application seeks consent under Section 36 of the Electricity Act 1989 and the EIAR has been prepared in accordance with the Electricity Works (Environmental Impact Assessment) (Scotland) Amendment Regulations 2017. The application also seeks a direction under Section 57(2) of the Town and Country Planning (Scotland) Act 1997 as amended that planning permission for the development be deemed to be granted. This EIAR contains the information carried out for the Environmental Impact Assessment to develop a wind farm comprising of up to fourteen wind turbines and associated infrastructure (the Proposed Development). The Proposed Development is located in Dumfries & Galloway local authority areas.

The Electricity Works (Miscellaneous Temporary Modifications) (Coronavirus) (Scotland) Regulations 2020 ("the Temporary Regs") came into effect on 24 April 2020. These Regulations are temporary and were due to expire on 30 September 2020. However, these safeguards will now continue to be in place for the duration of the extension period, with the expiry date of the Scottish Acts by this Bill, to 30 September 2022.

Copies of the EIAR may also be obtained from Vattenfall Wind Power Ltd at a charge of £1,400 per hard copy. Copies of Non-Technical Summary and USB format of entire application are available free of charge upon request.

- This is Volume 2a of the EIAR which presents the Technical Figures associated with the EIAR Chapters except for Chapter 5 (Landscape & Visual Impact Assessment)
- Volume 1 of the EIAR presents the 15 Chapters of the EIAR.
- Volume 2b of the EIAR presents the technical Figures associated with EIAR Chapter 5.
- Volume 2c of the EIAR presents the Visualisations produced for EIAR Chapters 5 and 9 (Landscape & Visual Impact Assessment and Cultural Heritage).
- Volume 3 presents the Technical Appendices associated with the EIAR Chapters.
- Volume 4 of the EIAR presents the Non-Technical Summary.

In addition to the EIAR, the application is also supplemented by accompanying documents including:

- Planning, Design & Access Statement,
- Pre-Application Consultation (PAC) Report.

No part of this publication may be reproduced by any means without prior written permission from the Applicant. Every effort is made to ensure the accuracy of the material published. However, neither Natural Power nor the Applicant will be liable for any inaccuracies.



This is to certify that

Natural Power Consultants Limited

is a member of the

EIA Quality Mark

for the registration period covering

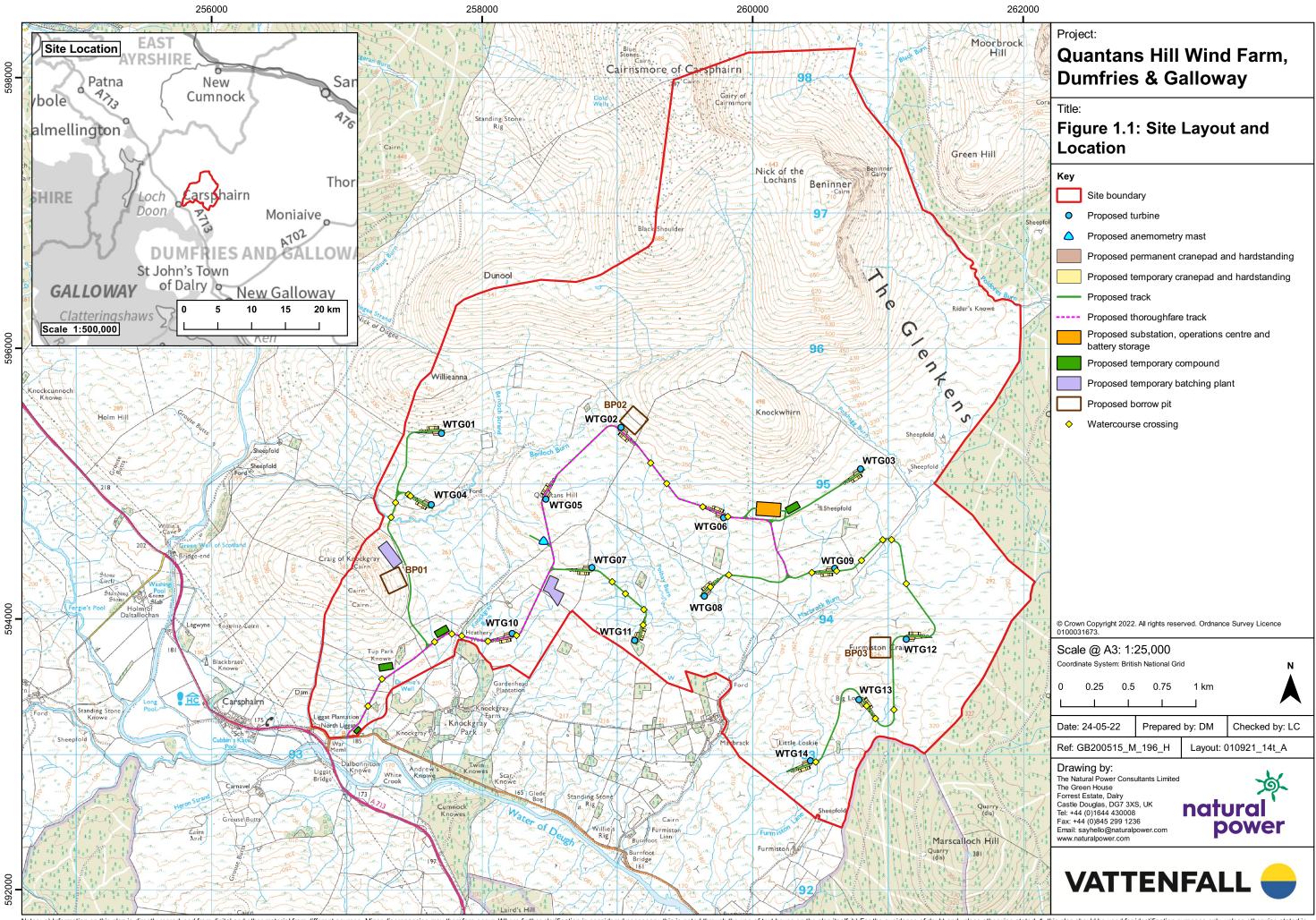
18th April 2022 – 17th April 2023*

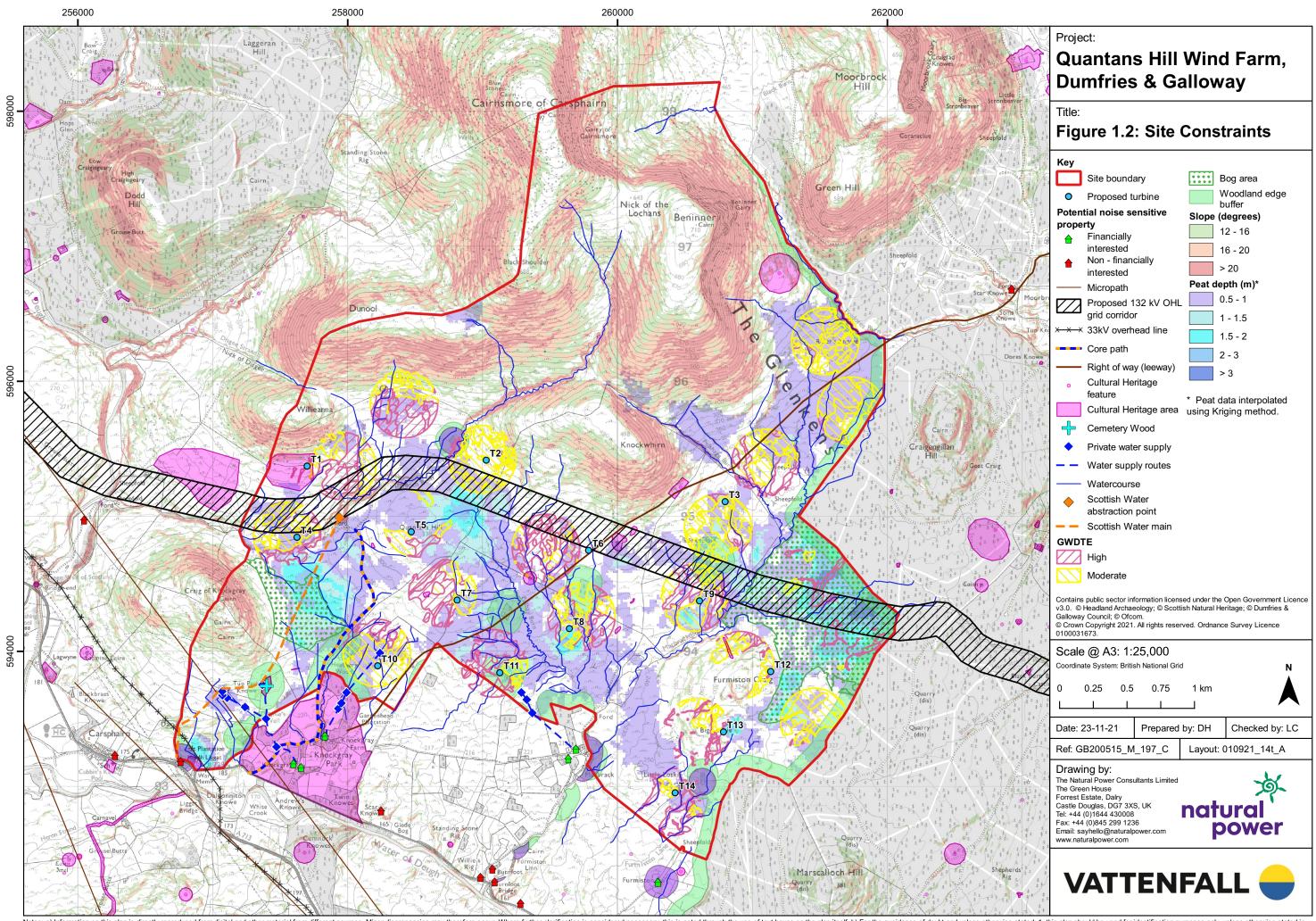
*Subject to meeting the requirements of registration

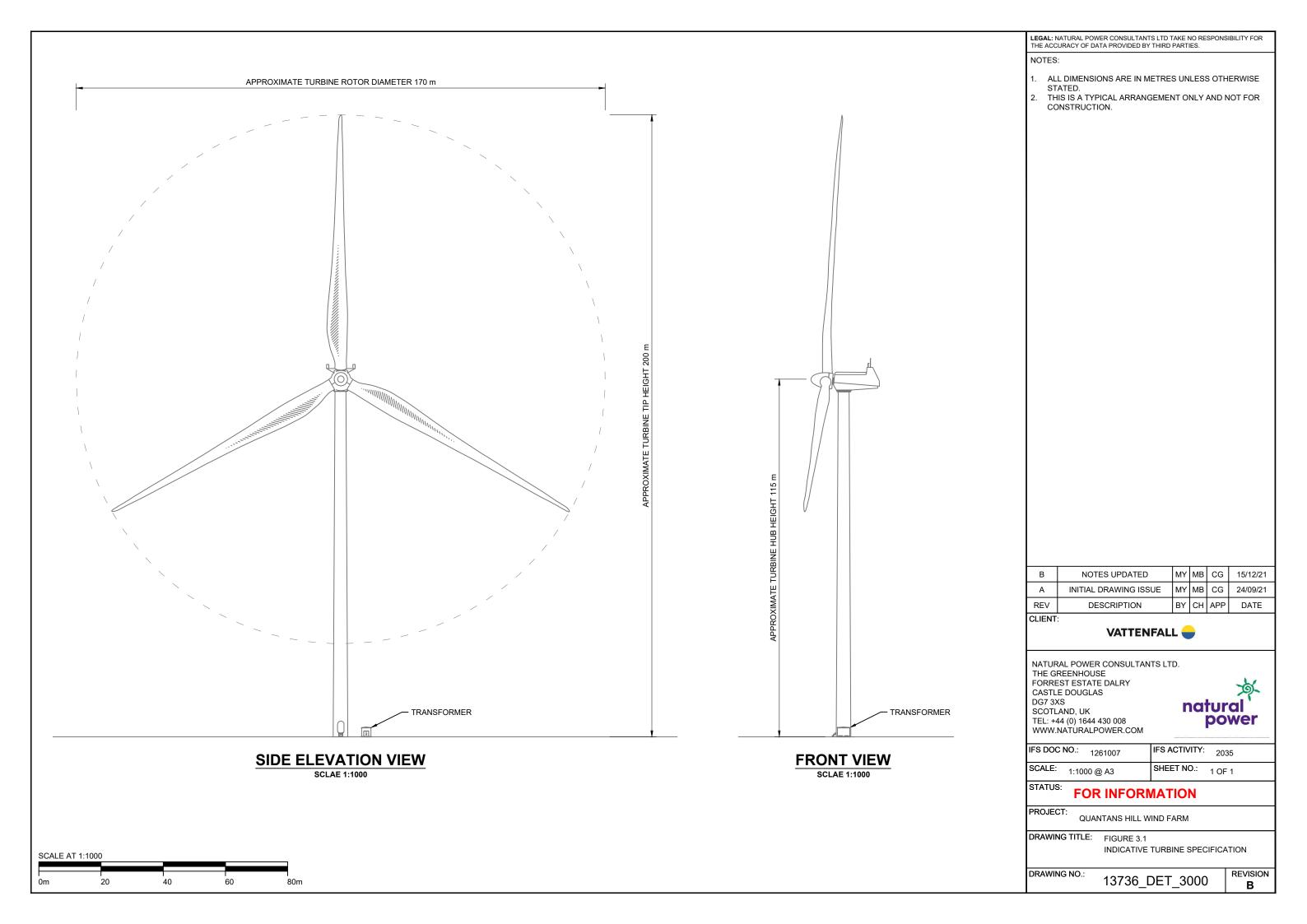


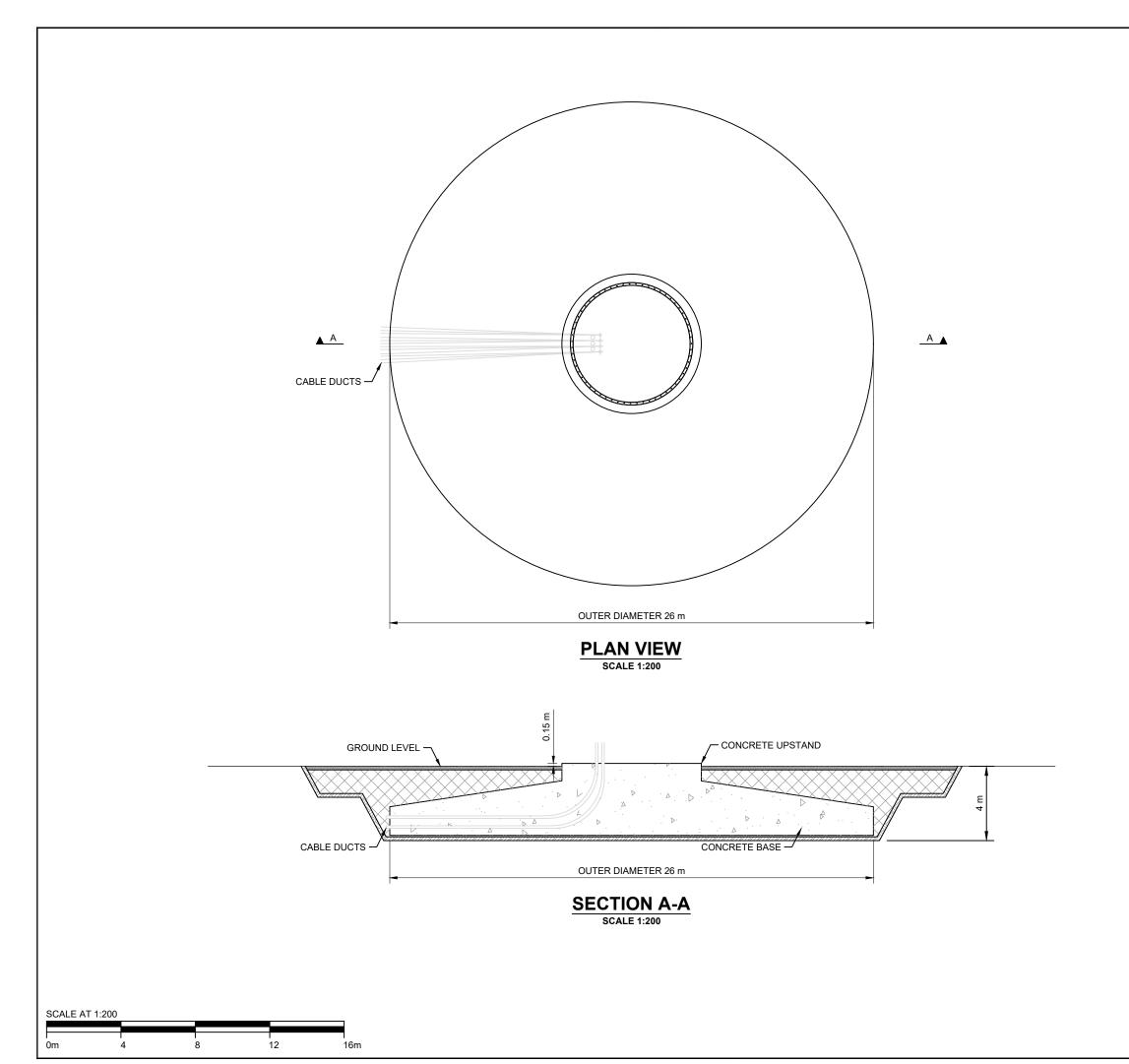












LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES.

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
 THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION.

В	NOTES UPDATED	MY	MB	CG	15/12/21
Α	INITIAL DRAWING ISSUE	MY	МВ	CG	24/09/21
REV	DESCRIPTION	ВҮ	СН	APP	DATE

CLIENT:

VATTENFALL —

NATURAL POWER CONSULTANTS LTD. THE GREENHOUSE FORREST ESTATE DALRY CASTLE DOUGLAS

DG7 3XS SCOTLAND, UK TEL: +44 (0) 1644 430 008 WWW.NATURALPOWER.COM

IFS DOC NO.: 1261008 IFS ACTIVITY: 2035 SCALE: 1:200 @ A3 SHEET NO.: 1 OF 1

natural

power

STATUS:

FOR INFORMATION

PROJECT: QUANTANS HILL WIND FARM

DRAWING TITLE: FIGURE 3.2

INDICATIVE TURBINE FOUNDATION

SPECIFICATION

DRAWING NO.: 13736_DET_3001 REVISION В

183 m SCALE AT 1:1000

LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES.

NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- 2. THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION.
- 3. CONTRACTOR TO UNDERTAKE DETAILED DESIGN OF EACH HARDSTAND, INCLUDING ARRANGEMENT TO SUIT TURBINE SUPPLIER AND SPECIFIC SITE CONDITIONS AT EACH TURBINE LOCATION.

KEY:

O WIND TURBINE

_____ Т

TRACK - NEW HARDSTAND - PERMANENT



HARDSTAND - TEMPORARY AREA

CONCRETE

В	NOTES UPDATED	MY	MB	CG	15/12/21
Α	INITIAL DRAWING ISSUE	MY	МВ	CG	24/09/21
REV	DESCRIPTION	BY	СН	APP	DATE

CLIENT:

VATTENFALL —



NATURAL POWER CONSULTANTS LTD.
THE GREENHOUSE
FORREST ESTATE DALRY
CASTLE DOUGLAS
DG7 3XS
SCOTLAND, UK
TEL: +44 (0) 1644 430 008
WWW.NATURALPOWER.COM



IFS DOC NO.: 1261009	IFS ACTIVITY: 2035
SCALE: 1:1000 @ A3	SHEET NO.: 1 OF 1

STATUS:

FOR INFORMATION

PROJECT:

QUANTANS HILL

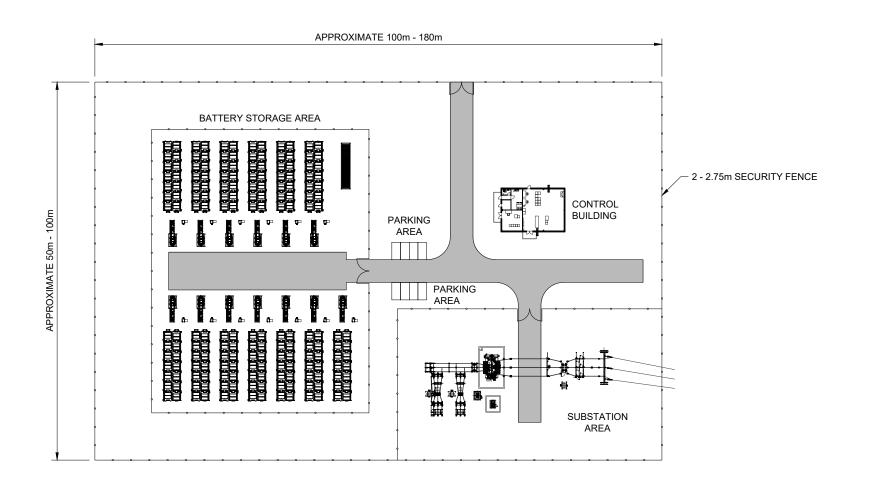
DRAWING TITLE: FIGURE 3.3

INDICATIVE CRANE PAD

DRAWING NO.:

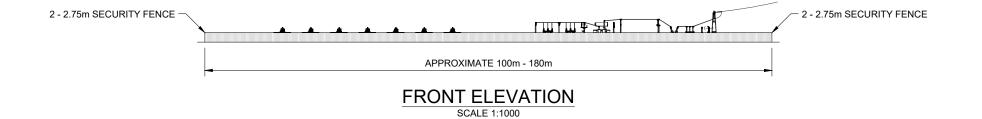
13736_DET_3002

REVISION **B**



COMPOUND LAYOUT

SCALE 1:1000



2 - 2.75m SECURITY FENCE

APPROXIMATE 50m - 100m

SIDE ELEVATION
SCALE 1:1000

SCALE AT 1:1000

0m 20 40 60 80m

LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES.

NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION.

В	LAYOUT UPDATED	JB	MB	CG	15/12/21
Α	INITIAL DRAWING ISSUE	MY	МВ	CG	24/09/21
REV	DESCRIPTION	BY	СН	APP	DATE

CLIENT:

VATTENFALL 🛑

NATURAL POWER CONSULTANTS LTD. THE GREENHOUSE

FORREST ESTATE DALRY
CASTLE DOUGLAS
DG7 3XS
SCOTLAND, UK
TEL: +44 (0) 1644 430 008
WWW.NATURALPOWER.COM



IFS DOC NO.: 1261010	IFS ACTIVITY: 2035
SCALE: 1:1000 @ A3	SHEET NO.: 1 OF 1

STATUS:

FOR INFORMATION

PROJECT:

QUANTANS HILL WIND FARM

DRAWING TITLE: FIGURE 3.4

INDICATIVE SUBSTATION/CONTROL
BUILDING AND BESS COMPOUND

DRAWING NO.:

13736_DET_3003

REVISION **B**

EXPOSED EDGE DRESSED WITH

2% MAXIMUM

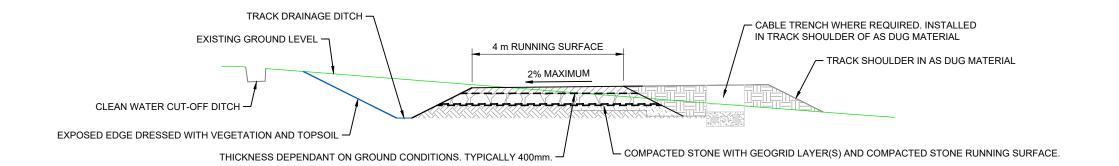
COMPACTED STONE WITH GEOGRID LAYER(S)
AND COMPACTED STONE RUNNING SURFACE.

EXISTING UNDISTURBED GROUND

CABLE TRENCH WHERE REQUIRED. OFFSET
SUITABLE DISTANCE FROM TRACK EDGE SO
AS NOT TO IMPACT INTEGRITY OF TRACK

TYPICAL FLOATING ACCESS TRACK SECTION

SCALE 1:100



TYPICAL ACCESS TRACK SECTION

CALE 1:100

LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES.

IOTES:

STRUCTURE, INCLUDING UNDERLYING PEAT.

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION.

В	TRACK DETAILS UPDATED	MY	МВ	CG	15/12/21
Α	INITIAL DRAWING ISSUE	MY	МВ	CG	24/09/21
REV	DESCRIPTION	BY	СН	APP	DATE

CLIENT:



NATURAL POWER CONSULTANTS LTD. THE GREENHOUSE FORREST ESTATE DALRY CASTLE DOUGLAS DG7 3XS SCOTLAND, UK

SCOTLAND, UK
TEL: +44 (0) 1644 430 008
WWW.NATURALPOWER.COM

STATUS:

FOR INFORMATION

PROJECT:

QUANTANS HILL WIND FARM

DRAWING TITLE: FIGURE 3.5a

INDICATIVE ACCESS TRACK

DRAWING NO.:

13736_DET_3004

REVISION **B**

natural

power



TRACK DRAINAGE DITCH

2% MAXIMUM

STONE CHECK DAM TO FILTER SURFACE
RUNOFF AND REDUCE VELOCITIES

CLEAN WATER CUT-OFF DITCH

TRACK SIDE DITCH OUTLET
CHANNEL TO OUTFALL
SPREADER WITH CHECK DAM

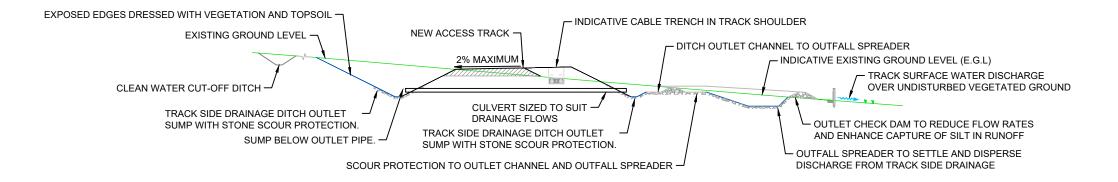
OUTFALL SPREADER TO SETTLE
AND DISPERSE DISCHARGE
FROM TRACK SIDE DRAINAGE

TRACK DRAINAGE DITCH
SUMP AND CROSS-DRAIN

TRACK DRAINAGE CROSS-DRAIN

TYPICAL TRACK DRAINAGE PLAN

SCALE 1:250



SECTION A - A TYPICAL CROSS-SECTION OF CULVERTED CROSS DRAIN

SCALE 1:250

LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES.

IOTES:

- . ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION.

В	TRACK DETAILS UPDATED	MY	МВ	CG	15/12/21
Α	INITIAL DRAWING ISSUE	MY	МВ	CG	24/09/21
REV	DESCRIPTION	BY	СН	APP	DATE

CLIENT:



NATURAL POWER CONSULTANTS LTD.
THE GREENHOUSE
FORREST ESTATE DALRY
CASTLE DOUGLAS
DG7 3XS
SCOTLAND, UK
TEL: +44 (0) 1644 430 008
WWW.NATURALPOWER.COM



IFS DOC NO.: 1261011	IFS ACTIVITY: 2035
SCALE: 1:250 @ A3	SHEET NO.: 2 OF 2

STATUS:

FOR INFORMATION

PROJECT:

QUANTANS HILL WIND FARM

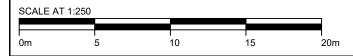
DRAWING TITLE: FIGURE 3.5b

INDICATIVE ACCESS TRACK

DRAWING NO.:

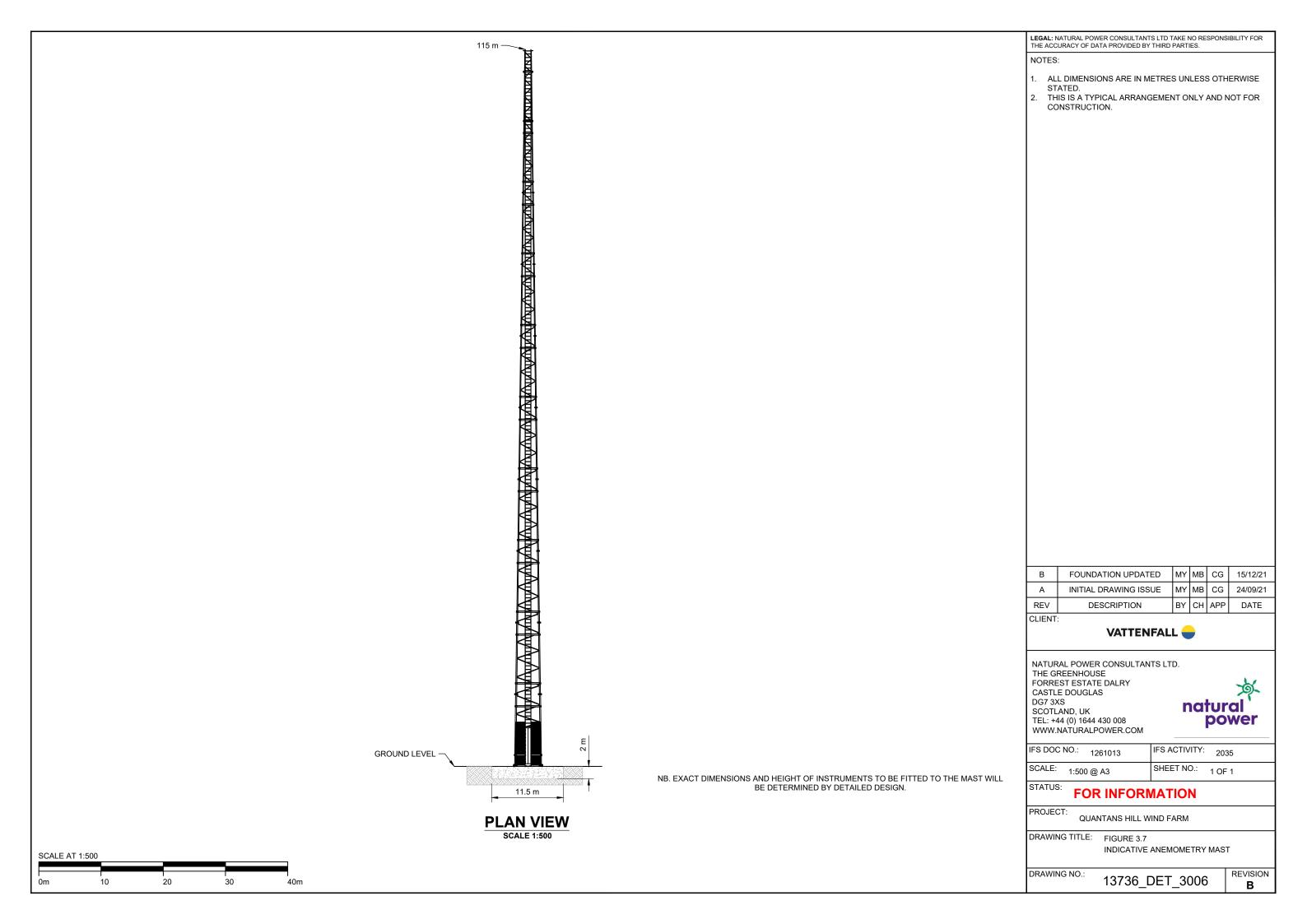
13736_DET_3004

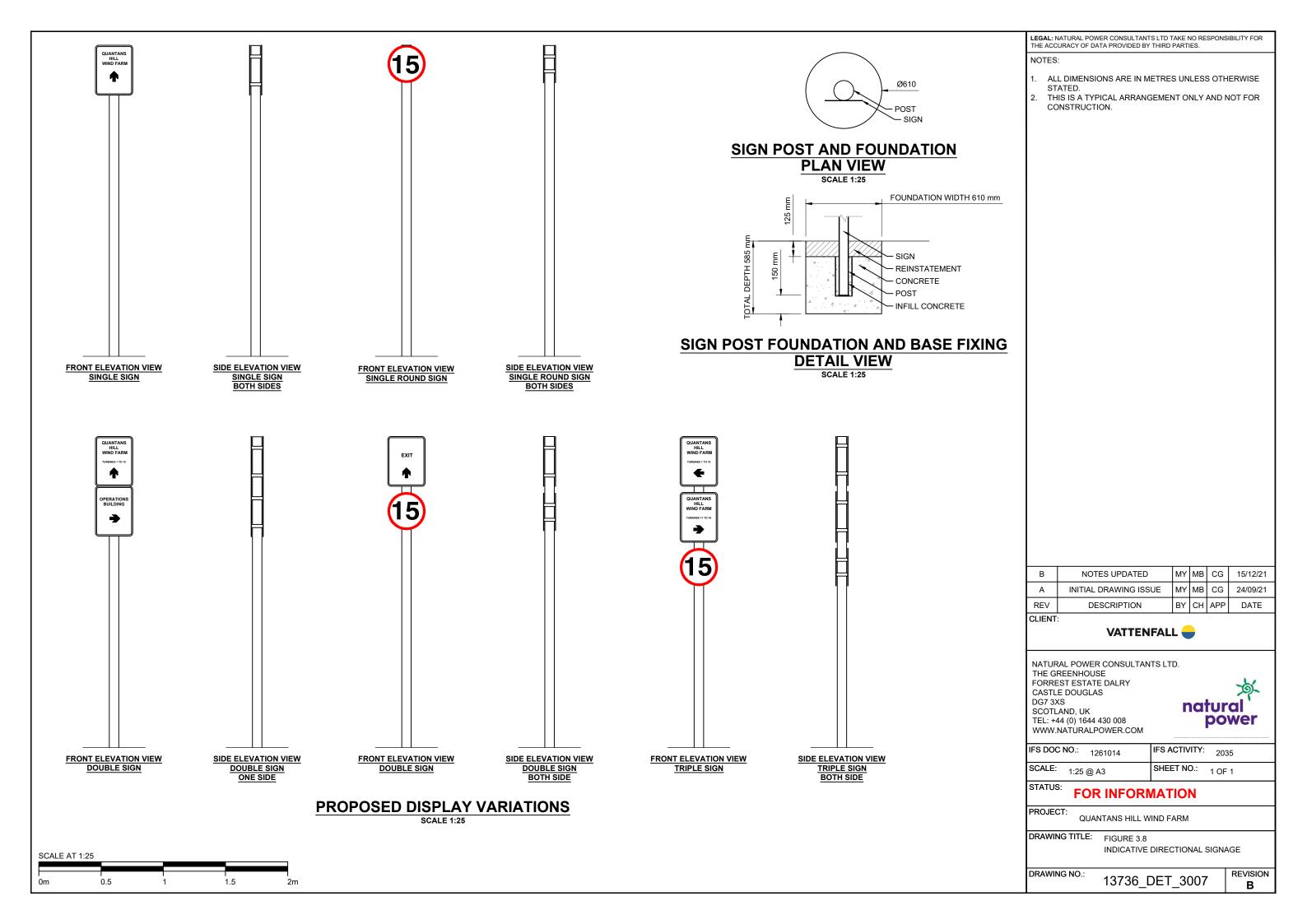
REVISION **B**



IMPERMEABLE DAM ON DOWNSTREAM SIDE OF CROSS-DRAIN SUMP

LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION. TOPSOIL/PEAT REINSTATED BACKFILL MATERIAL WARNING TAPE — GROUND LEVEL APPROXIMATELY 0.9 - 1.5 m DEPENDENT ON GROUND USE NOTES UPDATED MY MB CG 15/12/21 INITIAL DRAWING ISSUE MY MB CG 24/09/21 SCADA CABLE REV DESCRIPTION BY CH APP DATE CLIENT: SAND BEDDING & SURROUND VATTENFALL — 33kV CABLES IN TREFOIL NATURAL POWER CONSULTANTS LTD. THE GREENHOUSE EARTH TAPE FORREST ESTATE DALRY CASTLE DOUGLAS 1.5 -3.0 m WIDTH DEPENDENT ON NUMBER OF CIRCUITS DG7 3XS natural SCOTLAND, UK power TEL: +44 (0) 1644 430 008 WWW.NATURALPOWER.COM **TYPICAL SECTION** IFS DOC NO.: 1261012 IFS ACTIVITY: 2035 **SCALE 1:10** SCALE: 1:10 @ A3 SHEET NO.: 1 OF 1 STATUS: **FOR INFORMATION** PROJECT: QUANTANS HILL WIND FARM DRAWING TITLE: FIGURE 3.6 INDICATIVE UNDERGROUND CABLING SCALE AT 1:10 DRAWING NO.: REVISION 13736_DET_3005 В



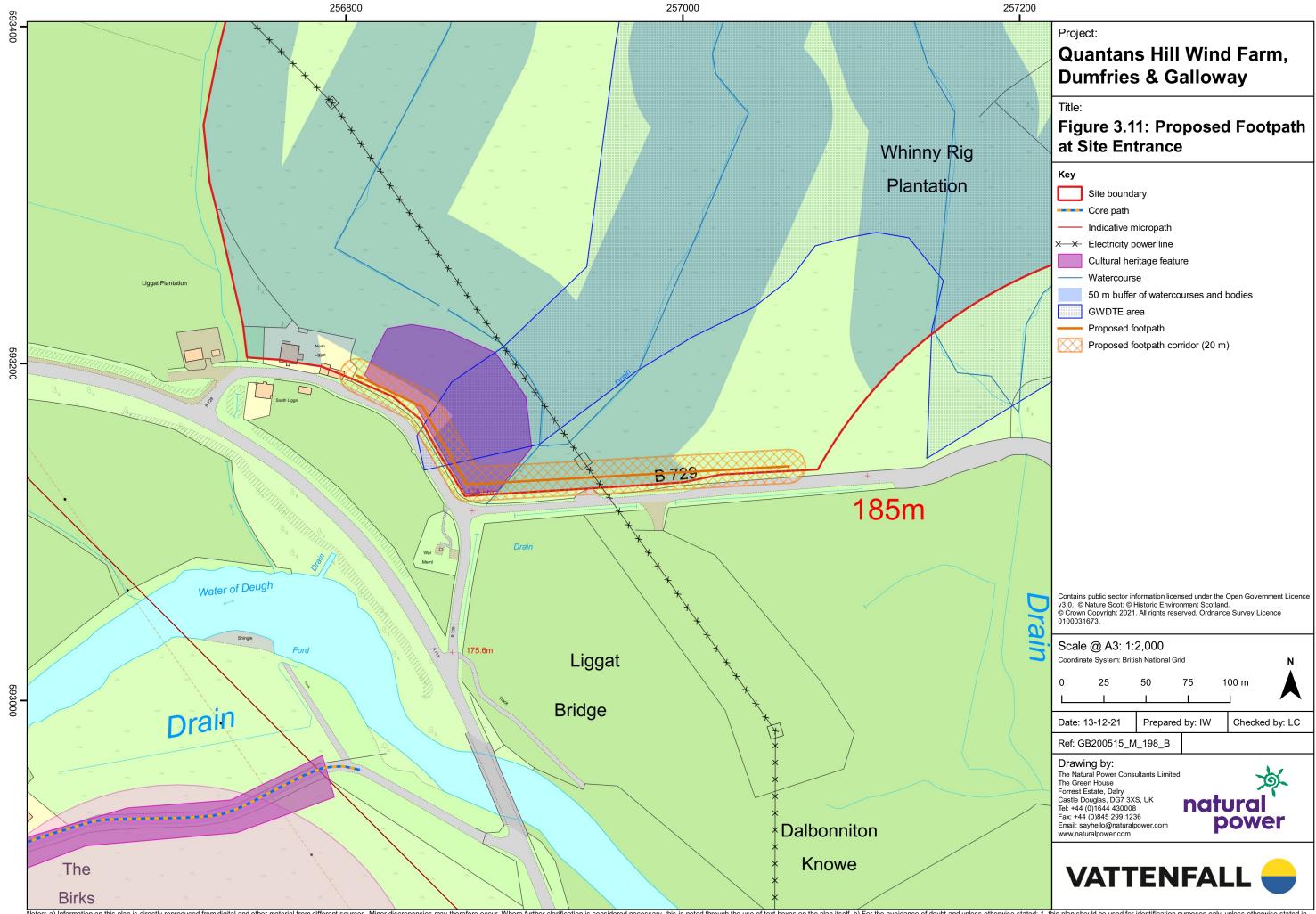


LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES. 1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. 2. THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR 100m CONSTRUCTION. AREA FOR LAYDOWN OF MATERIALS AND STORAGE OF CONSTRUCTION VEHICLES, FILTRATION TANK, WASTE MANAGEMENT AND CAR PARKING. PORTABLE ACCOMMODATION AREA CONTAINING SITE OFFICES, WELFARE FACILITIES, PORTALOOS, OIL STORAGE WITH BUNDING AND WATER TANK/BOWSER **COMPOUND LAYOUT SCALE 1:500** 2 - 2.75m SECURITY FENCE -- 2 - 2.75m SECURITY FENCE B PLATFORM AREA UPDATED | JB | MB | CG | 15/12/21 100m INITIAL DRAWING ISSUE MY MB CG 24/09/21 REV DESCRIPTION BY CH APP DATE **FRONT ELEVATION** CLIENT: SCALE 1:500 VATTENFALL 🛑 - 2 - 2.75m SECURITY FENCE 2 - 2.75m SECURITY FENCE -NATURAL POWER CONSULTANTS LTD. THE GREENHOUSE FORREST ESTATE DALRY CASTLE DOUGLAS DG7 3XS natural 50m SCOTLAND, UK power TEL: +44 (0) 1644 430 008 WWW.NATURALPOWER.COM SIDE ELEVATION SCALE 1:500 IFS DOC NO.: 1261015 IFS ACTIVITY: 2035 SCALE: 1:500 @ A3 SHEET NO.: 1 OF 1 STATUS: **FOR INFORMATION** PROJECT: QUANTANS HILL WIND FARM DRAWING TITLE: FIGURE 3.9 TYPICAL TEMPORARY CONSTRUCTION SCALE AT 1:500 COMPOUND DRAWING NO.: REVISION 13736_DET_3008 10000 30000 40000mm В

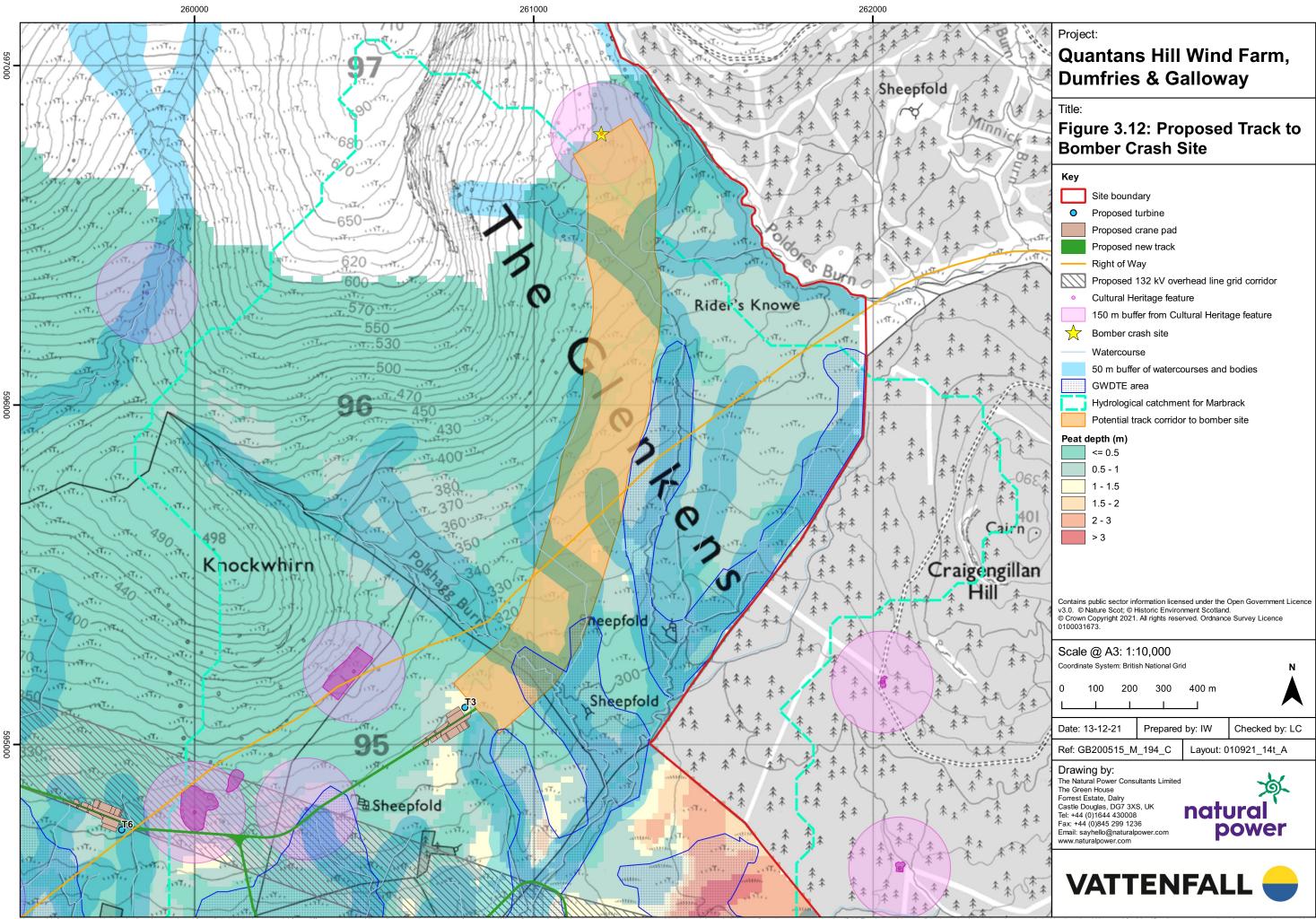
 ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. THIS IS A TYPICAL ARRANGEMENT ONLY AND NOT FOR CONSTRUCTION. 150m - 2 - 2.75m SECURITY FENCE AREA FOR STORAGE OF PLANT AND MATERIALS HOPPER LOADING RAMP AGGREGATE BAYS AGGREGATE BAYS MIXING HOPPER SILOS CONVEYOR/ **HOPPERS** WIND FEED SILOS MIXING HOPPER AGGREGATE BAYS - WATER TANK HOPPER LOADING RAMP AGGREGATE BAYS **GENERATORS** AREA FOR STORAGE OF OFFICES PLANT AND MATERIALS STORAGE **BATCHING PLANT LAYOUT** B PLATFORM AREA UPDATED | JB | MB | CG | 15/12/21 INITIAL DRAWING ISSUE MY MB CG 24/09/21 DESCRIPTION REV BY CH APP DATE CLIENT: VATTENFALL — NATURAL POWER CONSULTANTS LTD. THE GREENHOUSE 2 - 2.75m SECURITY FENCE 2 - 2.75m SECURITY FENCE FORREST ESTATE DALRY CASTLE DOUGLAS 150m DG7 3XS natural SCOTLAND, UK power TEL: +44 (0) 1644 430 008 FRONT ELEVATION WWW.NATURALPOWER.COM SCALE 1:1000 IFS DOC NO.: 1261229 IFS ACTIVITY: 2035 SCALE: 1:1000 @ A3 SHEET NO.: 1 OF 1 STATUS: FOR INFORMATION PROJECT: QUANTANS HILL WIND FARM DRAWING TITLE: FIGURE 3.10 INDICATIVE BATCHING PLANT SCALE AT 1:1000 DRAWING NO.: REVISION 20000 40000 60000 80000mm 13736_DET_3009 В

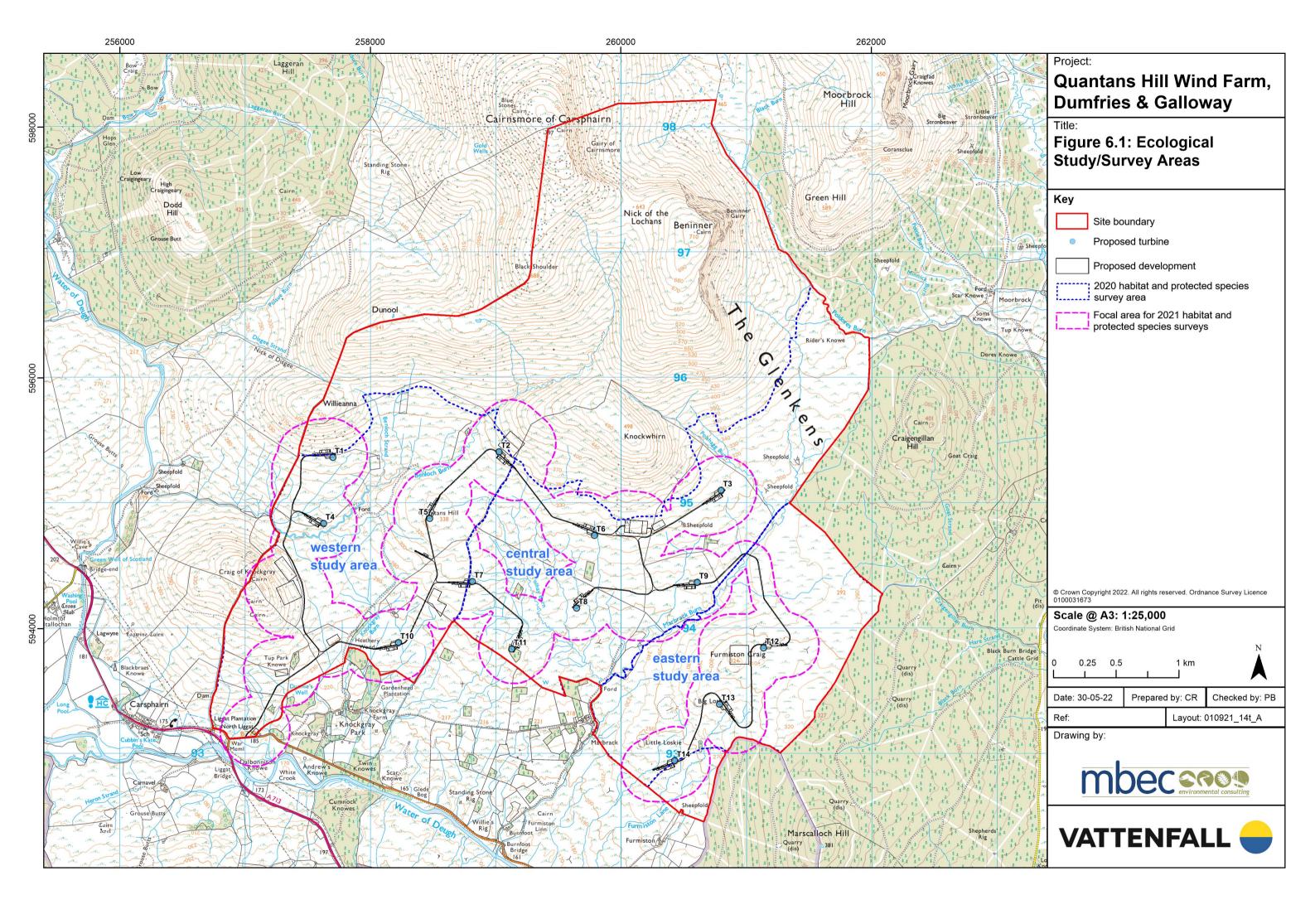
LEGAL: NATURAL POWER CONSULTANTS LTD TAKE NO RESPONSIBILITY FOR

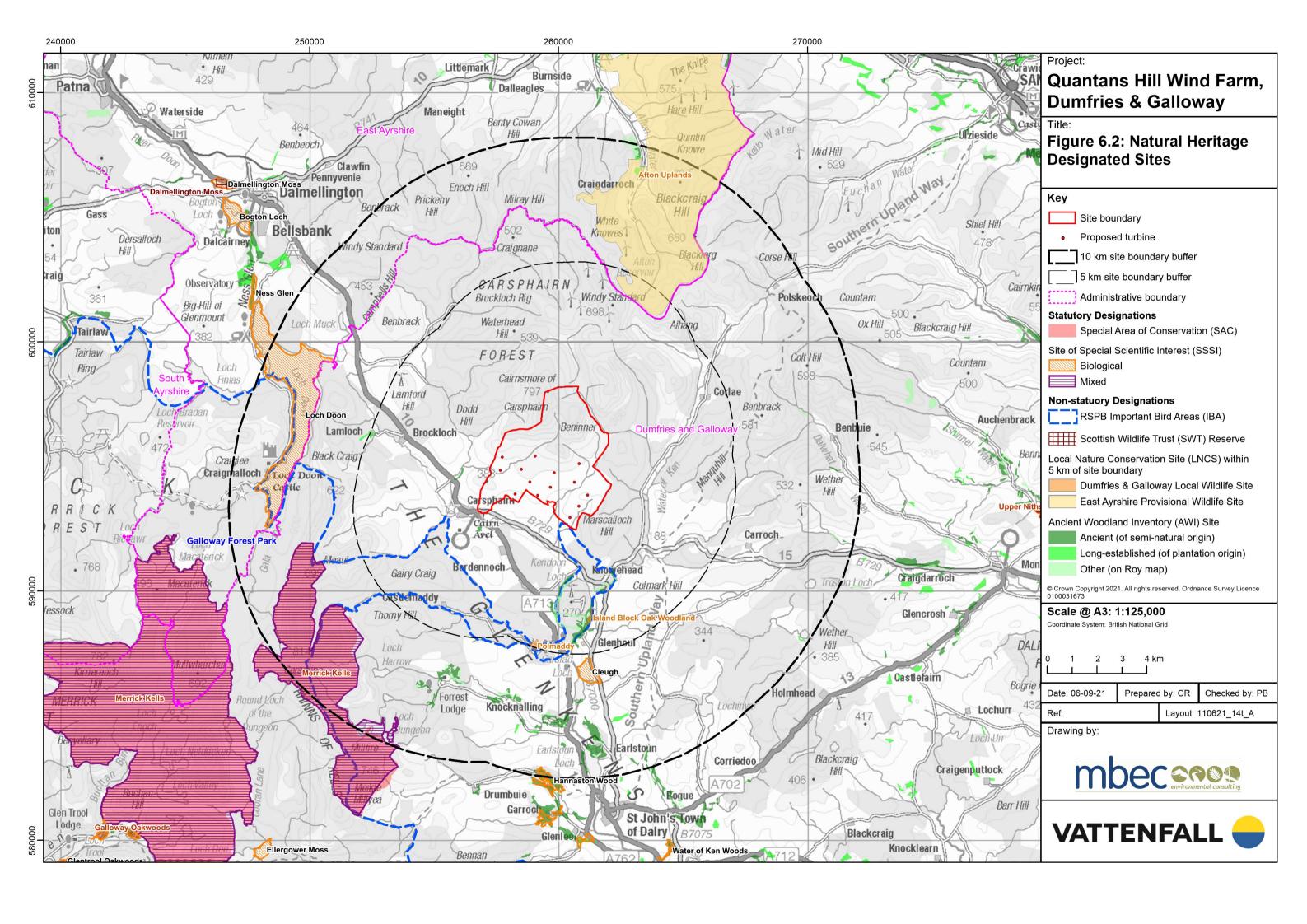
THE ACCURACY OF DATA PROVIDED BY THIRD PARTIES.

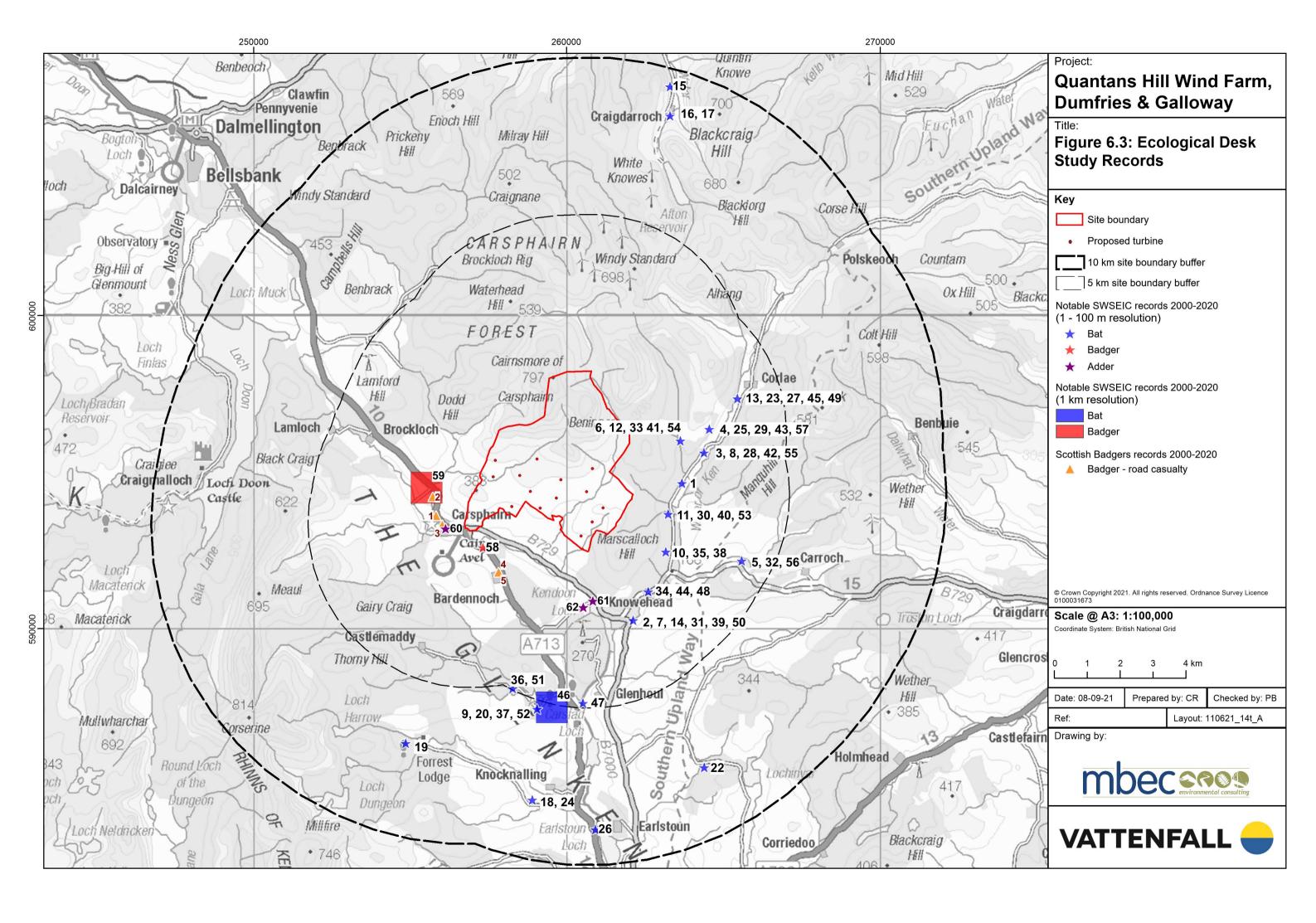


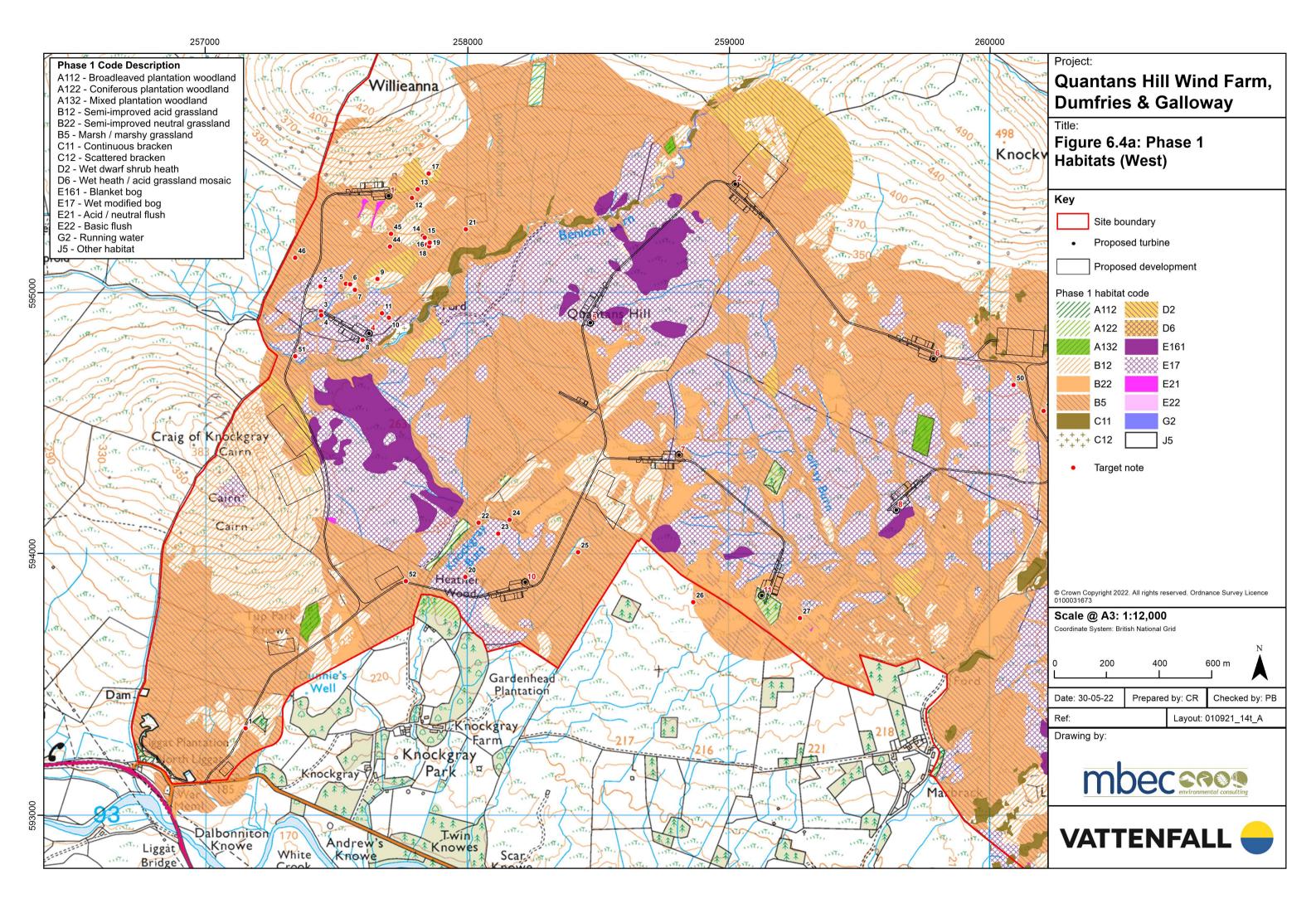
Notes: a) Information on this plan is directly reproduced from digital and other material from different sources. Minor discrepancies may therefore occur. Where further clarification is considered necessary, this is noted through the use of text boxes on the plan itself. b) For the avoidance of doubt and unless otherwise stated: 1. this plan should be used for identification purposes only, unless otherwise stated in accompanying documentation. 2. The Natural Power Consultants Limited accepts no responsibility for the accuracy of data supplied by third parties. 3. The Natural Power Consultants Limited accepts no insplan is also shown as a line or feature by the Ordnance Survey, and that line or feature by the Ordnance Survey, and that line or feature shall be deemed to follow the position as existing on the ground.

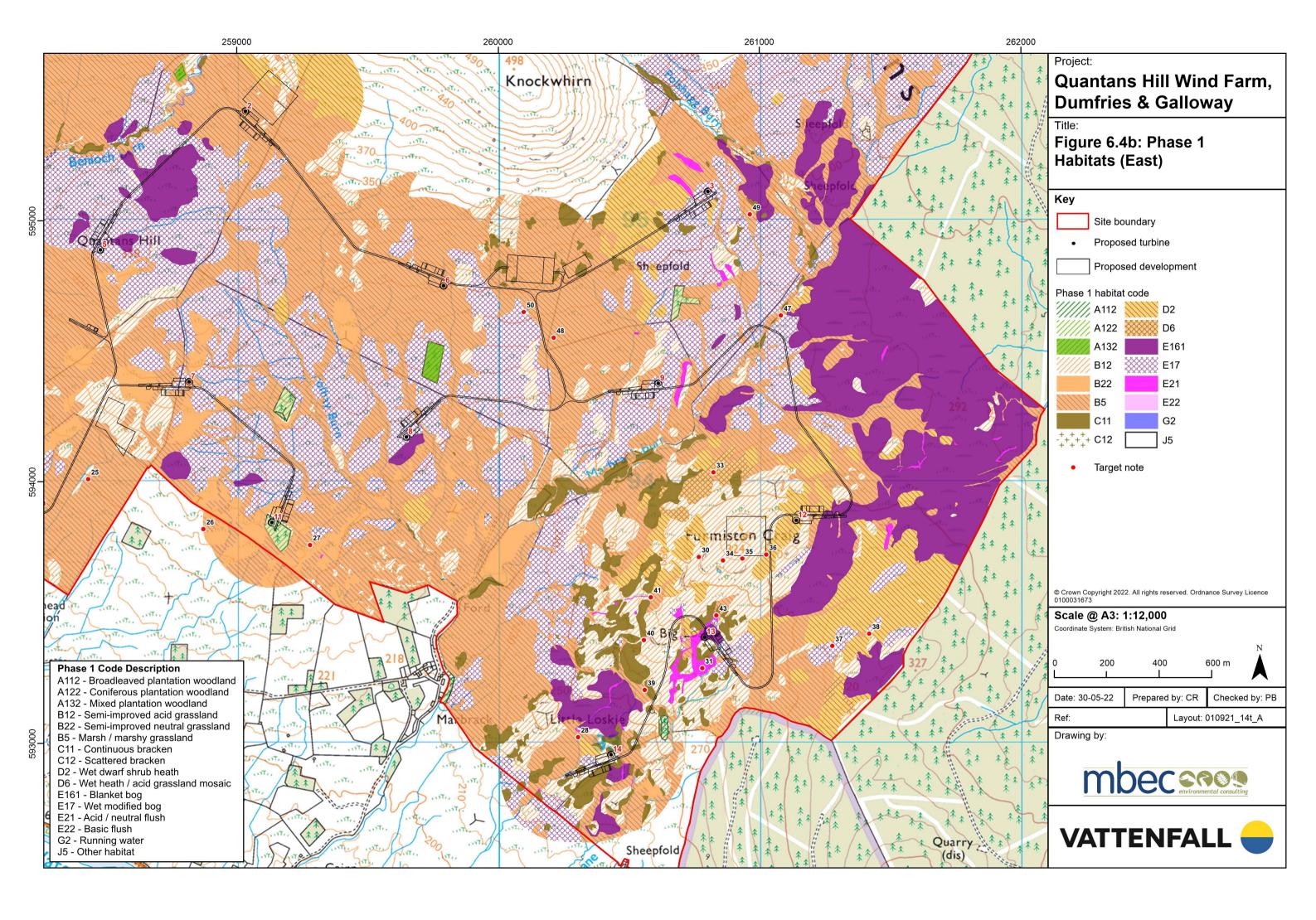


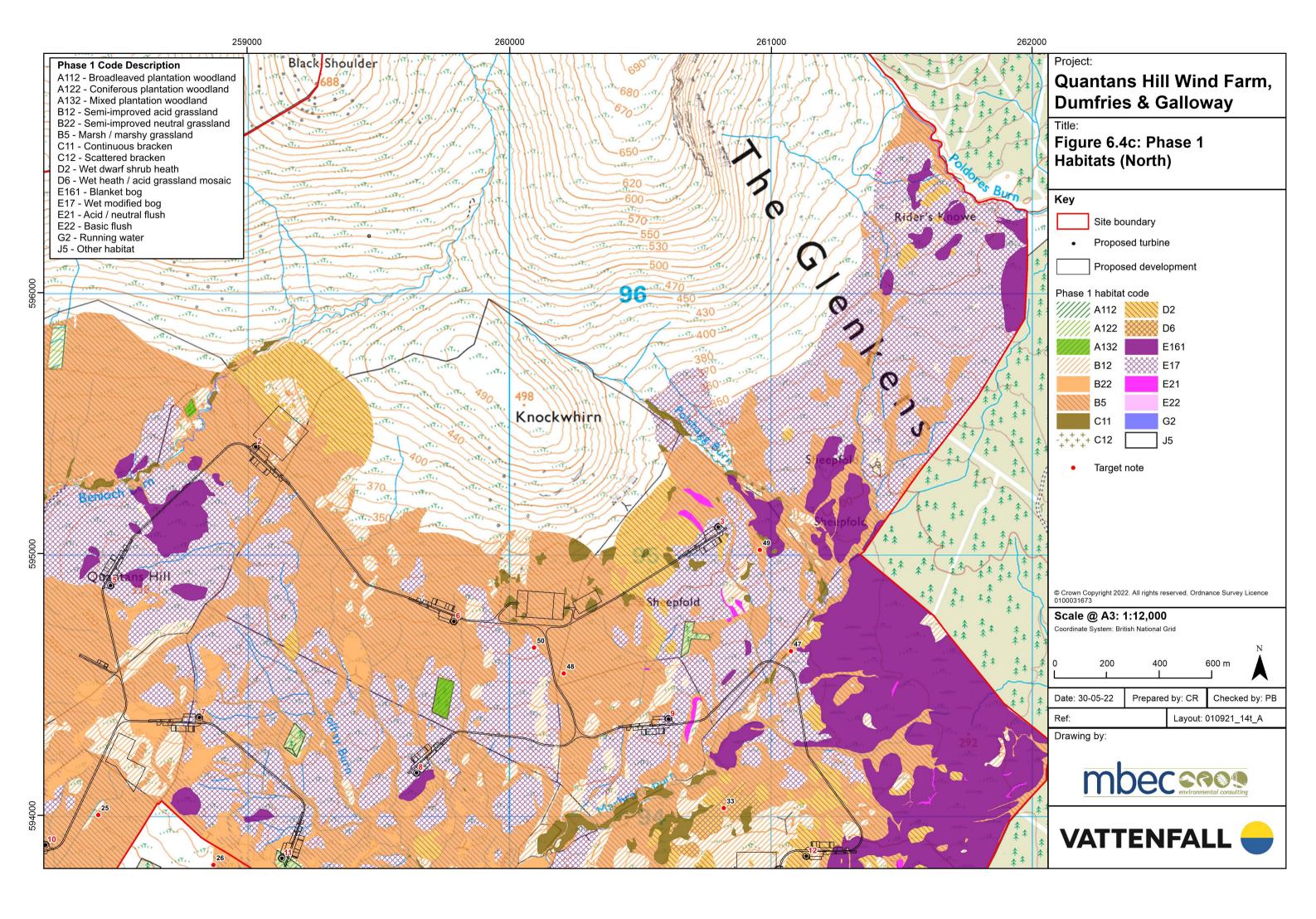


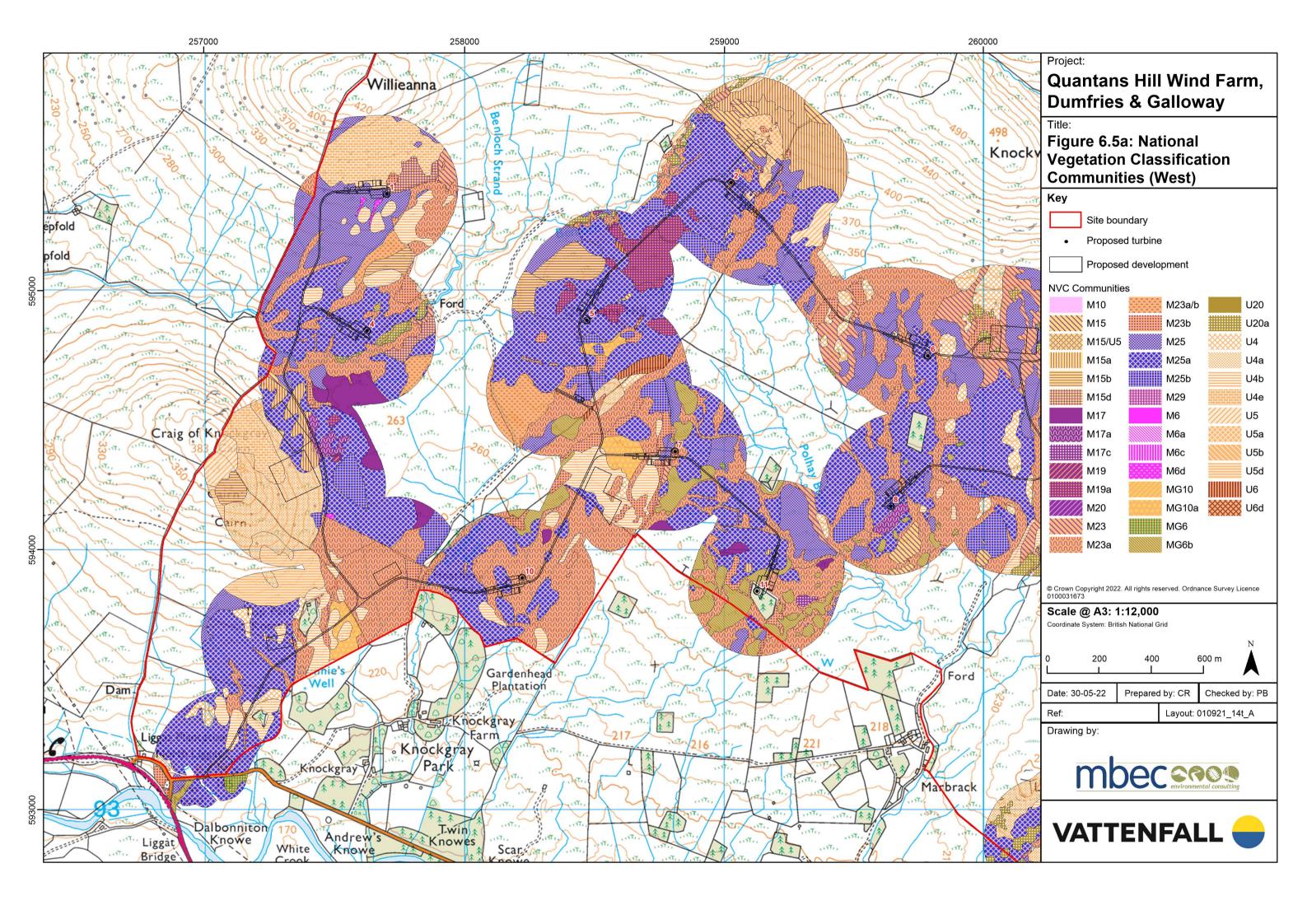


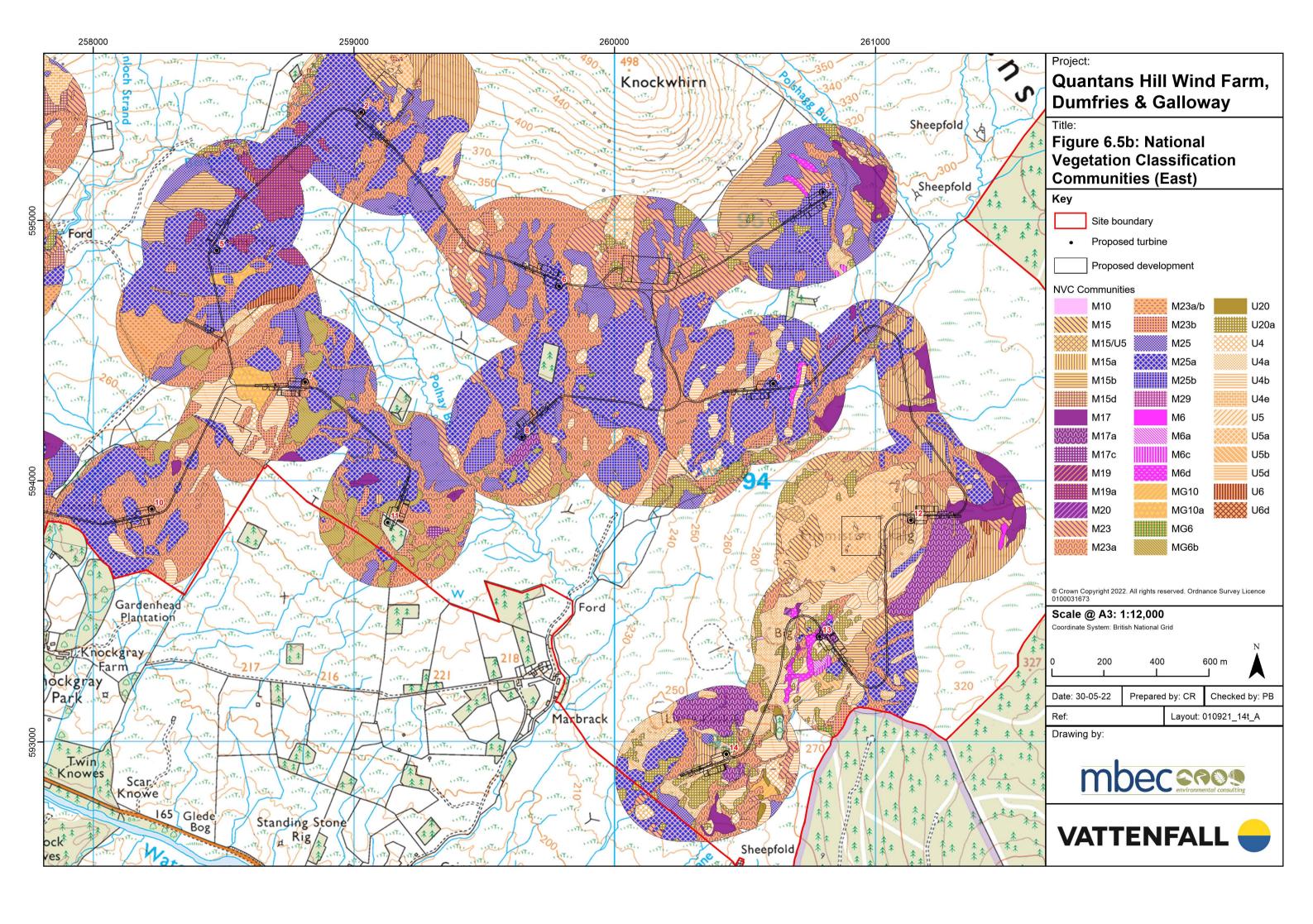


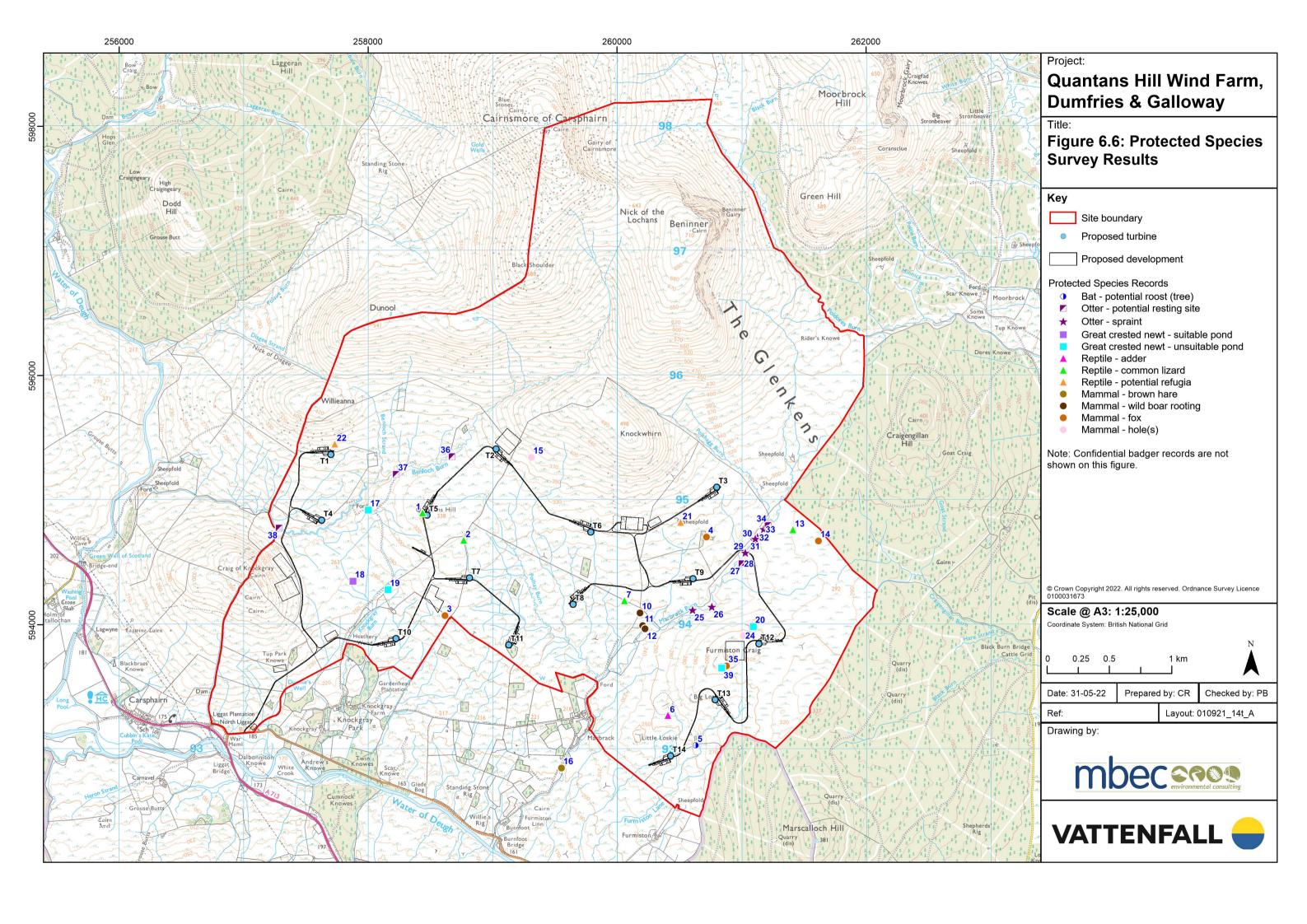


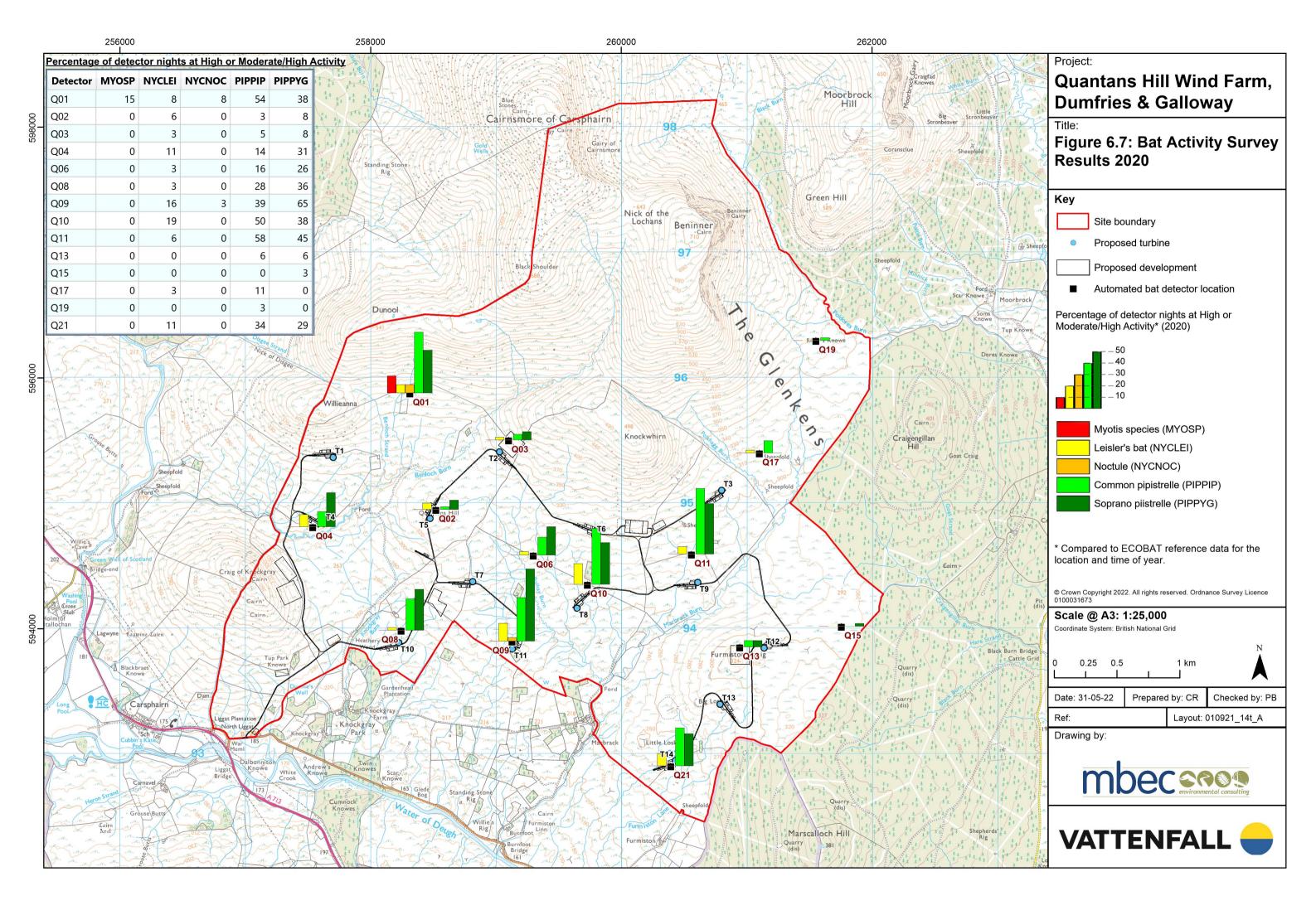


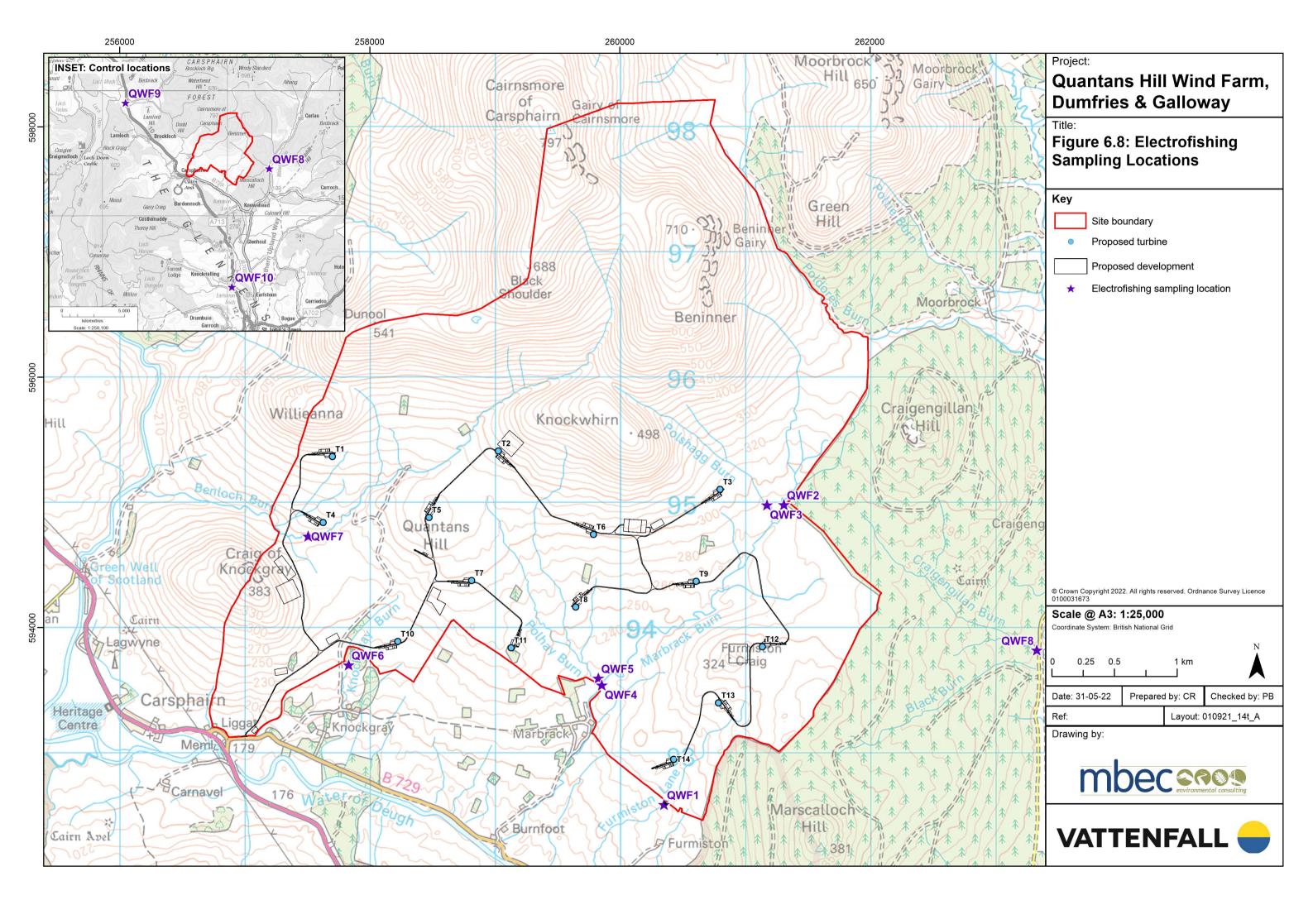


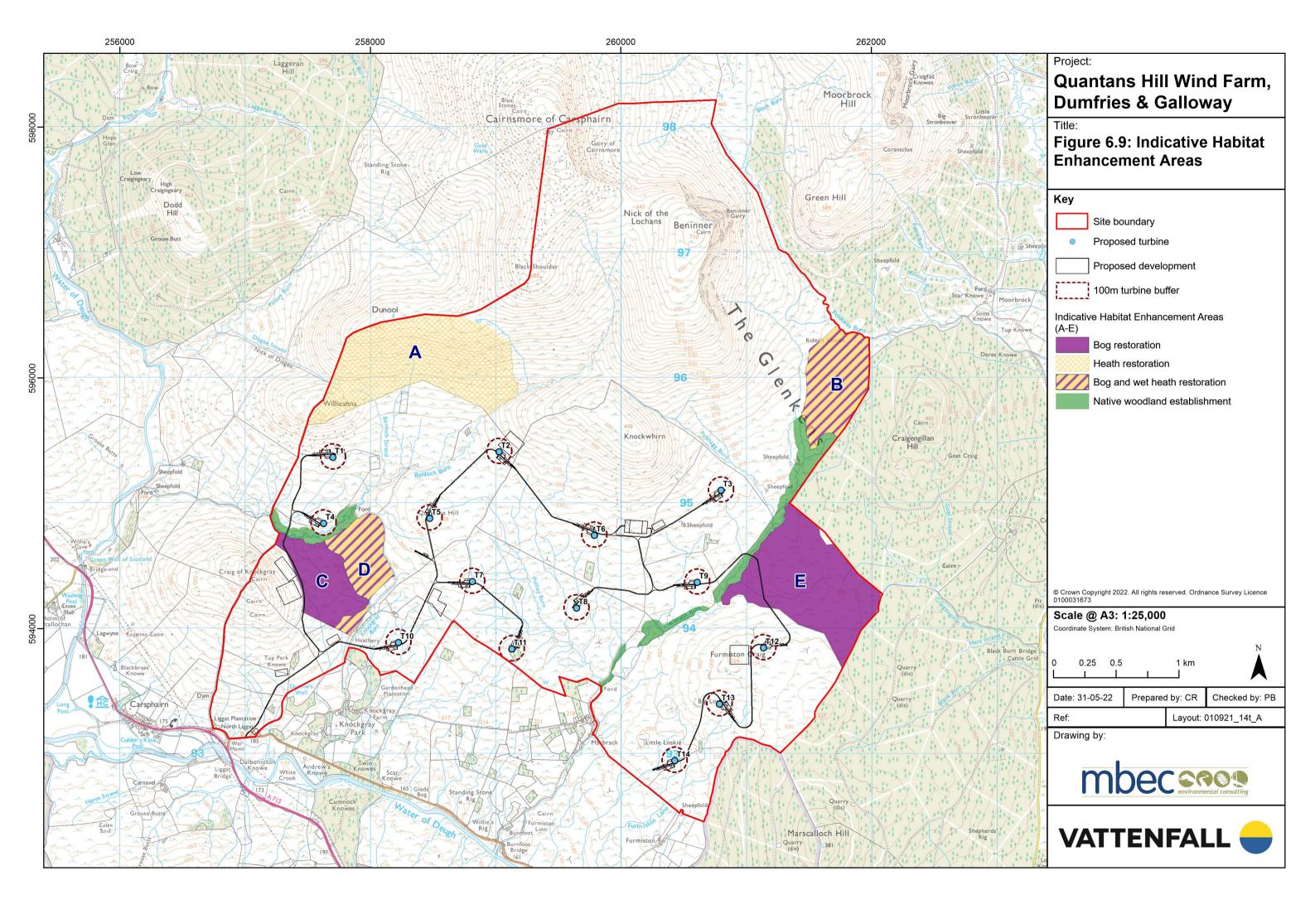


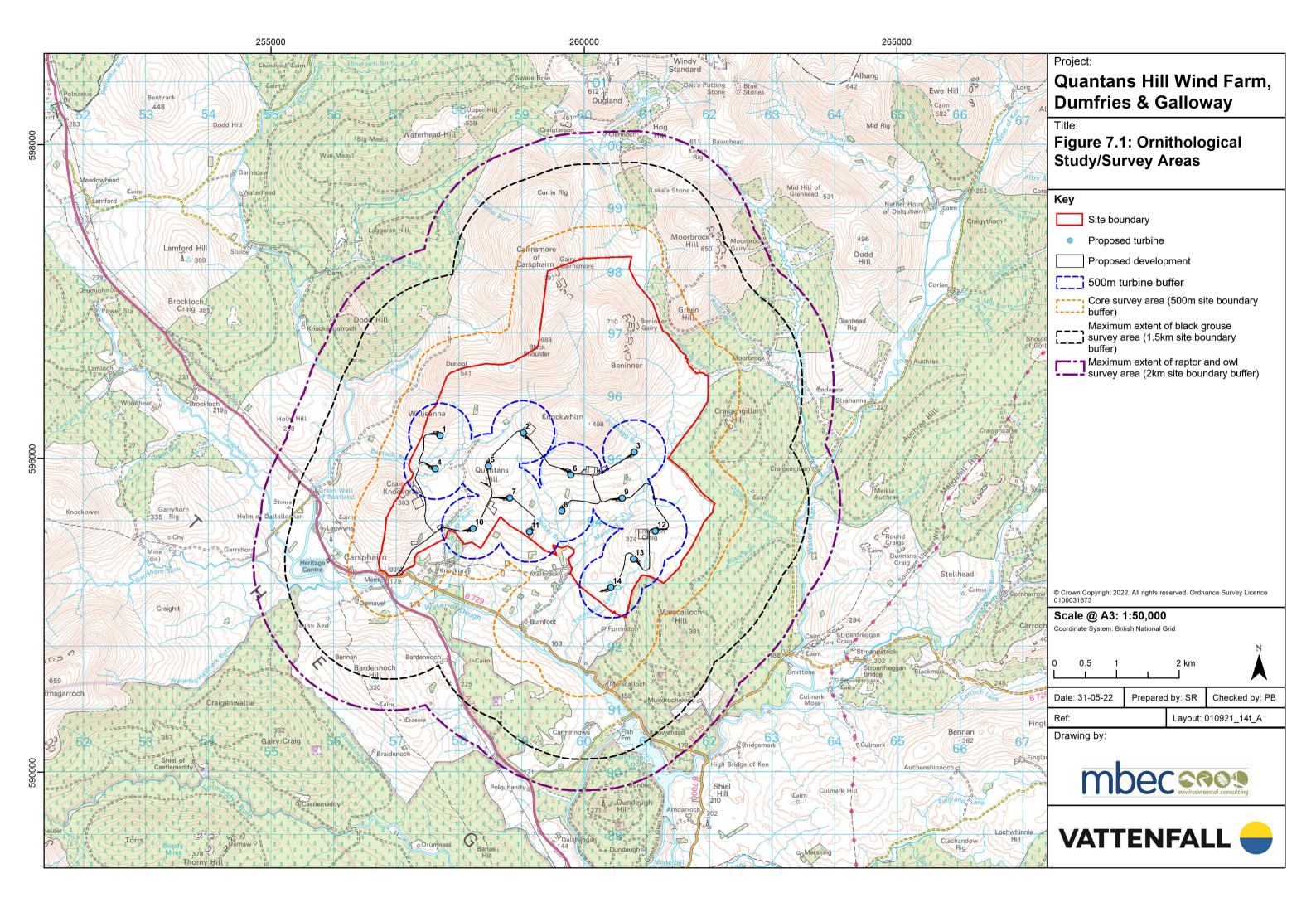


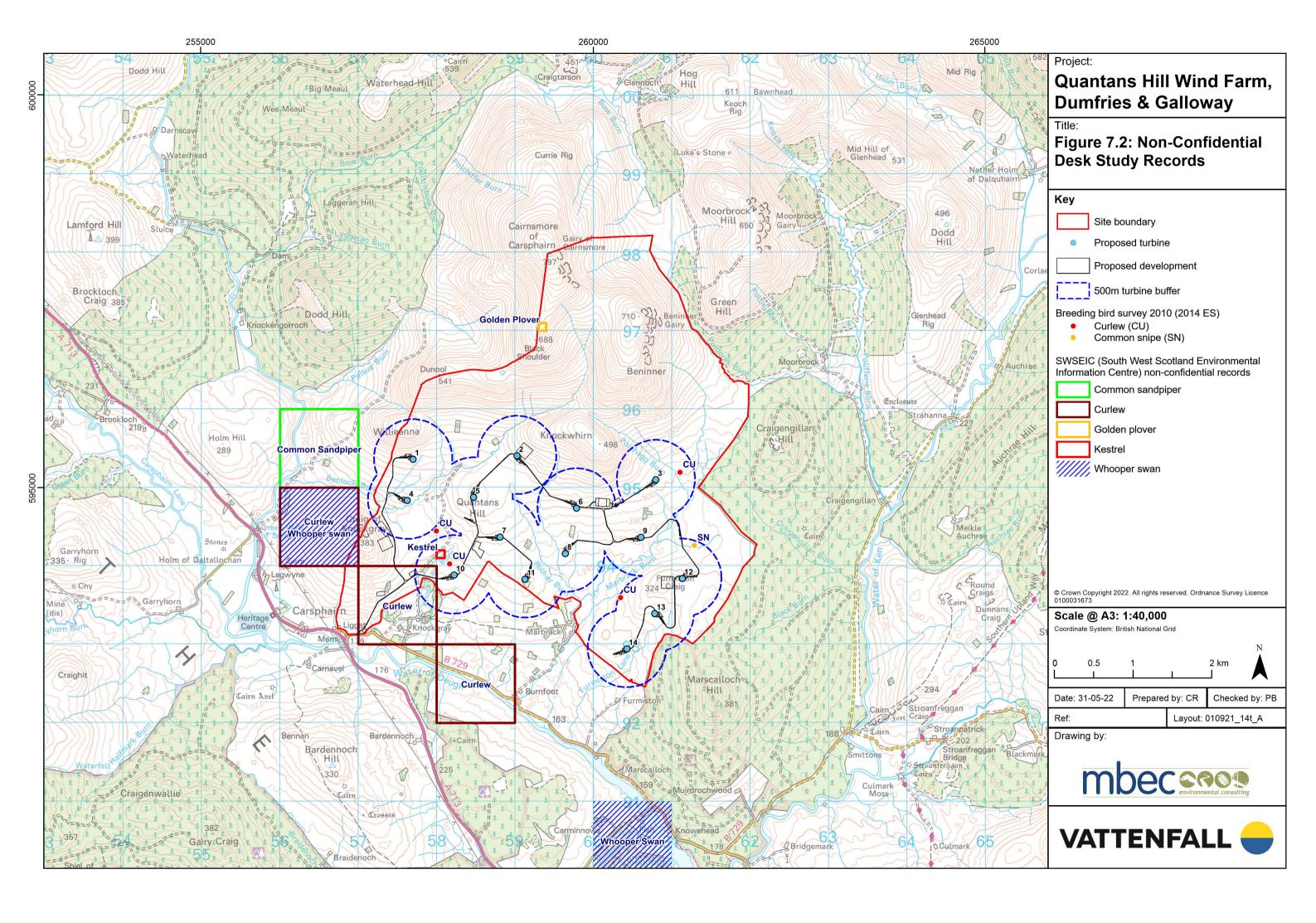


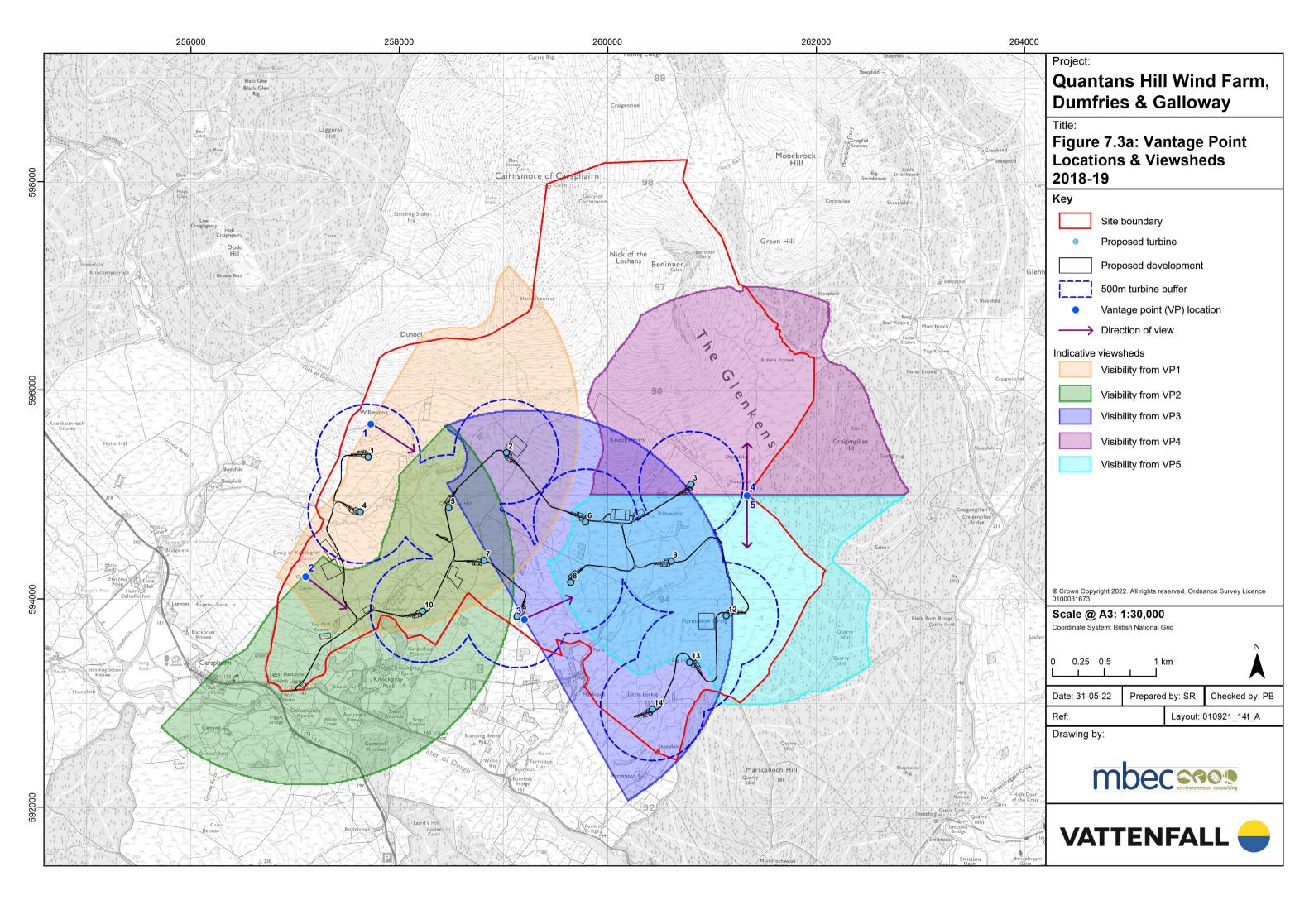


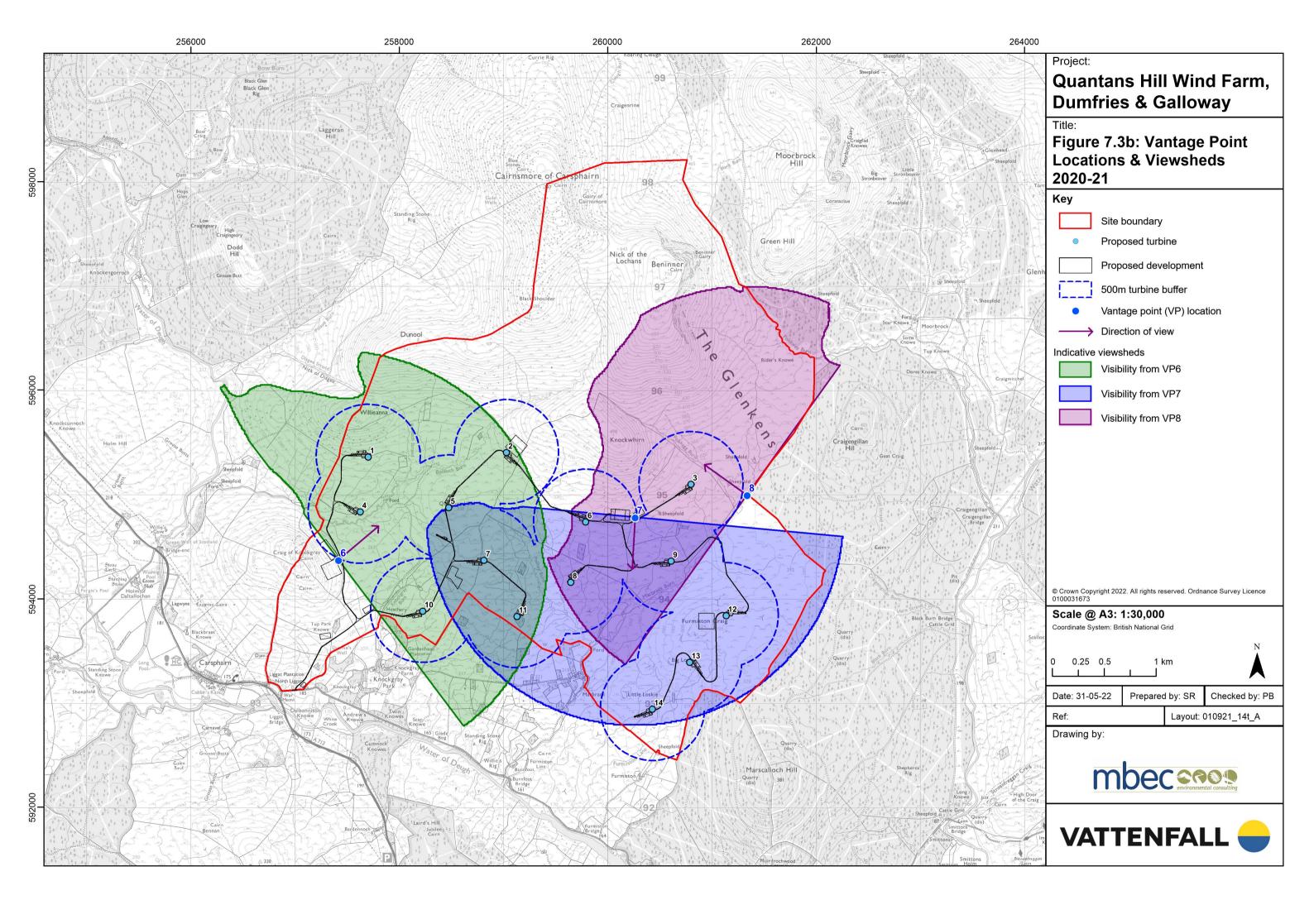


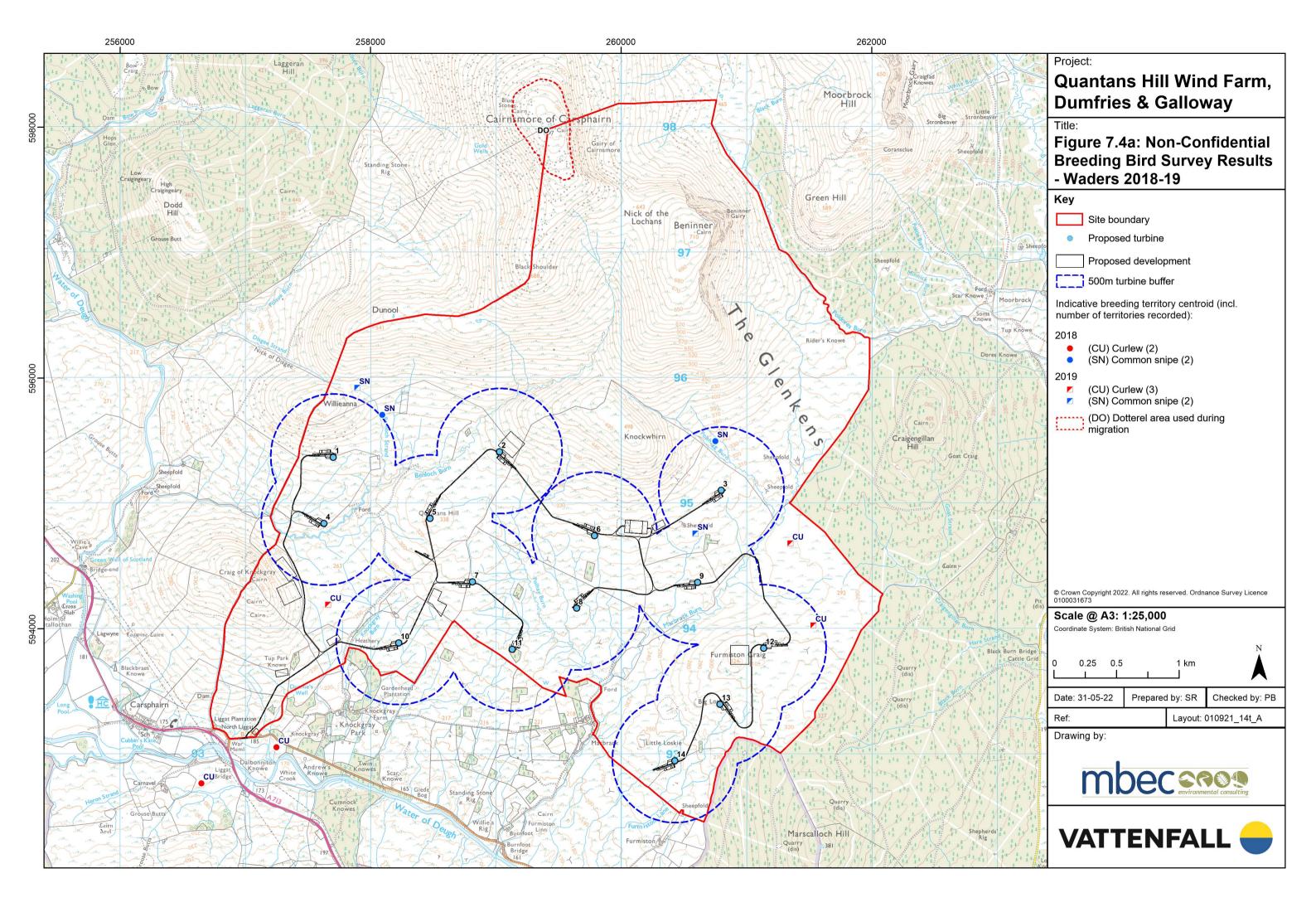


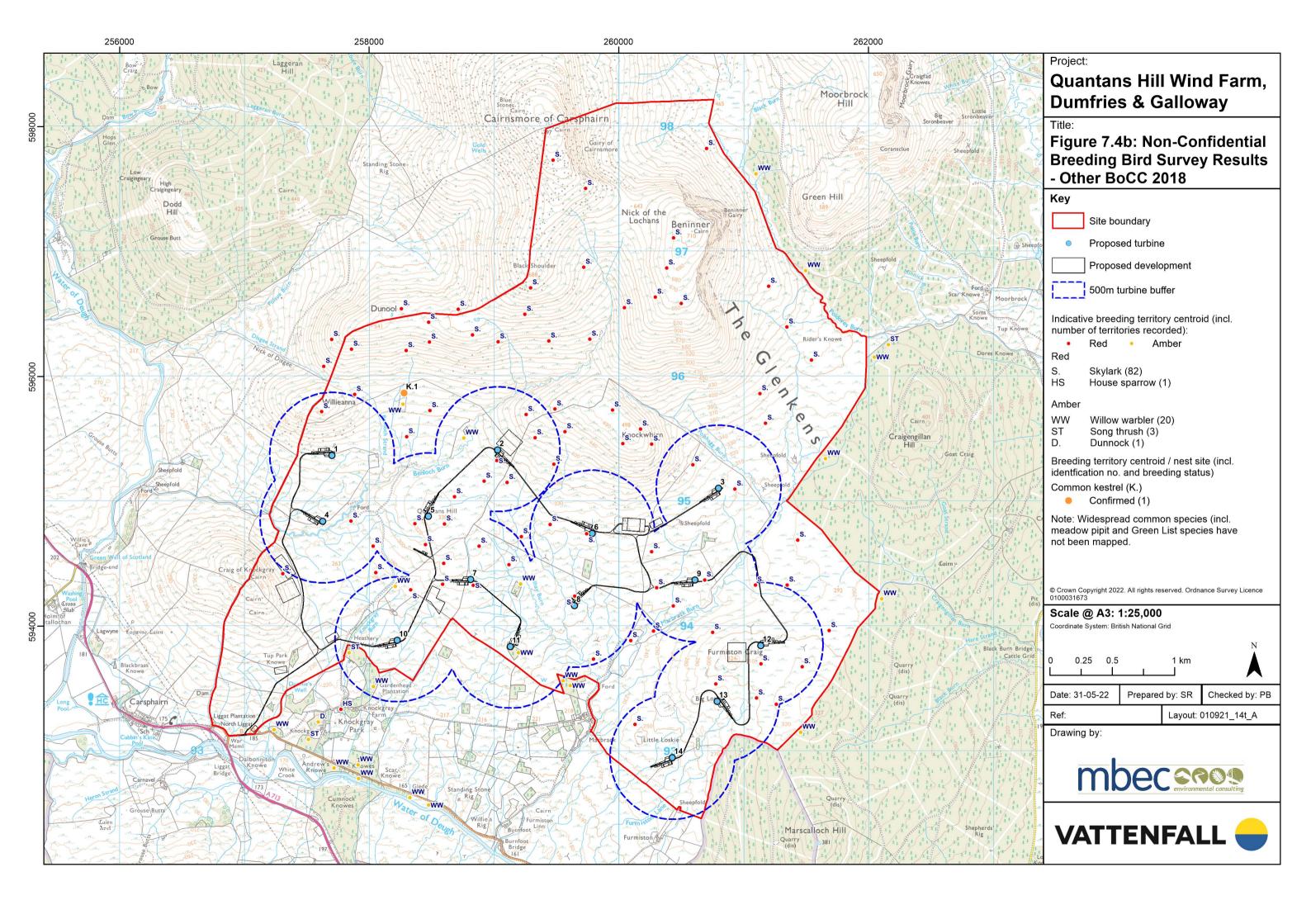


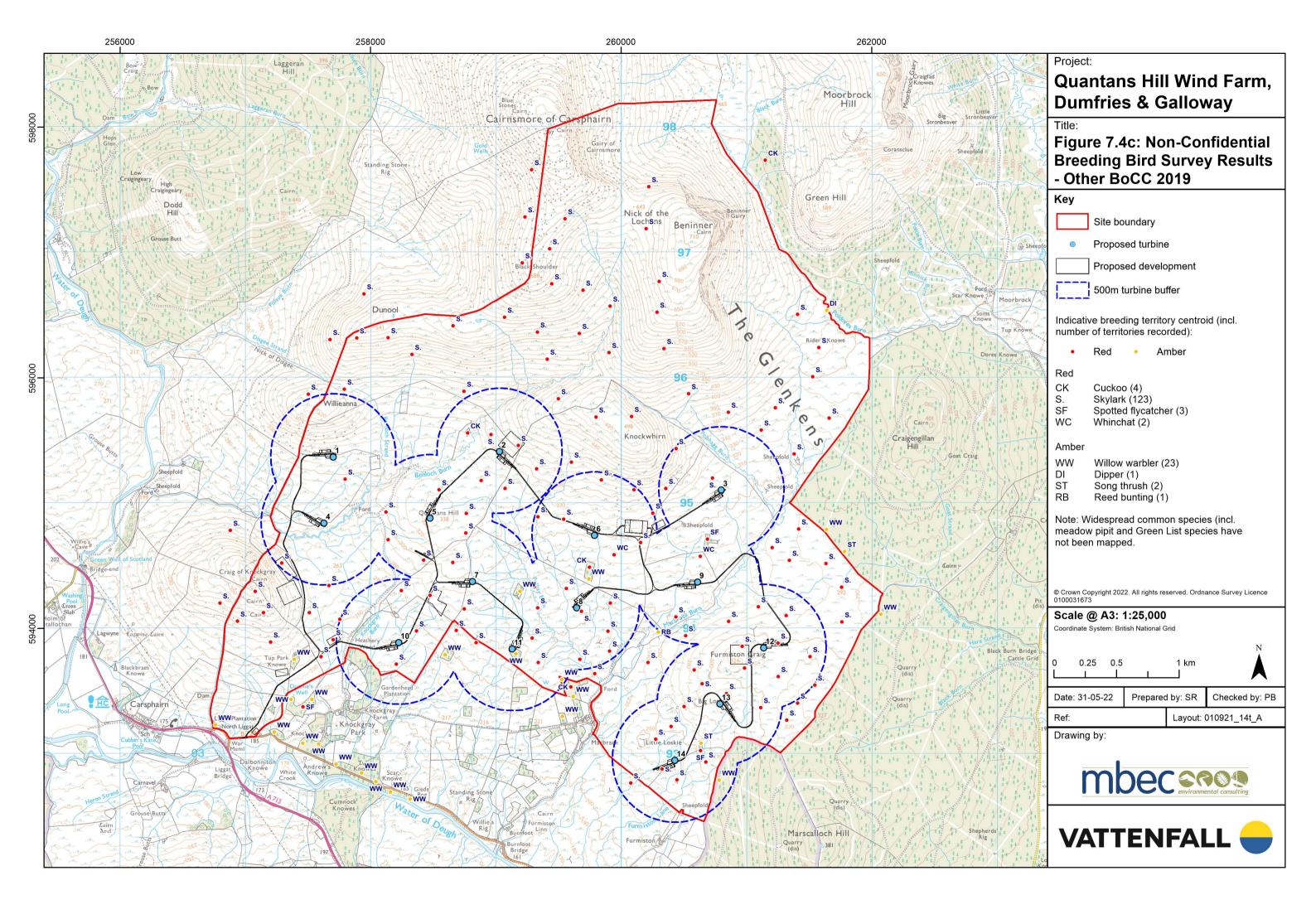


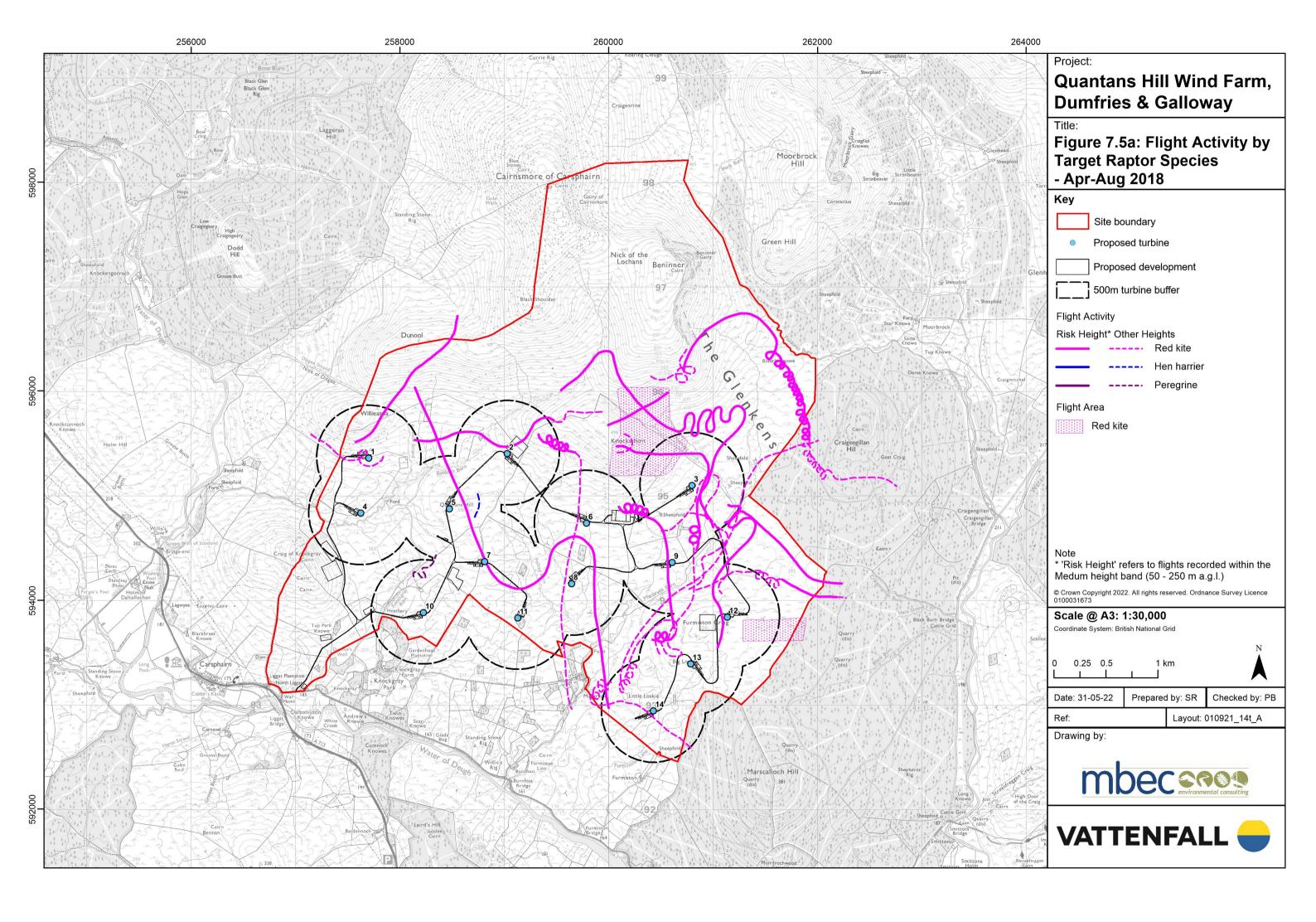


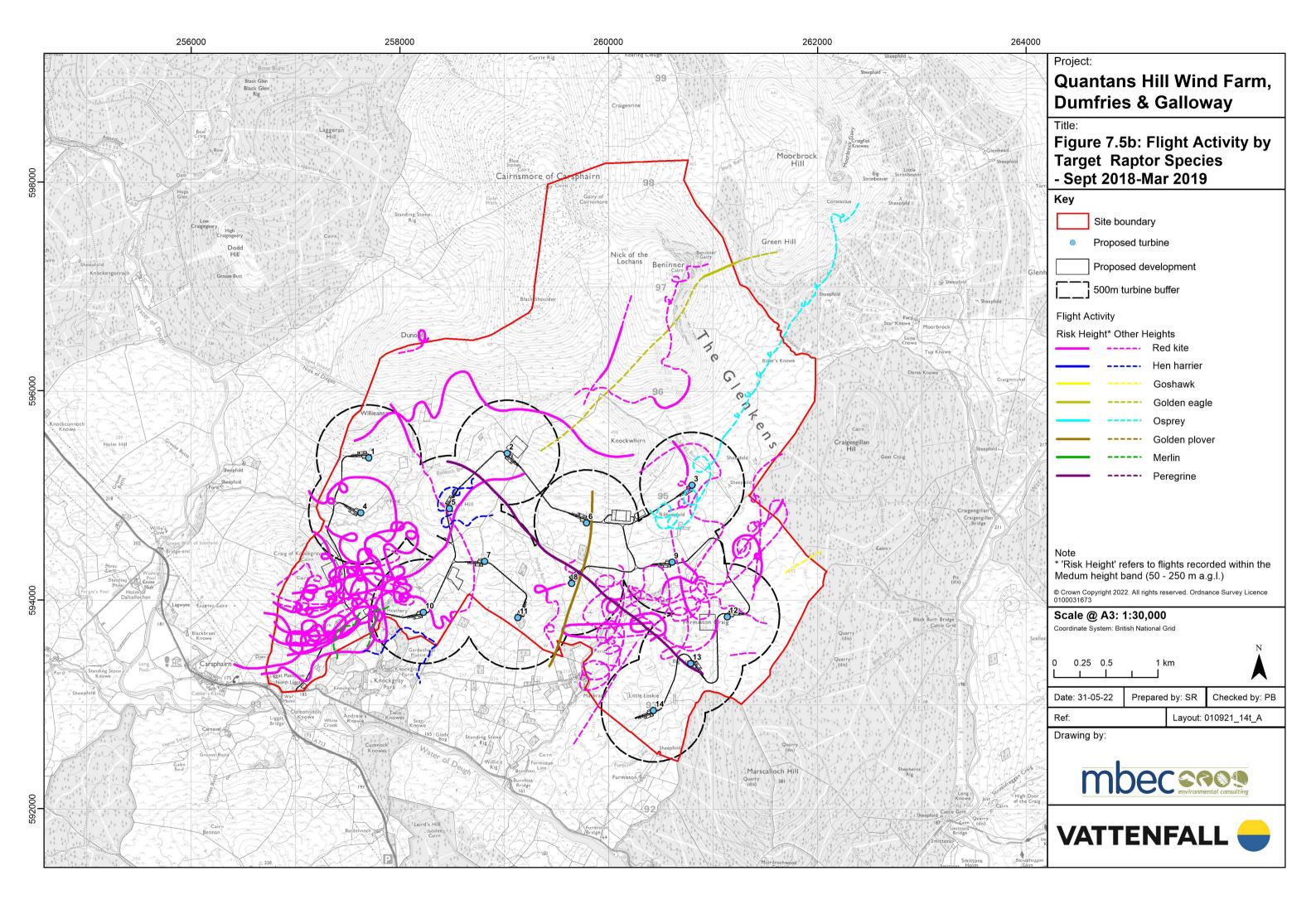


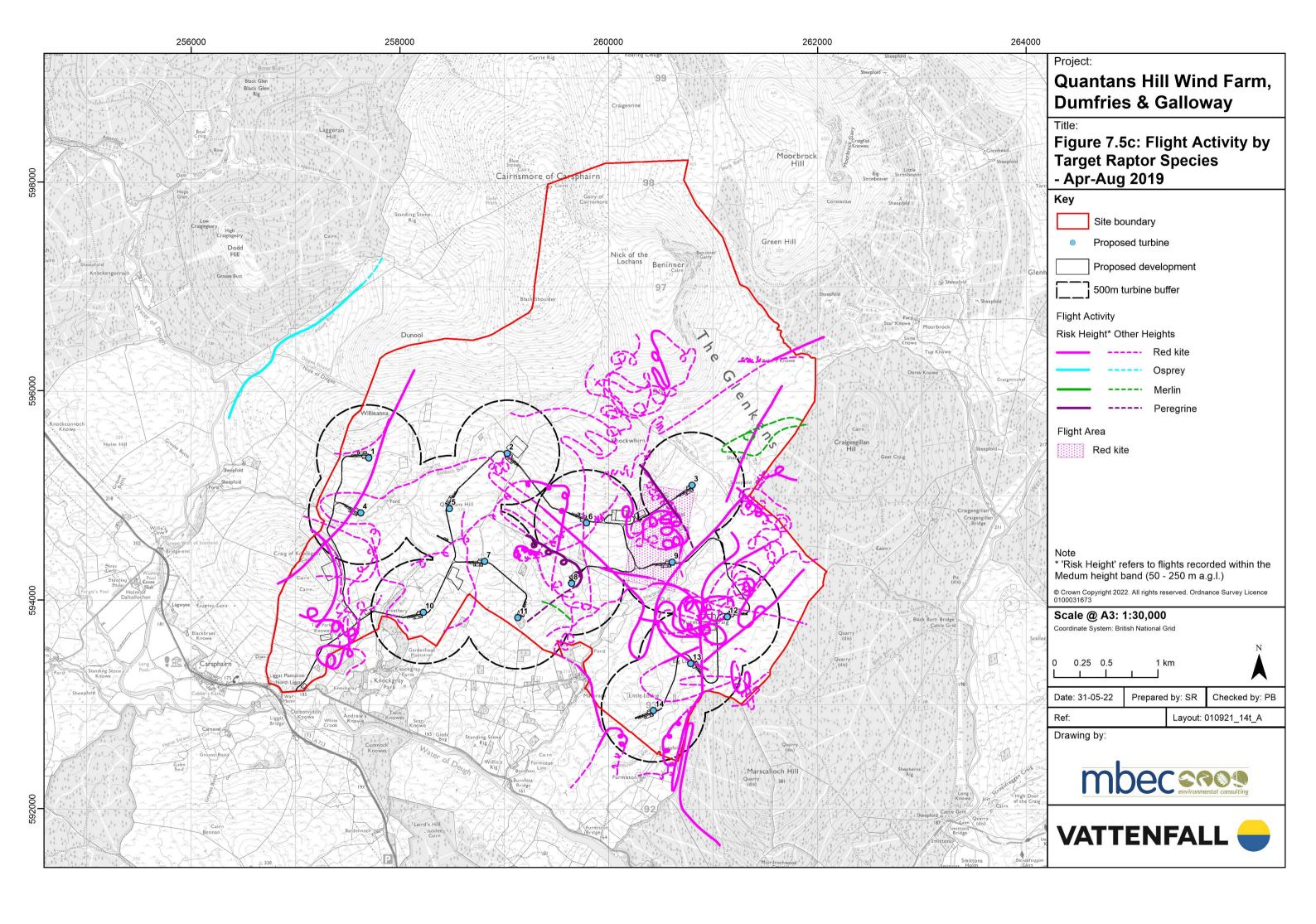


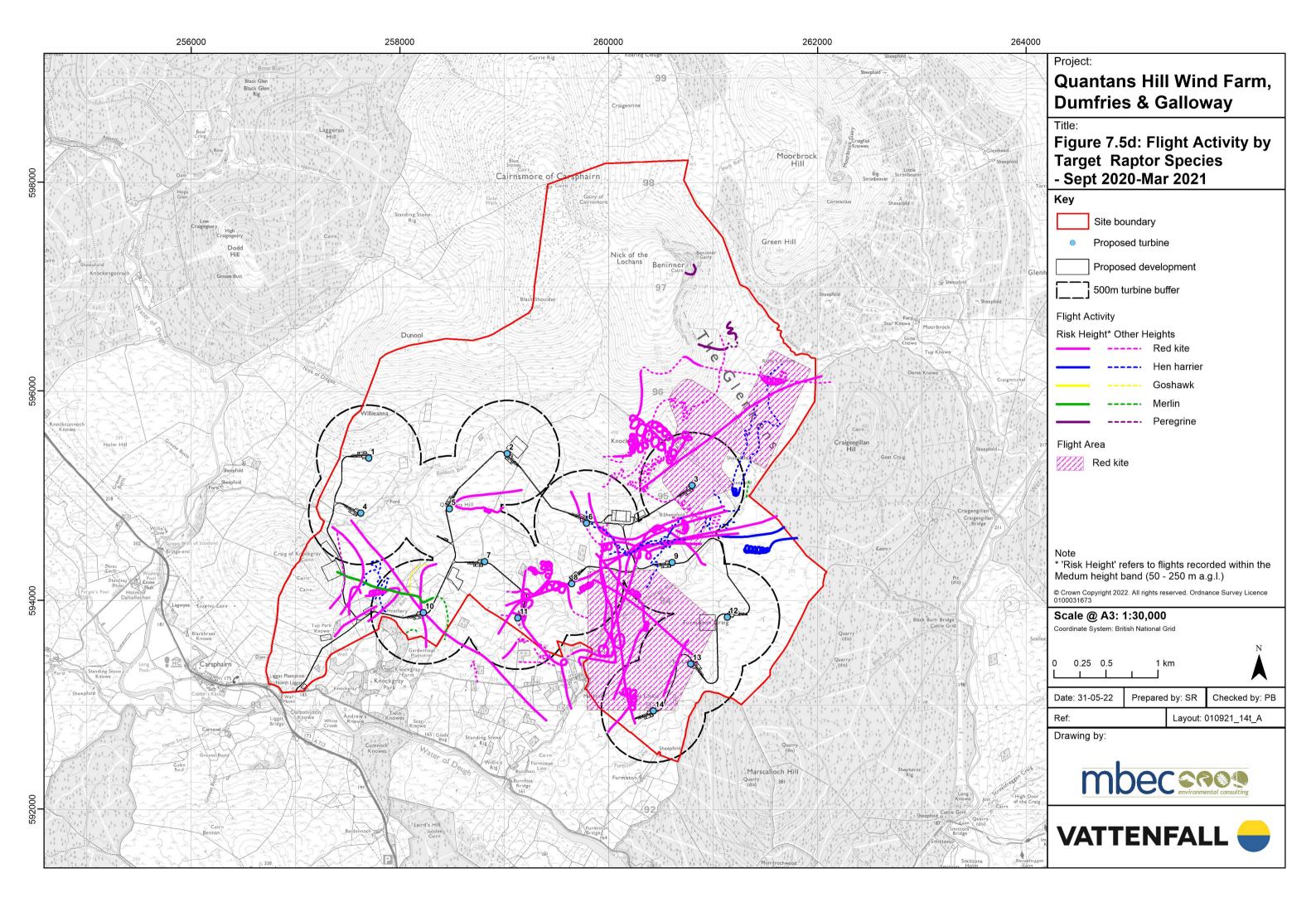


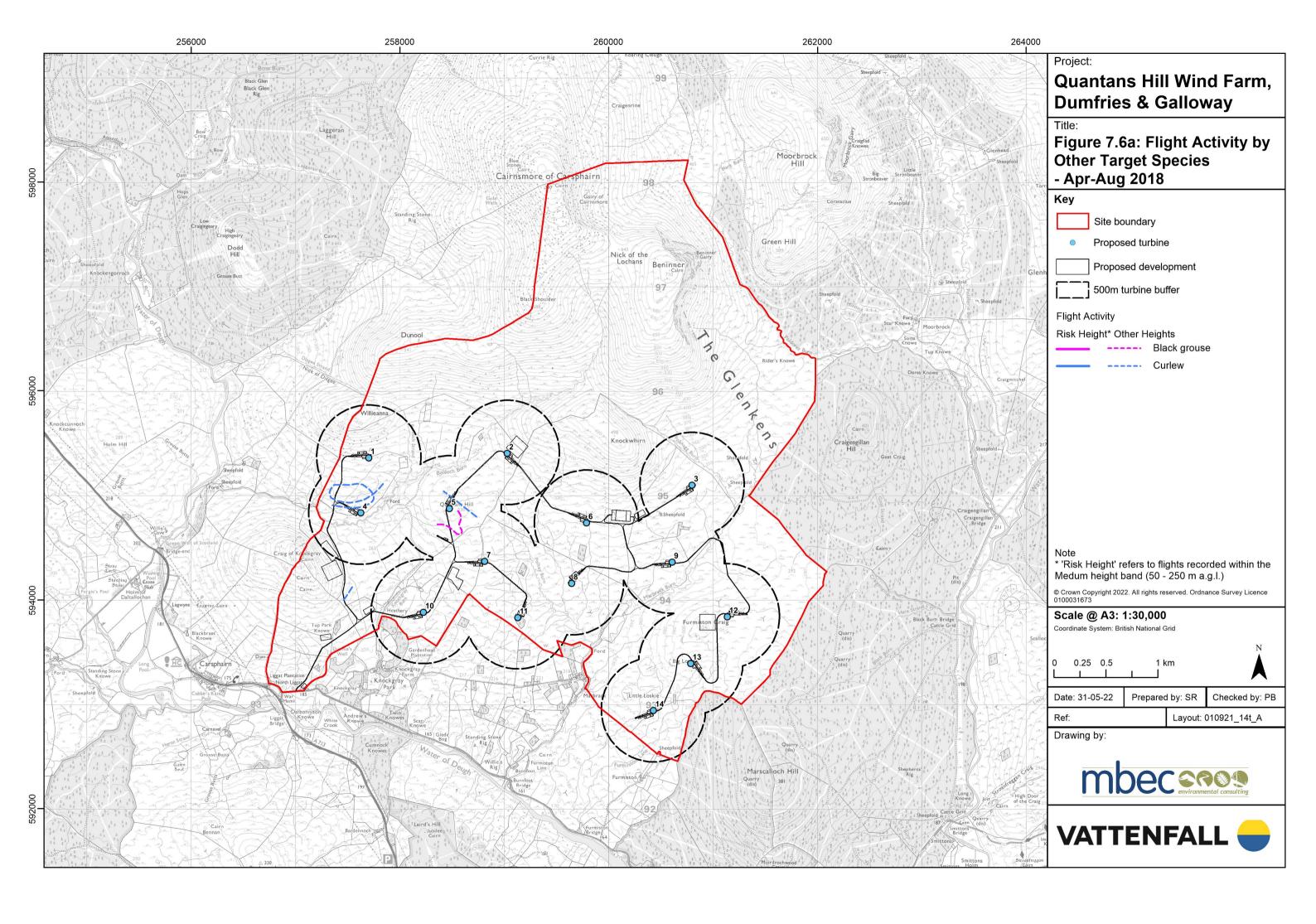


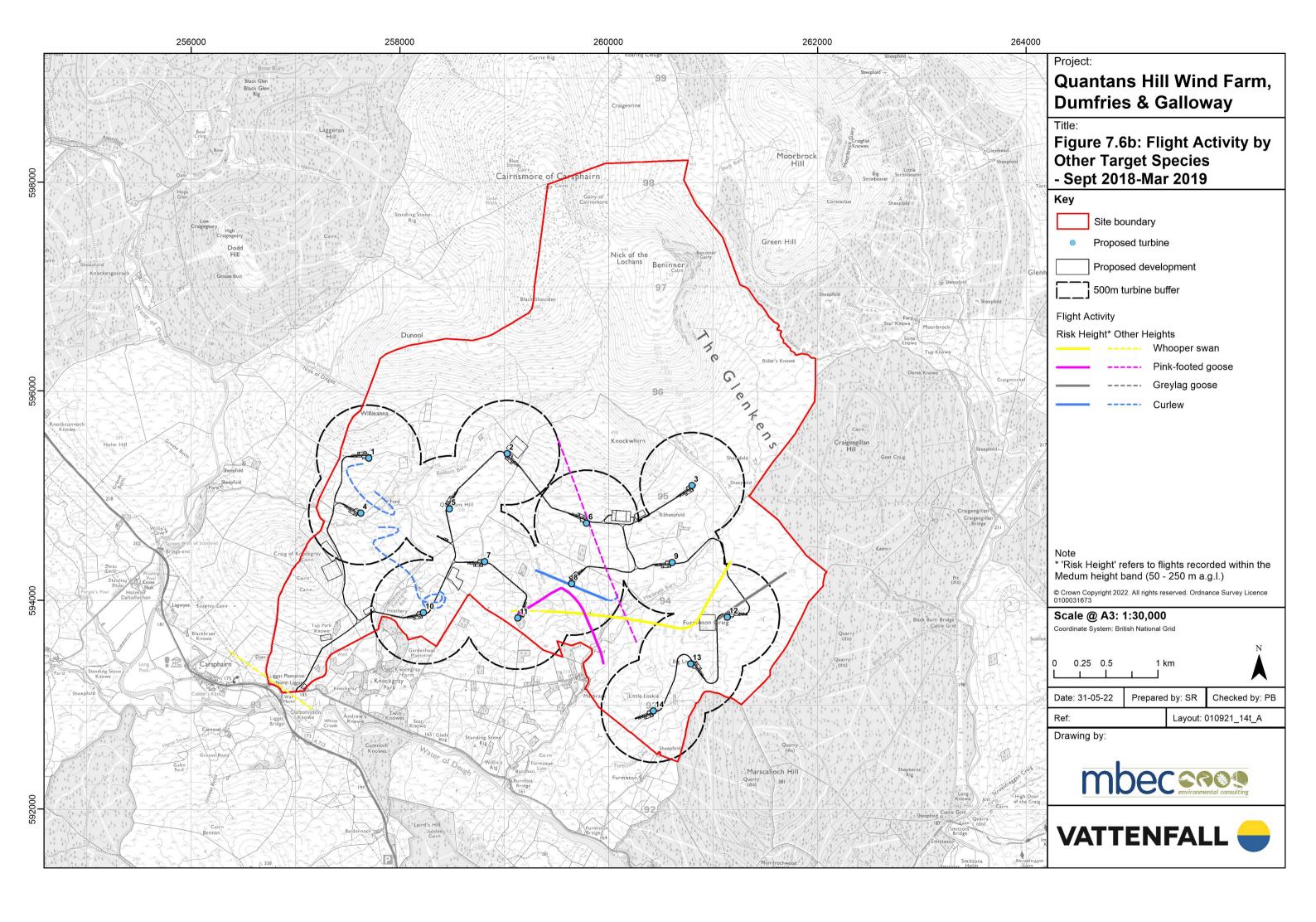


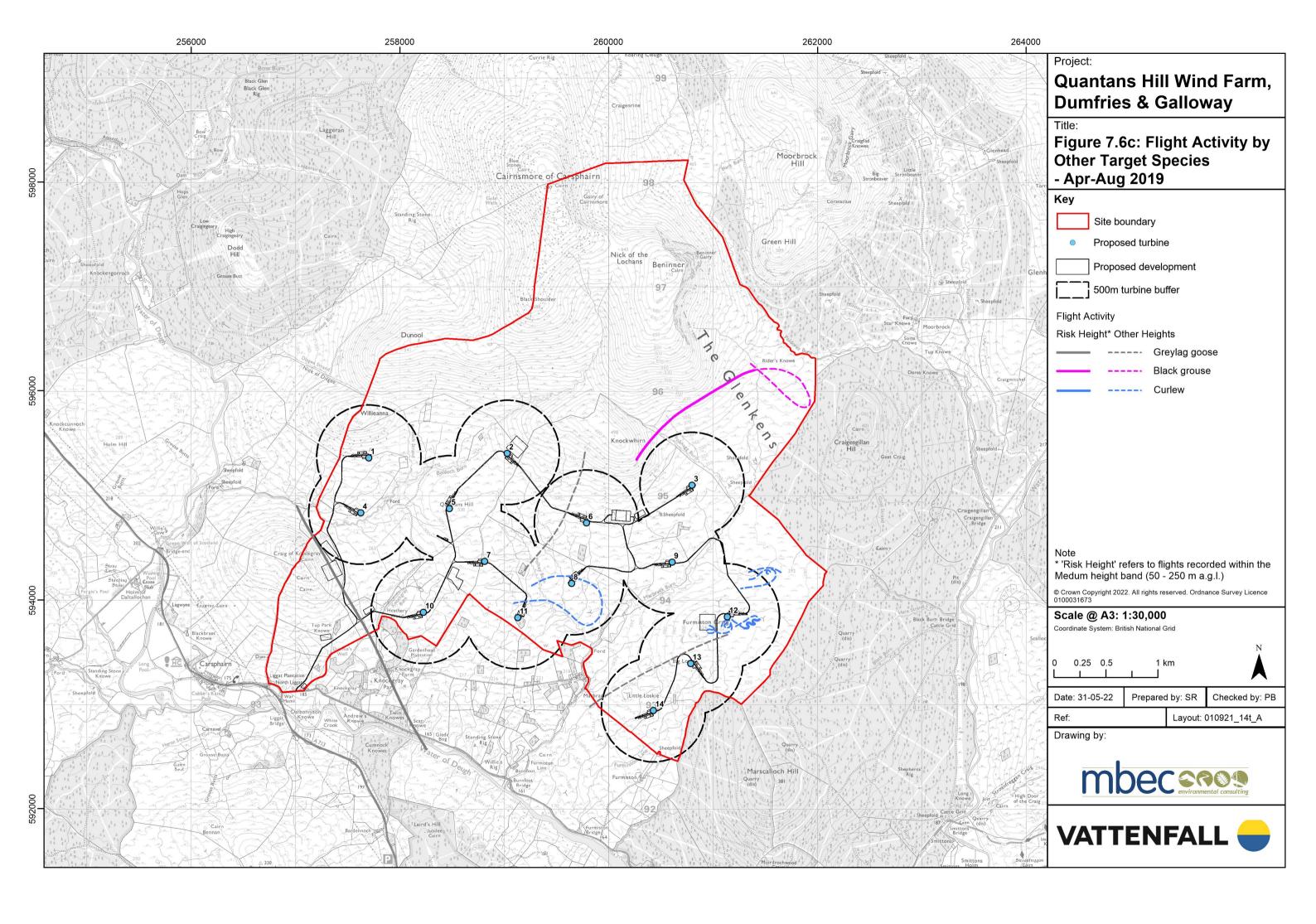


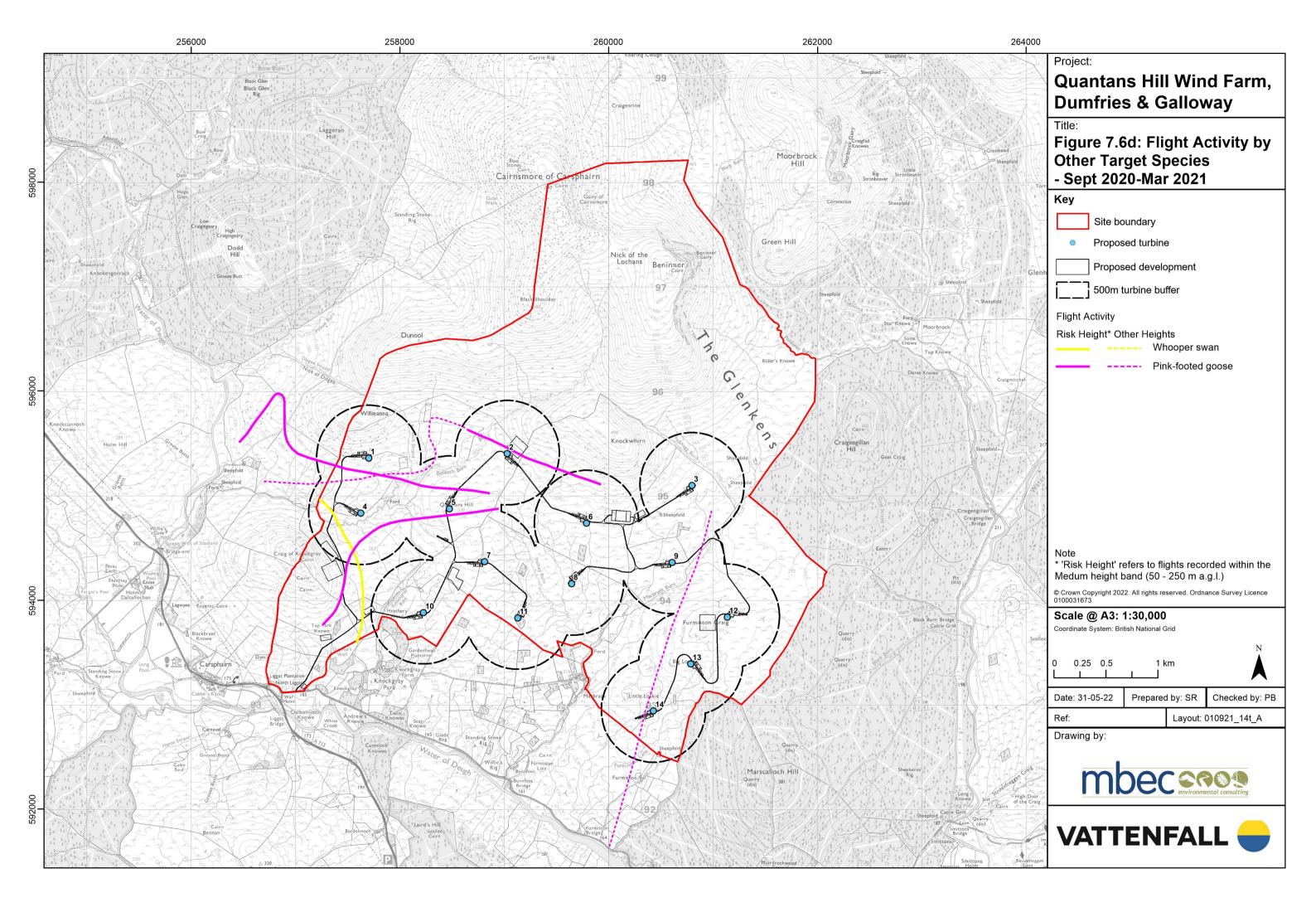


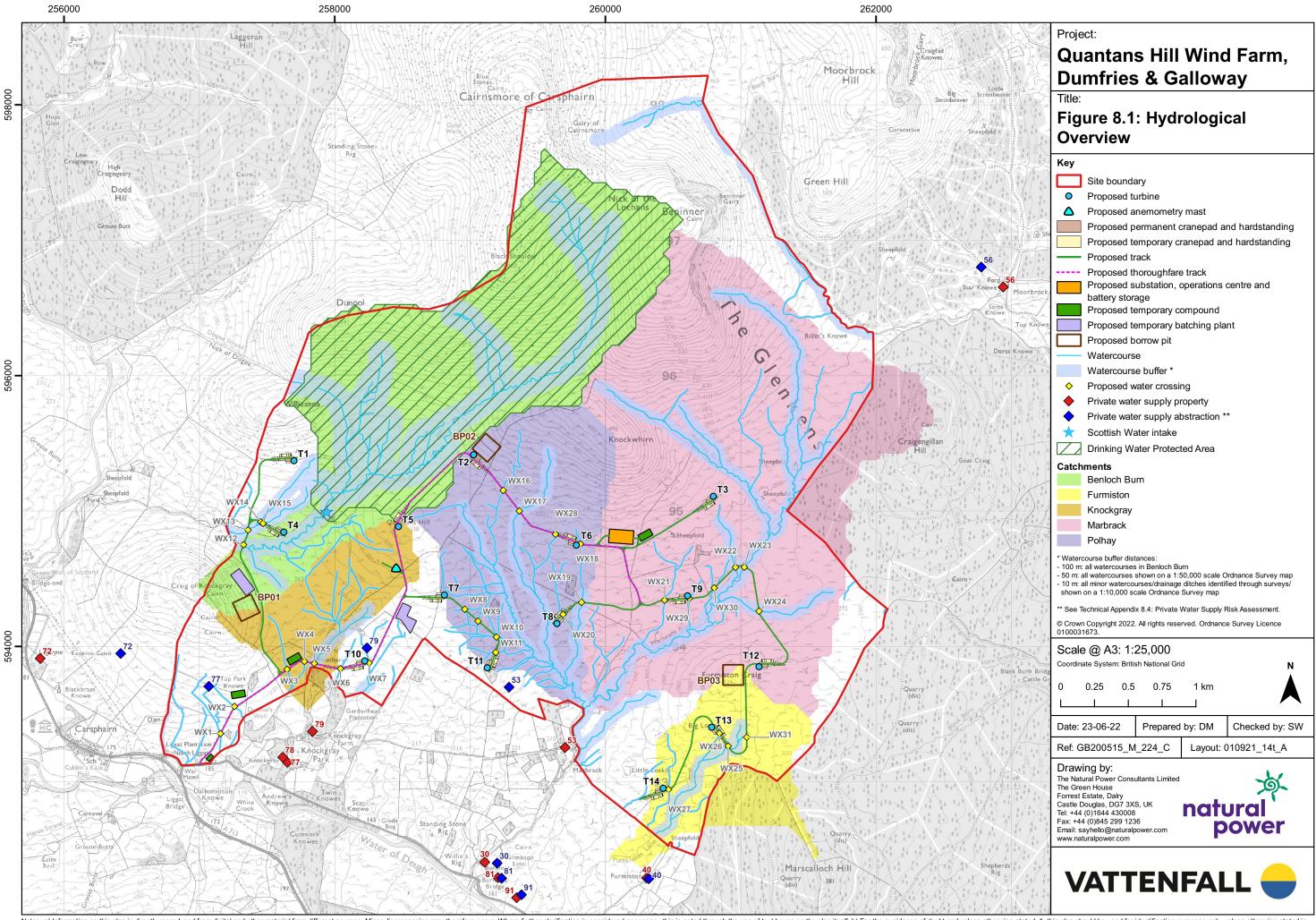


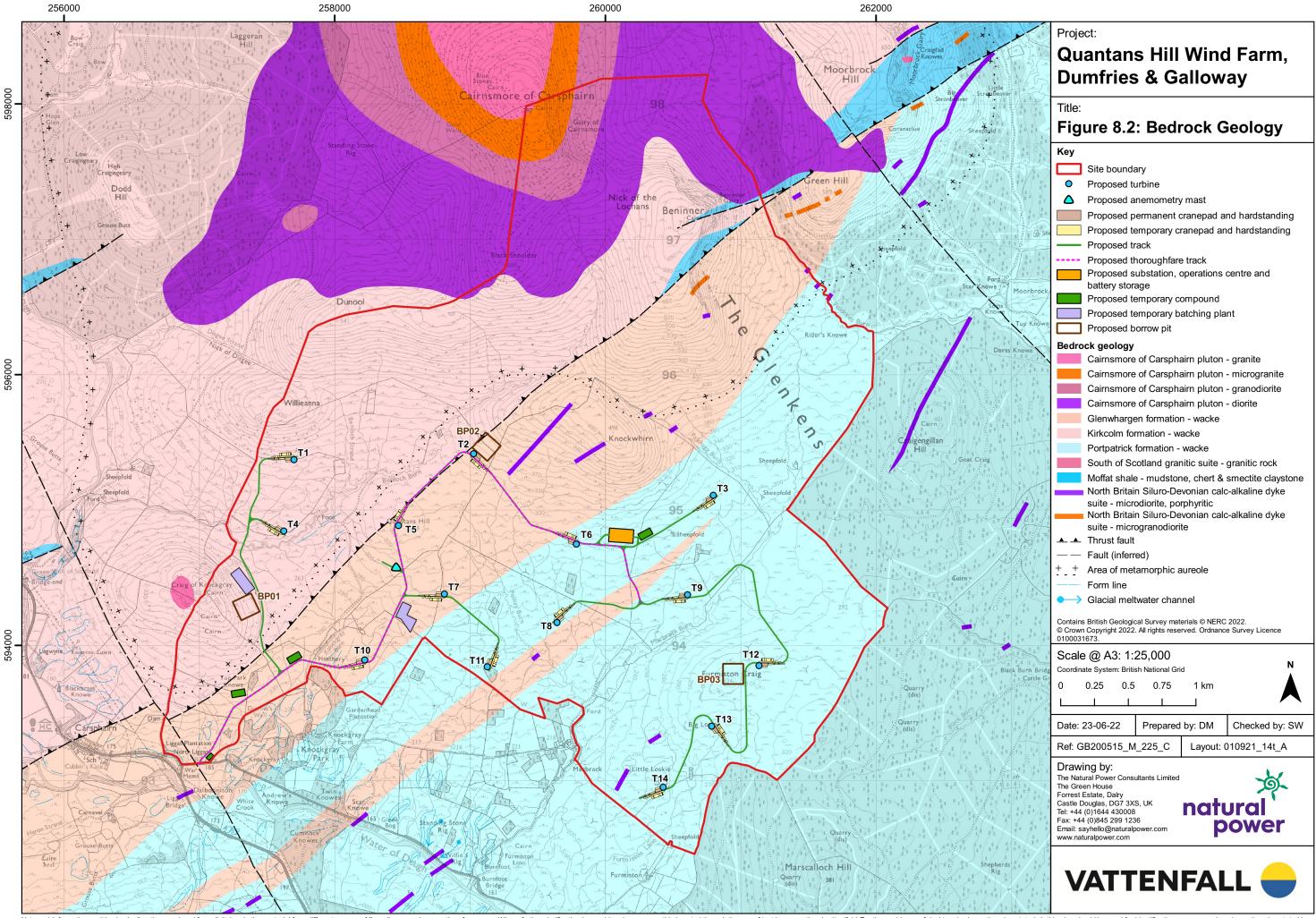


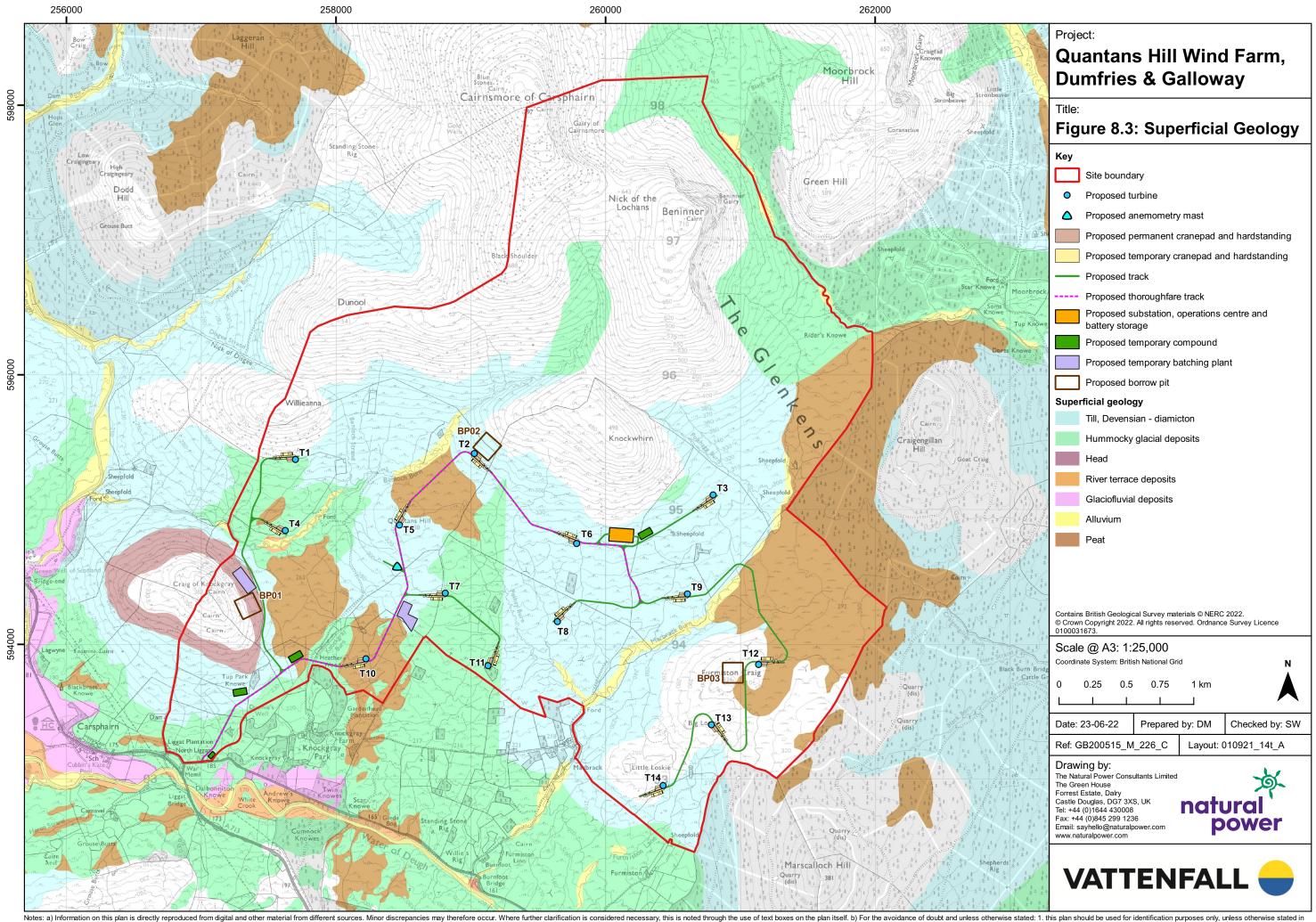


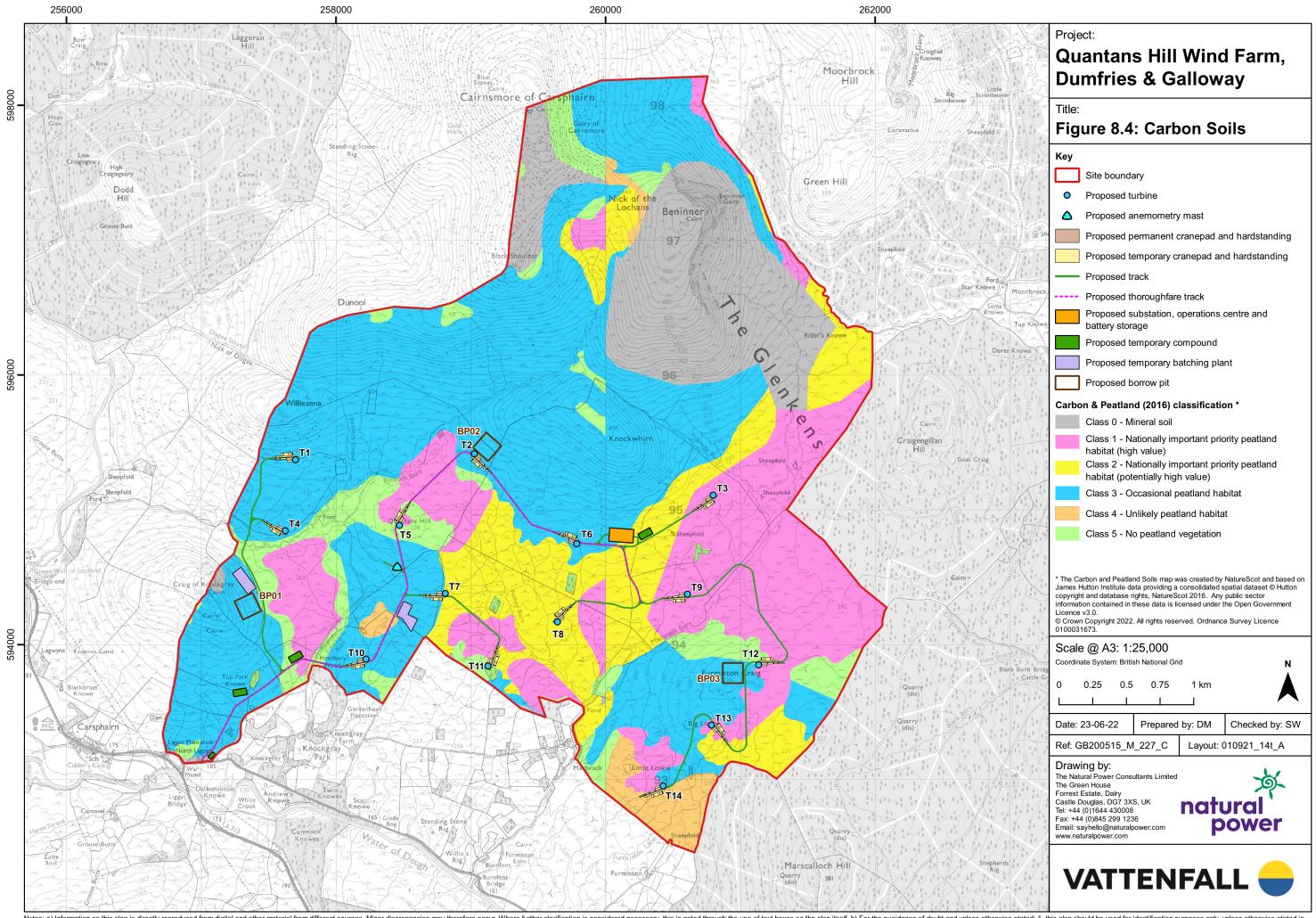


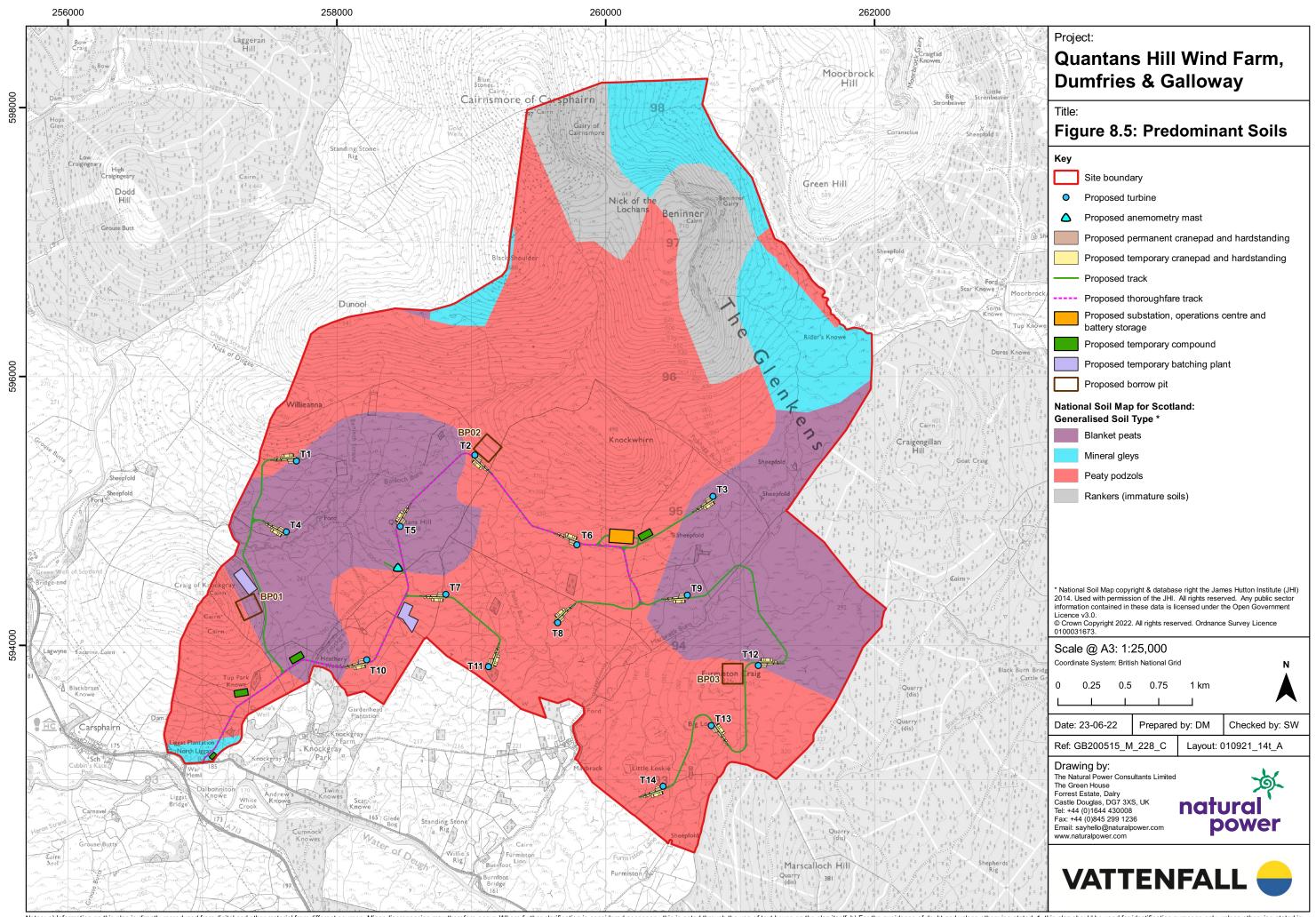


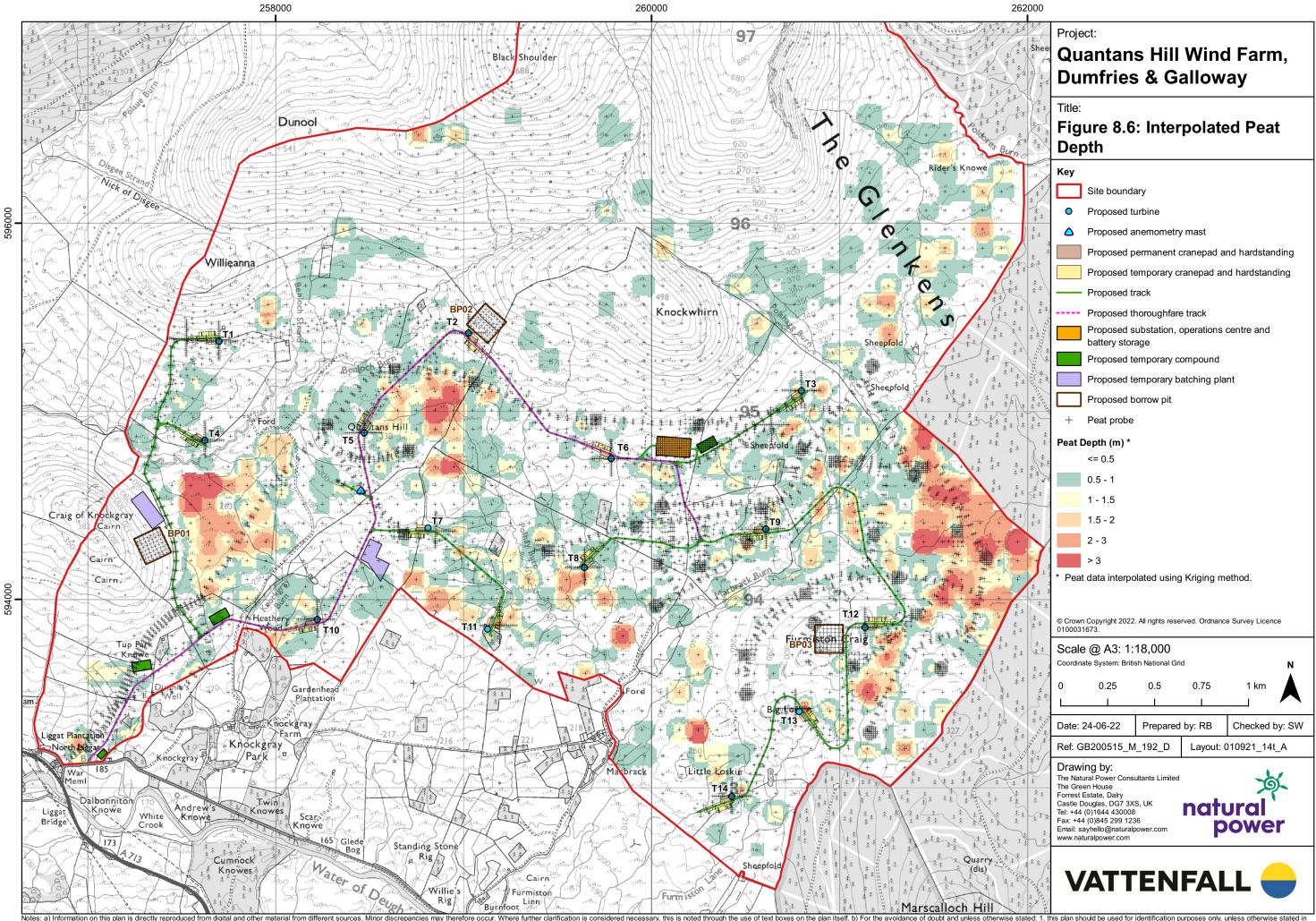


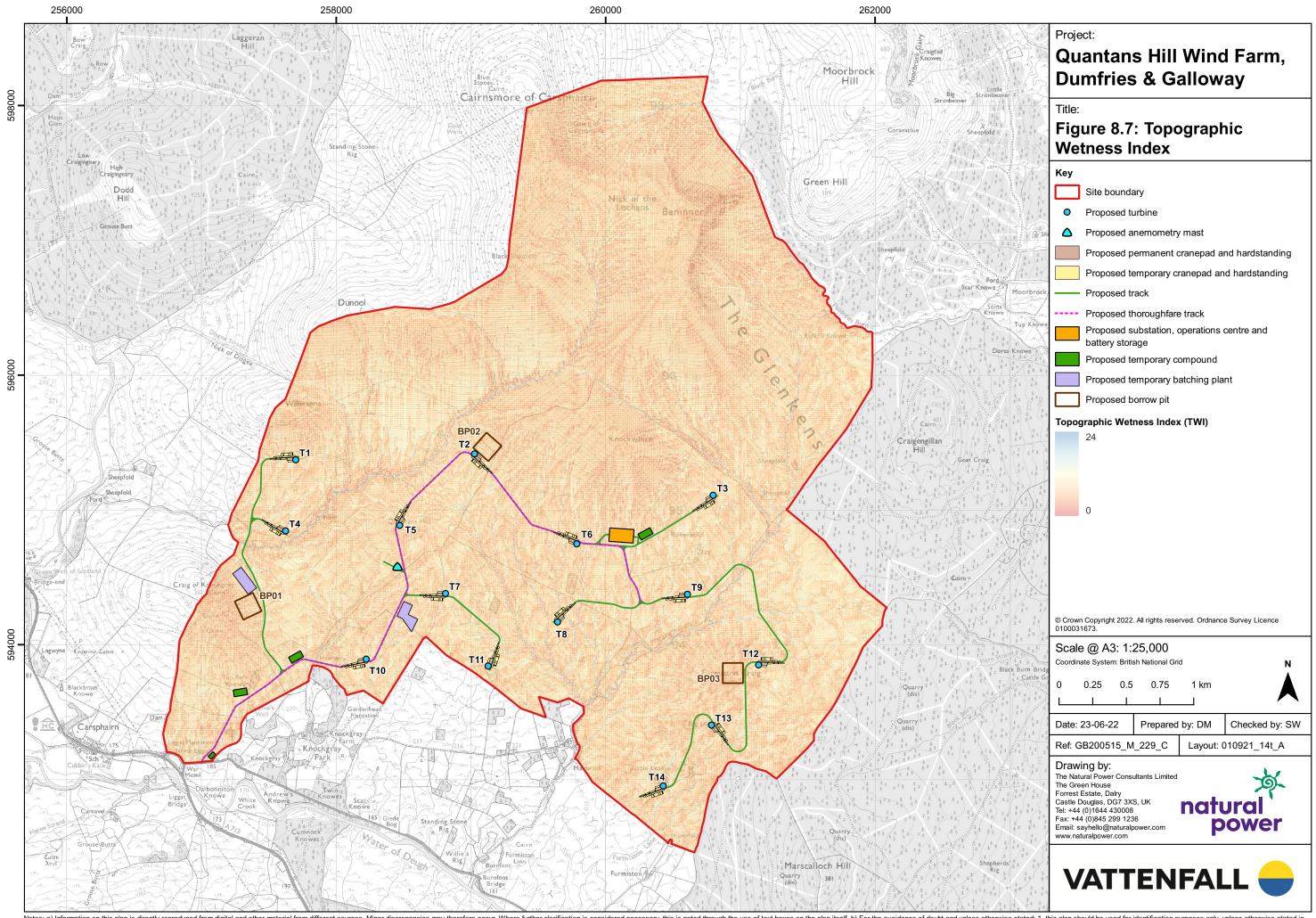


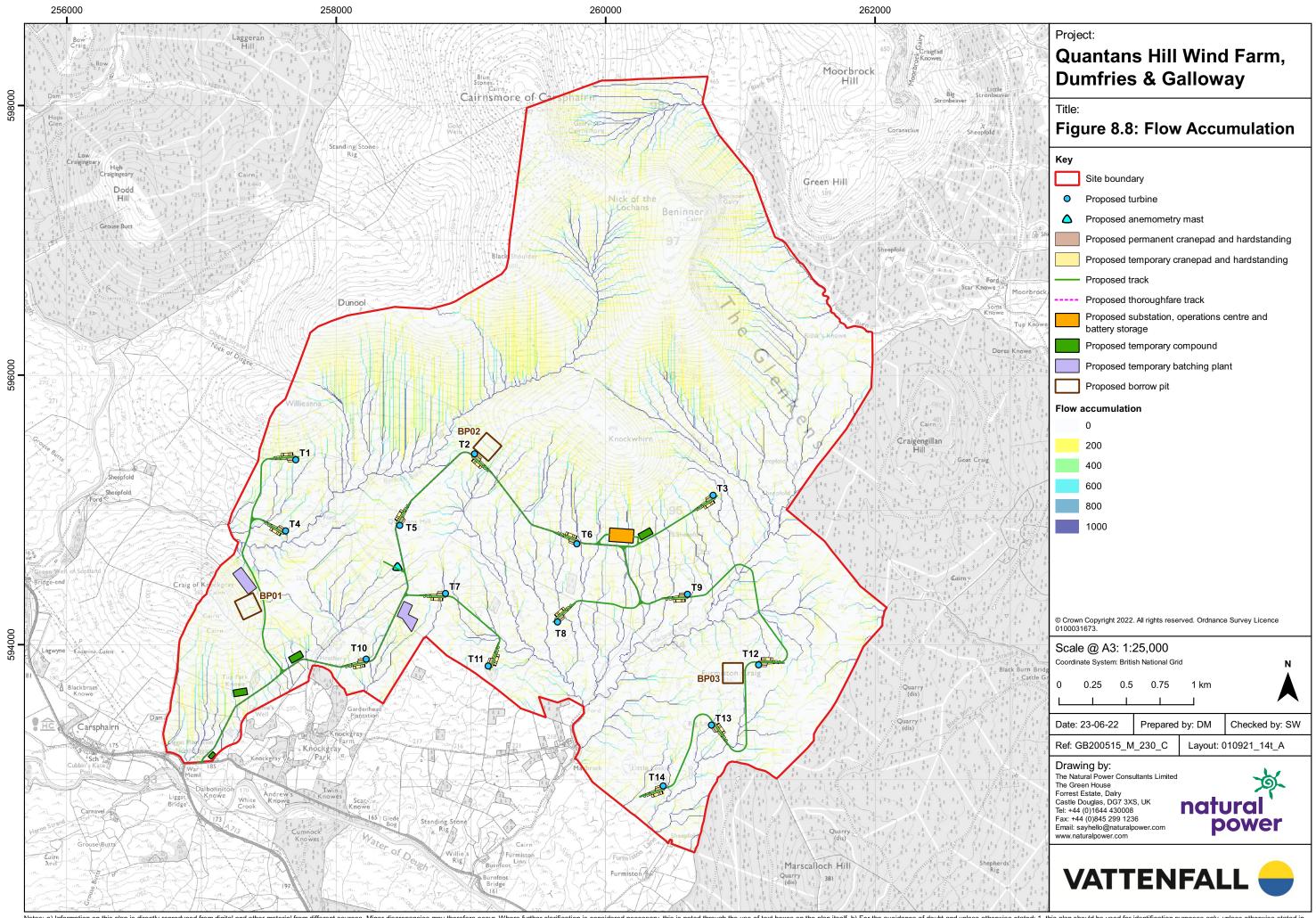


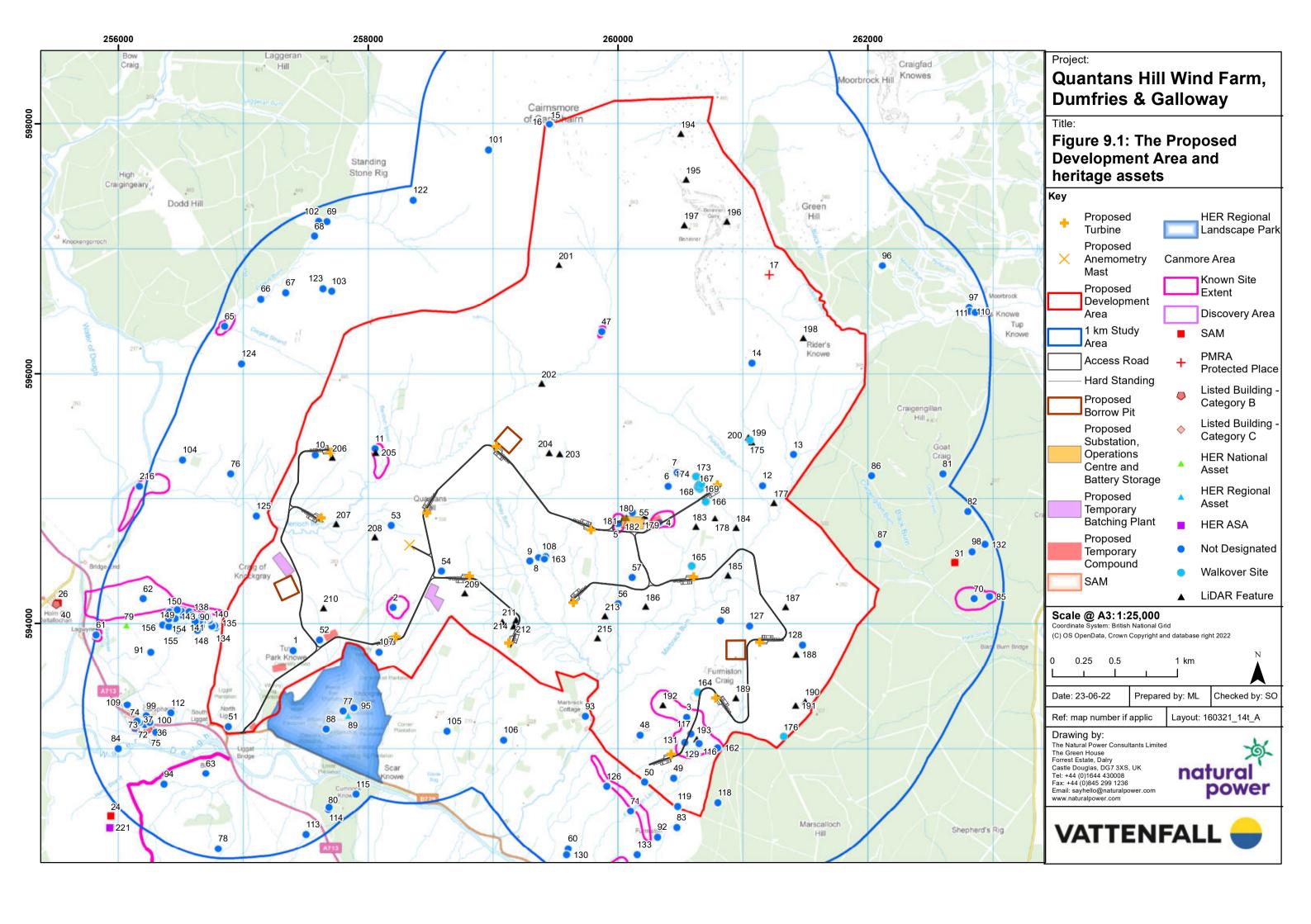


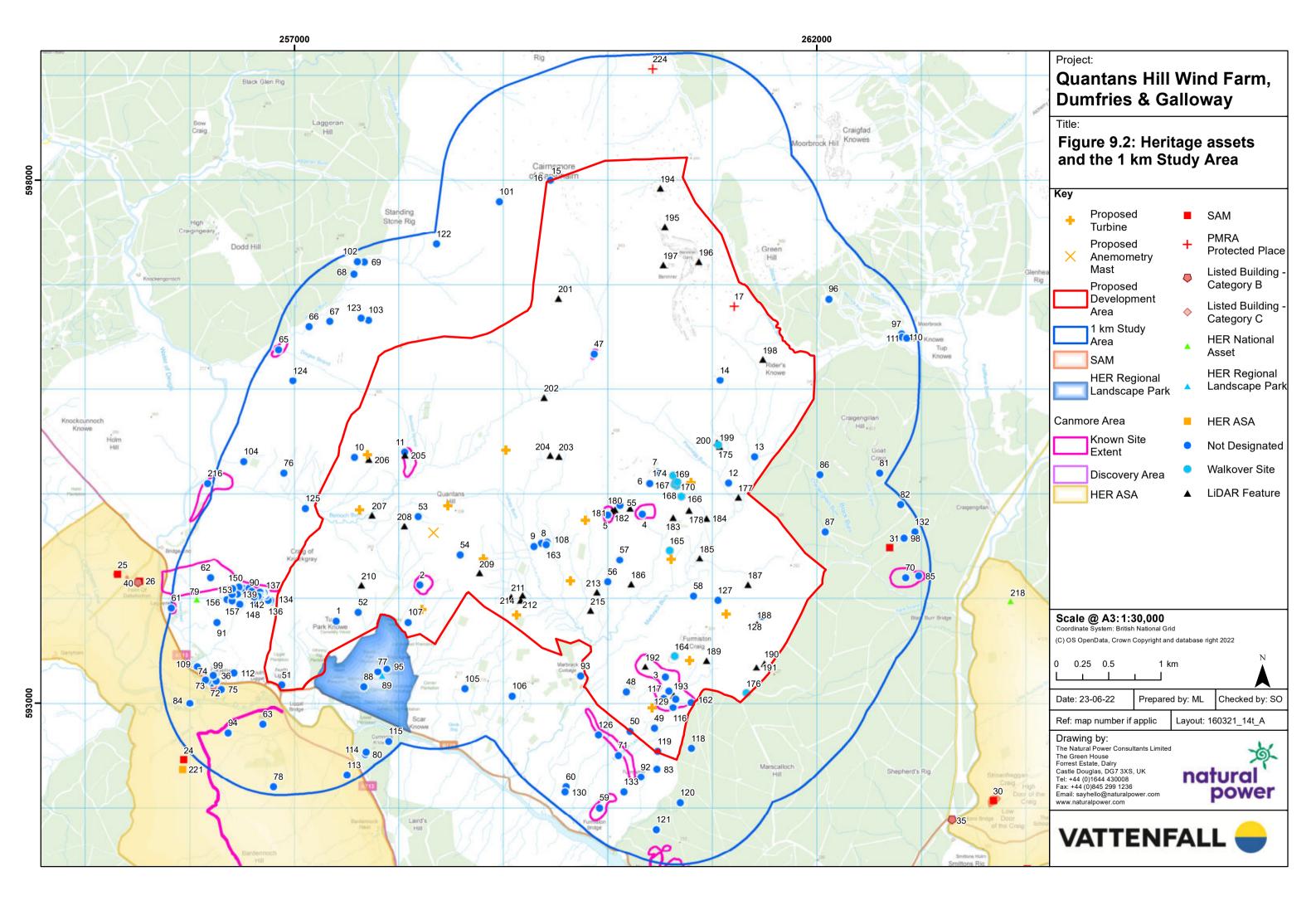


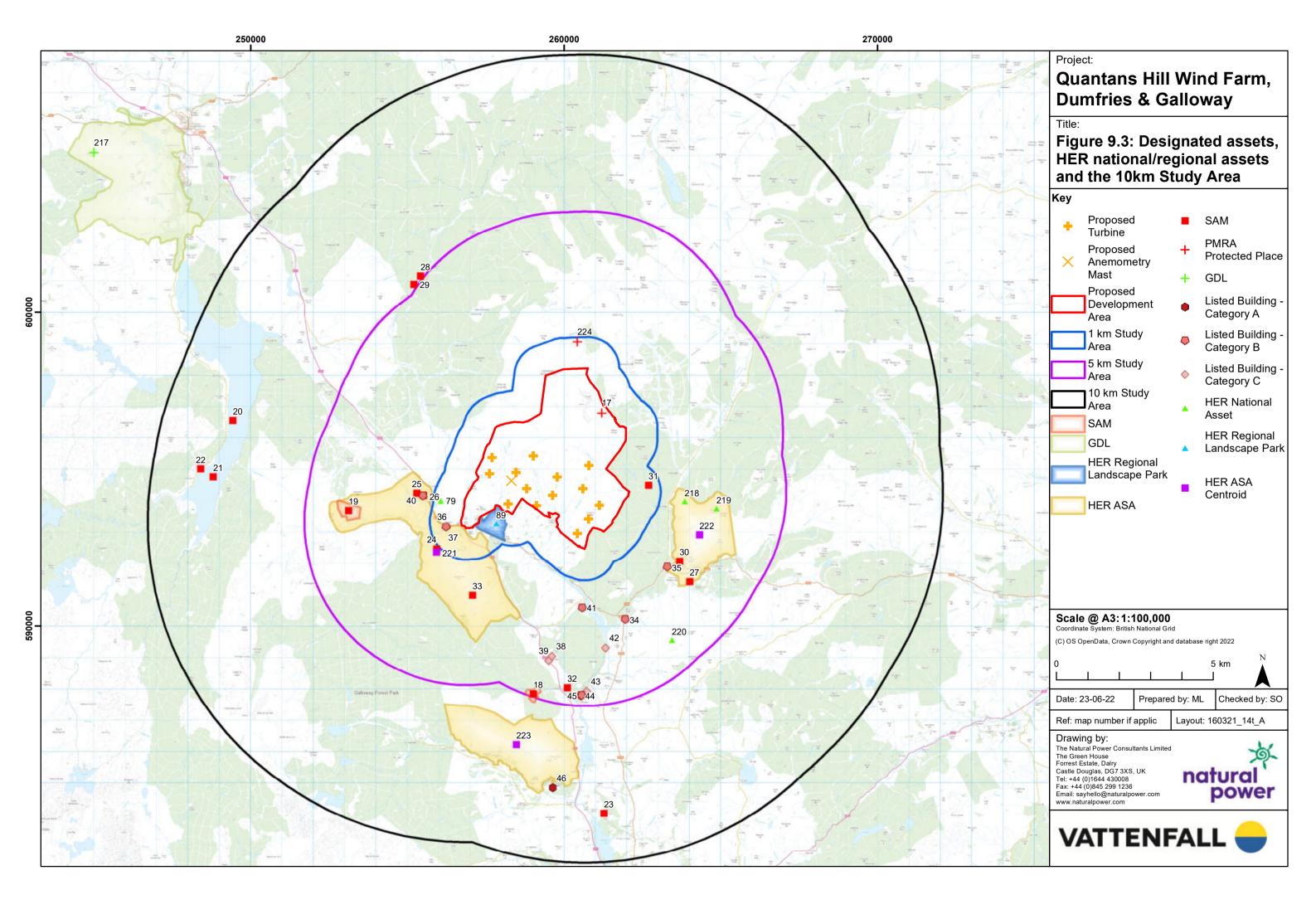


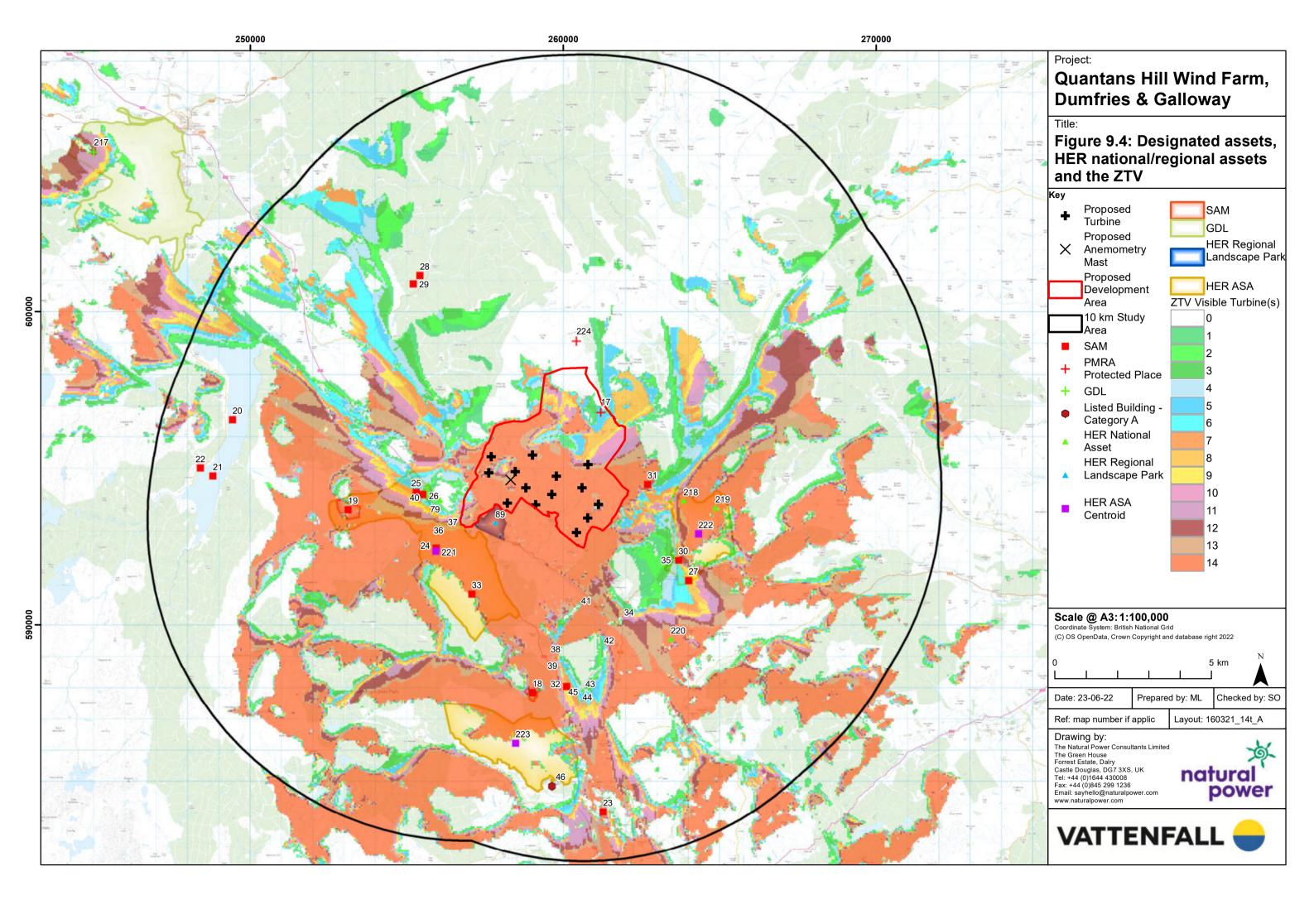


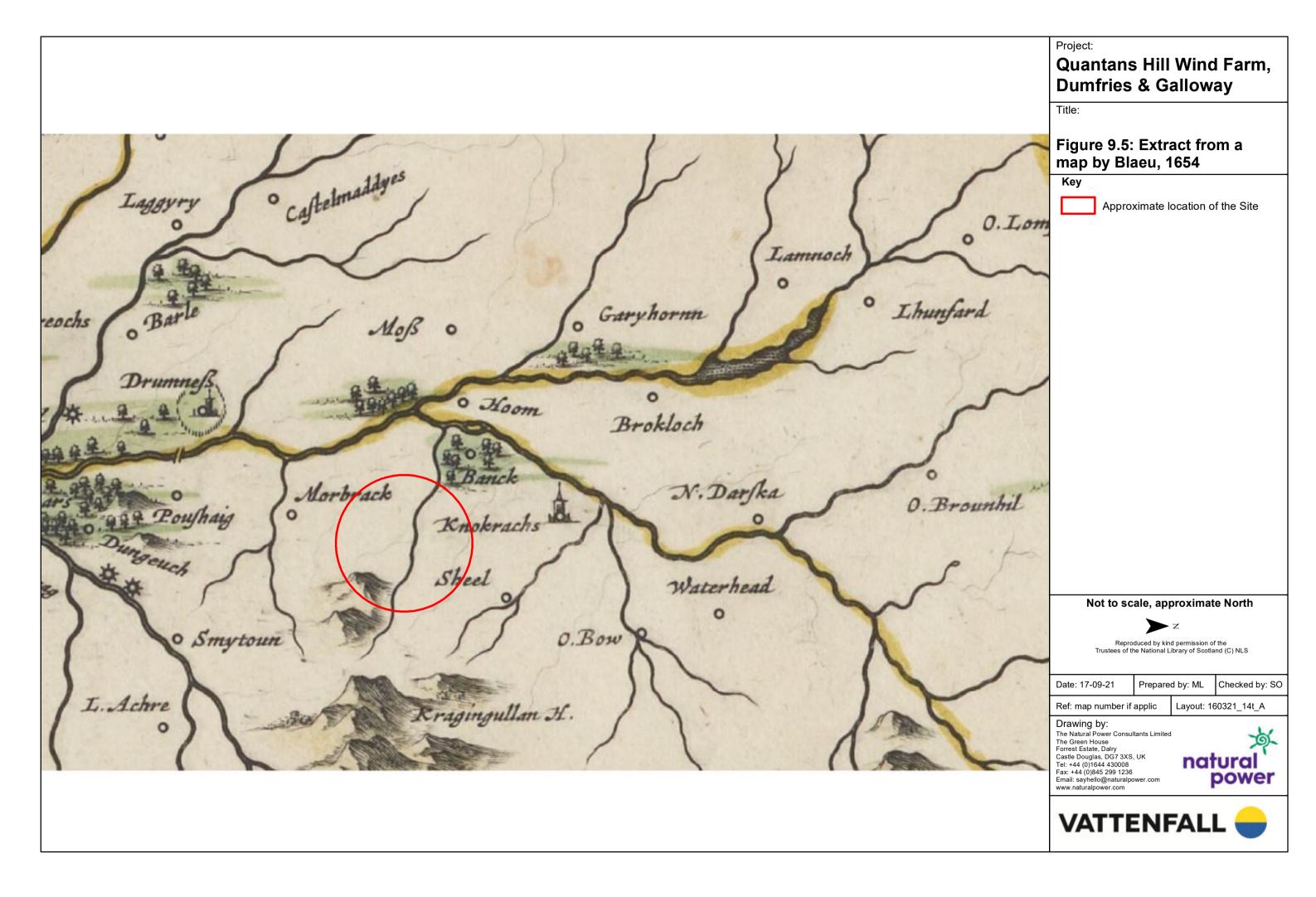


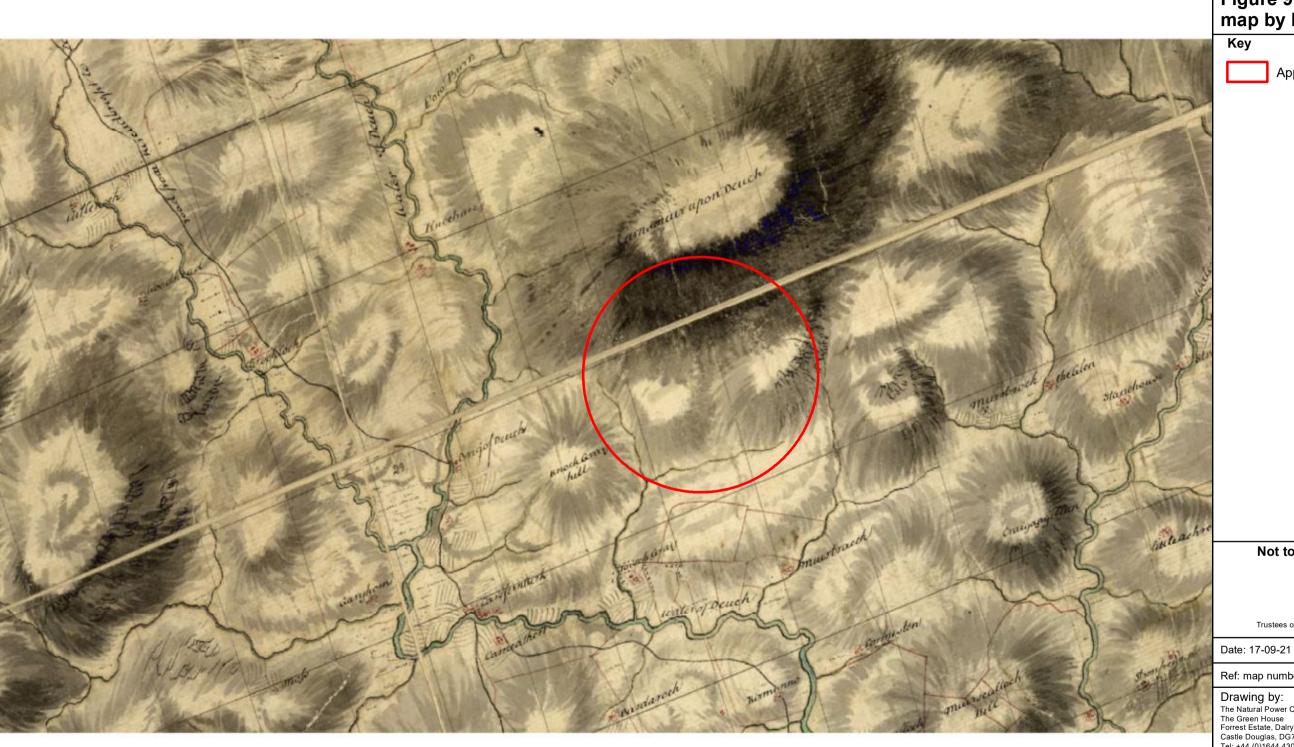












Project:

Quantans Hill Wind Farm, Dumfries & Galloway

Title:

Figure 9.6: Extract from a map by Roy, 1752-55

Approximate location of the Site

Not to scale, approximate North



Reproduced by kind permission of the Trustees of the British Library, Shelfmark: Maps CC.5.a.441.

Prepared by: ML Checked by: SO

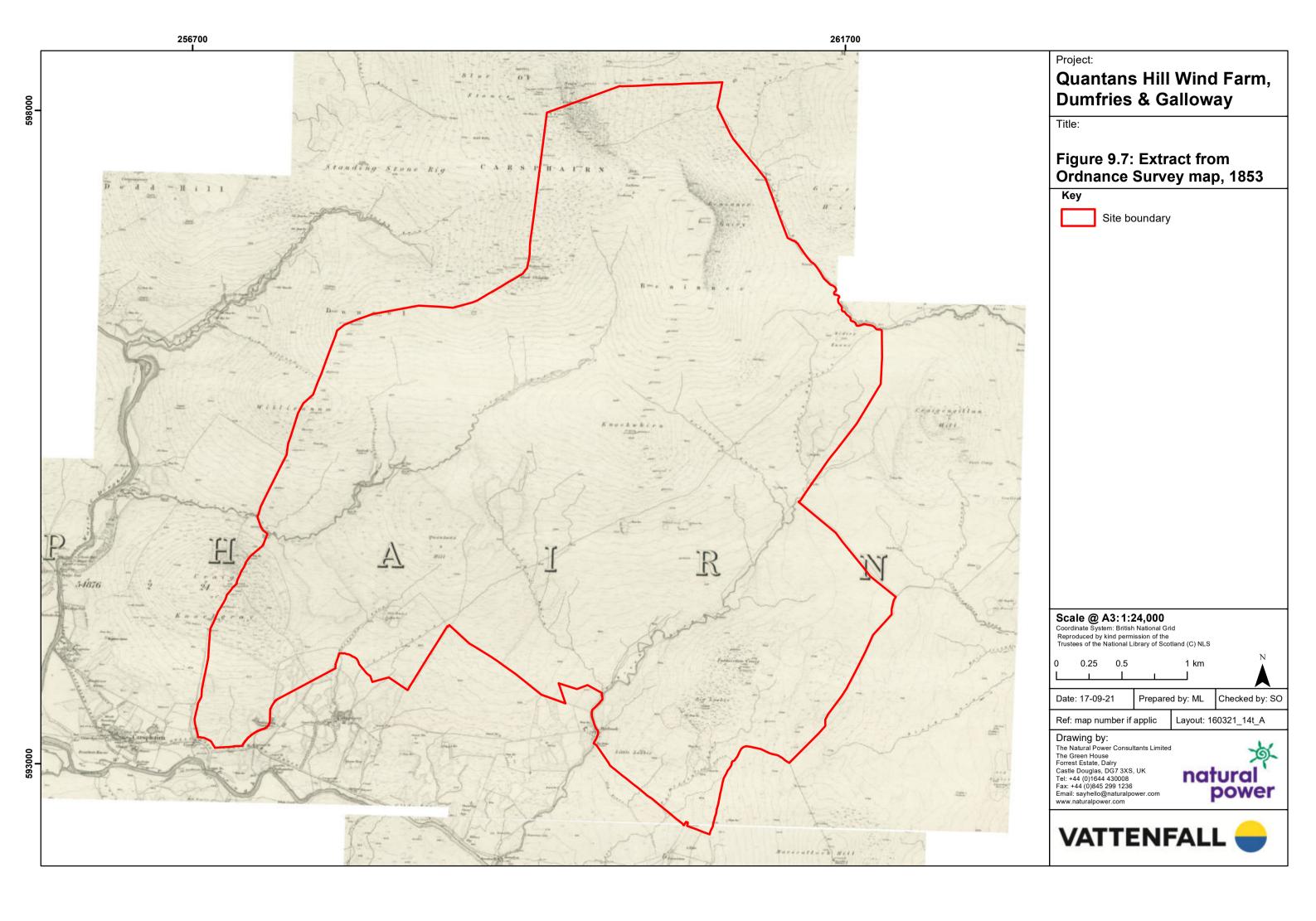
Ref: map number if applic

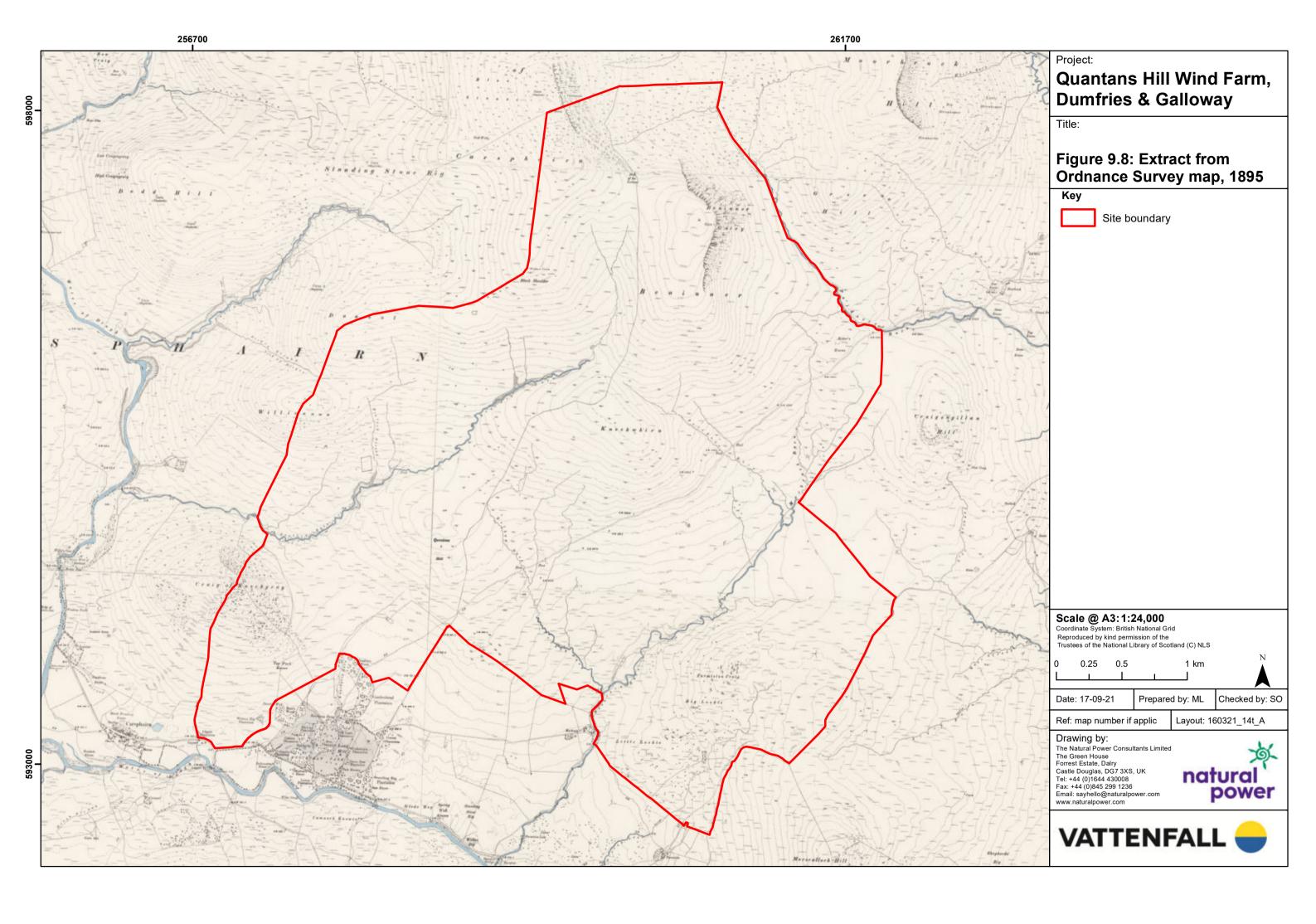
Layout: 160321_14t_A

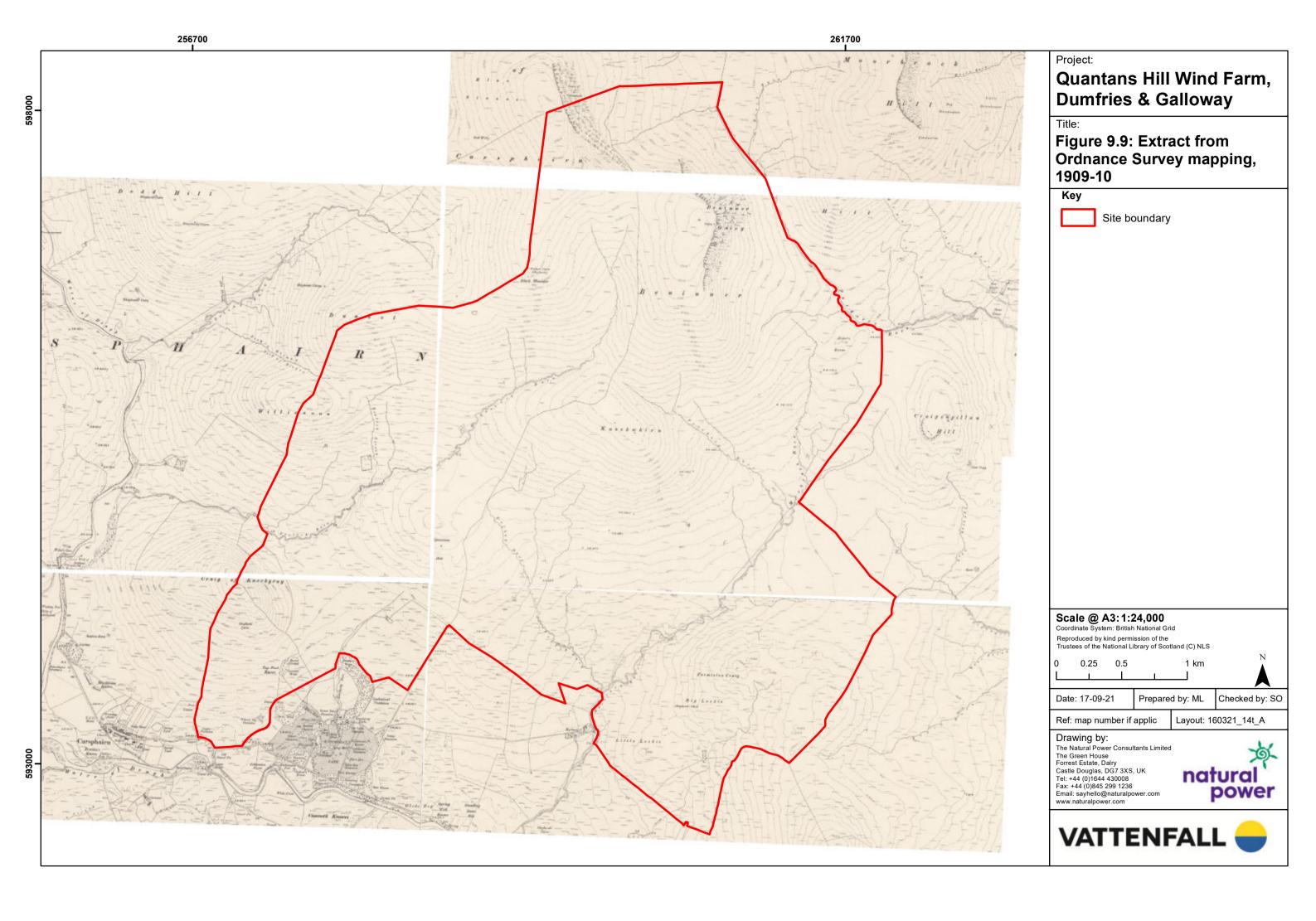
Drawing by:
The Natural Power Consultants Limited
The Green House
Forrest Estate, Dalry
Castle Douglas, DG7 3XS, UK
Tel: +44 (0)1644 430008
Fax: +44 (0)845 299 1236
Email: sayhello@naturalpower.com
www.naturalpower.com

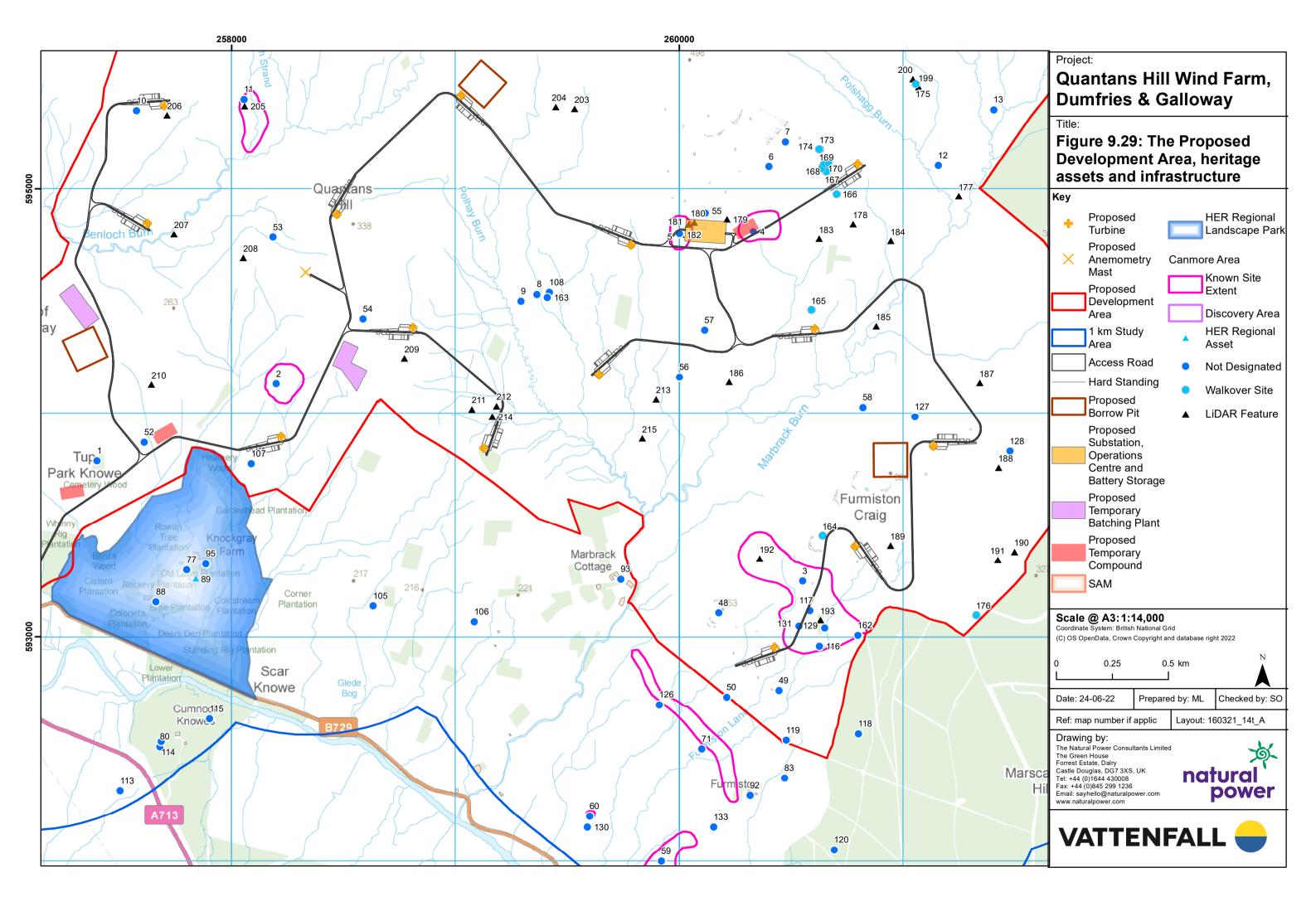


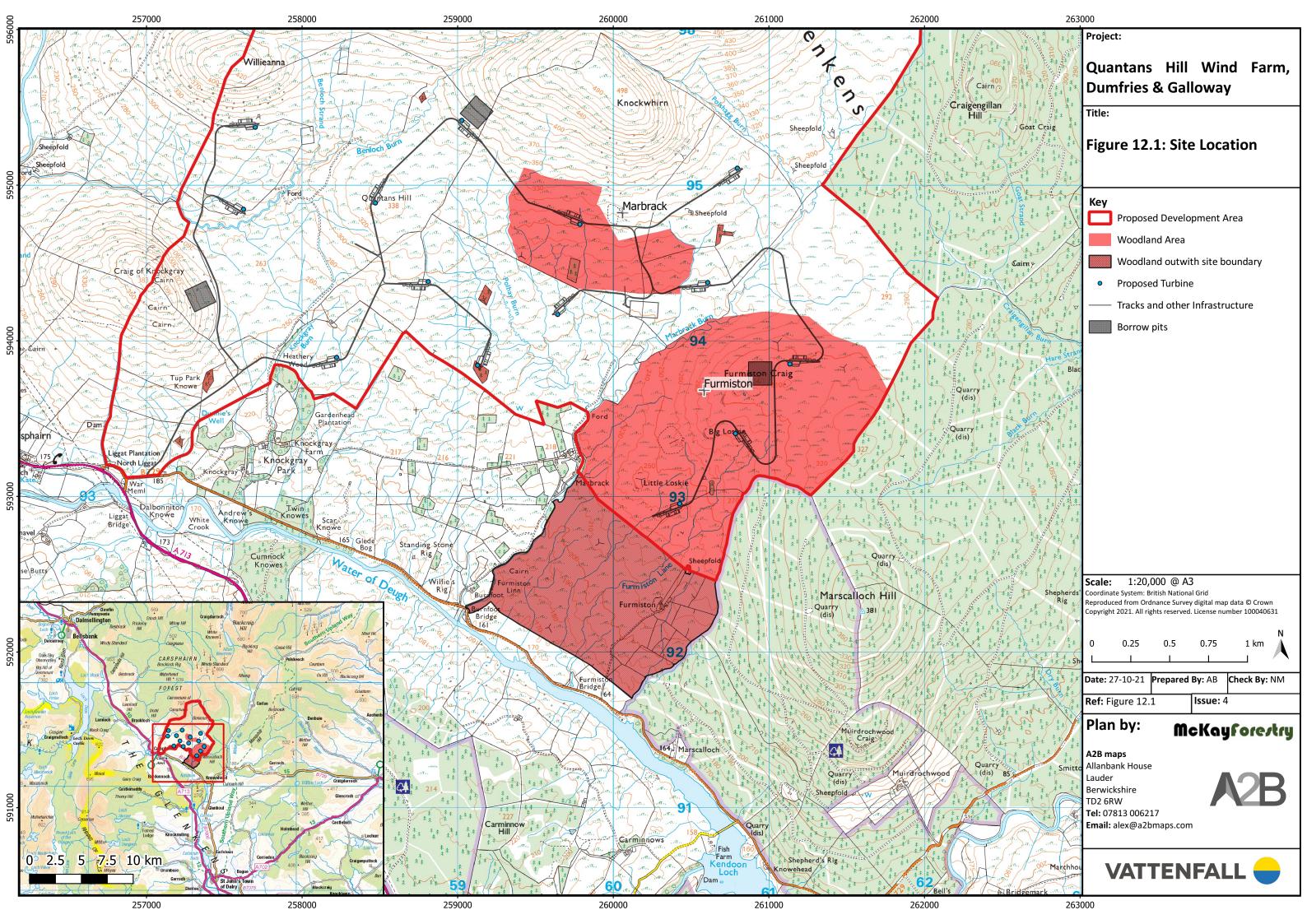


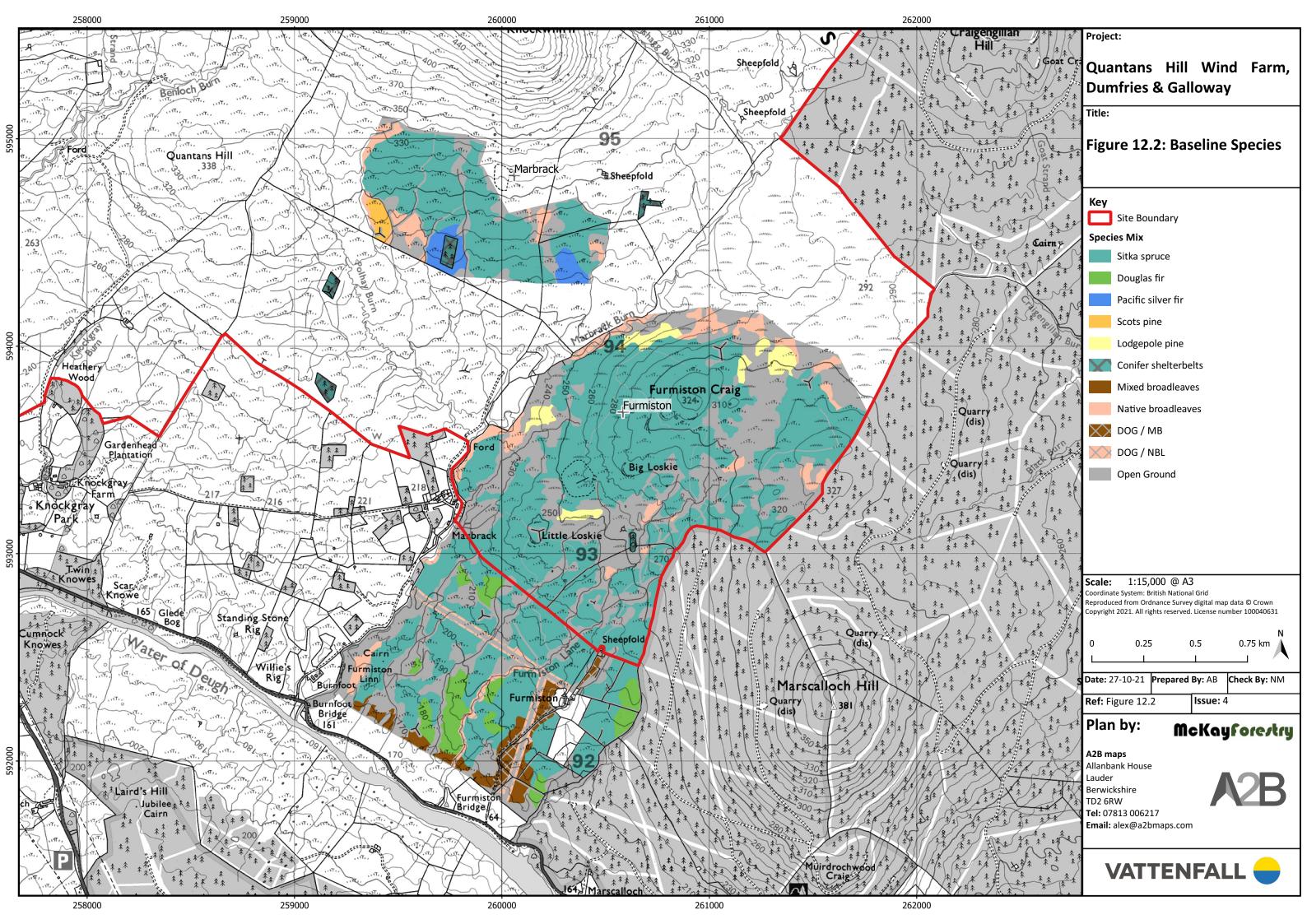


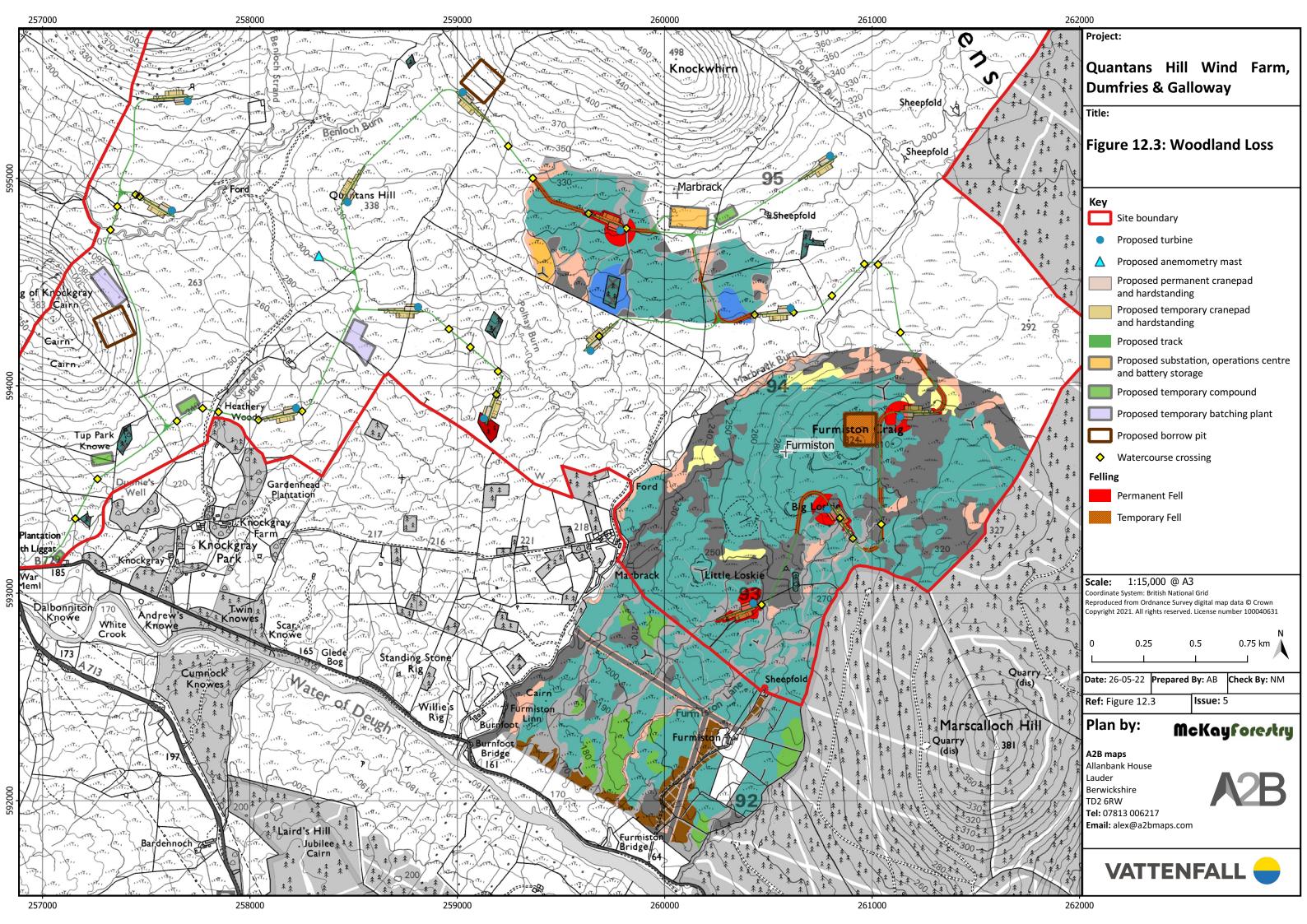


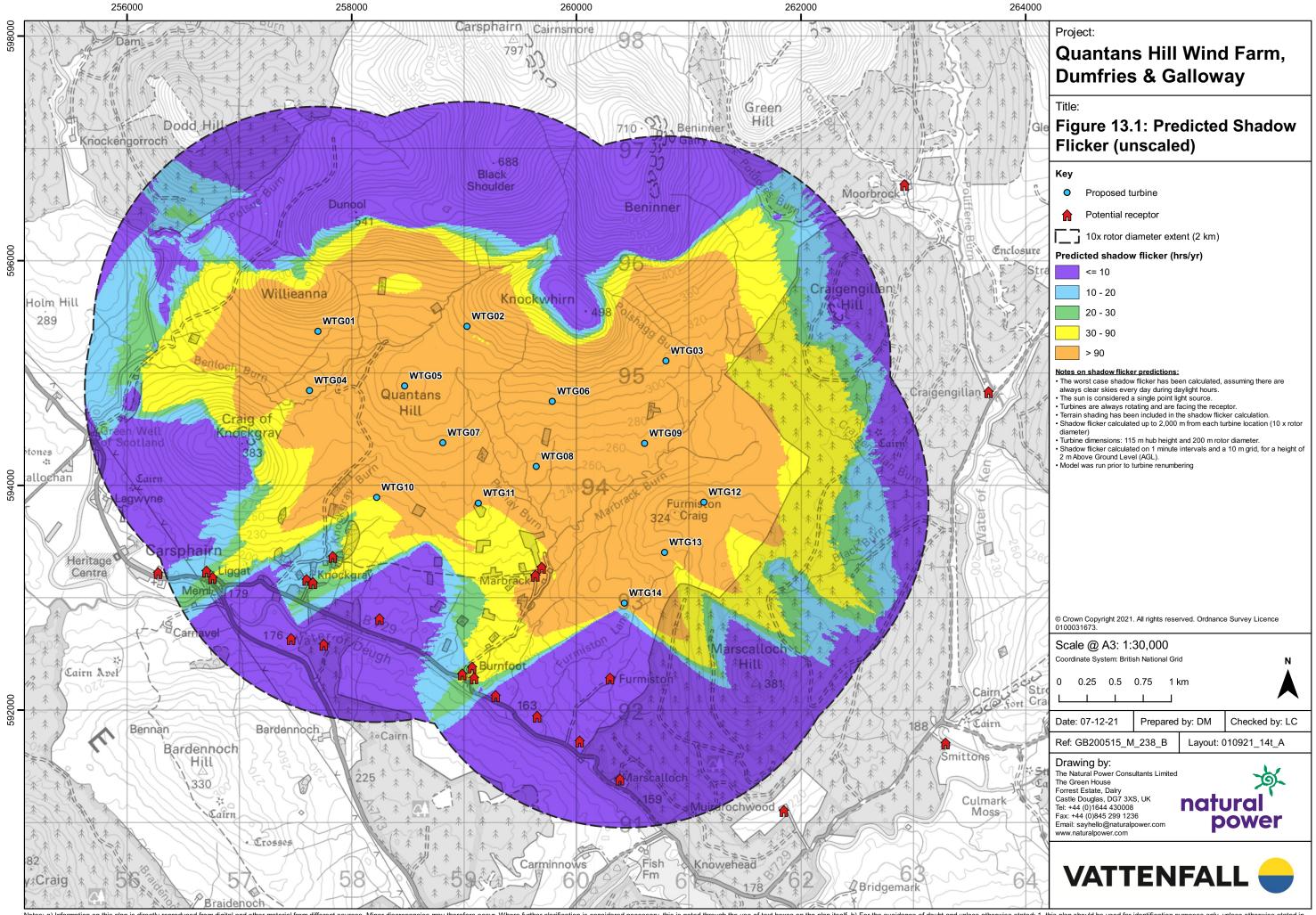


















The Greenhouse Forrest Estate, Dalry Castle Douglas DG7 3XS Scotland

www.naturalpower.com