

MONA OFFSHORE WIND PROJECT

Environmental Statement

Volume 7, Annex 3.4: Hedgerow survey technical report

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Image of an offshore wind farm

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Glossary

Term	Meaning
Expert Working Group (EWG)	Expert working groups set up with relevant stakeholders as part of the Evidence Plan process.
Habitat of Principal Importance	Habitats which are of principal importance for the purpose of maintaining and enhancing biodiversity, listed under Section 42 of the Natural Environment and Rural Communities (NERC) Act 2006 and Section 7 of the Environment (Wales) Act 2016.
Node	An end point of a hedgerow, including any point of connection between two or more hedgerows to another feature e.g. fence, walls, ditches, roads, the point at which a hedgerow stops and there is a gap of more than 20 m to the next hedgerow, or the point at which the hedgerow links to a woodland or other semi-natural habitat such as a pond.

Acronyms

Acronym	Description
Defra	Department for Environment, Food & Rural Affairs
HPI	Habitat of Principal Importance
MLWS	Mean Low Water Springs
CoCP	Code of Construction Practice

Units

Unit	Description
%	Percentage
m	Metres
km	Kilometres

1 Hedgerow survey technical report

1.1 Introduction

- 1.1.1.1 This document forms Volume 7, Annex 3.4: Hedgerow survey technical report of the Environmental Statement for the Mona Offshore Wind Project.
- 1.1.1.2 The purpose of this technical report is to present the results of the hedgerow surveys undertaken between April and September 2023 to inform Volume 3, Chapter 3: Onshore ecology of the Environmental Statement.
- 1.1.1.3 The desk study and field surveys were designed to determine if hedgerows relevant to the Mona Offshore Wind Project were classed as ‘important’ or ‘not important’ in relation to ecological importance.
- 1.1.1.4 Two separate areas have been defined for the purposes of this technical report. These include the ‘study area’, which describes the geographical extent subject to desk-based research, and the ‘survey area’, which describes the area of land subject to site-specific surveys. The extent of the study area and the survey area were selected to ensure data was collected for the Mona Onshore Development Area and the surroundings that may support this habitat and may reasonably be affected by the Mona Offshore Wind Project. The extent of the study area and the survey area were discussed and agreed with the onshore ecology Expert Working Group (EWG).

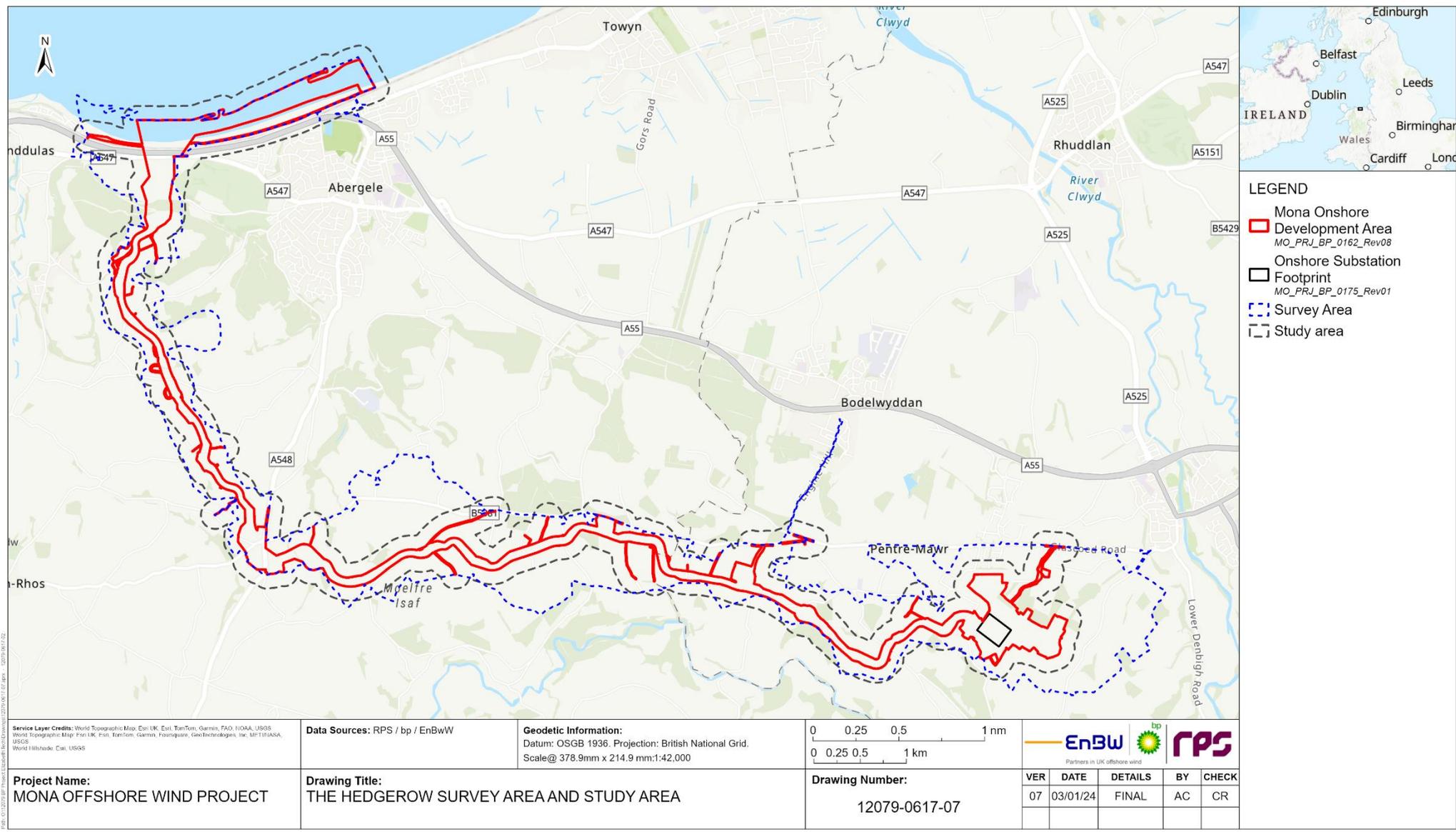
1.2 Study area

- 1.2.1.1 The study area comprises the Mona Onshore Development Area, landward of Mean Low Water Springs (MLWS) and a 150 m buffer (‘the hedgerow study area’).
- 1.2.1.2 The location and geographic extent of the hedgerow study area is presented in Figure 1.1 of this technical report.

1.3 Survey area

- 1.3.1.1 Following the commencement of the hedgerow surveys, the Mona Onshore Development Area was refined and now occupies a smaller geographical area. As such, the area of land subject to hedgerow surveys (‘the hedgerow survey area’) extends beyond the current iteration of the Mona Onshore Development Area. The results from surveys undertaken beyond the Mona Onshore Development Area (i.e. surveys undertaken based on an earlier design iterations) have been included in this technical report because they provide context regarding the ecological sensitivity of the wider area and to inform Volume 3, Chapter 3: Onshore ecology of the Environmental Statement (where relevant). All the ecological data collected as part of the Environmental Statement for the Mona Offshore Wind Project has been made publicly available through the relevant data records centre.
- 1.3.1.2 Adopting a survey area that is greater in extent than the Mona Onshore Development Area is in accordance with the precautionary approach. It ensures that the Environmental Statement is accurately informed with data from within the Mona Onshore Development Area (i.e. that may be subject to direct impacts) and data from outside the Mona Onshore Development Area (i.e. that may be subject to indirect impacts).
- 1.3.1.3 The location and geographic extent of the hedgerow survey area is presented in Figure 1.1 of this technical report.

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- ▭ Mona Onshore Development Area
MO_PRJ_BP_0162_Rev08
- Onshore Substation Footprint
MO_PRJ_BP_0175_Rev01
- Survey Area
- Study area

Service Layer Credits: World Topographic Map, Esri, UK, Esri, TomTom, Garmin, FAO, NOAA, USGS, World Topographic Map, Esri, UK, Esri, TomTom, Garmin, Forogore, GeoTechnologies, Inc, METI/USAA, USGS, World Hillsshade, Esri, USGS

Data Sources: RPS / bp / EnBW

Geodetic Information:
Datum: OSGB 1936. Projection: British National Grid.
Scale@ 378.9mm x 214.9 mm:1:42,000

0 0.25 0.5 1 nm
0 0.25 0.5 1 km

EnBW bp rps
Partners in UK offshore wind

Project Name:
MONA OFFSHORE WIND PROJECT

Drawing Title:
THE HEDGEROW SURVEY AREA AND STUDY AREA

Drawing Number:
12079-0617-07

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Figure 1.1: The hedgerow study area and survey area.

1.4 Relevant legislation

- 1.4.1.1 Two key pieces of legislation protect hedgerows under Welsh and UK law, The Hedgerows Regulations 1997 and the Environment (Wales) Act 2016.
- 1.4.1.2 The Hedgerow Regulations 1997 are intended to protect ‘important’ countryside hedgerows from destruction or damage. Under the ‘Wildlife and Landscape’ criteria of The Hedgerow Regulations 1997, a hedgerow is considered important if:
- It has existed for 30 years or more
 - Satisfies at least one of the criteria listed in Part II of Schedule 1 of the Regulations.
- 1.4.1.3 A summary of the Schedule 1 criteria included in The Hedgerow Regulations 1997 is provided in section 1.6.2 of this technical report.
- 1.4.1.4 Hedgerows are also afforded due regard in the planning system in Wales by the Environment (Wales) Act (2016). Section 7. Hedgerows are listed as a Habitat of Principal Importance (HPI), which gives public bodies and local planning authorities a legal duty to have regard for conserving a HPI when exercising their duties.

1.5 Consultation

- 1.5.1.1 The scope, methodology and findings of the hedgerow surveys, including those undertaken beyond the current Mona Onshore Development Area, were discussed and agreed with stakeholders via regular Onshore Ecology Expert Working Group (EWG) meetings. Further detail regarding consultation undertaken with respect onshore ecology, including hedgerow surveys can be found in Volume 3, Chapter 3: Onshore ecology of the Environmental Statement and the Consultation Report (Document reference: E.3).

1.6 Methodology

1.6.1 Overview

- 1.6.1.1 The results of the Extended Phase 1 Habitat Surveys (see Volume 7, Annex 3.2: Extended Phase 1 Habitat Survey technical report) were used to confirm where hedgerows were located and how many woody species each hedgerow comprised. The hedgerows located within the hedgerow survey area were subsequently scoped in for the following survey types:
- Hedgerows with four or more woody species were subject to an assessment in accordance with the Hedgerow Regulations 1997 (‘Hedgerow Regulations surveys’)
 - All hedgerows were subject to a hedgerow condition assessment (‘condition assessment’) in accordance with Natural England’s Biodiversity Metric (4.0) (Natural England, 2023).
- 1.6.1.2 All field surveyors were suitably trained and experienced in undertaking the survey methodologies identified above.

1.6.2 Desktop study

- 1.6.2.1 Information on hedgerows within the study area was collected from existing studies and datasets. These are summarised in Table 1.1.

Table 1.1: Summary of key desktop sources.

Title	Source	Year	Author
Historical biological records	Cofnod	2023	Cofnod
DataMapWales	Welsh Government	2023	Welsh Government
Multi-Agency Geographic Information for the Countryside (MAGIC)	Department for the Environment, Food & Rural Affairs (Defra)	2023	Defra

1.6.3 Hedgerow Regulations survey

- 1.6.3.1 All hedgerows in the hedgerow survey area with more than four woody species were scoped in for Hedgerows Regulations surveys. The Hedgerows Regulations surveys followed the methods defined in the Department for Environment, Food & Rural Affairs (Defra) Hedgerow Survey Handbook (Defra, 2007).
- 1.6.3.2 In accordance with the requirements of the Hedgerow Regulations 1997, each hedgerow scoped in for a Hedgerow Regulations survey was assessed to determine if it was classed as ‘important’ or ‘not important’ in relation to ecological importance. Hedgerows can also be assessed for their importance in relation to cultural heritage. This is detailed separately in Volume 3, Chapter 5: Historic environment, and Volume 7, Annex 5.1: Historic environment desk-based assessment of the Environmental Statement.
- 1.6.3.3 Surveys were undertaken from April to September 2023, when ground flora was most likely to be identifiable.
- 1.6.3.4 The survey involved recording the ecological information along at least one 30 m section of each hedgerow. For hedgerows 30 m or less in length the whole hedgerow was surveyed. For hedgerows between 30 m and 100 m in length the central 30 m was surveyed. For hedgerows between 100 m to 200 m the hedgerow was divided in two and each central 30 m section surveyed. For hedgerows over 200 m in length the hedgerow was divided into three sections and the central 30 m of each section surveyed. The information recorded for each survey, including a brief description of the information is presented in Table 1.2 below.

Table 1.2: Information recorded in accordance with the Hedgerow Survey Handbook (Defra, 2007).

Information recorded	Description
Hedgerow type	The type of hedgerow that could include shrubby hedgerow, shrubby hedgerow with trees, line of trees.
Length	Length of the hedgerow in metres.
Connections with other hedgerows	The number of connections with other hedgerows to determine whether the hedgerow forms part of a hedgerow network.
Extent and location of survey	Details of the wider area that included either the whole hedgerow or the 30 m section(s).

Information recorded	Description
Adjacent land use	Description of the adjacent land use e.g. arable, pasture, woodland, water, etc.
Associated features	Description of associated features including a bank or wall; if the bank or wall was at least half the length of the hedgerow; a ditch; if the ditch was at least half the length of the hedgerow; any gaps of no more than 10 % of the length of the hedgerow; any standard tree per 50 m of the length of the hedgerow; whether at least three ground flora woodland species (as defined in Schedule 2 of the Hedgerow Regulations) were located within 1 m of the hedgerow; any connections scoring four or more points, where connection with a hedgerow counts as one, and a connection with broadleaved woodland or a pond counts as two; and any parallel hedge located within 15 m of the hedgerow.
Undisturbed ground and perennial herbaceous vegetation cover	Average width of undisturbed ground. Average width of perennial herbaceous vegetation.
Nutrient enrichment ground flora indicator species	Percentage of hedgerow per 30 m samples recorded with more than 20 % cover of nettles <i>Urtica sp.</i> , cleavers <i>Galium aparine</i> , or docks <i>Rumex sp.</i>
Recently introduced, non-native species	Percentage of hedgerow per 30 m samples with no more than 10 % cover of recently introduced, non-native species.
Hedgerow shape	Percentage of total number of hedgerows surveyed in each shape category including trimmed and dense, intensively managed, untrimmed, tall and leggy, untrimmed with outgrowths, recently coppiced, or recently laid.
Dimensions	Average height and width of hedgerow, excluding any bank beneath the hedgerow, gaps, and any hedgerow trees and their height, and estimated at the widest point for the width.
Integrity (i.e. 'gappiness')	Percentage of hedgerow with gaps less than 10 % of the hedgerow length, no gap greater than 5 m, and base of leafy growth less than 0.5 m from the ground for a shrubby hedgerow.
Isolated hedgerow trees	Percentage of young trees with a diameter at breast height of 1-5 cm within the total number of trees in the sample, percentage of veteran trees with a diameter at breast height of 1 m or more within total number of trees in the sample, average number of isolated hedgerow trees per 100 m of hedgerow, total number of isolated hedgerow trees along the section of hedgerow being surveyed.
Woody species per 30 m	Number of woody species per 30 m length including structural species, not climbers (other than rose <i>Rosa sp.</i>) or bramble. Woody species were limited to either native in the UK, or those which have been recorded as naturalised in the wild before 1500 AD. Sycamore <i>Acer pseudoplatanus</i> was included.
Details of hedgerow management; ground flora species per 30 m; and veteran tree features	Details of both recent and older hedgerow management. Records of ground flora species and cover. Presence of veteran tree features including dead wood attached to the tree, loose, split, missing and dead bark, bark sap runs, tears, splits, scars, lightning strikes, hollow trunks or hollows in major limbs, or major rot sites.

1.6.3.5 Hedgerows were mapped using satellite photography in advance of the survey so that survey sections and nodes could be identified. Nodes are defined as:

- Any point of connection between two or more hedgerows or to other features including fences, walls, ditches, or roads
- The point at which a hedgerow stops and there is a gap of more than 20 m to the next hedgerow; or

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- The point at which the hedgerow links to a woodland or other semi-natural habitat such as a pond.

1.6.3.6 Hedgerows were considered ecologically ‘important’ if they were at least 30 years old and met one of the following criteria:

- Contained protected species listed in part 1 of Schedule 1, Schedule 5 or Schedule 8 of the Wildlife and Countryside Act 1981 (as amended)
- Contained species that are endangered, vulnerable, and rare and identified in the British Red Data books (Perring and Farrell, 1983; Shirt, 1987; Bratton, 1991; Stewart and Church, 1992)
- Included woody species, and associated features as specified in Schedule 1, Part II Criteria, paragraph 7(1) of The Hedgerows Regulations 1997. In summary, and specifically for North Wales, the hedgerow must include one or more of the following:
 - At least seven woody species
 - At least six woody species plus at least three associated features (detailed in Table 1.2)
 - At least six woody species including black poplar, large-leaved lime, small-leaved lime or wild service tree.

1.6.4 Condition Assessment

1.6.4.1 A condition assessment of all accessible hedgerows in the hedgerow survey area was undertaken in accordance with Natural England’s Biodiversity Metric (4.0) (Natural England, 2023).

1.6.4.2 It is acknowledged that the Natural England’s Biodiversity Metric (4.0) (Natural England, 2023) has not been adopted in Wales. However, undertaking a condition assessment of extant hedgerows in the hedgerow survey area is a valuable step in developing the baseline against which any future biodiversity benefits can be assessed. It also provides additional and complementary information to the Hedgerow Regulations survey results.

1.6.4.3 The condition assessment utilises data on the hedgerows’ length, height, width, ‘gappiness’, species composition, structure, connectivity, location, intactness, and the presence, age and health of any constituent trees, as detailed in Table 1.3.

Table 1.3: Data recorded for the hedgerow condition assessment surveys.

Group code	Group name	Criteria	Description
Data recorded for all hedgerows			
A1	Height	More than 1.5 m average along length	The average height of woody growth estimated from base of stem to the top of the shoots, excluding any bank beneath the hedgerow, any gaps or isolated trees.
A2	Width	More than 1.5 m average along length	The average width of woody growth estimated at the widest point of the canopy, excluding gaps and isolated trees.
B1	Gap - hedge base	Gap between ground and base of canopy less than 0.5 m for more than 90 % of length	This is the vertical ‘gappiness’ of the woody component of the hedgerow, and its distance from the ground to the lowest leafy growth.

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Group code	Group name	Criteria	Description
B2	Gap - hedge canopy continuity	Gaps make up less than 10 % of total length; and no canopy gaps more than 5 m	Gap - hedge canopy continuity.
C1	Undisturbed ground and perennial vegetation	More than 1 m width of undisturbed ground with perennial herbaceous vegetation for more than 90% of length	Undisturbed ground and perennial vegetation.
C2	Nutrient-enriched perennial vegetation	Plant species indicative of nutrient enrichment of soils dominate more than 20 % cover of the area of undisturbed ground	The indicator species are nettles, cleavers and docks. Their presence, either singly or together, do not exceed the 20 % cover threshold.
D1	Invasive and neophyte species	More than 90 % of the hedgerow and undisturbed ground was free of invasive non-native plant species (including those listed on Schedule 9 of the Wildlife and Countryside Act 1981 (as amended)) and recently introduced species	Recently introduced species refer to plants that have naturalised in the UK since AD 1500 (neophytes). Archaeophytes count as natives.
D2	Current damage	More than 90 % of the hedgerow or undisturbed ground is free of damage caused by human activities	This criterion addresses damaging activities that may have led to or lead to deterioration in other attributes.

Data recorded only for hedgerows with trees

E1	Tree class	There are more than one age-class (or morphology) of tree present (for example: young, mature, veteran and or ancient), and there are on average at least one mature, ancient or veteran tree present per 20 – 50 m of hedgerow	Is there are a range of age-classes or morphologies which allow for replacement of trees and provide opportunities for different species.
E2	Tree health	At least 95 % of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There are little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity	This criterion identifies if the trees are subject to damage which compromises the survival and health of the individual specimens.

1.6.4.4 Natural England’s Biodiversity Metric (4.0) uses data from Table 1.3 to calculate if the hedgerow’s condition was Good, Moderate or Poor, as detailed in Table 1.4.

Table 1.4: Condition categories for hedgerows.

Category	Category requirements	Metric score
Good	No more than two failures in total; and no more than one failure in any functional group.	3
Moderate	No more than four failures in total (or five for hedgerows with trees); and does not fail both attributes in more than one functional group.	2
Poor	Fails a total of more than four attributes (or five for hedgerows with trees); or fails both attributes in more than one functional group.	1

1.6.5 Limitations

1.6.5.1 Some hedgerows located within the hedgerow survey area were not surveyed due to access limitations. All hedgerows not subject to survey in 2023 are assumed to be ecologically 'important' hedgerows (as per the Hedgerow Regulations 1997) and will be subject to the avoidance and minimisation requirements as set out in the Outline Code of Construction Practice (CoCP) (Document reference: J.31).

1.7 Results

1.7.1 Desktop study

1.7.1.1 The desktop study did not confirm the presence of any hedgerows within the study area.

1.7.2 Hedgerow Regulations survey

1.7.2.1 A total of 514 hedgerows were subject to a Hedgerow Regulations survey within the survey area, 232 of which were located within the Mona Onshore Development Area. 203 hedgerows (with a combined length of 34.9 km) were classed as ecologically important within the survey area, 94 of which were located within the Mona Onshore Development Area. The results of the Hedgerow Regulations surveys undertaken within the hedgerow survey area and Mona Onshore Development Area are summarised in Table 1.5 and illustrated in Figure 1.2 to Figure 1.7 of this technical report.

Table 1.5: Summary of Hedgerow Regulations survey results

Hedgerow Regulations survey result	Within hedgerow survey area		Within Mona Onshore Development Area	
	Number of hedgerows	Combined length (km)	Number of hedgerows	Combined length (km)
Ecologically important (as per Hedgerow Regulations 1997)	203	34.9	94	16.9
Not ecologically important (as per Hedgerow Regulations 1997)	311	44.1	138	19.8

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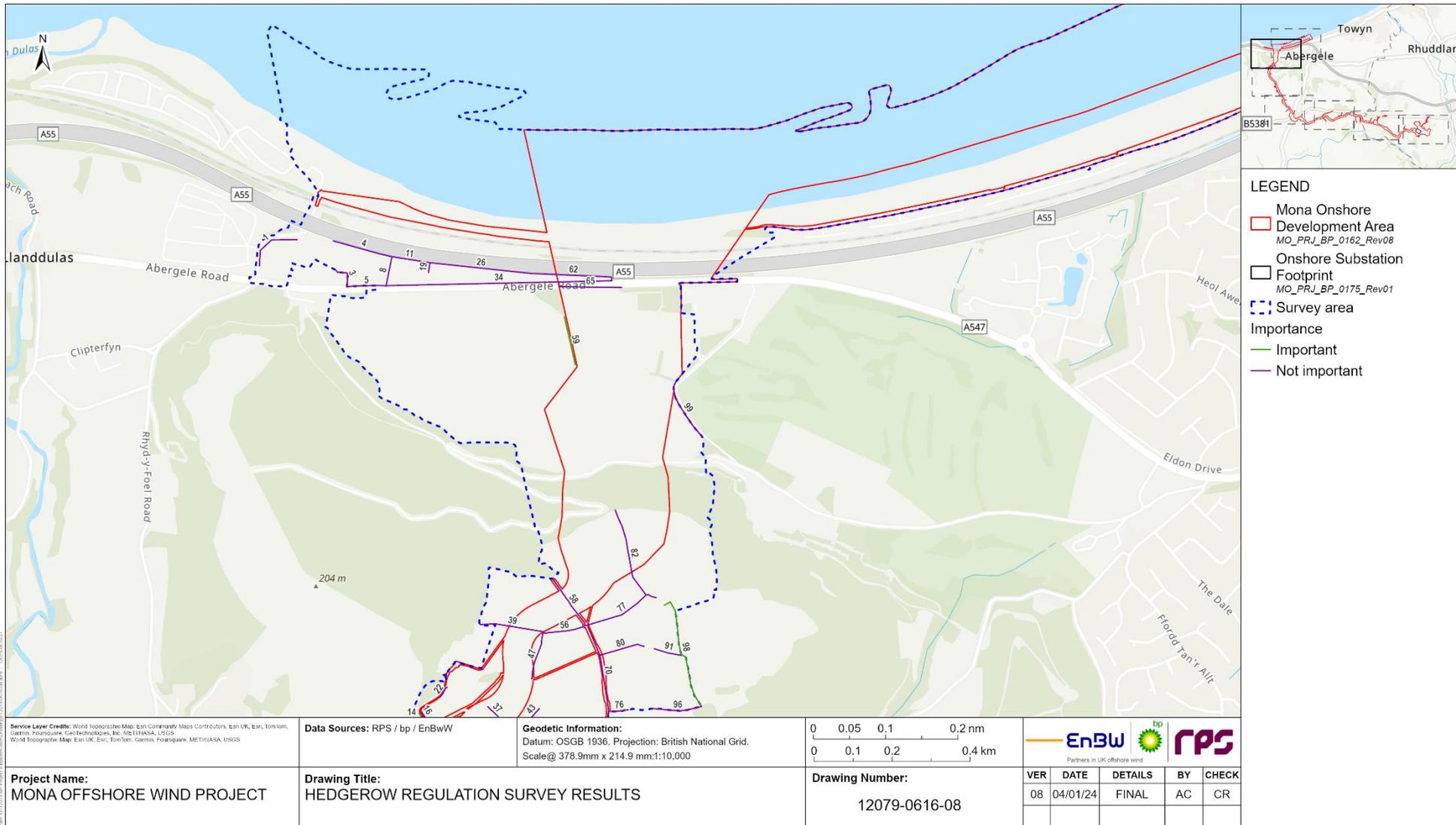


Figure 1.2: Hedgerow Regulations survey results.

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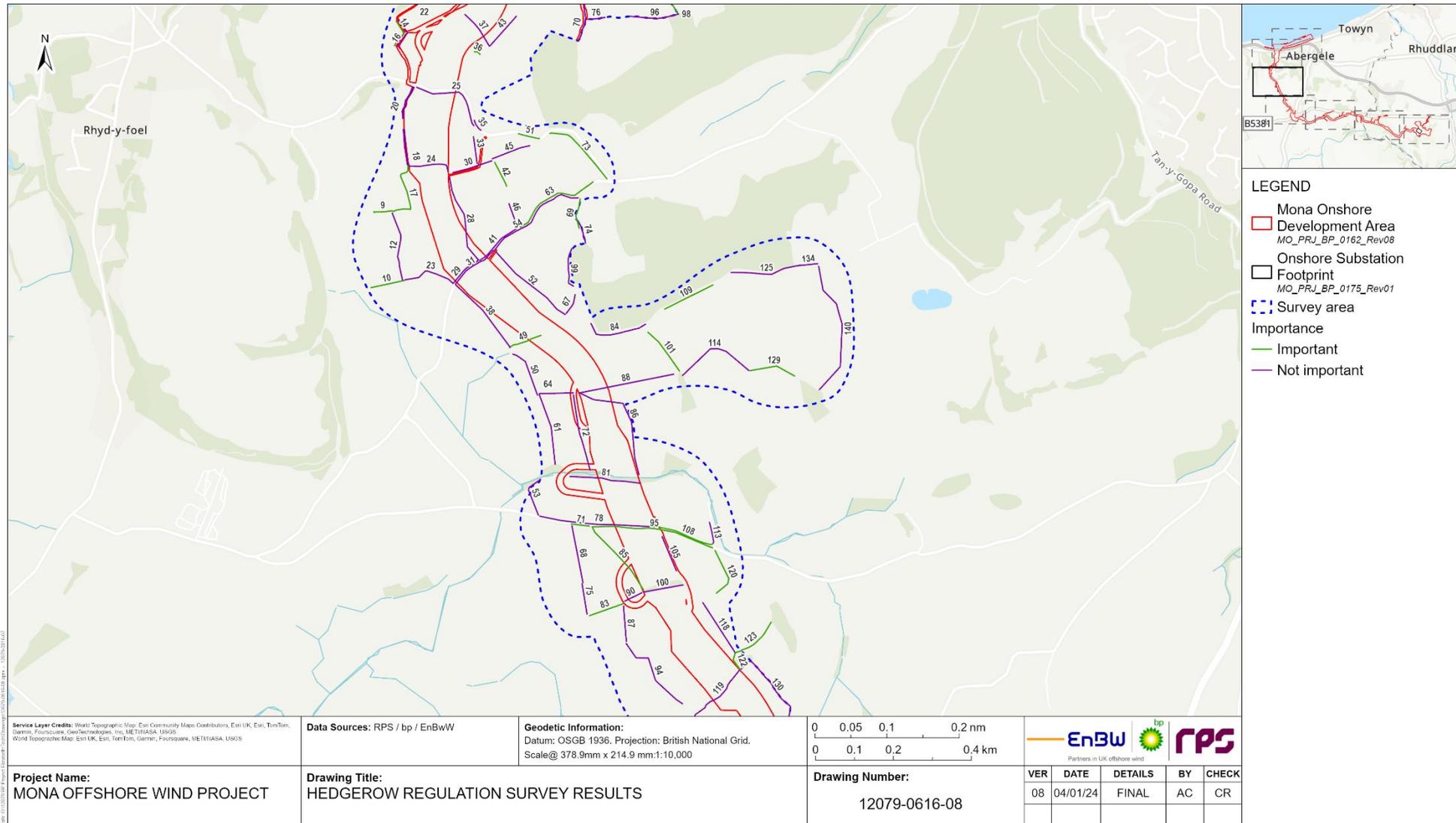


Figure 1.3: Hedgerow Regulations survey results.

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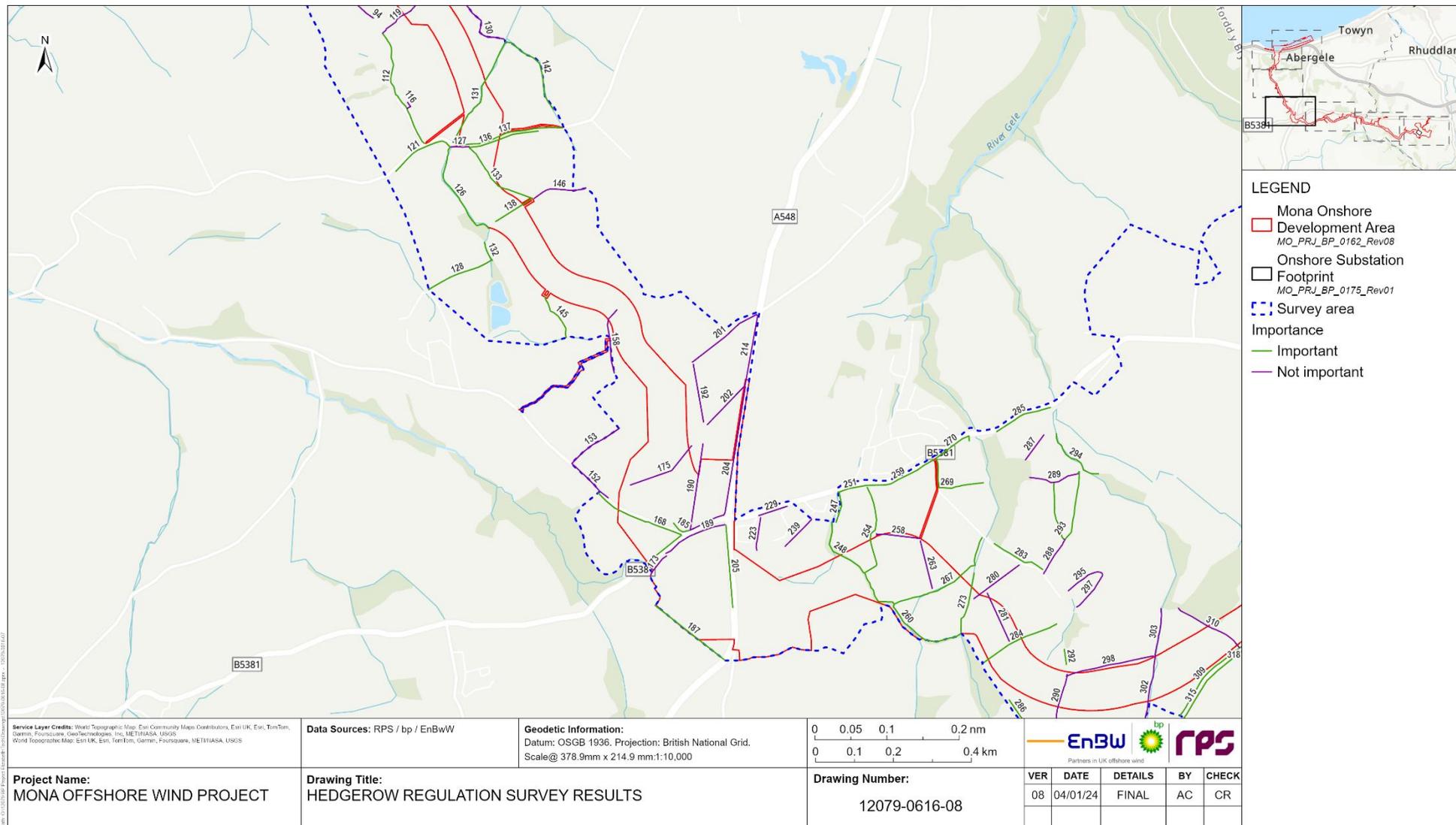


Figure 1.4: Hedgerow Regulations survey results.

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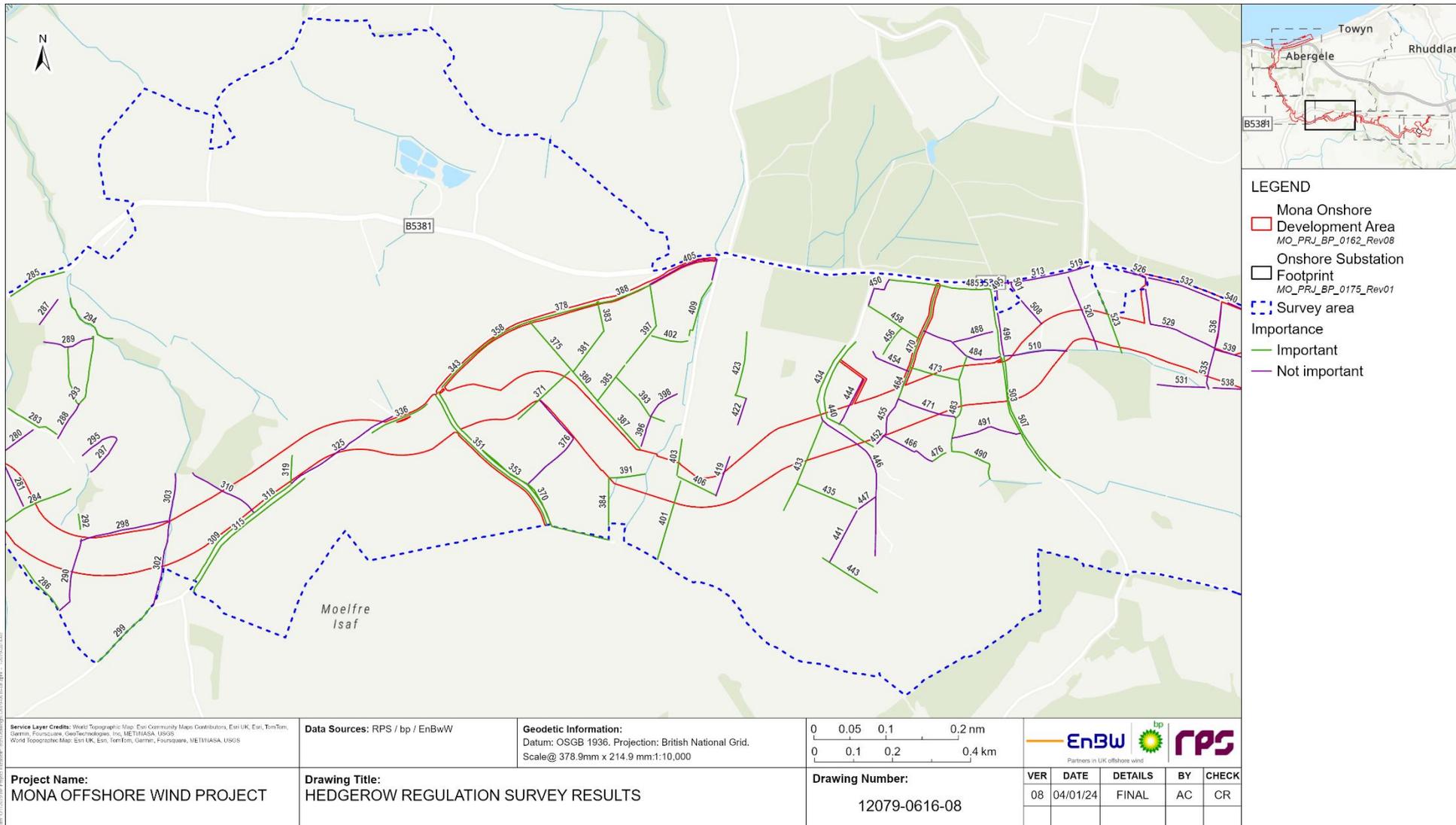


Figure 1.5: Hedgerow Regulations survey results.

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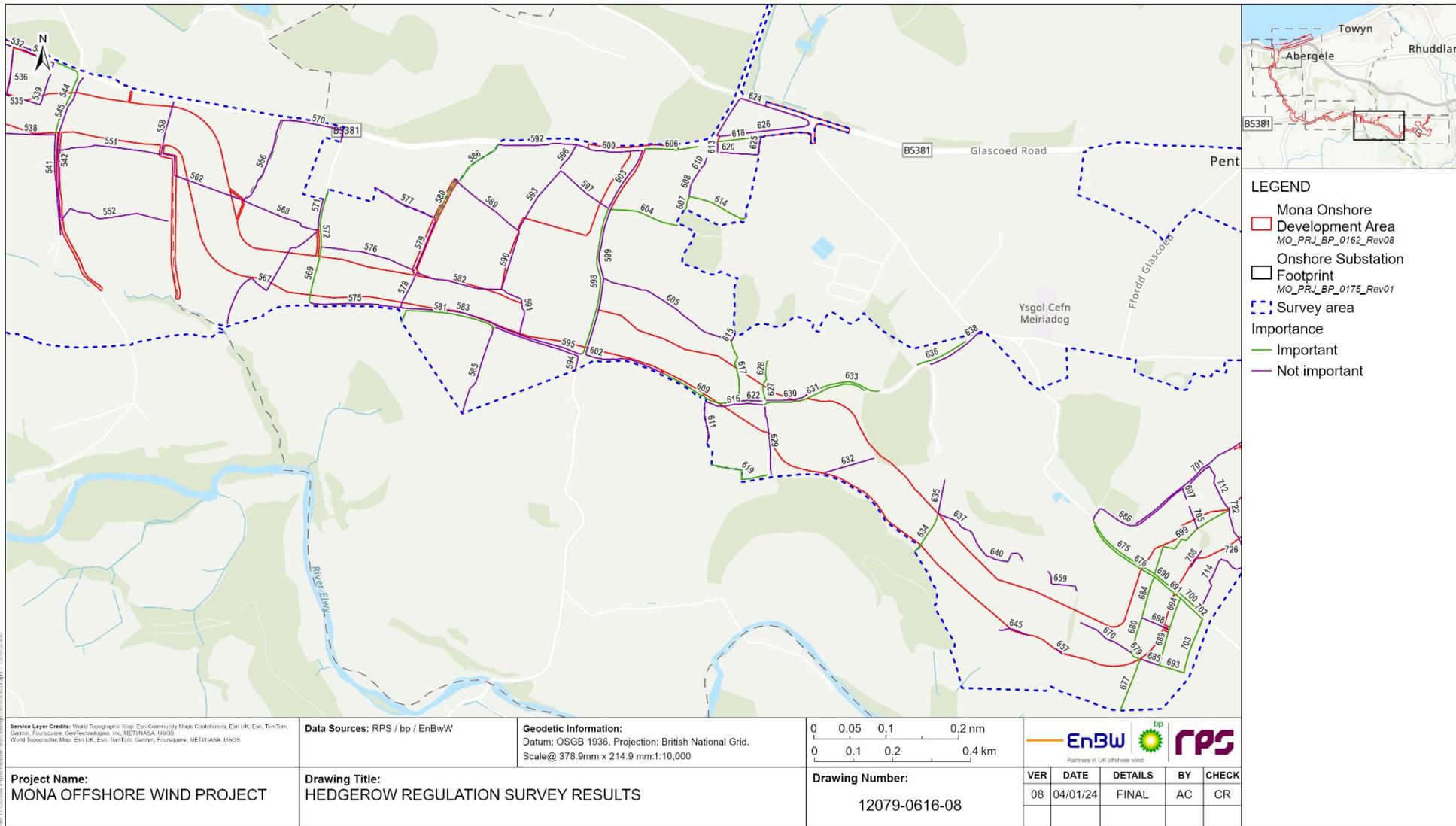


Figure 1.6: Hedgerow Regulations survey results.

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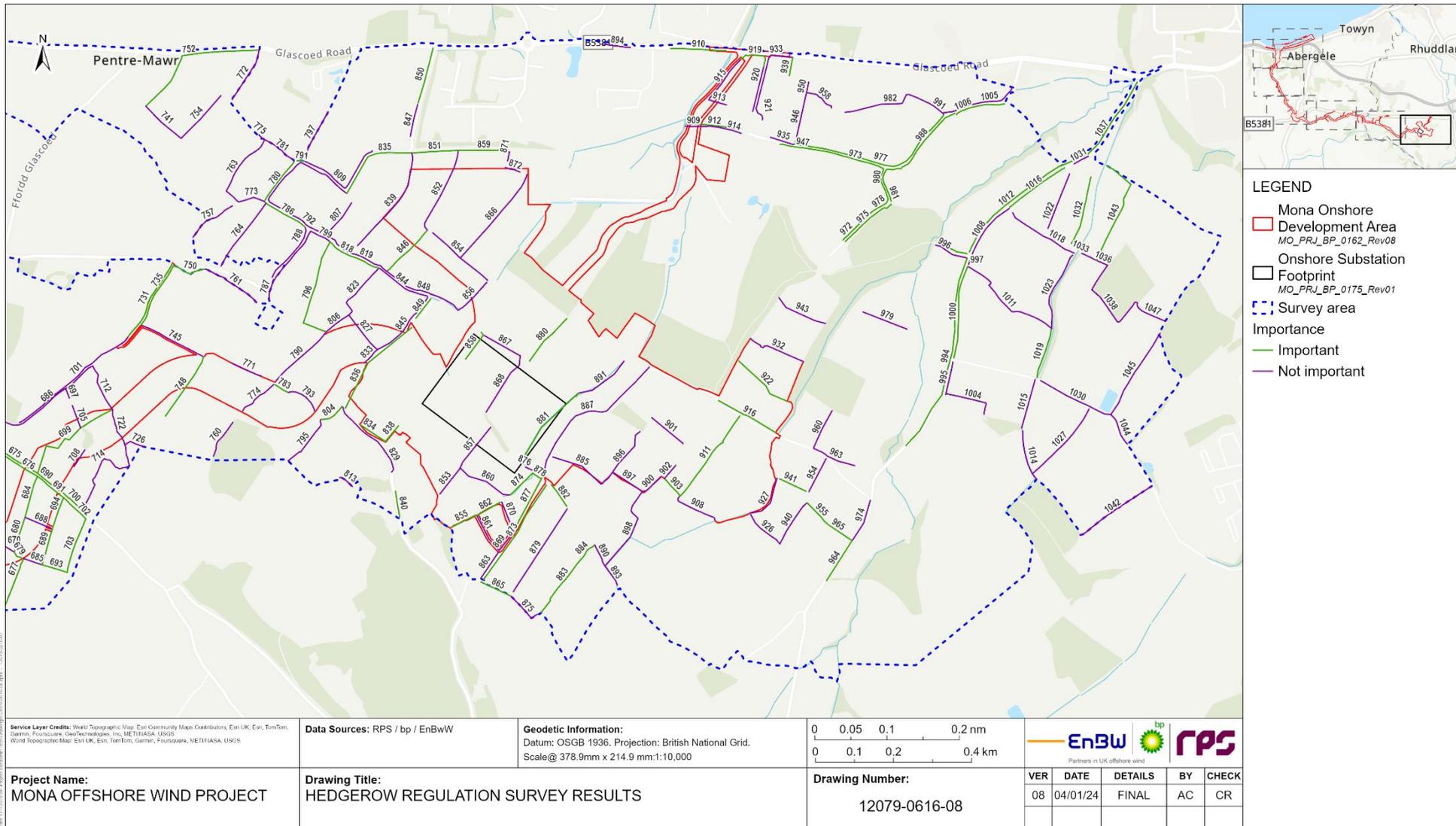


Figure 1.7: Hedgerow Regulations survey results.

1.7.3 Condition assessment

1.7.3.1 A total of 514 hedgerows were subject to condition assessment surveys within the hedgerow survey area. 231 of the hedgerows were located within the Mona Onshore Development Area, of which 30 were classed as poor, 88 were classed as moderate and 113 were classed as good. The combined length of hedgerows in good condition (21.0 km) was longer than the combined length of hedgerows in moderate (14.5 km) and poor condition (4.7 km) within the Mona Onshore Development Area.

1.7.3.2 The results of the condition assessments undertaken within the hedgerow survey area and Mona Onshore Development Area are summarised in Table 1.6 and illustrated in Figure 1.8 to Figure 1.13 of this technical report below.

Table 1.6: Summary of hedgerow condition assessment results.

Hedgerow condition assessment result	Within hedgerow survey area		Within Mona Onshore Development Area	
	Number of hedgerows	Combined length (km)	Number of hedgerows	Combined length (km)
Poor	56	8.1	26	3.8
Moderate	179	26.9	90	13.4
Good	279	44.0	116	19.5

1.7.3.3 The condition and the length of the important and non-important hedgerows (as per Hedgerow Regulations 1997) within the hedgerow survey area and Mona Onshore Development Area are presented in Table 1.7 below.

1.7.3.4 The most frequently recorded type of hedgerow within both the hedgerow survey area and Mona Onshore Development Area were hedgerows classed as not important and of good condition (24.0 km within the survey area and 10.2 km within the Mona Onshore Development Area).

1.7.3.5 The least frequently recorded type of hedgerow within both the hedgerow survey area and Mona Onshore Development Area were hedgerows classed as important and of poor condition (3.4 km within the survey area and 1.5 km within the Mona Onshore Development Area).

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Table 1.7: Summary of condition of ecologically important and non-important hedgerows.

Hedgerow Regulations survey result	Within hedgerow survey area			Within Mona Onshore Development Area		
	Length of poor condition hedgerow (km)	Length of moderate condition hedgerow (km)	Length of good condition hedgerow (km)	Length of poor condition hedgerow (km)	Length of moderate condition hedgerow (km)	Length of good condition hedgerow (km)
Ecologically important	3.4	11.5	20.0	1.5	6.1	9.4
Not ecologically important	4.7	15.4	24.0	2.3	7.3	10.2

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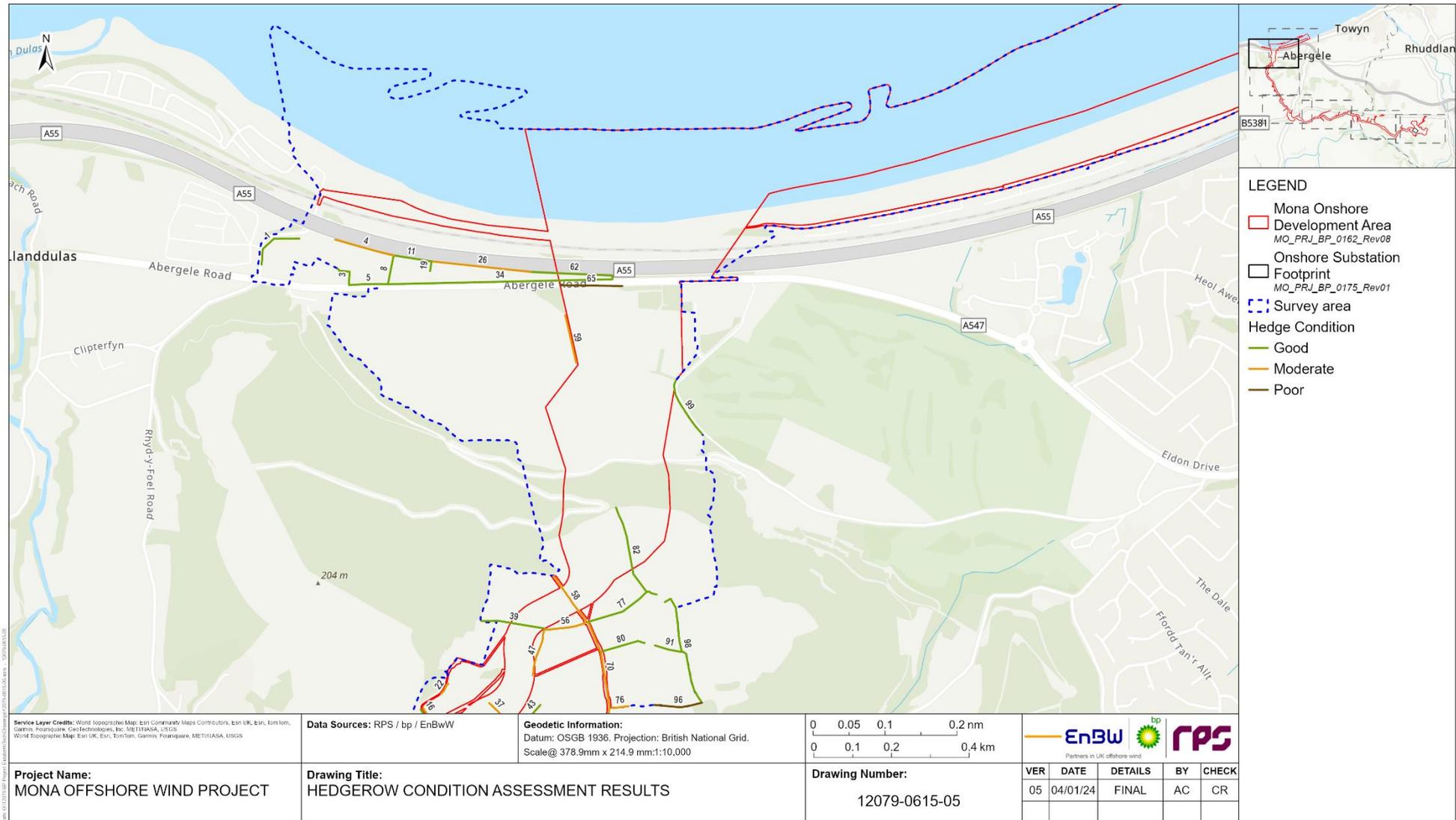


Figure 1.8: Hedgerow condition assessment results.

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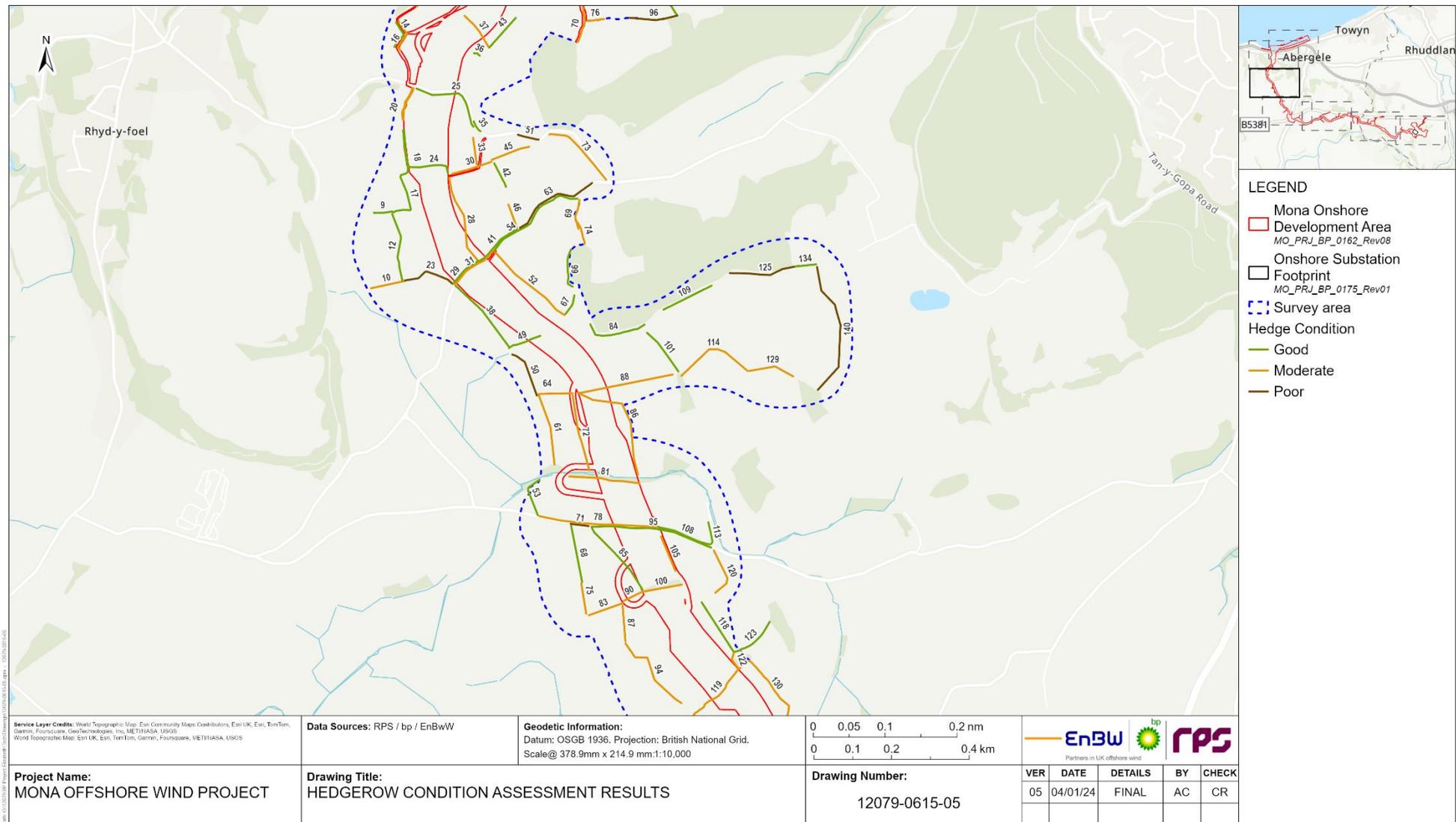


Figure 1.9: Hedgerow condition assessment results.

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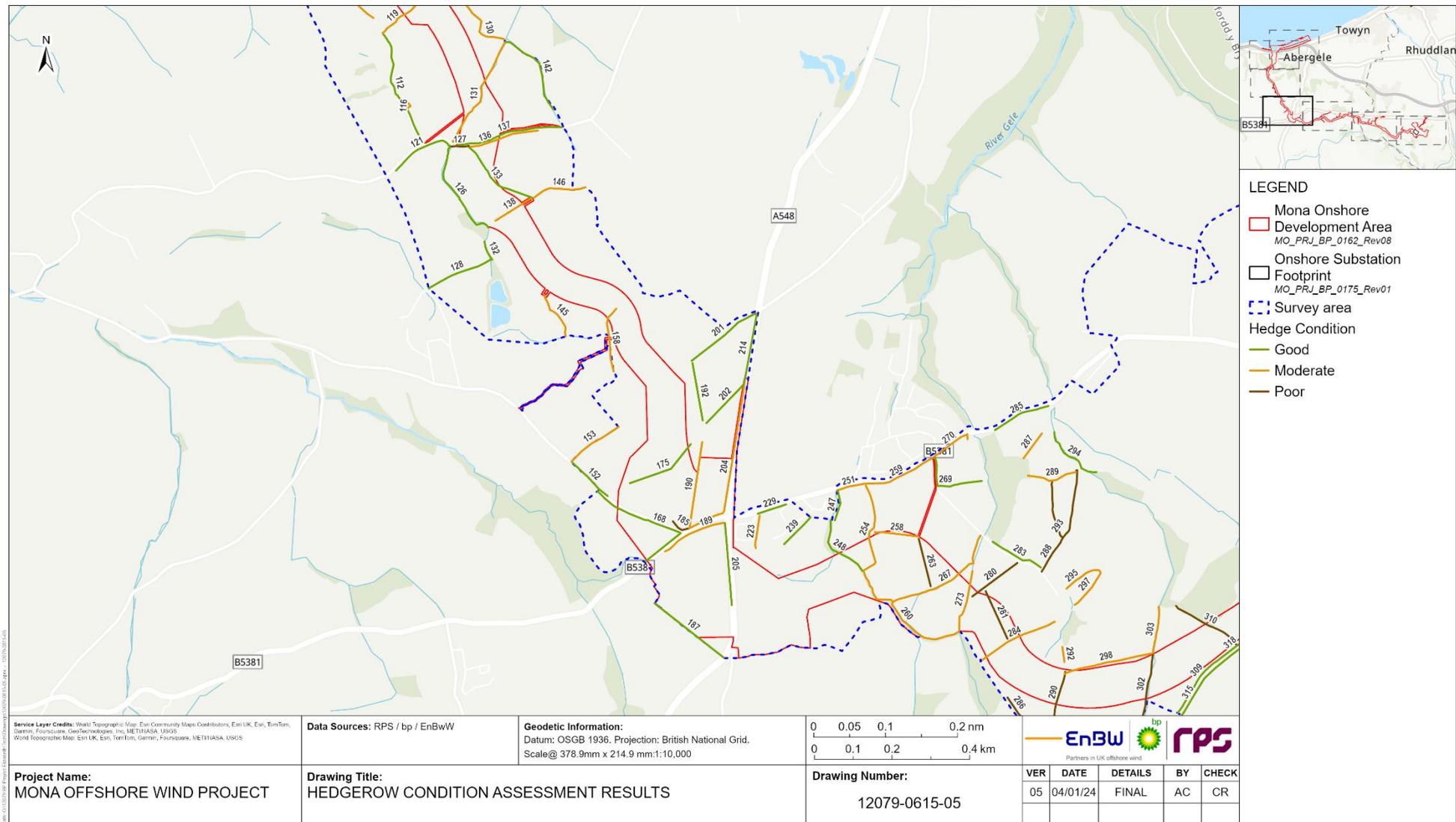


Figure 1.10: Hedgerow condition assessment results.

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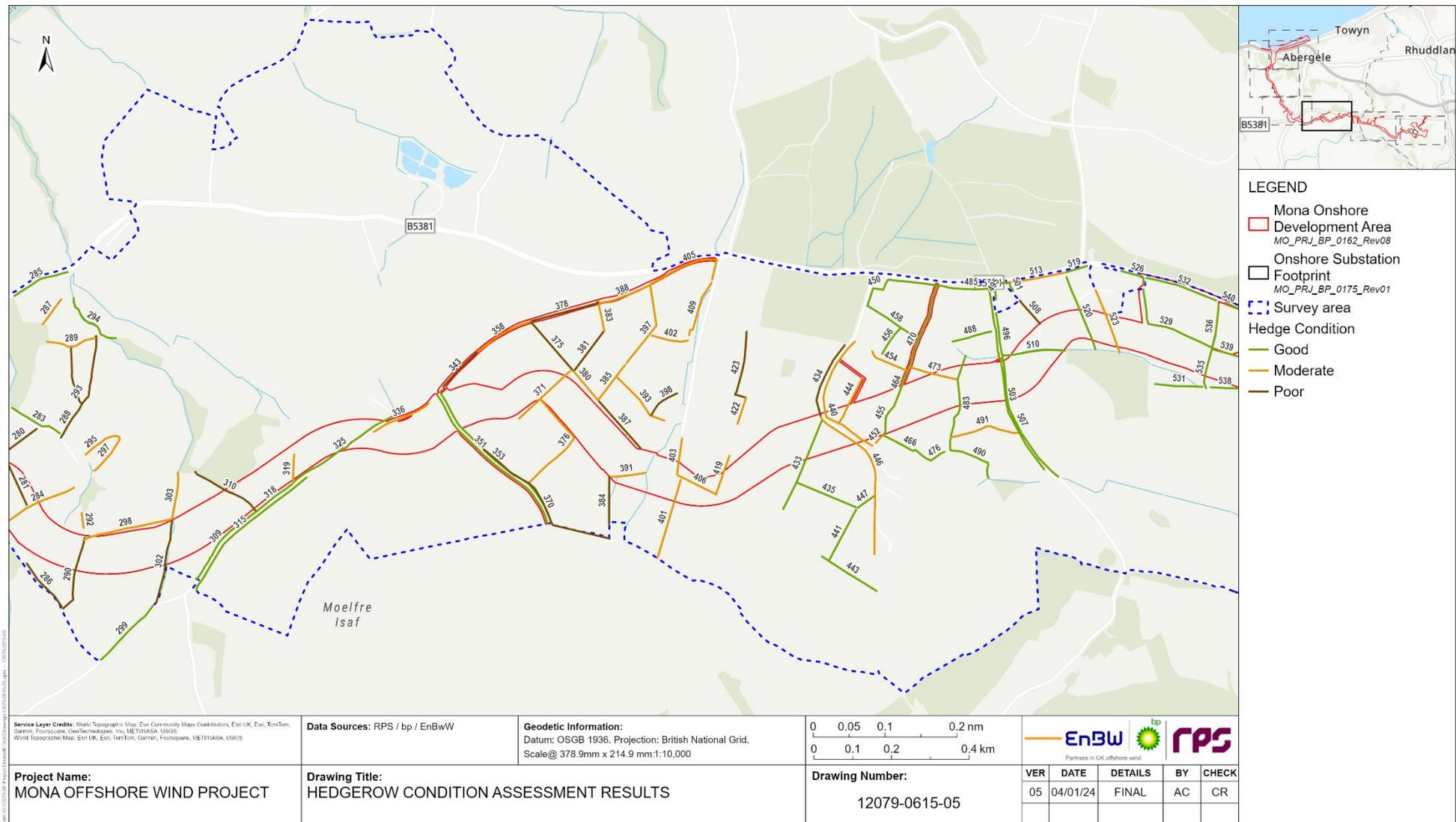


Figure 1.11: Hedgerow condition assessment results.

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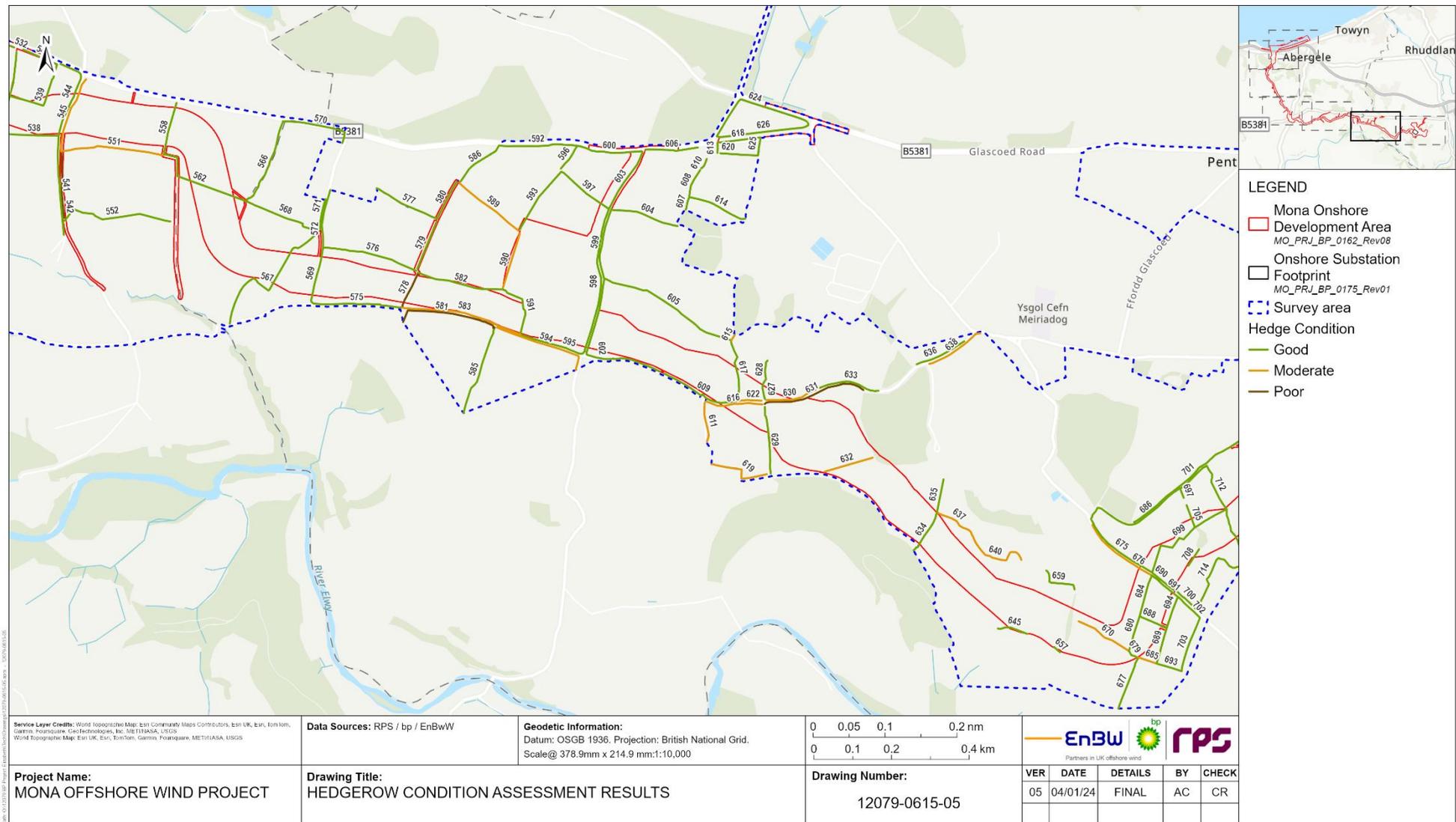


Figure 1.12: Hedgerow condition assessment results.

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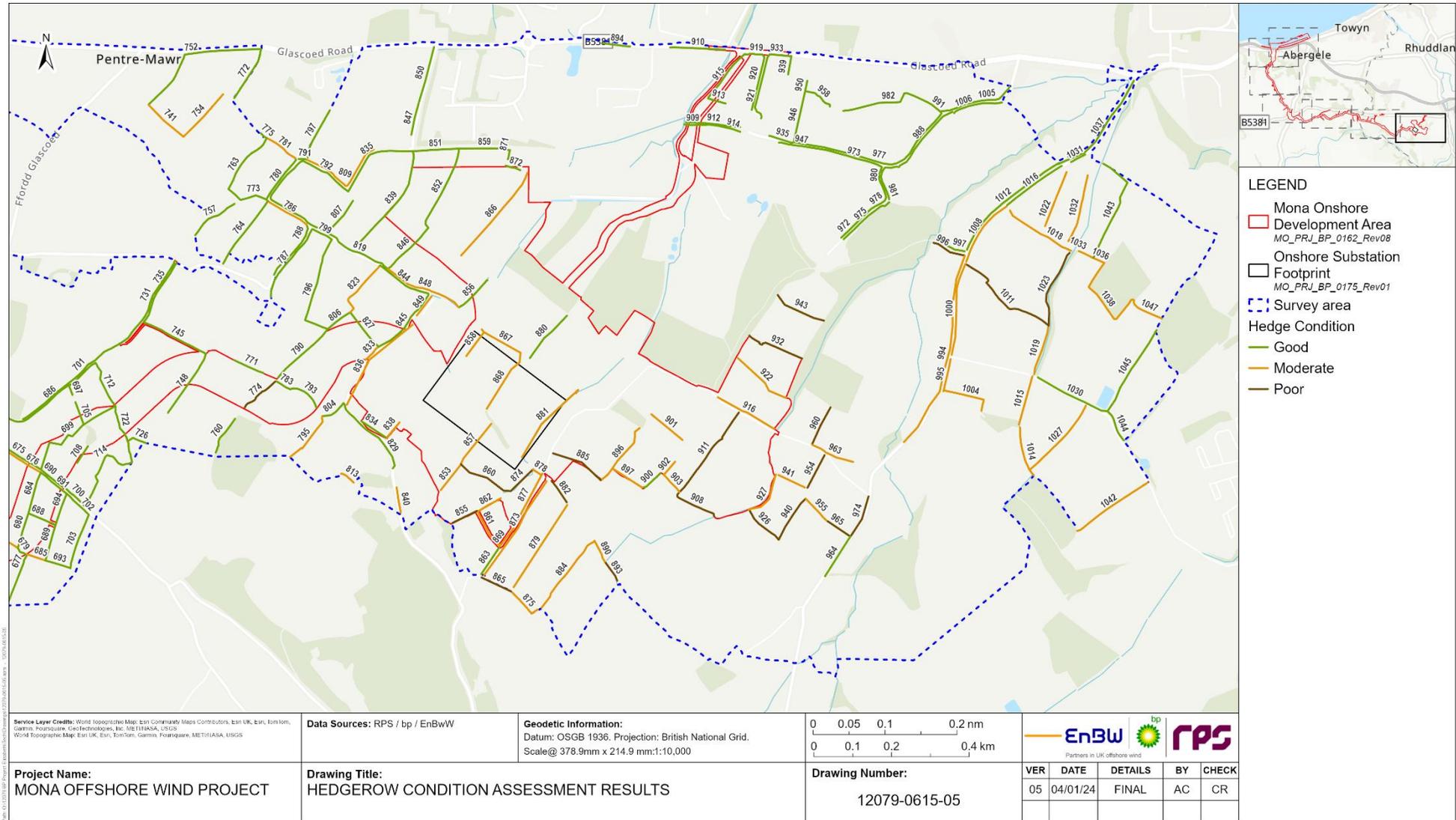


Figure 1.13: Hedgerow condition assessment results.

1.8 Summary

- 1.8.1.1 This technical report presents the results of the Hedgerow Regulation surveys and condition assessments undertaken between April and September 2023 to inform Volume 3, Chapter 3: Onshore ecology of the Environmental Statement.
- 1.8.1.2 A total of 514 hedgerows, collectively measuring 79.0 km were recorded within the survey area. Of those, 94 (combined length of 16.9 km) located within the Mona Onshore Development Area were classed as ecologically important (as per the Hedgerow Regulations 1997).
- 1.8.1.3 A total of 514 hedgerows were subject to condition assessment within the hedgerow survey area. Of those, 26 (combined length of 3.8 km) located within the Mona Onshore Development Area were classed as poor, 90 (combined length of 13.4 km) were classed as moderate and 116 (combined length of 19.5 km) were classed as good.
- 1.8.1.4 Of the hedgerows classed as important within the Mona Onshore Development Area, a total length of 9.4 km was of good condition, 6.1 km of moderate condition, and 1.5 km of poor condition.

1.9 References

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Appendix A: HEDGEROW SURVEY DATA

Apx Table 1: Hedgerow survey data.

Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
1	Not important	0.155682	Good	Outside
3	Not important	0.100505	Good	Outside
4	Not important	0.068157	Moderate	Outside
5	Not important	0.075164	Good	Outside
8	Not important	0.098714	Good	Outside
9	Yes Important	0.048978	Good	Outside
10	Yes Important	0.358517	Moderate	Outside
11	Not important	0.025125	Good	Outside
12	Not important	0.172304	Good	Outside
14	Yes Important	0.091774	Good	Within
16	Not important	0.10738	Moderate	Within
17	Yes Important	0.231487	Good	Outside
18	Not important	0.178395	Good	Within
19	Not important	0.578824	Good	Outside
20	Not important	0.125055	Moderate	Within
22	Not important	0.146383	Moderate	Outside
23	Not important	0.177325	Poor	Outside
24	Not important	0.207909	Good	Within
25	Not important	0.068212	Good	Within
26	Not important	0.097913	Moderate	Outside
28	Not important	0.10463	Moderate	Within
29	Not important	0.138676	Good	Within
30	Not important	0.11369	Moderate	Within
31	Not important	0.212188	Moderate	Within
33	Not important	0.305403	Moderate	Outside
34	Not important	0.216241	Good	Within
35	Not important	0.101692	Good	Outside
36	Yes Important	0.109378	Good	Outside
37	Not important	0.102882	Moderate	Within
38	Not important	0.21648	Good	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
39	Not important	0.195178	Good	Within
41	Not important	0.065764	Good	Within
42	Yes Important	0.088066	Good	Outside
43	Not important	0.042952	Good	Outside
45	Not important	0.197101	Moderate	Outside
46	Not important	0.067731	Moderate	Outside
47	Not important	0.123984	Moderate	Within
49	Yes Important	0.161999	Good	Within
50	Not important	0.087612	Poor	Outside
51	Yes Important	0.031739	Poor	Outside
52	Not important	0.077324	Moderate	Within
53	Not important	0.305135	Good	Outside
54	Not important	0.121233	Good	Outside
56	Not important	0.117158	Moderate	Within
58	Not important	0.146552	Moderate	Within
59	Yes Important	0.229669	Moderate	Outside
61	Not important	0.110238	Moderate	Outside
62	Not important	0.260982	Good	Within
63	Yes Important	0.234975	Poor	Outside
64	Not important	0.183922	Moderate	Within
65	Not important	0.125621	Poor	Within
66	Not important	0.35236	Good	Outside
67	Not important	0.104041	Good	Outside
68	Not important	0.046812	Good	Outside
69	Yes Important	0.273387	Moderate	Outside
70	Not important	0.106505	Moderate	Within
71	Yes Important	0.055434	Poor	Outside
72	Not important	0.174287	Moderate	Within
73	Yes Important	0.127516	Moderate	Outside
74	Not important	0.164972	Moderate	Outside
75	Not important	0.147445	Moderate	Outside
76	Not important	0.284135	Moderate	Outside
77	Not important	0.314702	Good	Within

MONA OFFSHORE WIND PROJECT

Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
78	Not important	0.094592	Moderate	Within
80	Not important	0.259703	Good	Within
81	Not important	0.244862	Moderate	Within
82	Not important	0.169903	Good	Within
83	Yes Important	0.078881	Moderate	Outside
84	Not important	0.12836	Good	Outside
85	Yes Important	0.317319	Good	Within
86	Not important	0.182554	Moderate	Within
87	Not important	0.092299	Moderate	Outside
88	Not important	0.196877	Moderate	Within
90	Not important	0.206539	Moderate	Within
91	Not important	0.266819	Good	Outside
94	Not important	0.090482	Moderate	Outside
95	Yes Important	0.130715	Good	Within
96	Not important	0.043052	Poor	Outside
98	Yes Important	0.381437	Good	Outside
99	Not important	0.031394	Good	Outside
100	Not important	0.048825	Moderate	Within
101	Yes Important	0.138213	Good	Outside
105	Not important	0.10341	Moderate	Within
108	Yes Important	0.147165	Good	Within
109	Yes Important	0.182607	Good	Outside
112	Yes Important	0.314311	Good	Outside
113	Not important	0.054524	Good	Outside
114	Not important	0.128502	Moderate	Outside
116	Not important	0.205416	Moderate	Outside
118	Not important	0.0475	Good	Outside
119	Not important	0.101596	Moderate	Within
120	Yes Important	0.149946	Moderate	Outside
121	Yes Important	0.170033	Good	Outside
122	Yes Important	0.226246	Moderate	Outside
123	Yes Important	0.15408	Good	Outside
125	Not important	0.102165	Poor	Outside

MONA OFFSHORE WIND PROJECT

Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
126	Yes Important	0.268779	Good	Within
127	Not important	0.107824	Poor	Within
128	Yes Important	0.051409	Good	Outside
129	Yes Important	0.132641	Moderate	Outside
130	Not important	0.255277	Moderate	Outside
131	Yes Important	0.289747	Moderate	Within
132	Yes Important	0.103002	Good	Outside
133	Yes Important	0.182746	Good	Within
134	Not important	0.054339	Good	Outside
136	Yes Important	0.131184	Moderate	Within
137	Yes Important	0.143607	Good	Within
138	Yes Important	0.165899	Moderate	Within
140	Not important	0.240965	Poor	Outside
142	Yes Important	0.294603	Good	Outside
145	Yes Important	0.226824	Moderate	Within
146	Not important	0.358466	Moderate	Outside
152	Not important	0.193266	Good	Outside
153	Not important	0.128468	Moderate	Outside
158	Not important	0.124653	Moderate	Within
168	Yes Important	0.141974	Good	Within
170	Yes Important	0.15723	Good	Outside
175	Not important	0.138877	Good	Within
185	Yes Important	0.126208	Poor	Within
187	Yes Important	0.210368	Good	Within
189	Not important	0.065851	Moderate	Within
190	Not important	0.052887	Moderate	Within
192	Not important	0.152267	Good	Outside
201	Not important	0.184397	Good	Outside
202	Not important	0.426095	Good	Within
204	Not important	0.222298	Moderate	Within
205	Yes Important	0.171248	Good	Within
214	Not important	0.149434	Good	Within
223	Not important	0.144345	Moderate	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
229	Not important	0.084419	Good	Outside
239	Not important	0.097067	Good	Outside
247	Yes Important	0.160098	Good	Outside
248	Yes Important	0.090832	Good	Within
251	Yes Important	0.19237	Moderate	Outside
254	Yes Important	0.24701	Moderate	Within
258	Not important	0.117225	Moderate	Within
259	Yes Important	0.290203	Moderate	Outside
260	Yes Important	0.347222	Moderate	Within
263	Not important	0.026256	Poor	Within
267	Yes Important	0.311426	Moderate	Within
269	Yes Important	0.272042	Good	Outside
270	Yes Important	0.189767	Moderate	Outside
273	Yes Important	0.156602	Moderate	Within
280	Not important	0.134198	Poor	Within
281	Not important	0.214393	Poor	Within
283	Yes Important	0.045755	Good	Outside
284	Yes Important	0.15287	Moderate	Within
285	Yes Important	0.114764	Good	Outside
286	Yes Important	0.211228	Poor	Outside
287	Not important	0.144308	Moderate	Outside
288	Not important	0.105642	Poor	Outside
289	Not important	0.079241	Moderate	Outside
290	Not important	0.196869	Poor	Within
292	Yes Important	0.144091	Moderate	Outside
293	Yes Important	0.333472	Poor	Outside
294	Yes Important	0.21678	Good	Outside
295	Not important	0.099247	Moderate	Outside
297	Not important	0.114303	Moderate	Outside
298	Not important	0.039067	Moderate	Within
299	Yes Important	0.192358	Good	Outside
302	Not important	0.230172	Poor	Within
303	Not important	0.121751	Moderate	Outside

MONA OFFSHORE WIND PROJECT

Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
309	Yes Important	0.230514	Good	Outside
310	Not important	0.190807	Poor	Within
315	Yes Important	0.077562	Good	Outside
318	Yes Important	0.115811	Good	Outside
319	Yes Important	0.314301	Moderate	Within
325	Not important	0.293413	Good	Within
336	Yes Important	0.411572	Moderate	Within
343	Yes Important	0.159293	Poor	Within
351	Yes Important	0.443987	Good	Within
353	Yes Important	0.451141	Good	Within
358	Yes Important	0.204577	Moderate	Within
370	Yes Important	0.120599	Poor	Within
371	Yes Important	0.152434	Moderate	Within
375	Yes Important	0.18429	Poor	Within
376	Not important	0.296857	Moderate	Within
378	Yes Important	0.07771	Poor	Within
380	Yes Important	0.113909	Moderate	Outside
381	Yes Important	0.164201	Poor	Outside
383	Yes Important	0.1427	Moderate	Within
384	Yes Important	0.179223	Poor	Outside
385	Yes Important	0.16654	Moderate	Outside
387	Yes Important	0.078092	Poor	Outside
388	Yes Important	0.240022	Moderate	Within
391	Yes Important	0.09341	Moderate	Within
393	Yes Important	0.094331	Moderate	Outside
397	Yes Important	0.09774	Moderate	Within
398	Not important	0.171835	Poor	Outside
401	Yes Important	0.092185	Moderate	Within
402	Yes Important	0.228864	Moderate	Outside
403	Yes Important	0.421389	Moderate	Within
405	Not important	0.127755	Moderate	Within
406	Yes Important	0.109794	Moderate	Within
409	Yes Important	0.097562	Moderate	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
419	Not important	0.070292	Moderate	Within
422	Not important	0.24671	Moderate	Outside
423	Yes Important	0.194442	Poor	Outside
433	Yes Important	0.033001	Good	Within
434	Yes Important	0.20806	Poor	Within
435	Yes Important	0.381376	Good	Outside
440	Yes Important	0.320664	Moderate	Within
441	Not important	0.165933	Good	Outside
443	Yes Important	0.415585	Good	Outside
444	Not important	0.13161	Moderate	Within
446	Not important	0.054616	Moderate	Within
447	Not important	0.065202	Good	Outside
450	Not important	0.179471	Good	Outside
452	Not important	0.120892	Moderate	Outside
454	Not important	0.027099	Moderate	Within
455	Not important	0.14352	Good	Within
456	Yes Important	0.156353	Good	Outside
458	Yes Important	0.101261	Good	Within
464	Not important	0.073862	Moderate	Within
466	Not important	0.042053	Good	Outside
470	Yes Important	0.430331	Good	Within
473	Yes Important	0.082766	Moderate	Within
476	Yes Important	0.101685	Good	Outside
483	Yes Important	0.156718	Good	Within
485	Yes Important	0.211151	Good	Within
488	Not important	0.2192	Good	Outside
490	Yes Important	0.182016	Good	Outside
491	Not important	0.251937	Moderate	Outside
495	Not important	0.02434	Good	Outside
496	Not important	0.110711	Good	Outside
501	Not important	0.145576	Good	Outside
503	Yes Important	0.140334	Good	Within
507	Yes Important	0.161079	Good	Within

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
508	Not important	0.079225	Poor	Within
510	Not important	0.076582	Good	Within
513	Not important	0.198278	Moderate	Outside
519	Not important	0.075524	Good	Outside
520	Not important	0.059633	Good	Within
523	Yes Important	0.172103	Moderate	Within
526	Not important	0.253353	Good	Within
529	Not important	0.129743	Good	Within
531	Not important	0.266356	Good	Outside
532	Not important	0.110123	Good	Within
535	Not important	0.104296	Good	Within
536	Not important	0.094805	Good	Within
538	Not important	0.22659	Good	Outside
539	Not important	0.202684	Good	Within
540	Not important	0.291765	Good	Within
541	Not important	0.12281	Good	Outside
542	Not important	0.120617	Poor	Within
544	Yes Important	0.142413	Good	Within
545	Not important	0.30104	Moderate	Within
551	Not important	0.17469	Moderate	Within
552	Not important	0.176063	Good	Within
558	Not important	0.197311	Good	Within
562	Not important	0.18251	Good	Within
566	Not important	0.230462	Good	Outside
567	Not important	0.202191	Good	Within
568	Not important	0.205053	Good	Outside
569	Yes Important	0.237134	Good	Within
570	Not important	0.191089	Good	Outside
571	Not important	0.082081	Good	Outside
572	Yes Important	0.142499	Good	Outside
575	Not important	0.0986	Good	Outside
576	Not important	0.129666	Good	Within
577	Not important	0.199011	Good	Within

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
578	Not important	0.249859	Poor	Within
579	Not important	0.156005	Good	Within
580	Yes Important	0.264422	Good	Within
581	Yes Important	0.20636	Poor	Outside
582	Not important	0.149751	Good	Within
583	Not important	0.302623	Moderate	Within
585	Not important	0.234802	Good	Outside
586	Yes Important	0.390956	Good	Outside
589	Not important	0.109926	Moderate	Outside
590	Not important	0.223572	Moderate	Within
591	Not important	0.149862	Good	Within
592	Not important	0.072993	Good	Outside
593	Not important	0.13554	Good	Within
594	Not important	0.071173	Moderate	Outside
595	Not important	0.151071	Good	Outside
596	Not important	0.265851	Good	Outside
597	Not important	0.173274	Good	Within
598	Yes Important	0.233778	Good	Within
599	Not important	0.177677	Good	Within
600	Not important	0.13814	Good	Within
602	Not important	0.371309	Good	Within
603	Not important	0.168418	Good	Within
604	Yes Important	0.159424	Good	Within
605	Not important	0.152913	Good	Within
606	Yes Important	0.181446	Good	Within
607	Yes Important	0.075832	Good	Outside
608	Not important	0.028908	Good	Outside
609	Yes Important	0.397435	Good	Within
610	Not important	0.04722	Good	Outside
611	Not important	0.168799	Moderate	Outside
613	Not important	0.097184	Good	Outside
614	Yes Important	0.156319	Good	Outside
615	Not important	0.049081	Moderate	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
616	Not important	0.159766	Moderate	Within
617	Yes Important	0.066087	Good	Within
618	Yes Important	0.136513	Good	Within
619	Yes Important	0.17228	Moderate	Outside
620	Not important	0.107635	Good	Outside
622	Not important	0.170839	Moderate	Within
624	Not important	0.076712	Good	Within
625	Not important	0.02599	Good	Within
626	Not important	0.245736	Good	Within
627	Yes Important	0.058403	Good	Within
628	Yes Important	0.062331	Good	Outside
629	Not important	0.14831	Good	Within
630	Not important	0.01601	Moderate	Within
631	Yes Important	0.084997	Poor	Within
632	Not important	0.072988	Moderate	Within
633	Yes Important	0.136969	Good	Outside
634	Yes Important	0.15758	Good	Within
635	Not important	0.128721	Good	Outside
636	Yes Important	0.155481	Good	Outside
637	Not important	0.020463	Moderate	Outside
638	Not important	0.033904	Moderate	Outside
640	Not important	0.190121	Moderate	Outside
645	Not important	0.113906	Good	Within
657	Not important	0.079042	Good	Within
659	Not important	0.09804	Good	Outside
670	Not important	0.017158	Moderate	Within
675	Yes Important	0.21703	Good	Within
676	Yes Important	0.124958	Moderate	Within
677	Yes Important	0.138975	Good	Outside
679	Yes Important	0.151555	Good	Within
680	Yes Important	0.204457	Good	Within
684	Yes Important	0.092161	Good	Within
685	Not important	0.048918	Moderate	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
686	Not important	0.124073	Good	Outside
688	Not important	0.076025	Good	Within
689	Yes Important	0.093875	Good	Outside
690	Yes Important	0.068263	Good	Within
691	Yes Important	0.086199	Good	Within
693	Yes Important	0.067897	Good	Outside
694	Yes Important	0.085558	Good	Outside
697	Not important	0.061173	Good	Outside
699	Yes Important	0.208742	Good	Within
700	Yes Important	0.084966	Good	Within
701	Not important	0.111353	Good	Within
702	Yes Important	0.078102	Good	Outside
703	Yes Important	0.145157	Good	Outside
705	Not important	0.279715	Good	Within
708	Not important	0.050594	Good	Within
712	Not important	0.02673	Good	Within
714	Not important	0.279627	Good	Outside
722	Not important	0.081255	Good	Within
726	Not important	0.054033	Good	Outside
731	Yes Important	0.356889	Good	Within
735	Yes Important	0.354326	Good	Within
741	Not important	0.149692	Moderate	Outside
745	Not important	0.053655	Good	Within
748	Yes Important	0.180025	Good	Within
752	Yes Important	0.243724	Good	Outside
754	Not important	0.144911	Moderate	Outside
757	Not important	0.06937	Good	Outside
760	Not important	0.180068	Good	Outside
763	Not important	0.091101	Good	Outside
764	Not important	0.132125	Good	Outside
771	Not important	0.105497	Good	Outside
772	Not important	0.358872	Good	Outside
773	Not important	0.20934	Good	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
774	Not important	0.102407	Poor	Within
775	Not important	0.133509	Good	Outside
776	Not important	0.135254	Good	Outside
780	Yes Important	0.122563	Good	Outside
781	Not important	0.019553	Moderate	Outside
783	Yes Important	0.2077	Good	Within
786	Yes Important	0.218596	Moderate	Outside
787	Not important	0.281437	Good	Outside
788	Not important	0.145099	Good	Outside
790	Not important	0.175574	Good	Within
791	Yes Important	0.127665	Good	Outside
792	Not important	0.023137	Good	Outside
793	Not important	0.041023	Good	Within
795	Not important	0.067712	Moderate	Outside
796	Yes Important	0.057762	Good	Outside
797	Not important	0.022164	Good	Outside
799	Not important	0.189976	Good	Outside
804	Yes Important	0.221803	Good	Outside
806	Not important	0.115051	Good	Outside
807	Not important	0.446349	Good	Outside
809	Not important	0.196914	Moderate	Outside
813	Not important	0.140561	Moderate	Outside
819	Not important	0.106289	Good	Outside
823	Not important	0.071845	Moderate	Outside
827	Not important	0.04899	Good	Within
829	Not important	0.088123	Good	Outside
833	Not important	0.090154	Moderate	Within
834	Yes Important	0.053981	Good	Within
835	Yes Important	0.119259	Good	Outside
836	Yes Important	0.07429	Moderate	Within
838	Yes Important	0.082376	Moderate	Within
839	Not important	0.221497	Good	Within
840	Yes Important	0.041251	Moderate	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
844	Not important	0.161519	Good	Outside
845	Not important	0.145007	Good	Within
846	Yes Important	0.183127	Good	Within
847	Not important	0.045778	Good	Outside
848	Not important	0.103527	Moderate	Outside
849	Yes Important	0.268105	Moderate	Outside
850	Yes Important	0.083384	Good	Outside
851	Yes Important	0.225411	Good	Outside
852	Not important	0.148279	Good	Within
853	Not important	0.133457	Moderate	Within
855	Yes Important	0.104884	Poor	Within
856	Not important	0.185158	Good	Within
857	Not important	0.172095	Moderate	Within
858	Yes Important	0.107889	Moderate	Within
859	Yes Important	0.07334	Good	Outside
860	Not important	0.080865	Poor	Within
861	Not important	0.236702	Moderate	Within
862	Yes Important	0.251584	Moderate	Within
863	Not important	0.071652	Good	Within
865	Yes Important	0.077524	Poor	Outside
866	Not important	0.039719	Moderate	Within
867	Not important	0.145122	Moderate	Within
868	Not important	0.085585	Moderate	Within
869	Not important	0.070346	Moderate	Within
871	Not important	0.131437	Good	Outside
872	Not important	0.024007	Good	Within
873	Yes Important	0.165044	Moderate	Outside
874	Yes Important	0.14997	Poor	Within
875	Not important	0.112565	Moderate	Outside
877	Yes Important	0.058201	Moderate	Within
878	Yes Important	0.079663	Moderate	Within
879	Not important	0.096394	Moderate	Outside
880	Yes Important	0.223977	Good	Within

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
881	Yes Important	0.148121	Moderate	Within
882	Yes Important	0.083435	Poor	Outside
884	Yes Important	0.221212	Moderate	Outside
885	Not important	0.173233	Poor	Within
890	Not important	0.05857	Moderate	Outside
893	Not important	0.233946	Poor	Outside
894	Not important	0.142565	Good	Outside
895	Not important	0.070975	Good	Outside
896	Not important	0.237133	Moderate	Within
897	Not important	0.044691	Moderate	Within
900	Not important	0.14385	Good	Within
901	Not important	0.104014	Moderate	Within
902	Not important	0.0603	Moderate	Within
903	Yes Important	0.059959	Moderate	Within
908	Not important	0.123168	Poor	Within
909	Not important	0.140133	Good	Within
910	Yes Important	0.174827	Good	Within
911	Yes Important	0.257371	Poor	Within
912	Yes Important	0.12915	Good	Within
913	Not important	0.046959	Good	Within
914	Not important	0.054788	Good	Outside
915	Not important	0.12646	Good	Outside
916	Yes Important	0.067601	Moderate	Within
919	Yes Important	0.158781	Good	Within
920	Not important	0.114993	Good	Outside
921	Not important	0.142123	Good	Outside
922	Yes Important	0.166716	Moderate	Within
926	Not important	0.12651	Poor	Outside
927	Not important	0.162992	Moderate	Within
932	Not important	0.155901	Poor	Within
933	Not important	0.09698	Good	Outside
935	Not important	0.453293	Good	Outside
939	Yes Important	0.047889	Good	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
940	Not important	0.094621	Poor	Outside
941	Yes Important	0.114884	Moderate	Outside
943	Not important	0.164505	Poor	Outside
946	Not important	0.12987	Good	Outside
947	Yes Important	0.061382	Good	Outside
950	Not important	0.027182	Good	Outside
954	Not important	0.075004	Poor	Outside
955	Yes Important	0.106978	Moderate	Outside
958	Not important	0.080729	Good	Outside
960	Not important	0.140299	Poor	Outside
963	Not important	0.105732	Moderate	Outside
964	Yes Important	0.205534	Good	Outside
965	Yes Important	0.076327	Poor	Outside
972	Yes Important	0.171604	Good	Outside
973	Yes Important	0.113174	Good	Outside
974	Not important	0.070348	Poor	Outside
975	Yes Important	0.06822	Good	Outside
977	Yes Important	0.194626	Good	Outside
978	Yes Important	0.160481	Good	Outside
980	Yes Important	0.035553	Good	Outside
981	Yes Important	0.153674	Good	Outside
982	Not important	0.239334	Good	Outside
988	Yes Important	0.089528	Good	Outside
991	Not important	0.043264	Good	Outside
994	Yes Important	0.088802	Moderate	Outside
995	Not important	0.084555	Moderate	Outside
996	Not important	0.120915	Poor	Outside
997	Yes Important	0.29989	Good	Outside
1000	Yes Important	0.204608	Moderate	Outside
1004	Not important	0.135403	Moderate	Outside
1005	Not important	0.091521	Good	Outside
1006	Yes Important	0.197187	Good	Outside
1008	Not important	0.128512	Moderate	Outside

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Hedgerow number	Hedgerow Regulations result	Length (km)	Condition assessment result	Within Mona Onshore Development Area
1011	Not important	0.283285	Poor	Outside
1012	Yes Important	0.330837	Good	Outside
1014	Not important	0.129947	Moderate	Outside
1015	Not important	0.190696	Moderate	Outside
1016	Yes Important	0.173599	Good	Outside
1018	Not important	0.180005	Moderate	Outside
1019	Yes Important	0.515608	Moderate	Outside
1022	Not important	0.215628	Moderate	Outside
1023	Not important	0.127839	Poor	Outside
1027	Not important	0.221245	Moderate	Outside
1030	Not important	0.087538	Good	Outside
1031	Not important	0.285201	Good	Outside
1032	Yes Important	0.177285	Moderate	Outside
1033	Not important	0.104617	Moderate	Outside
1036	Not important	0.03633	Moderate	Outside
1037	Yes Important	0.041454	Good	Outside
1038	Not important	0.036111	Moderate	Outside
1042	Not important	0.219766	Moderate	Outside
1043	Yes Important	0.200739	Good	Outside
1044	Not important	0.243562	Good	Outside
1045	Not important	0.25624	Good	Outside
1047	Not important	0.088645	Moderate	Outside