

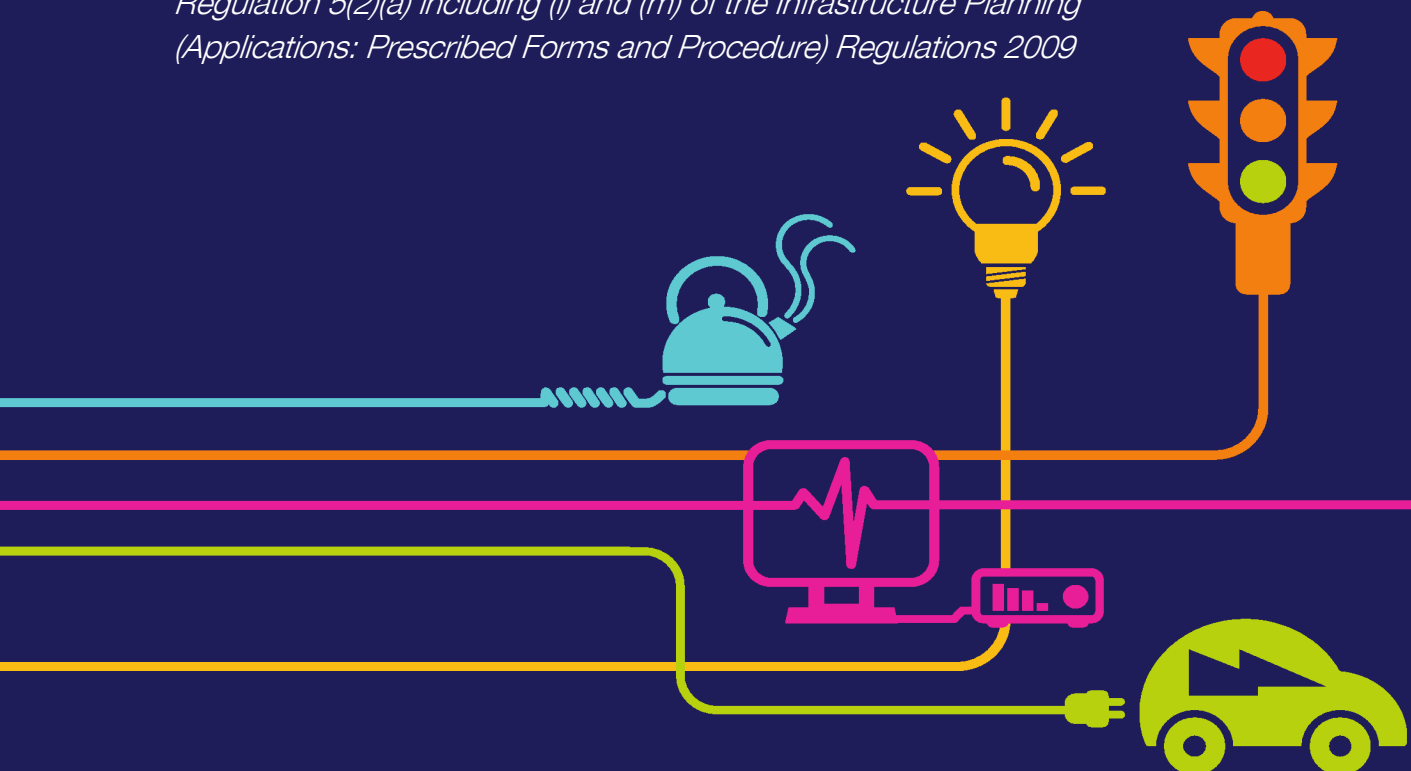
DOCUMENT 5.16.2.1

Representative Baseline Area Map

Chapter 16 – Appendix 1

National Grid (North Wales Connection Project)

Regulation 5(2)(a) including (l) and (m) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009





North Wales Connection Project

Environmental Statement

Document 5.16.2.1 Appendix 16.1 Representative Baseline Area Map

National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Final September 2018

Page intentionally blank

Document Control			
Document Properties			
Organisation	National Grid		
Author	Jon Baldwin and Simon Stephenson		
Approved by	Richard Morris		
Title	Operational Noise Appendix 16.2.1 Representative Baseline Area Map		
Document Reference	Document 5.16.2.1		
Version History			
Date	Version	Status	Description/Changes
September 2018	Rev A	Final	Final for submission

Page intentionally blank

Contents

1	Representative Baseline Areas	1
1.1	Introduction	1
1.2	Methodology	1
	References for Appendix 16.1	2
	Figure 1	3

Figure 1	
Sheet 1 of 6	Representative Noise Baseline Areas Section A
Sheet 2 of 6	Representative Noise Baseline Areas Section B
Sheet 3 of 6	Representative Noise Baseline Areas Section C
Sheet 4 of 6	Representative Noise Baseline Areas Section D
Sheet 5 of 6	Representative Noise Baseline Areas Section E
Sheet 6 of 6	Representative Noise Baseline Areas Section F

Page intentionally blank

1 Representative Baseline Areas

1.1 INTRODUCTION

- 1.1.1 This Appendix presents the representative baseline areas that have been derived following a series of attended short-term and unattended long-term sound surveys undertaken between March and April 2017. The survey locations, adopted methodology and results are presented in the Baseline Sound Monitoring Report (**Document 5.15.2.2**). The representative baseline sound level areas along the Proposed Development are presented in Figure 1 sheets 1 to 6.

1.2 METHODOLOGY

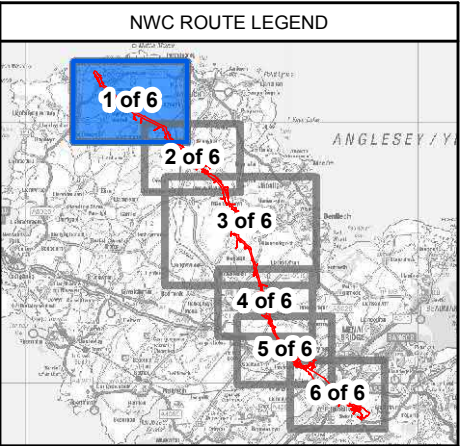
- 1.2.1 The representative baseline sound levels presented in this document are determined from the 25th percentile of the night-time background and ambient sound levels. This method has been adopted for this assessment in order to characterise the baseline sound environment. This level excludes 75% of the noisier levels and, although it is not the lowest sound level encountered, it is typically lower than that obtained using the average, median or modal values. It therefore represents the lower range of sound levels that are likely to be encountered over a defined period.
- 1.2.2 The sound levels presented in this document are representative of the night time period which is defined as 2300 to 0700 hrs, as stated in BS 4142:2014 'Methods for rating and assessing industrial and commercial sound' [Ref 1].
- 1.2.3 The determination of the most appropriate sound levels to adopt for each area is based on an analysis of the data from the nearest survey locations. Data from long-term measurement locations has been compared to corresponding concurrent short-term attended measurement data in order to determine the most appropriate level for each area. Baseline levels have been agreed following discussions with Isle of Anglesey County Council and Gwynedd Council.

References for Appendix 16.1

-
- 1 British Standards Institution. British Standard 4142:2014. Methods for rating and assessing industrial and commercial sound.

Figure 1

Page intentionally blank

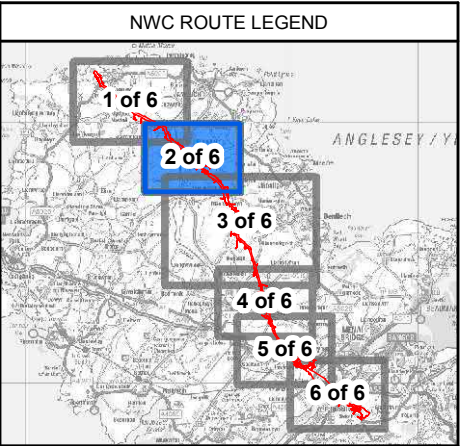


LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- REPRESENTATIVE NOISE BASELINE AREA

A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION A					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:24,000	Format: A3	Sheets: 1 of 6	Rev: A	

Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.

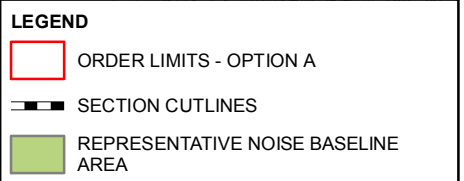
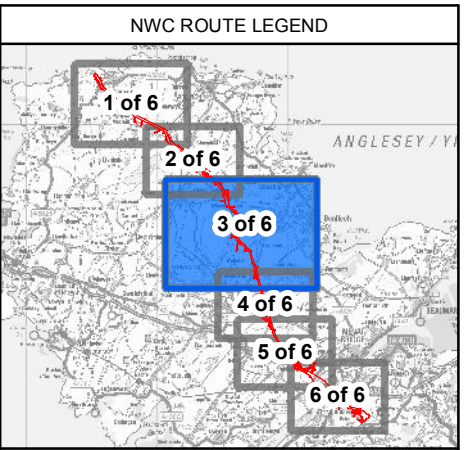
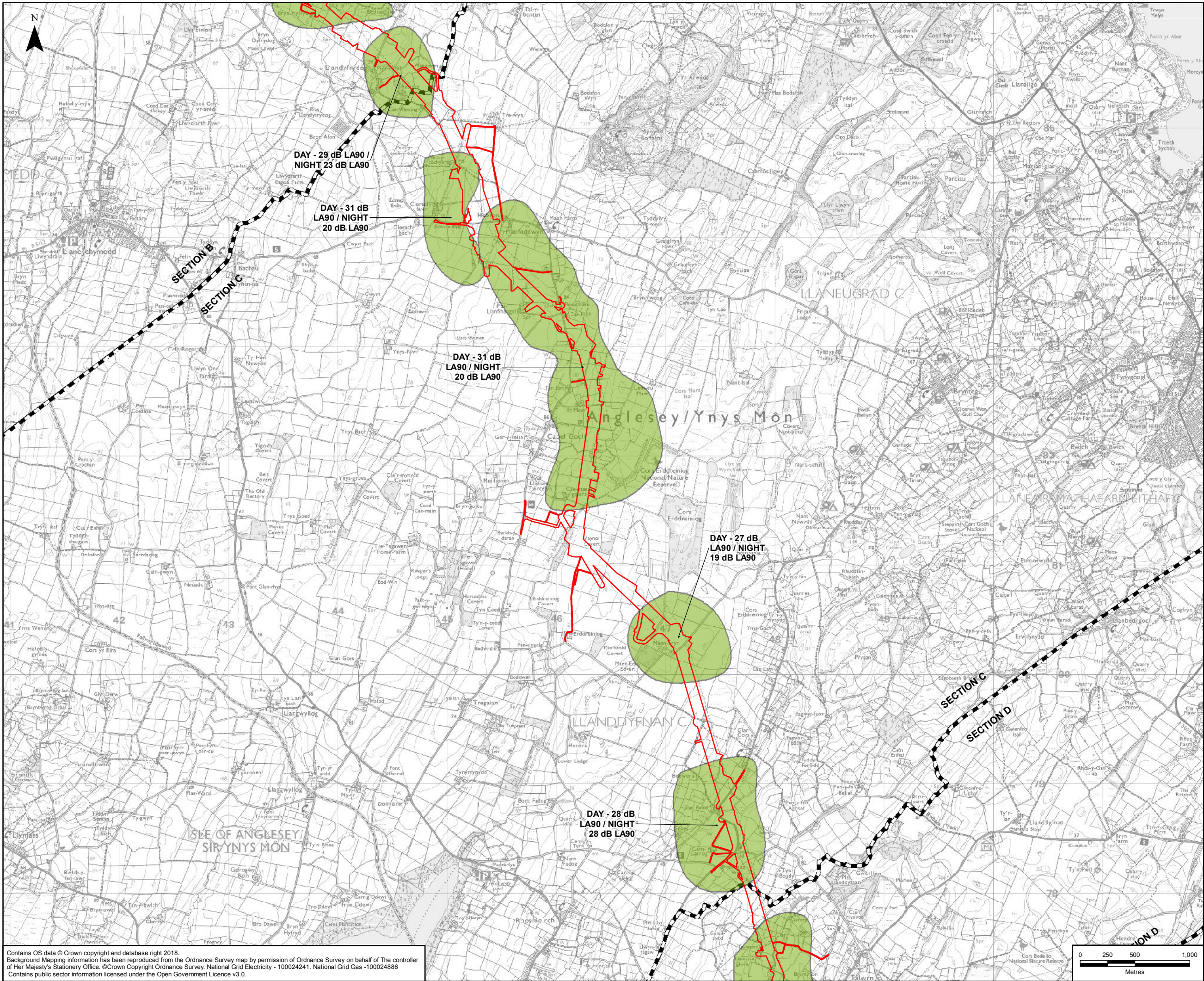


LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- REPRESENTATIVE NOISE BASELINE AREA

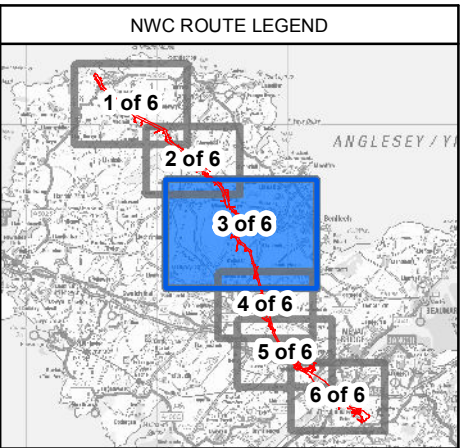
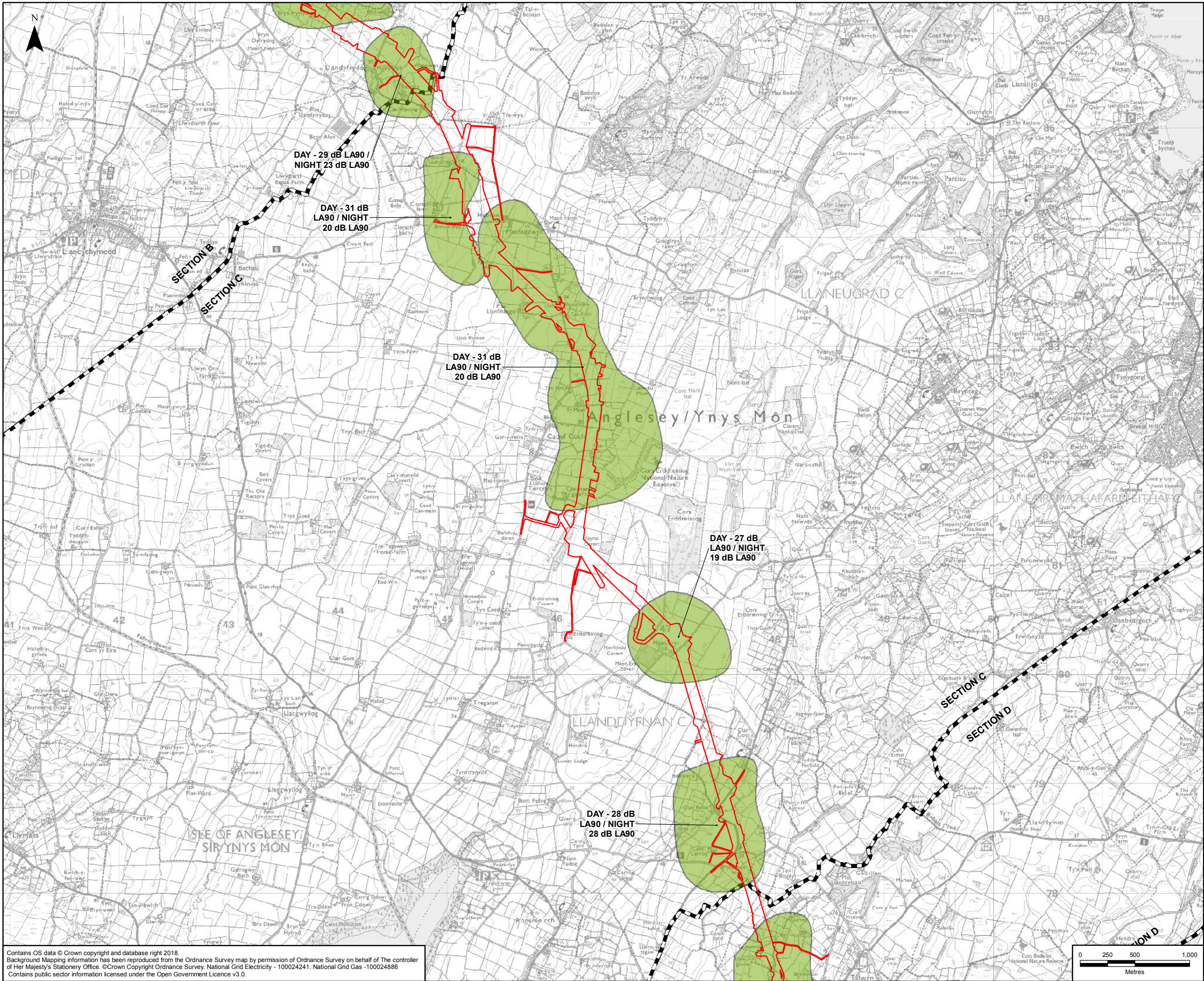
A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION B					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:20,000	Format: A3	Sheets: 2 of 6	Rev: A	

Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.



A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION C OPTION A					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:32,000	Format: A3	Sheets: 3 of 6 Option A	Rev: A	

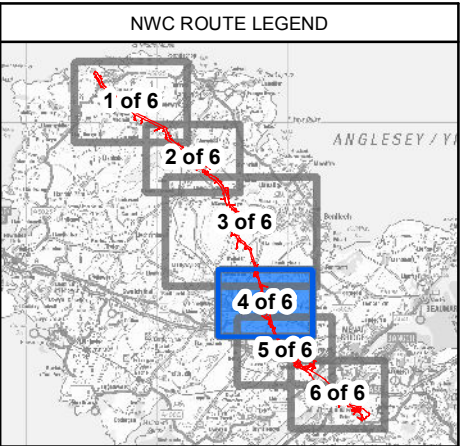
Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.



- LEGEND**
- ORDER LIMITS - OPTION B
 - SECTION COUTLINES
 - REPRESENTATIVE NOISE BASELINE AREA

A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION C OPTION B					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:32,000	Format: A3	Sheets: 3 of 6 Option B	Rev: A	

Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.

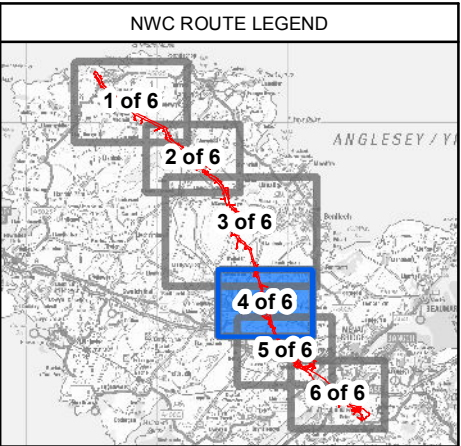


LEGEND

- ORDER LIMITS - OPTION A
- SECTION OUTLINES
- REPRESENTATIVE NOISE BASELINE AREA

A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION D OPTION A					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:20,000	Format: A3	Sheets: 4 of 6 Option A	Rev: A	

Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.

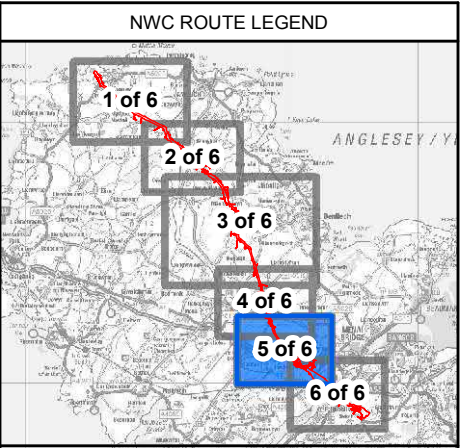
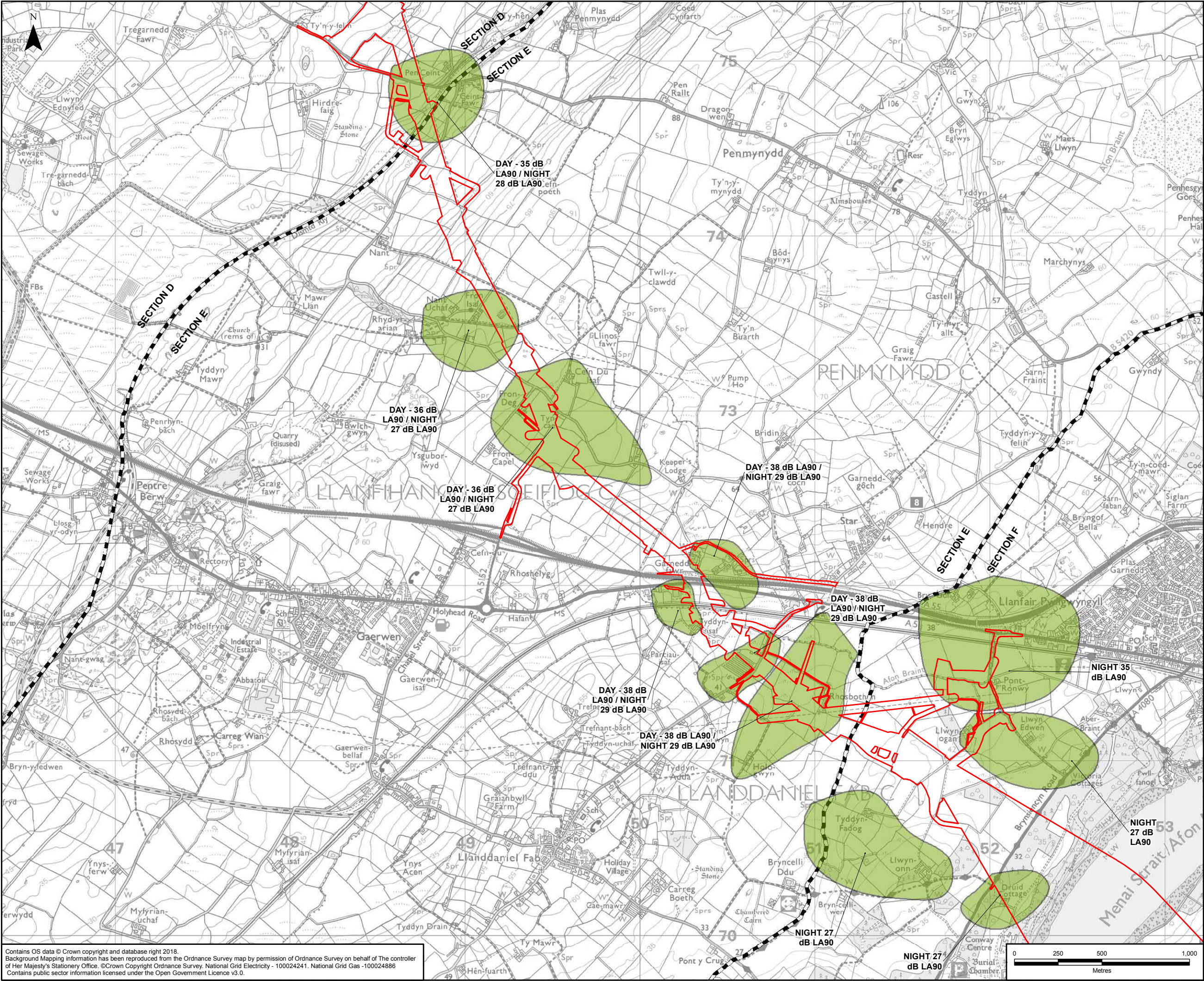


LEGEND

- ORDER LIMITS - OPTION B
- SECTION OUTLINES
- REPRESENTATIVE NOISE BASELINE AREA

A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION D OPTION B					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:20,000	Format: A3	Sheets: 4 of 6 Option B	Rev: A	

Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- REPRESENTATIVE NOISE BASELINE AREA

A	03/07/2018	ENVIRONMENTAL STATEMENT	JB	JB	RM
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.16.2.1					
Document Title: FIGURE 1 REPRESENTATIVE NOISE BASELINE AREAS SECTION E					
Creator: JB	Date: 03/07/2018	Checker: JB	Date: 03/07/2018	Approver: RM	Date: 03/07/2018
Document Type: FIGURE	Scale: 1:20,000	Format: A3	Sheets: 5 of 6	Rev: A	

Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. © Crown Copyright Ordnance Survey, National Grid Electricity - 100024241, National Grid Gas - 100024886
Contains public sector information licensed under the Open Government Licence v3.0.

