

LEGEND

- Proposed Development Site Boundary
- ⊗ M74 West Turbines
- 🏠 Noise Assessment Locations (NALs)

Cumulative Wind Farms

- ⊗ Andershaw
- ⊗ Bodinglee
- ⊗ Broken Cross
- ⊗ Clyde
- ⊗ Clyde Extension
- ⊗ Dalquhandy
- ⊗ Douglas West
- ⊗ Douglas West Extension
- ⊗ Galawhistle
- ⊗ Hagshaw Hill Extension
- ⊗ Hagshaw Repowering
- ⊗ Little Gala
- ⊗ Middle Muir
- ⊗ Priestgill

0	17/07/2024	FIRST ISSUE	TS	GC	
Rev.	Date	Amendment Details	Drawn	Approved	

Contains OS data © Crown Copyright and database right 2022

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which TNEI Services Ltd was commissioned. TNEI Services Ltd accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall indemnify TNEI Services Ltd for all loss or damage arising therefrom.

Client:

Drawing Status:

FOR PLANNING

Project Title:

M74 WEST RENEWABLE ENERGY PARK

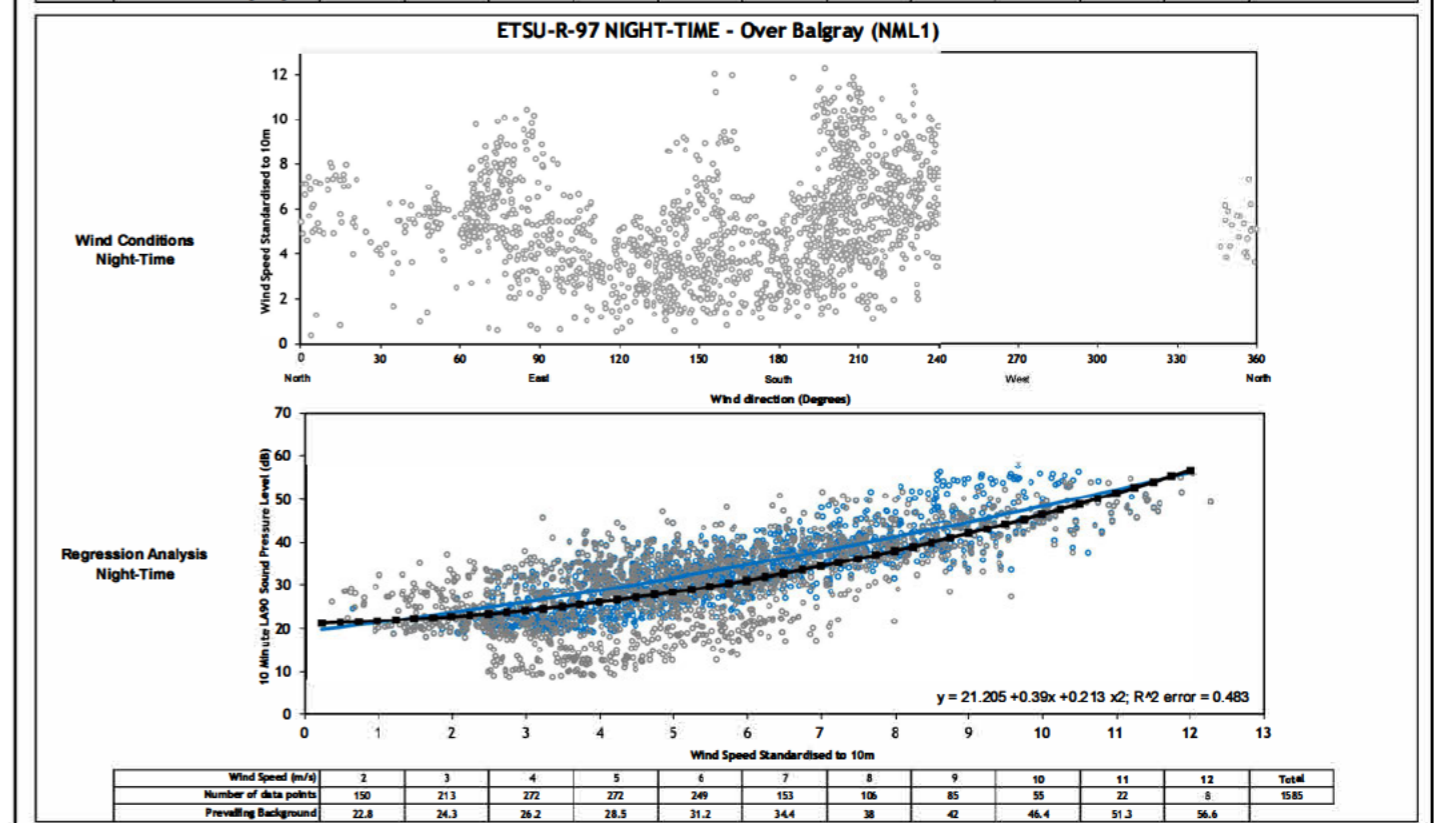
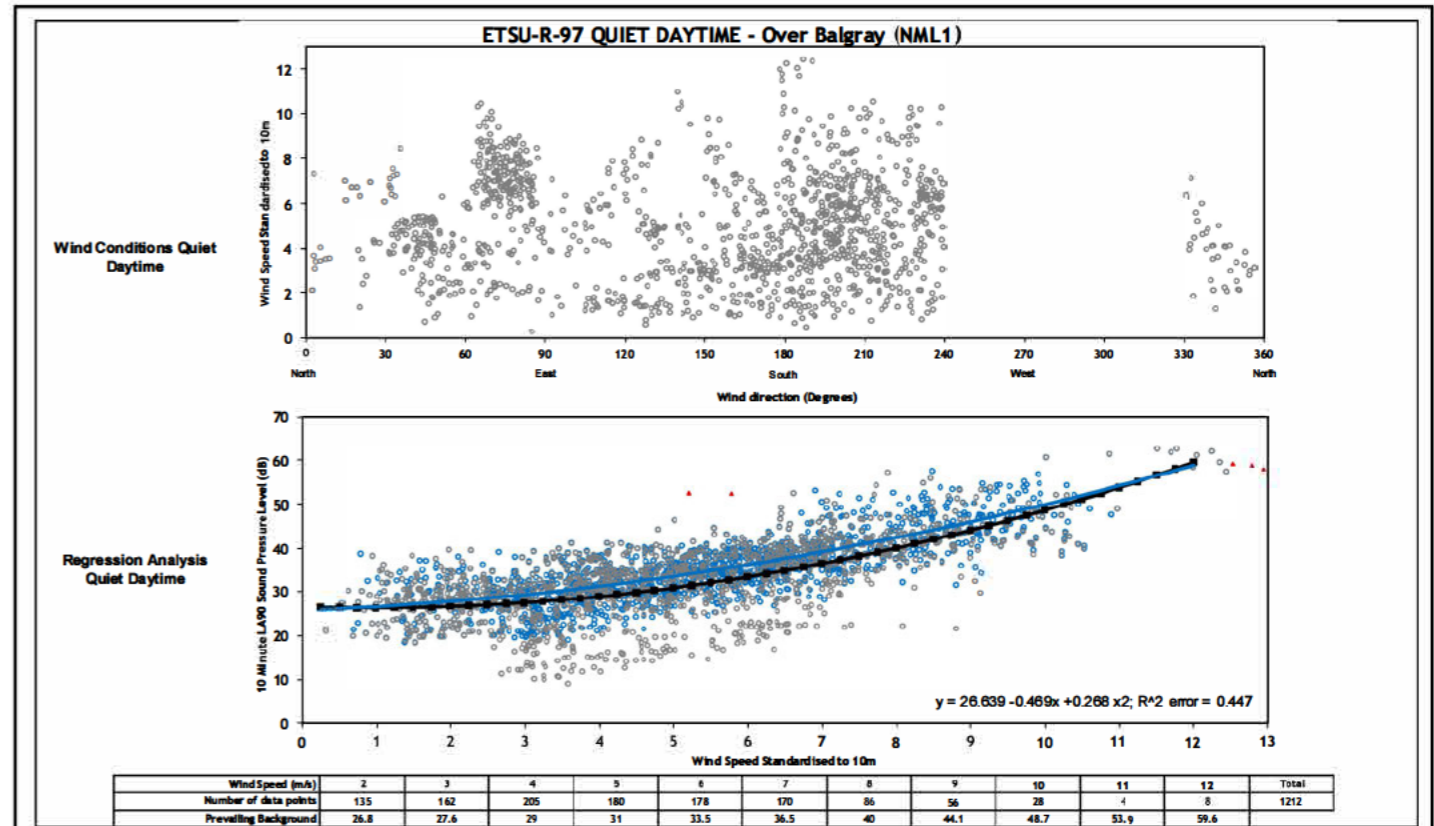
Drawing Title:

FIGURE A1.2 - CUMULATIVE TURBINE LOCATIONS

Scale:	Original Size:	Spatial Reference:
1:100,000	A3	British National Grid

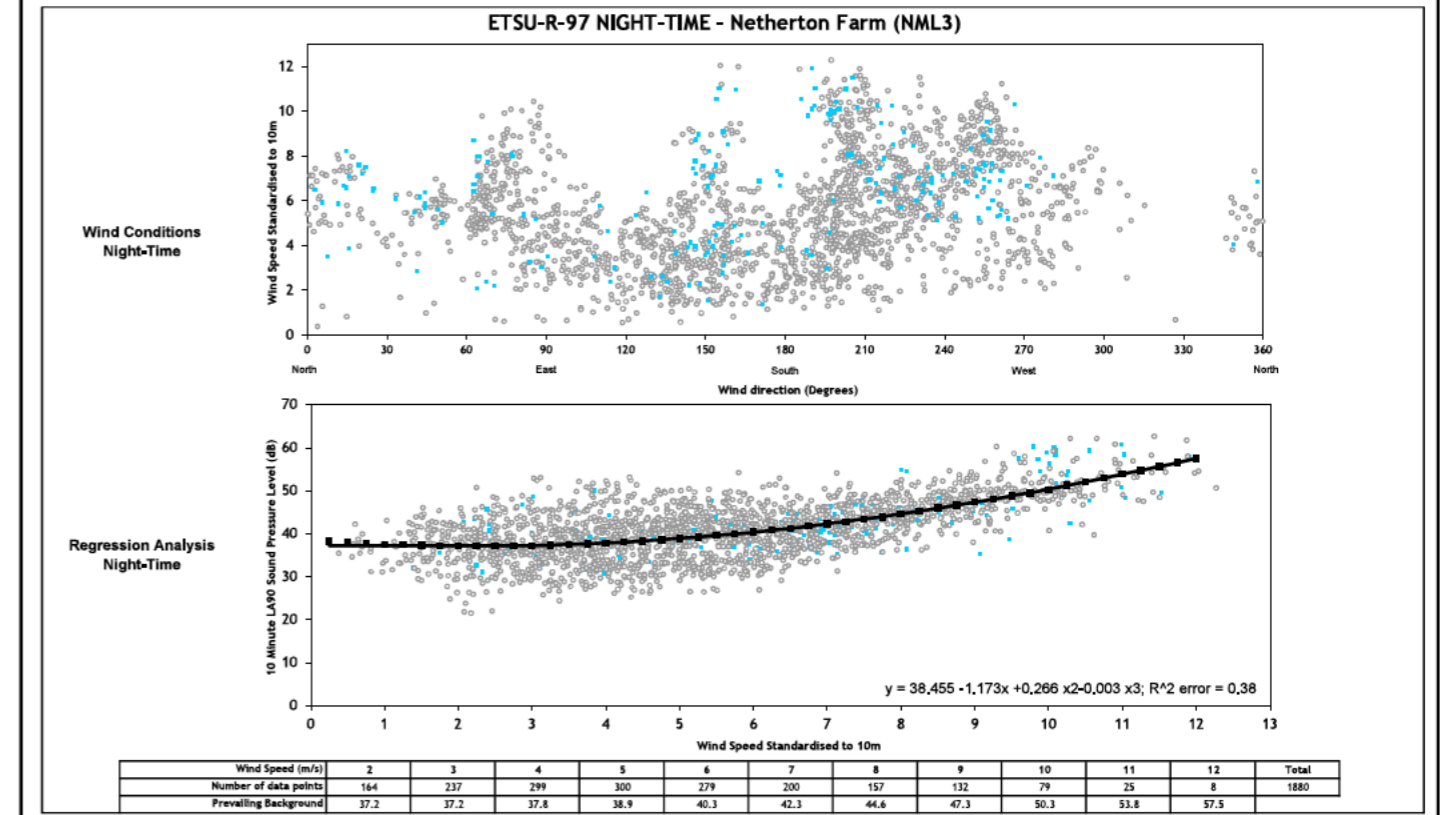
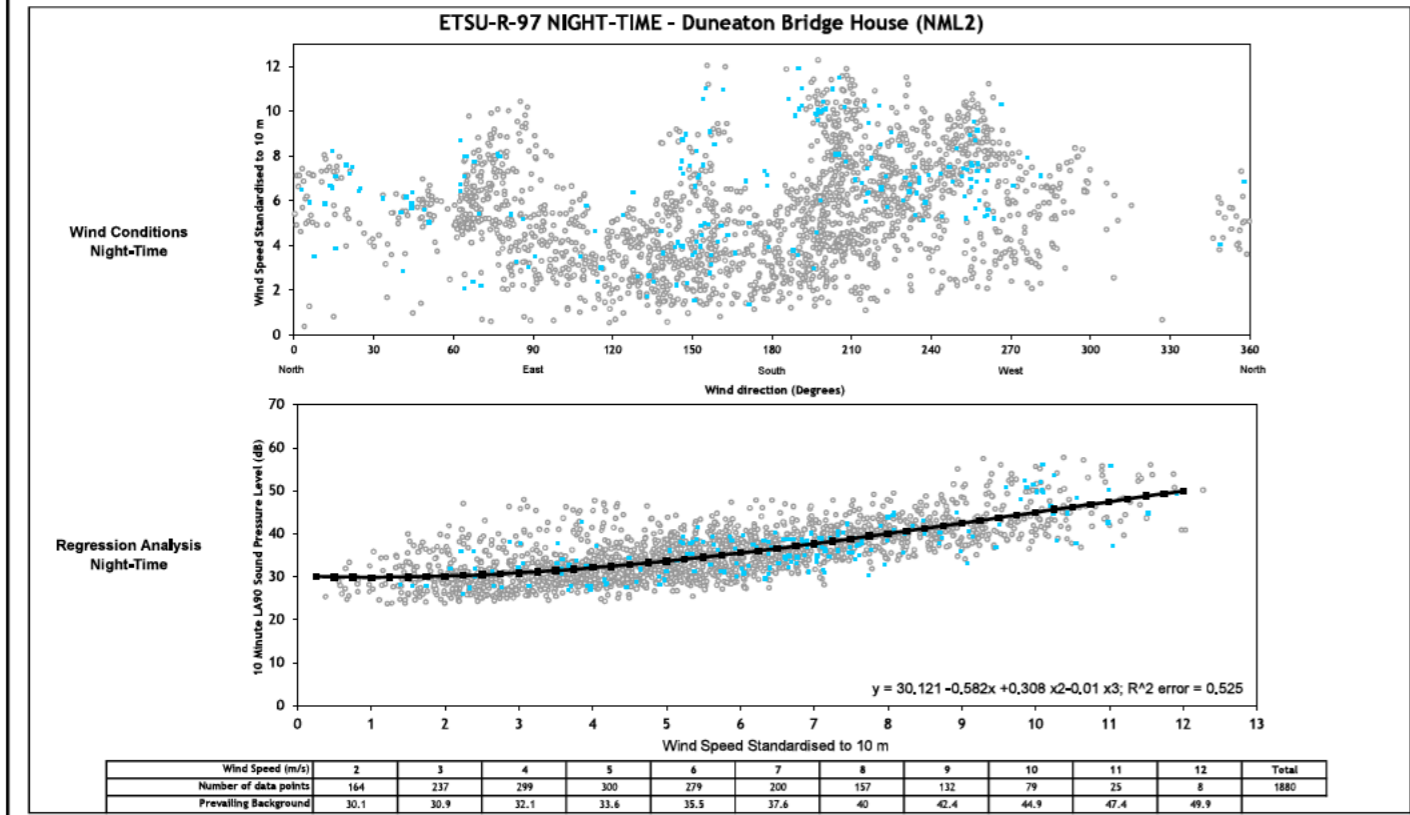
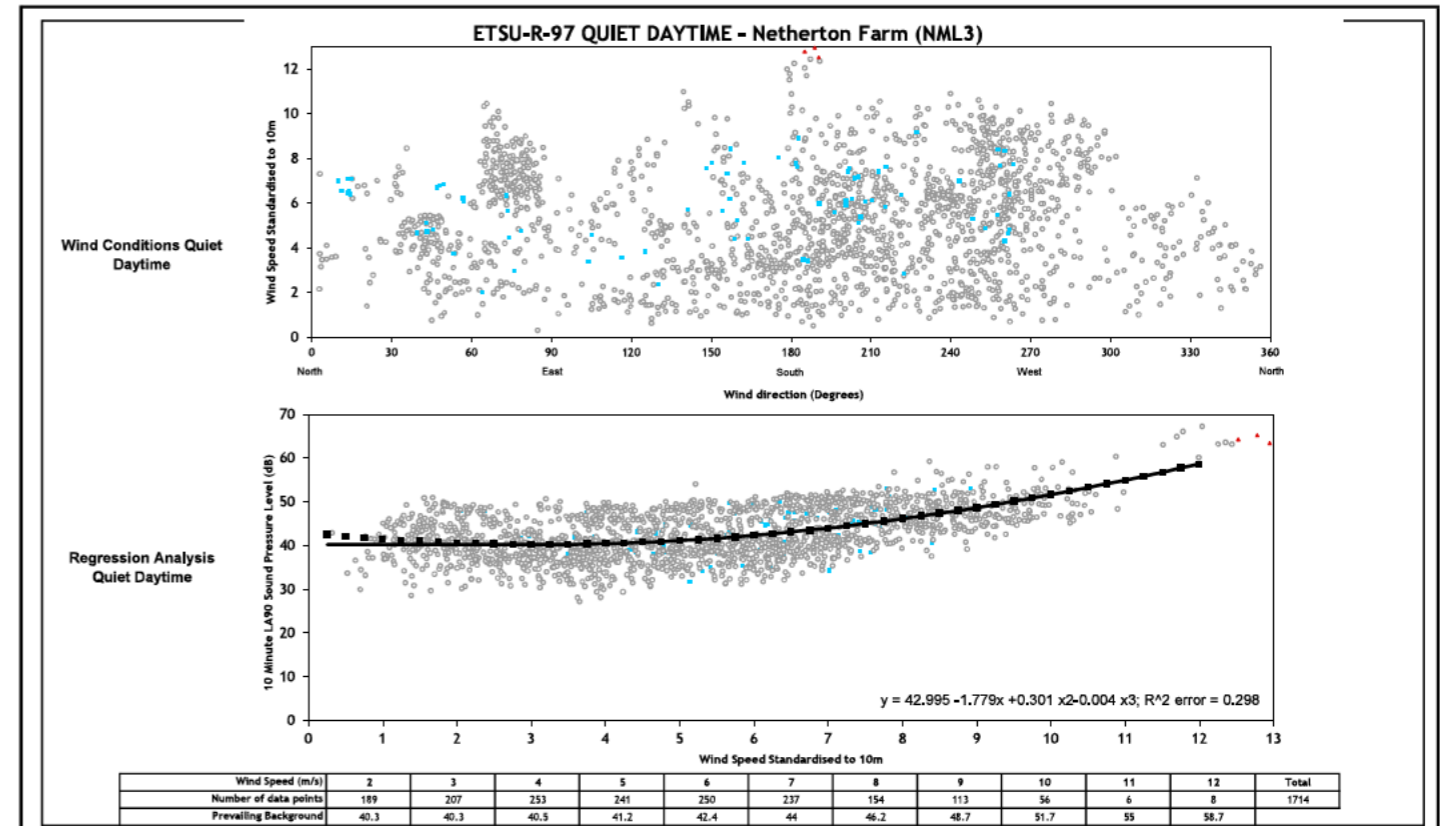
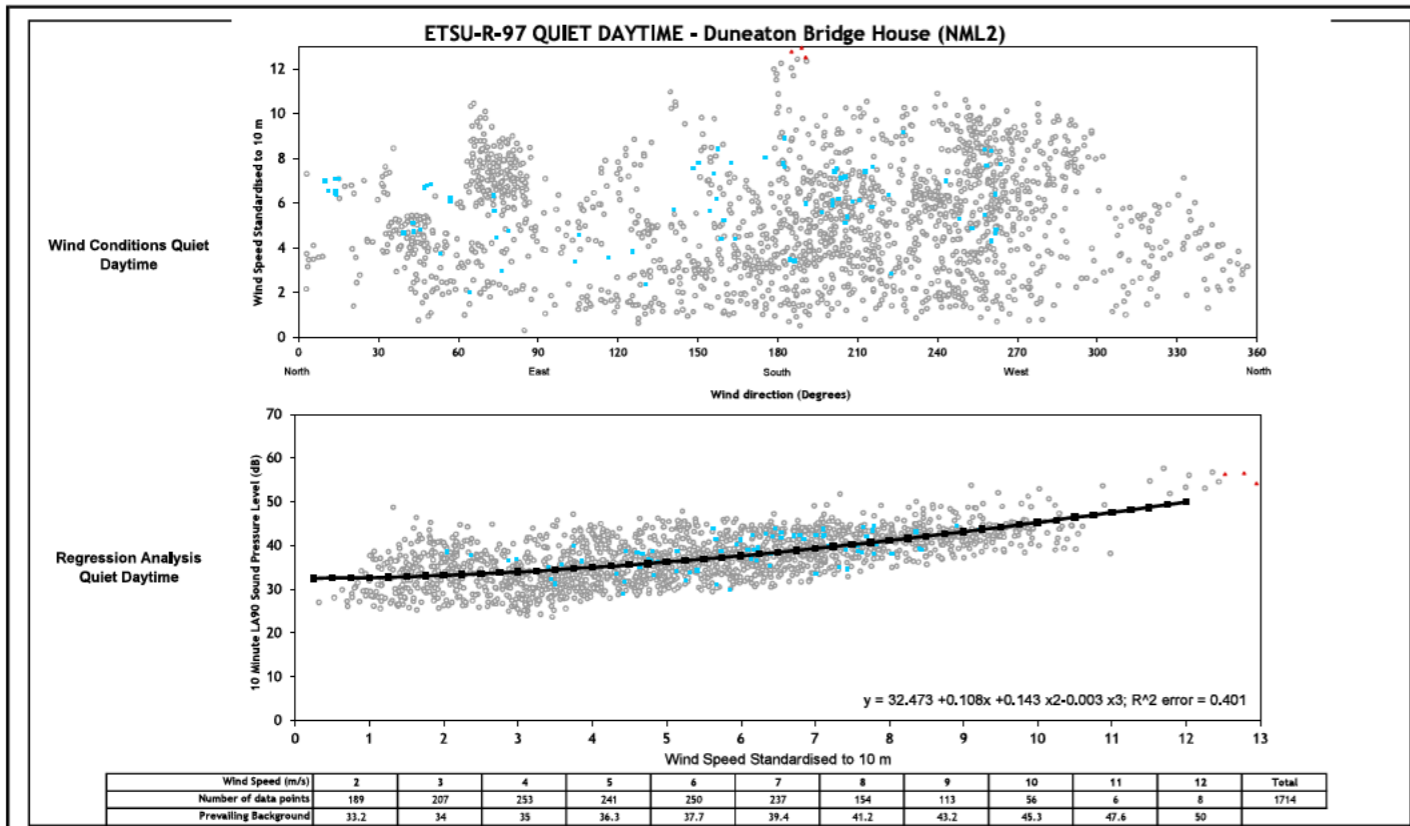
Drawing Number:

15990-010



Legend: 	Project M74 West Renewable Energy Park Client M74 West Limited Title Wind Conditions & Regression Analysis Calculated Background Noise and Total Noise Comparison (NML1)	
	Figure Number A1.3a Drawn TS Checked MT Date 28/06/2024 Document Reference 15990-models	



*Please note the analysis for this NML is different to other NMLs due to the presence of Middle Muir Wind Farm to the west. Please see Sections 5.4.8 5.4.11 of the report for further information. Excluded datapoints, such as those during periods of rainfall or which have been manually excluded, have been omitted from these plots for clarity. Please refer to Figures A1.4a-e.



Legend:

- L_{eq} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- ▲ Excluded Data-Manual exclusion
- Excluded Data-Rain
- ✗ Excluded Data-Filtered Wind Direction



Project	M74 West Renewable Energy Park
Client	M74 West Limited
Title	Wind Conditions & Regression Analysis
Figure Number	A1.3b
Drawn	TS
Checked	MT
Date	26/06/2024
Document Reference	15990-models

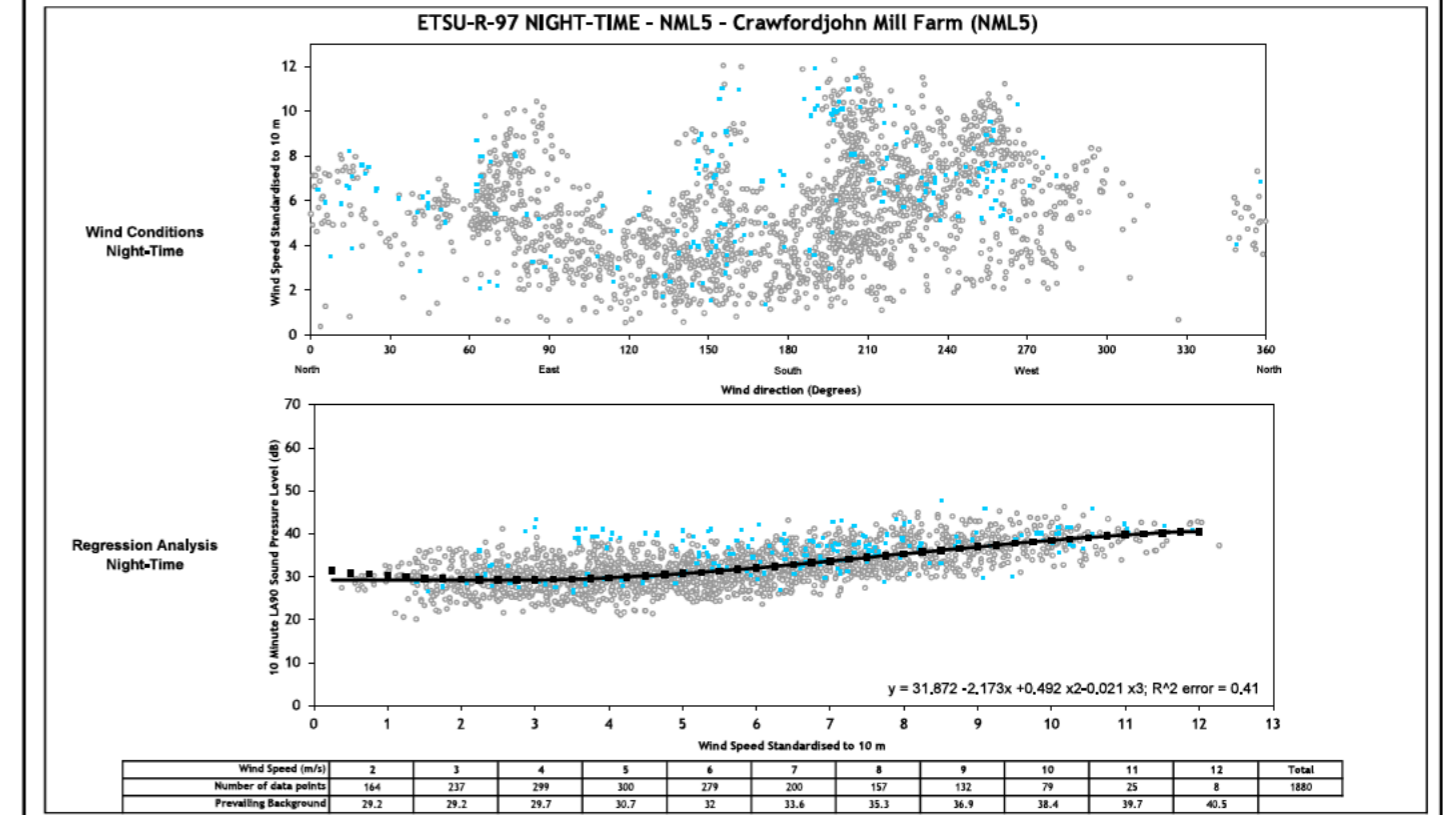
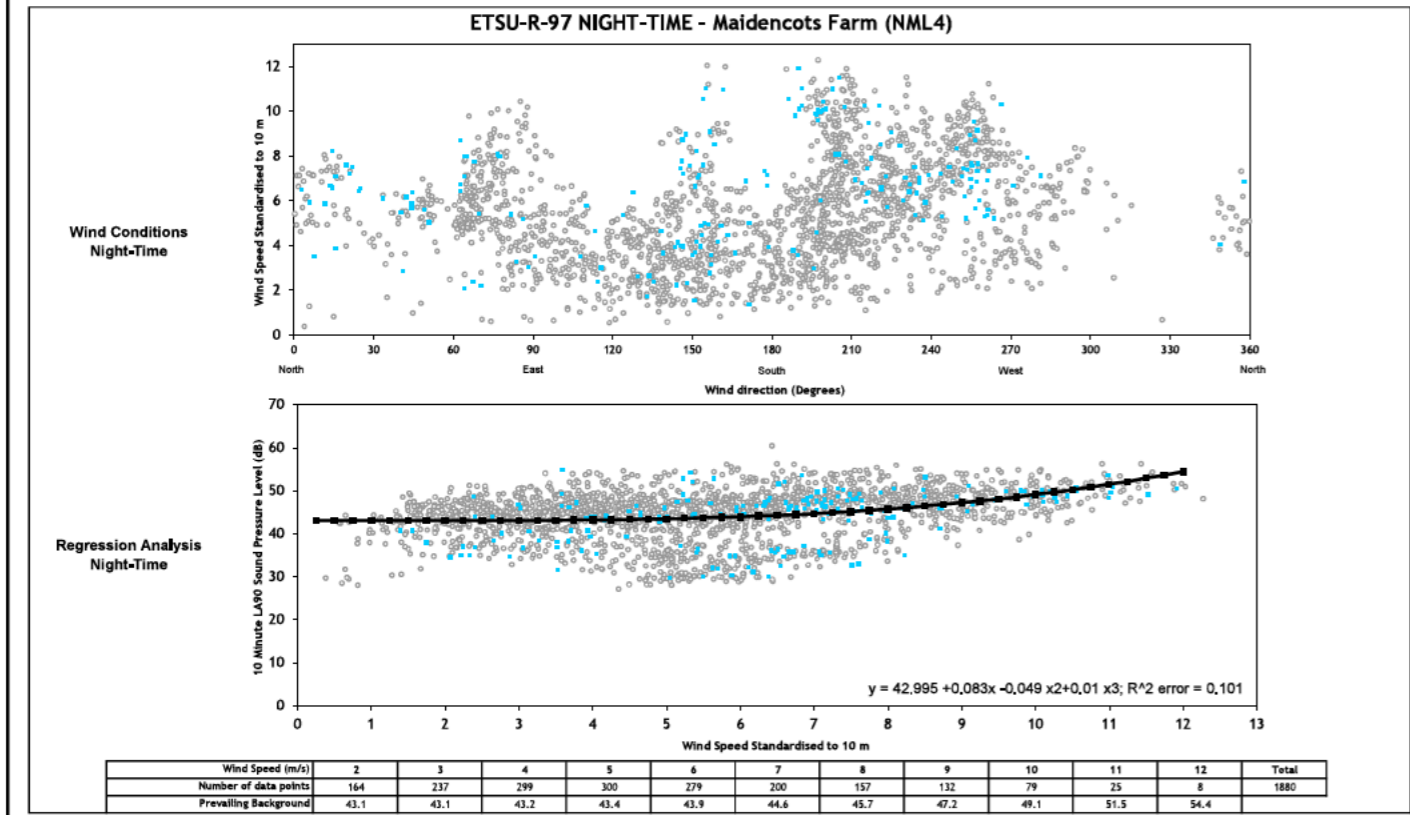
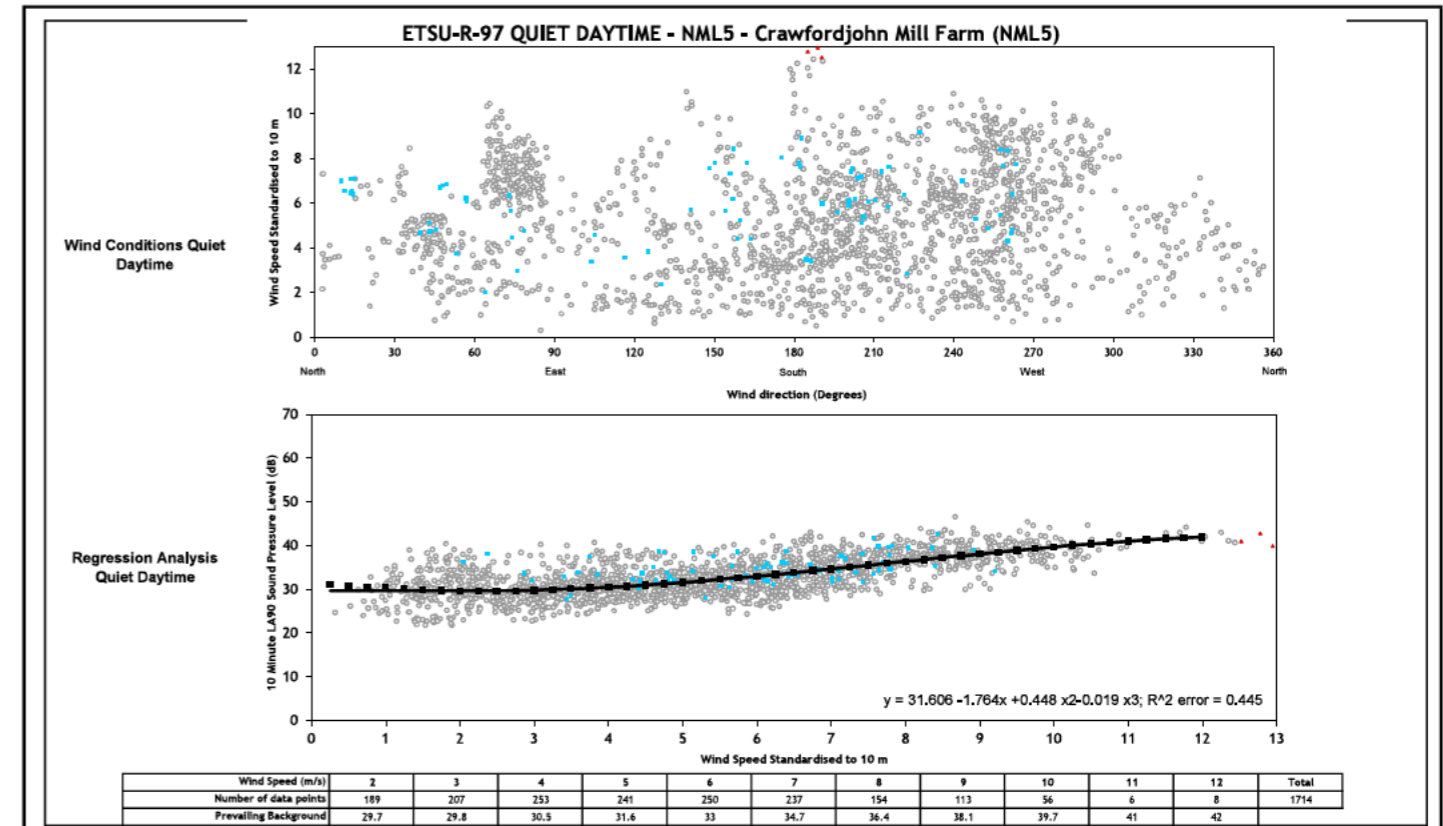
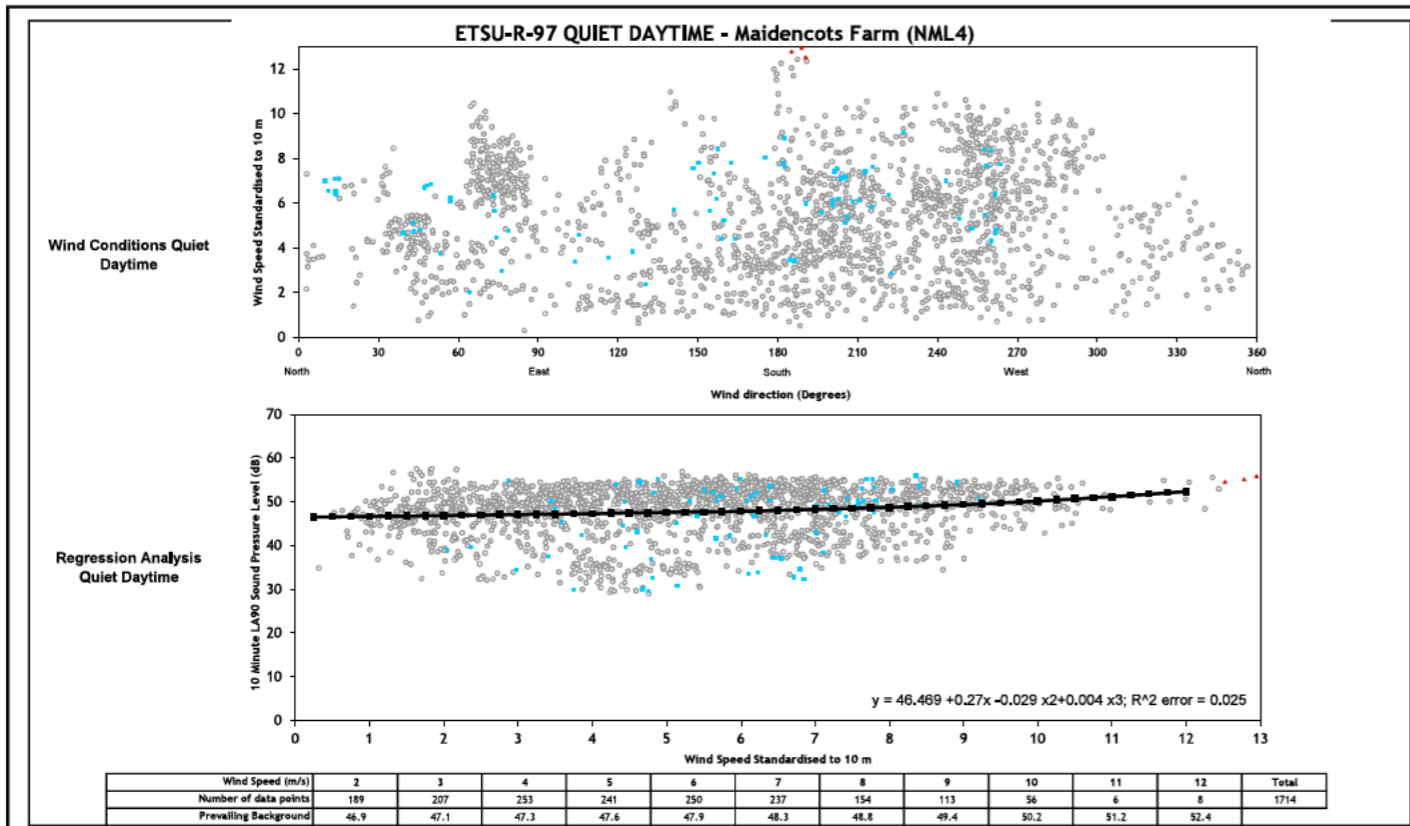



Legend:

- L_{eq} 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate(Prevailing Background)
- ▲ Excluded Data-Manual exclusion
- Excluded Data-Rain
- ✗ Excluded Data-Filtered Wind Direction

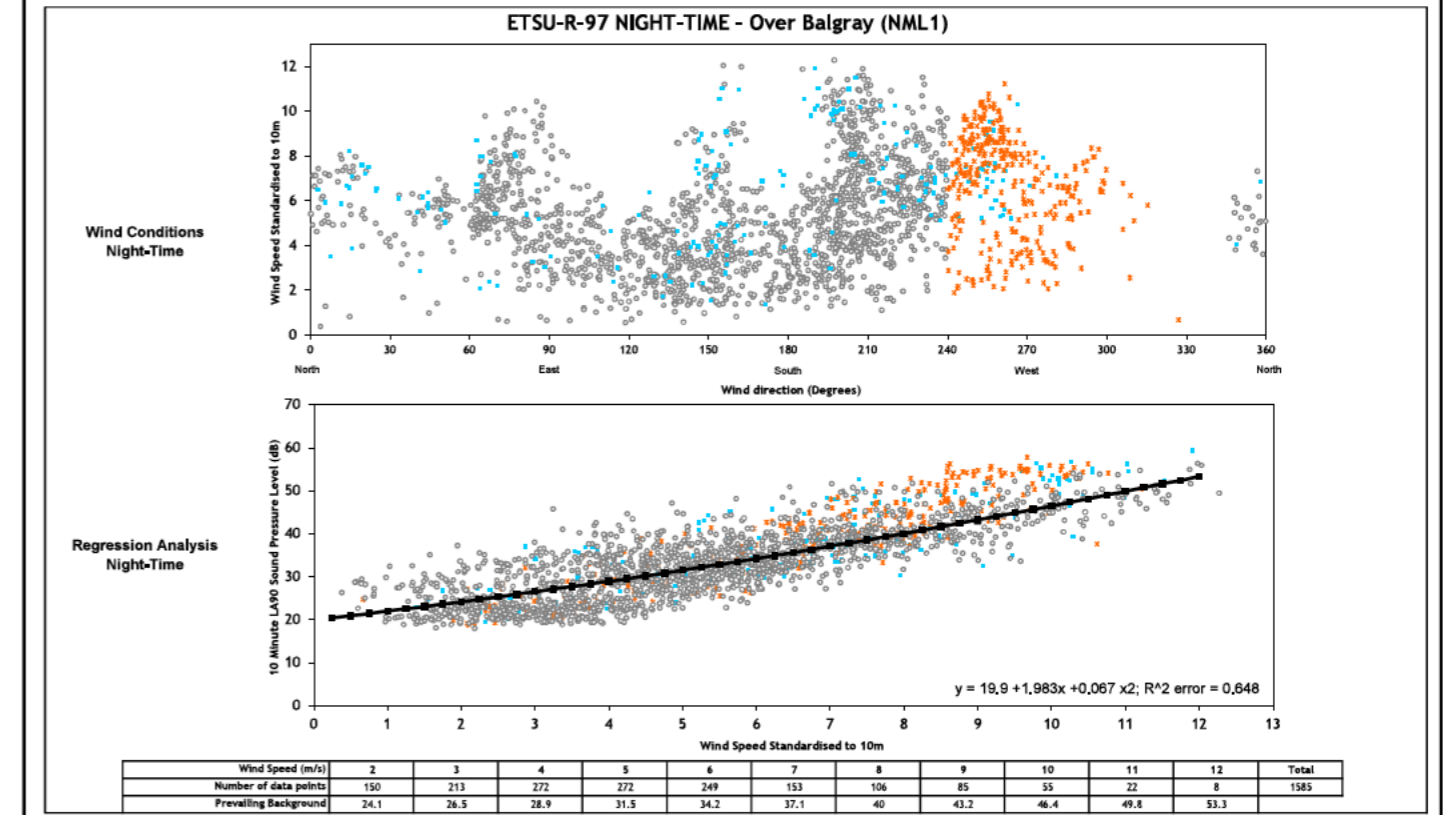
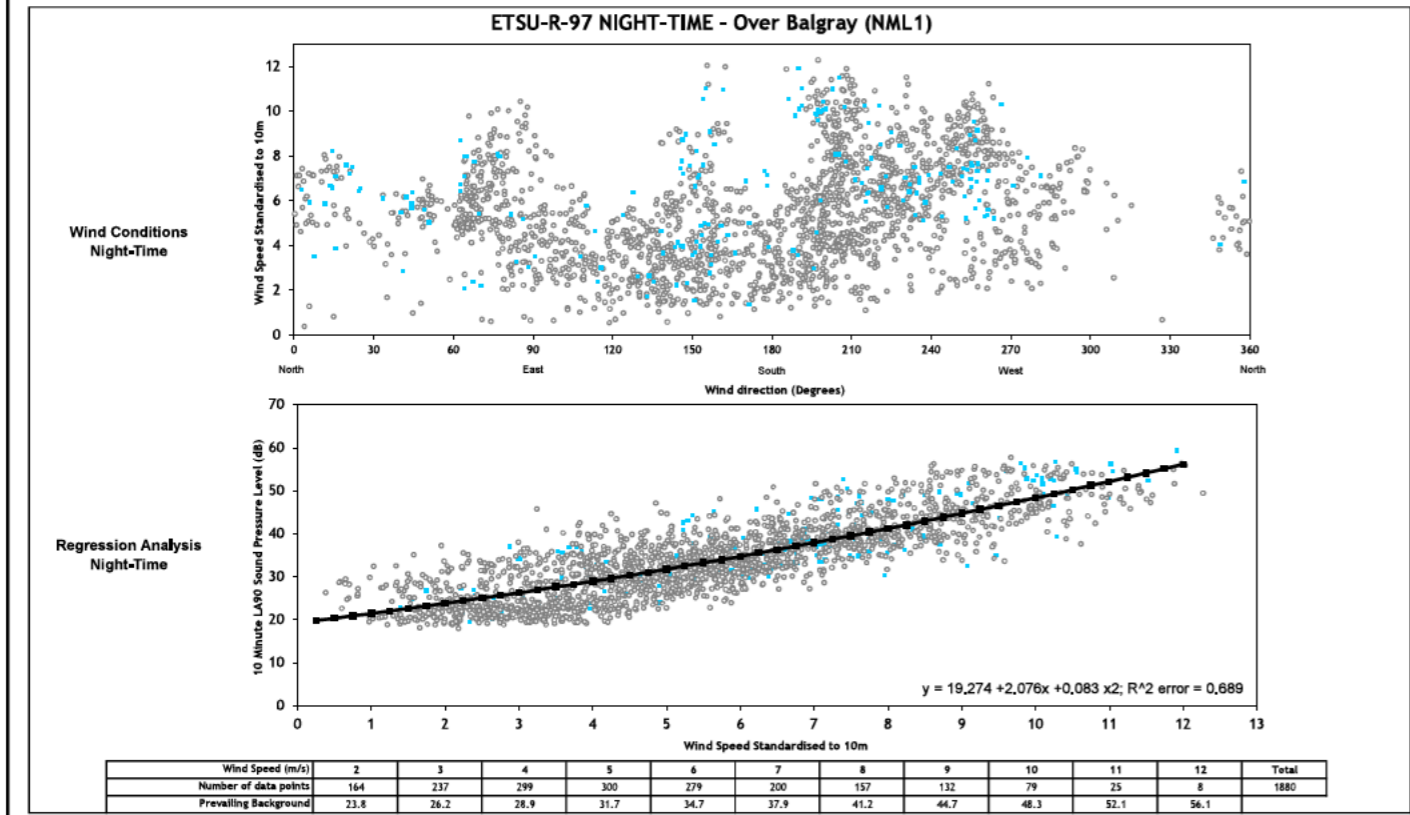
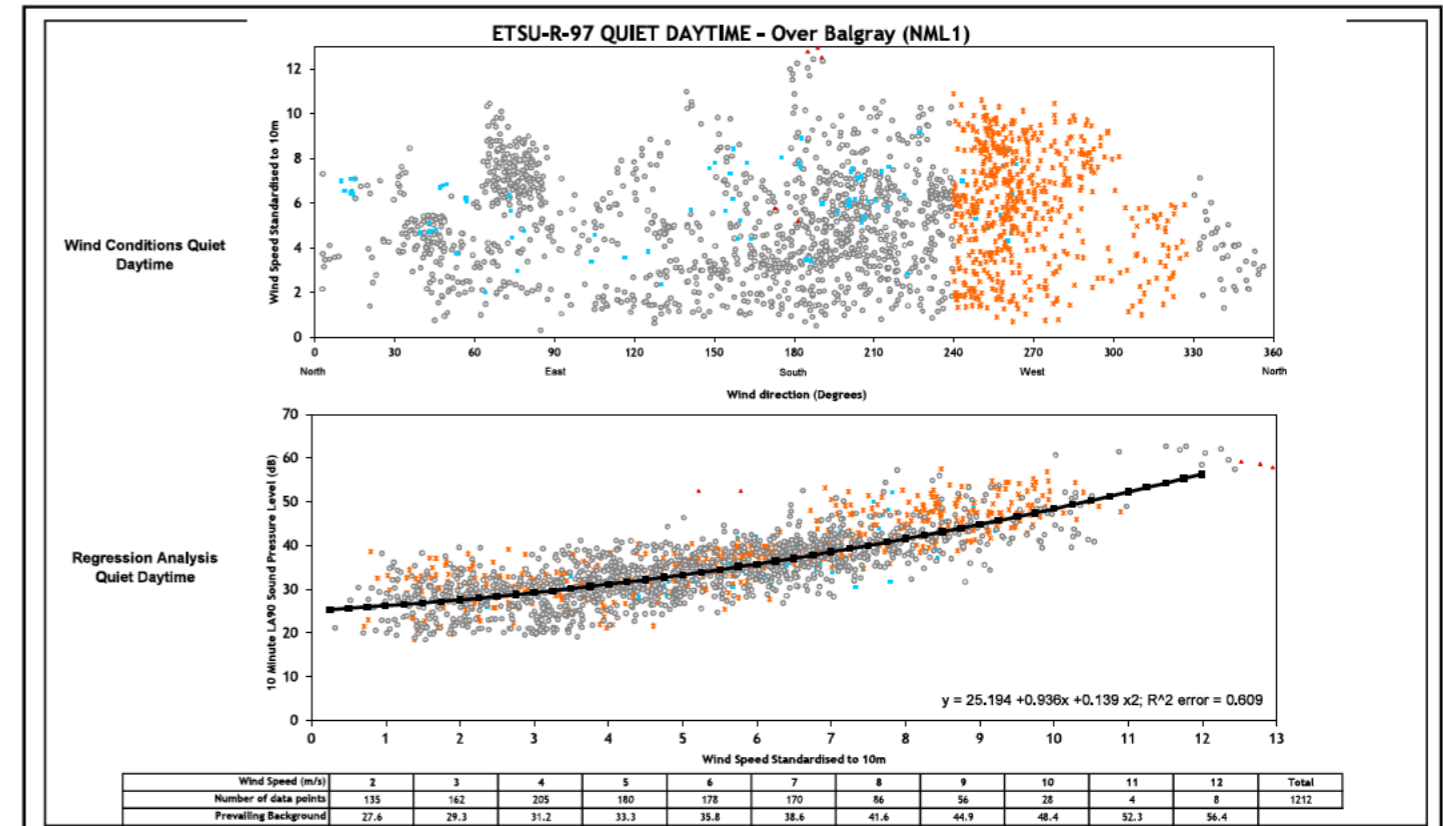
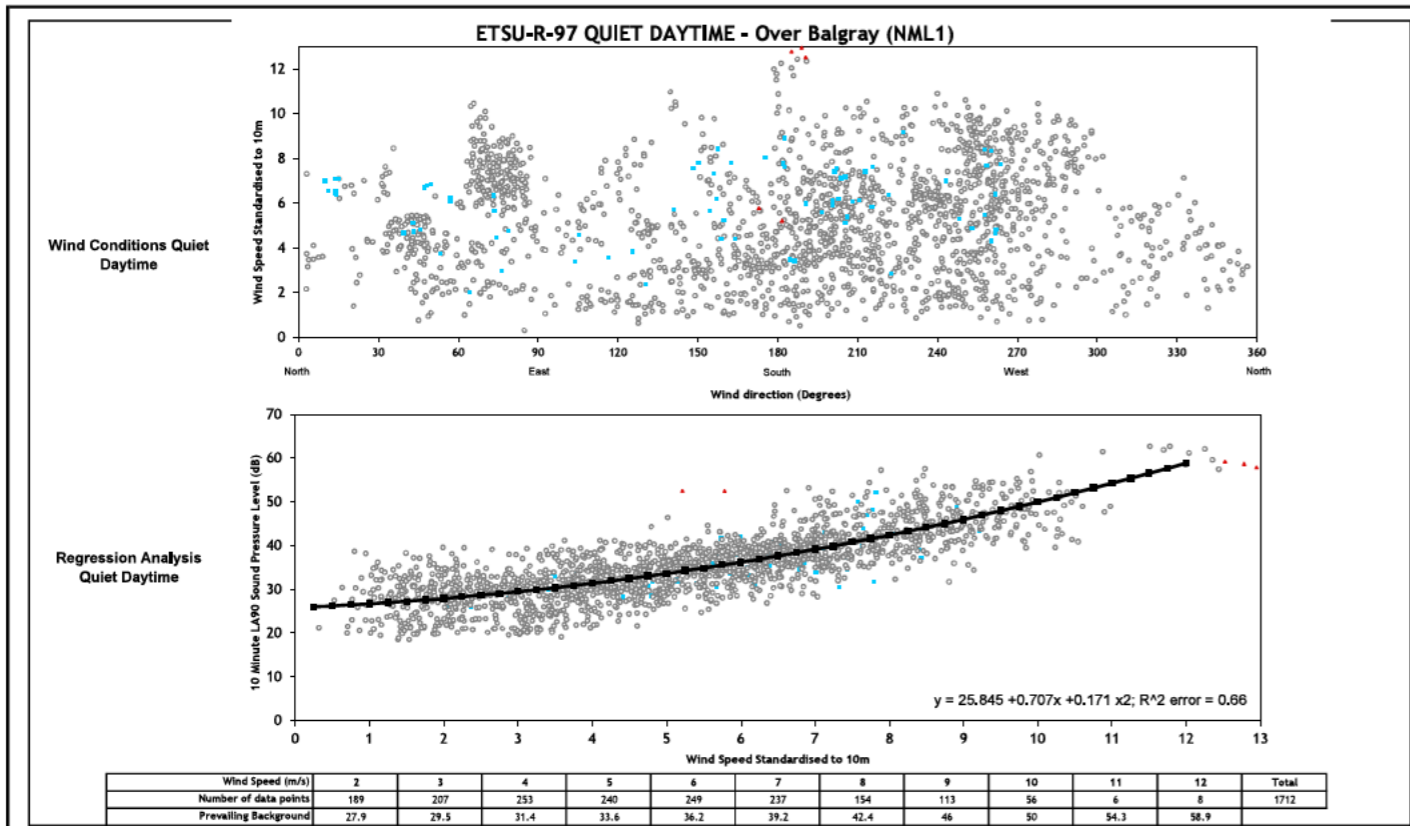
Project	M74 West Renewable Energy Park
Client	M74 West Limited
Title	Wind Conditions & Regression Analysis
Figure Number	A1.3c
Drawn	TS
Checked	MT
Date	26/06/2024
Document Reference	15990-models



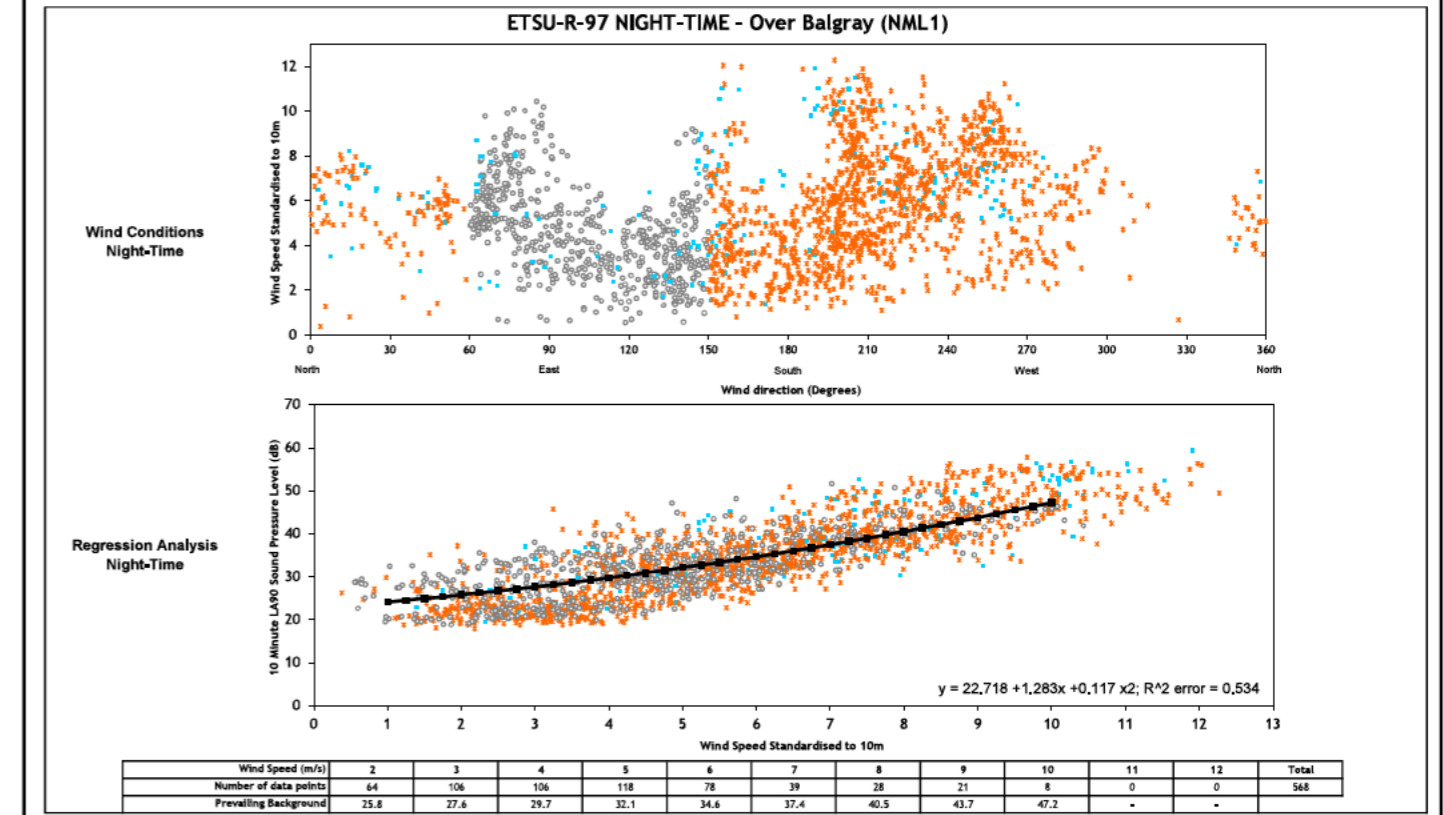
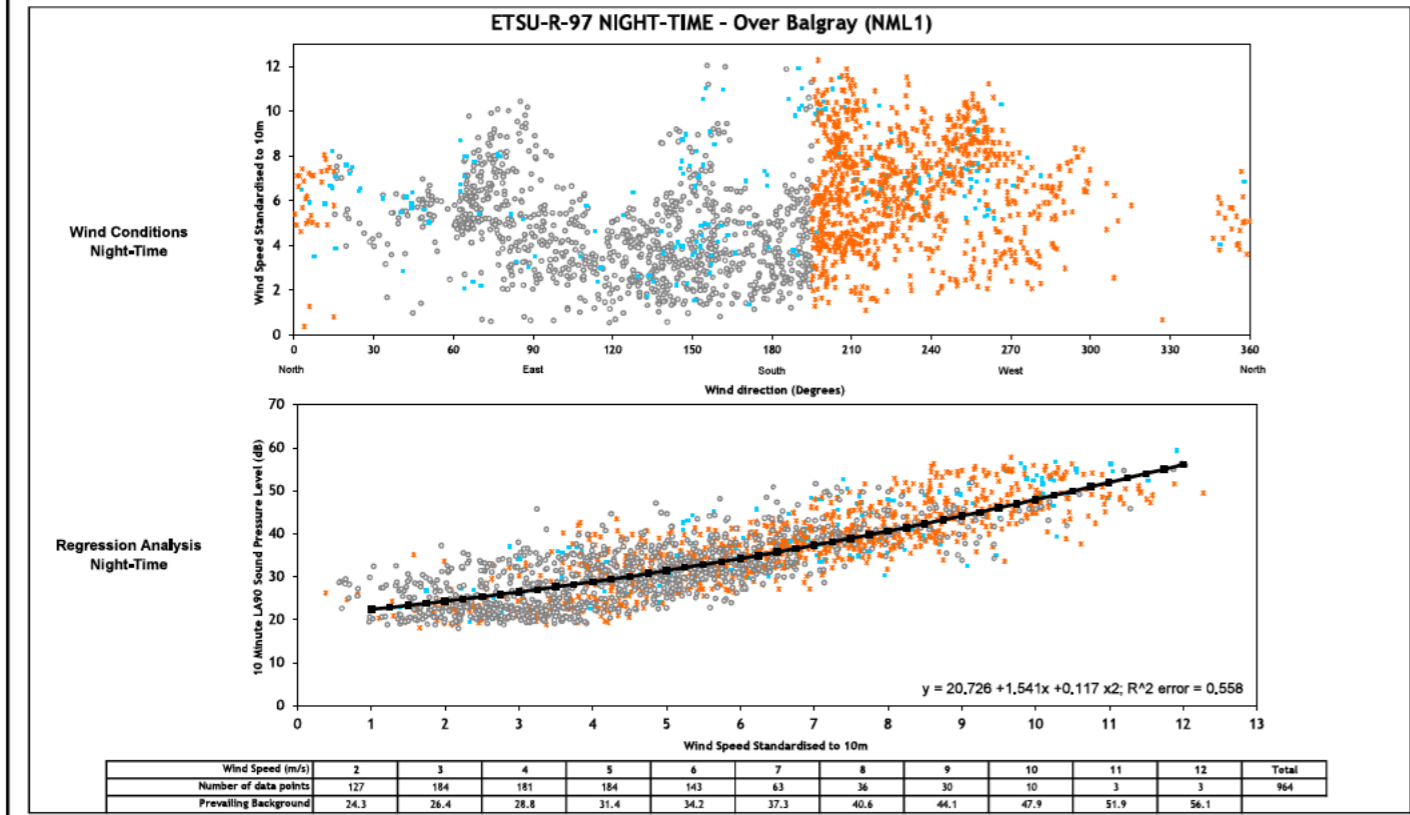
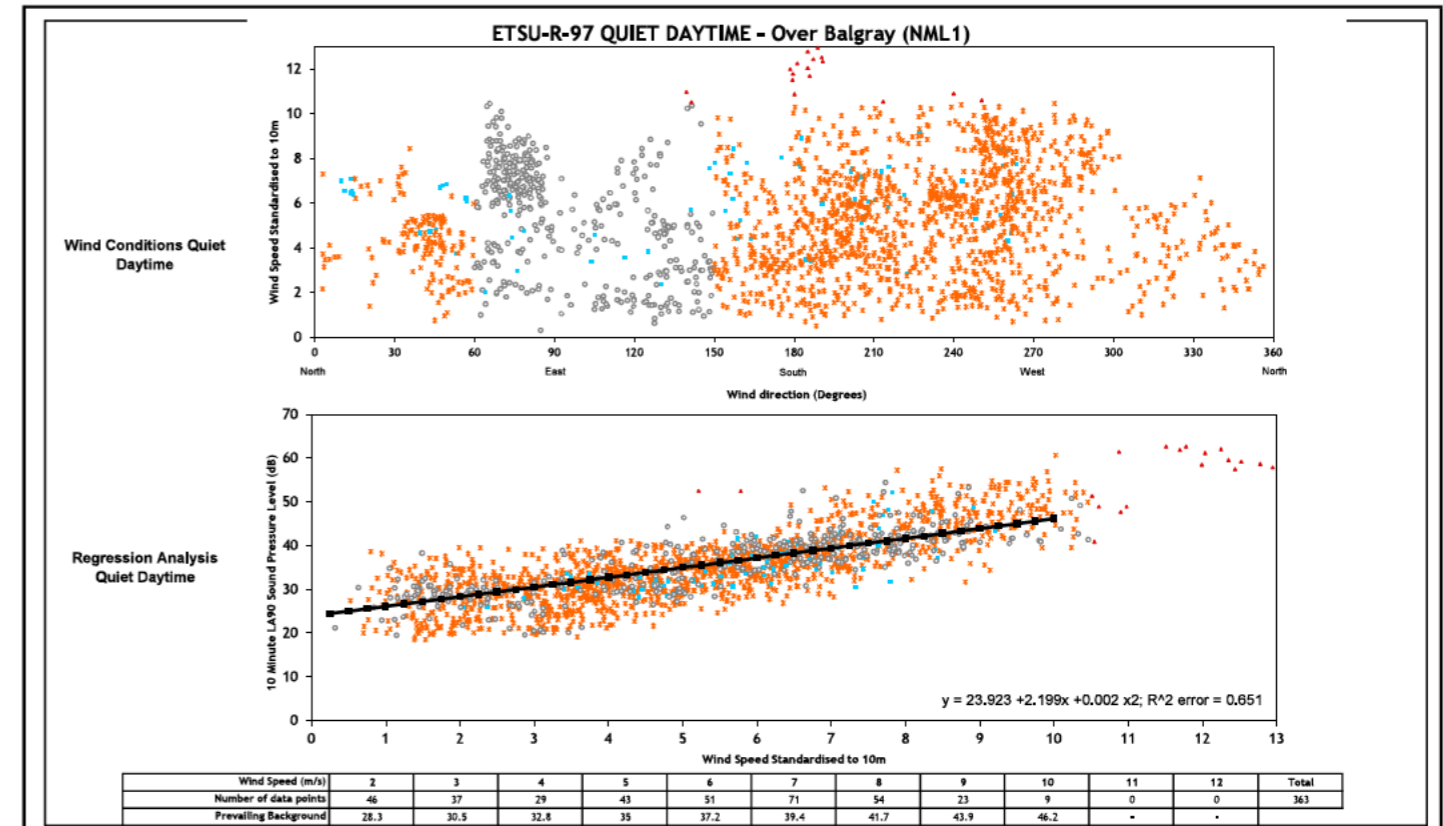
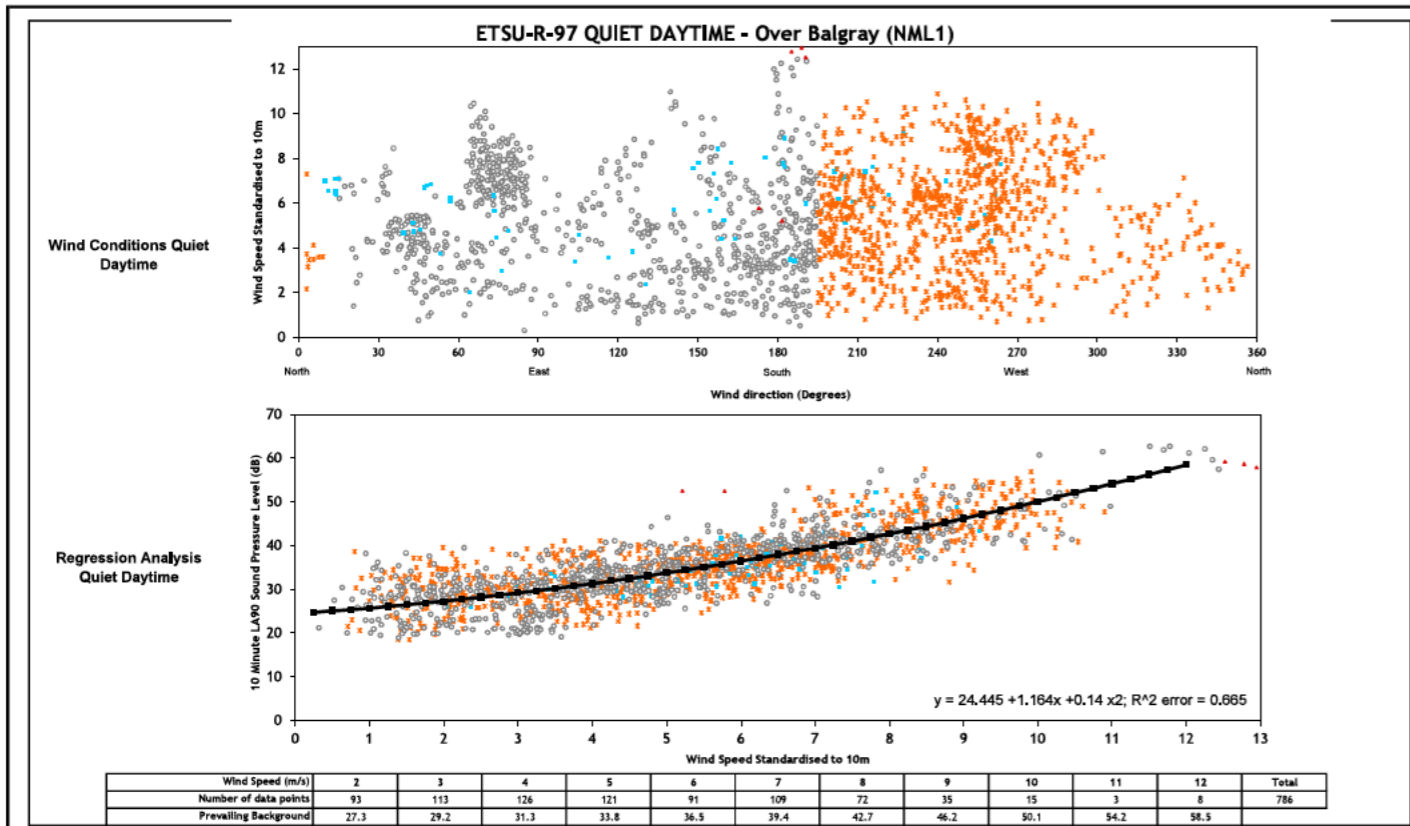
Legend: 	Project	M74 West Renewable Energy Park	
	Client	M74 West Limited	
	Title	Wind Conditions & Regression Analysis	
	Figure Number	A1.3d	
	Drawn	TS	
	Checked	MT	
Date	01/03/2024		
Document Reference	15990-models		

Legend: 	Project	M74 West Renewable Energy Park	
	Client	M74 West Limited	
	Title	Wind Conditions & Regression Analysis	
	Figure Number	A1.3c	
	Drawn	TS	
	Checked	MT	
Date	26/06/2024		
Document Reference	15990-models		



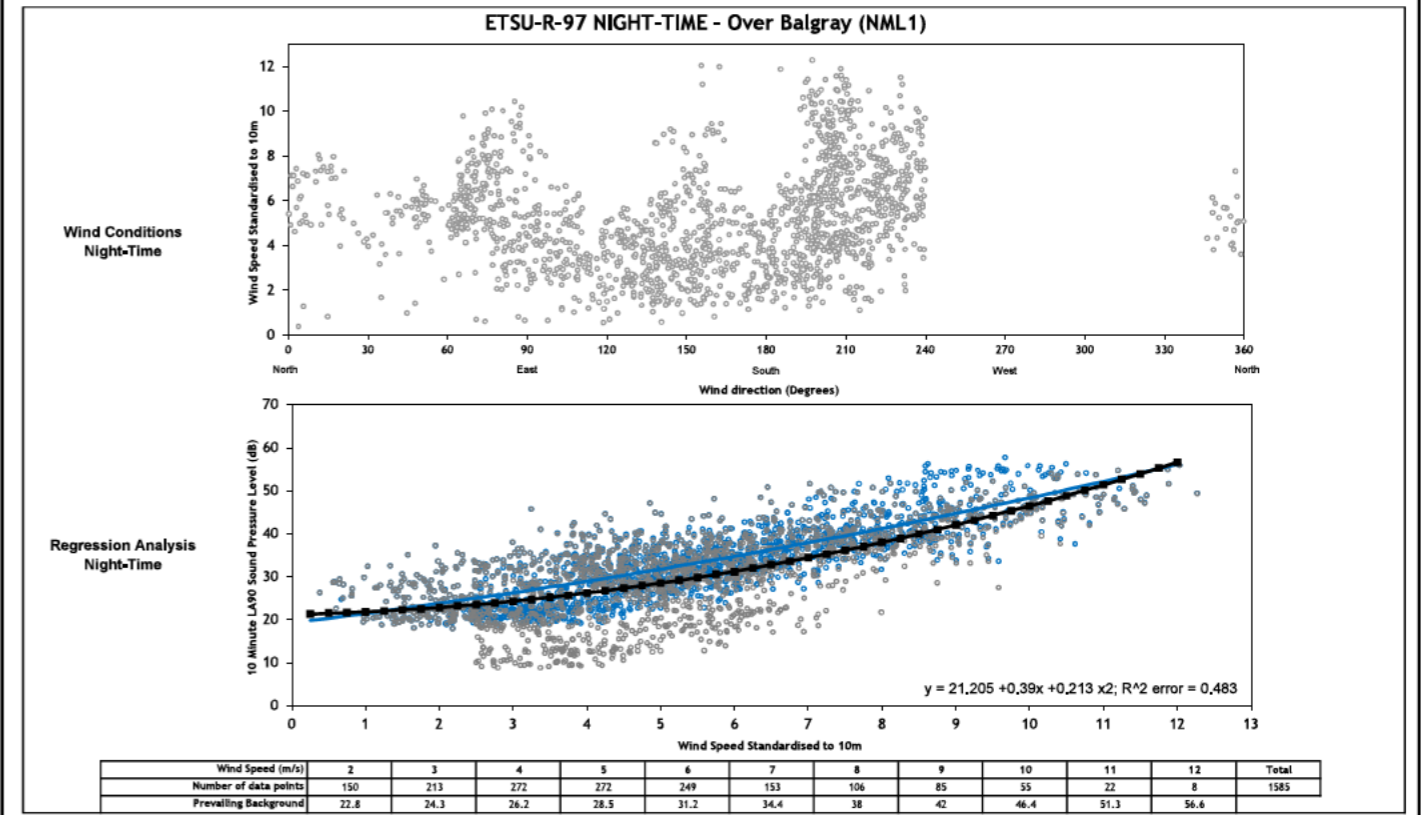
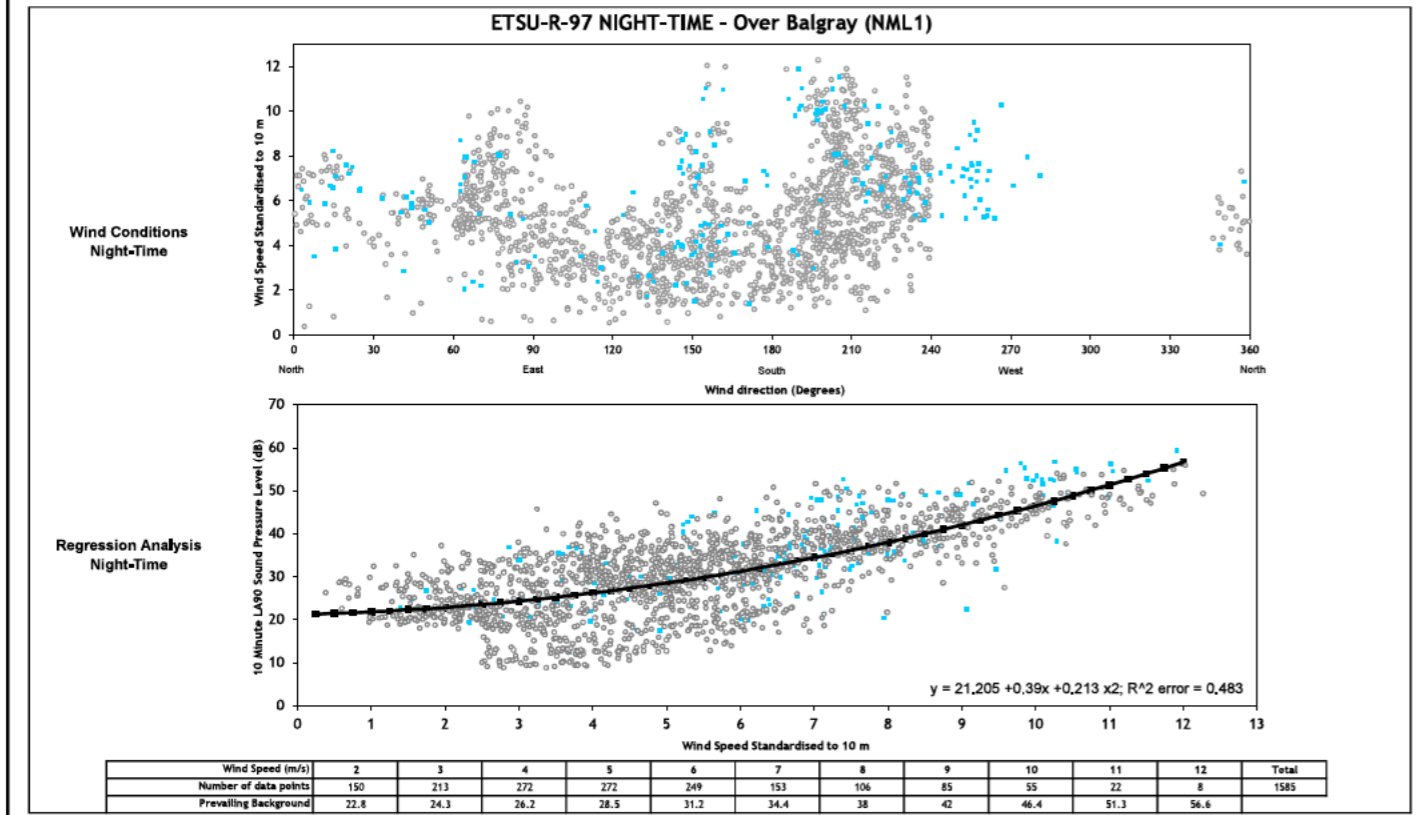
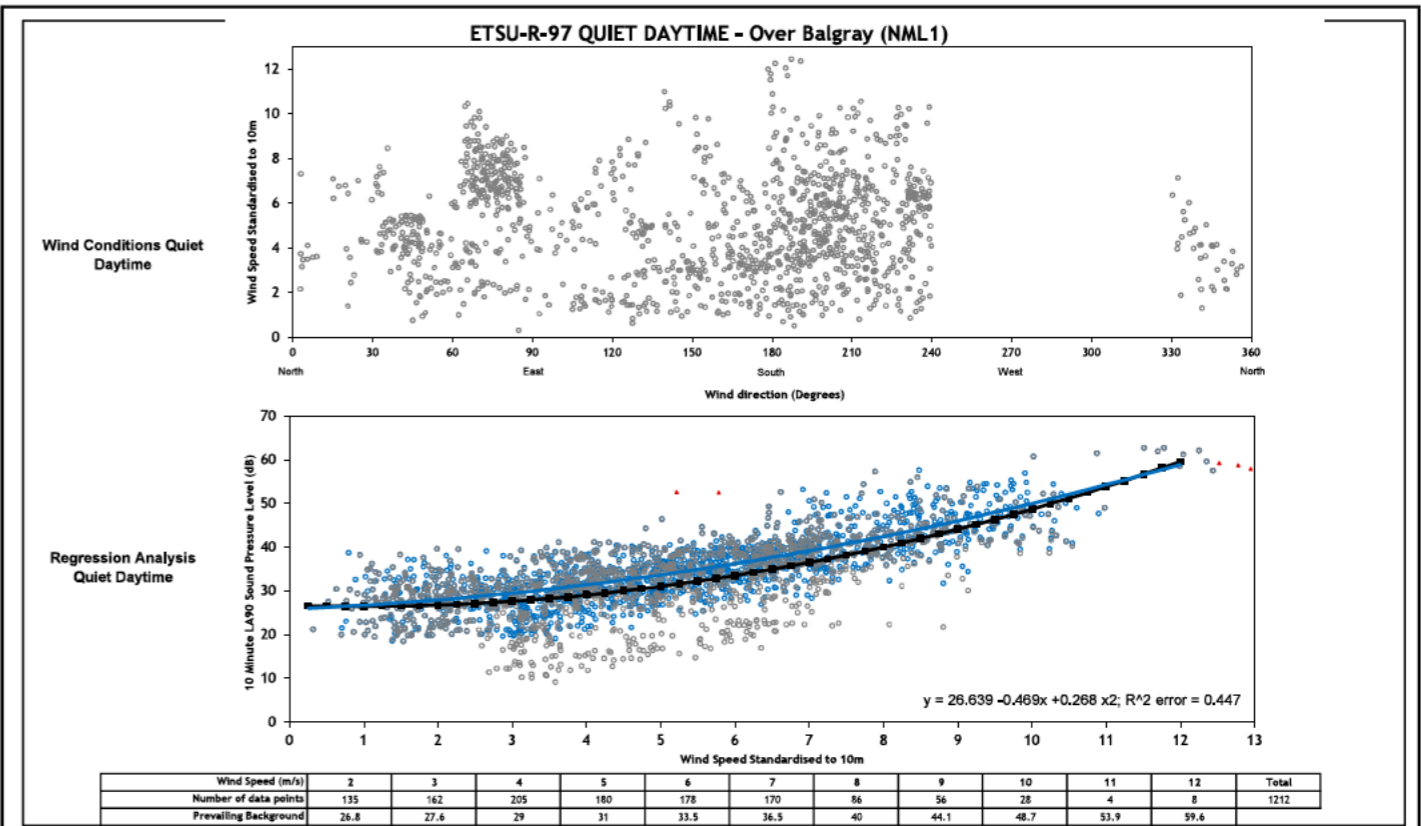
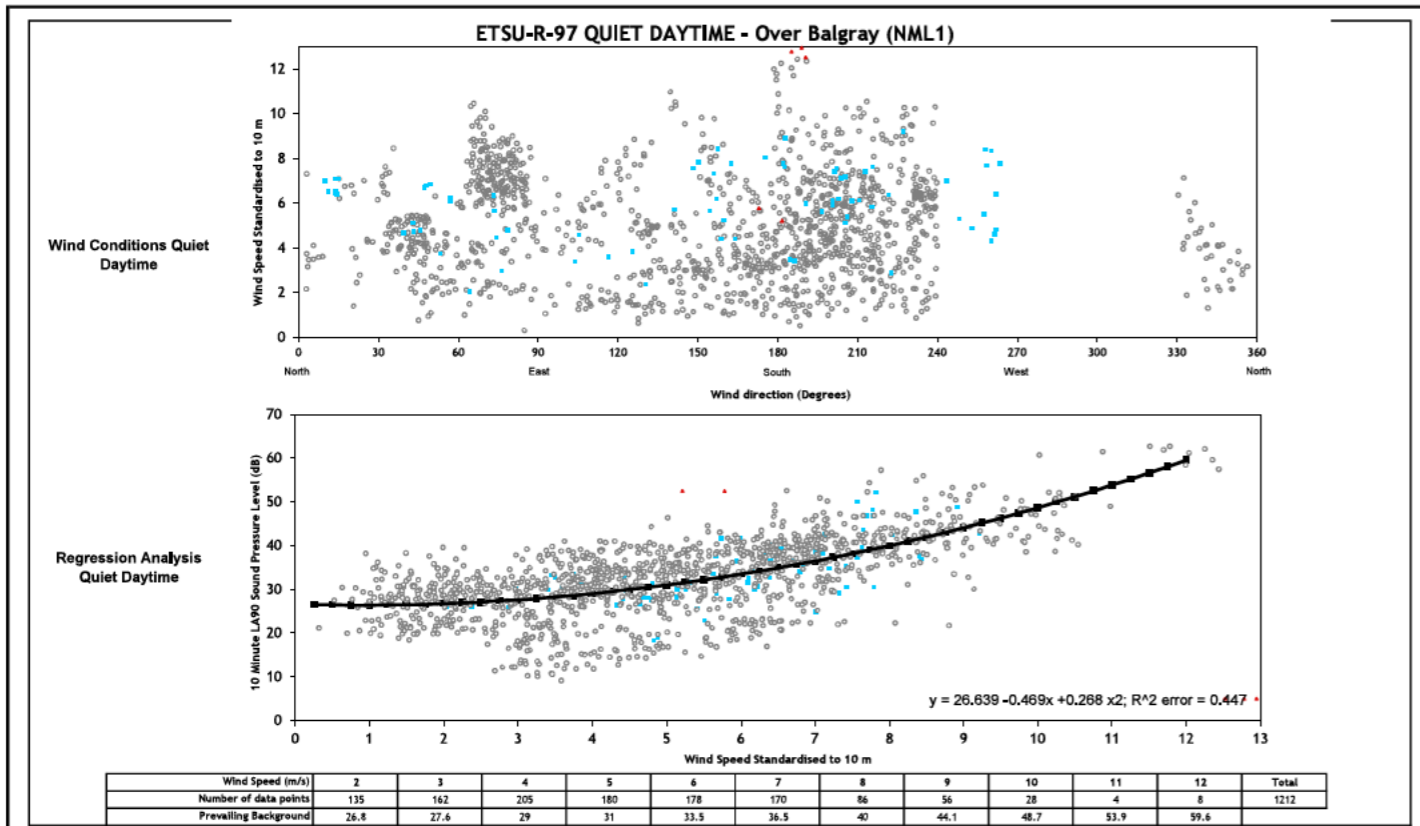
Legend: L _{eq} 10 Minute Measurement Point Line of best fit Line of best fit flat lined where appropriate(Prevailing Background) Excluded Data-Manual exclusion Excluded Data-Rain Excluded Data-Filtered Wind Direction	Project	M74 West Renewable Energy Park	
	Client	M74 West Limited	
	Title	Wind Conditions & Regression Analysis	
	Figure Number	A1.4a	
	Drawn	TS	
	Checked	MT	
Date	28/06/2024	Document Reference	15990-models

Legend: L _{eq} 10 Minute Measurement Point Line of best fit Line of best fit flat lined where appropriate(Prevailing Background) Excluded Data-Manual exclusion Excluded Data-Rain Excluded Data-Filtered Wind Direction	Project	M74 West Renewable Energy Park	
	Client	M74 West Limited	
	Title	Wind Conditions & Regression Analysis	
	Figure Number	A1.4b	
	Drawn	TS	
	Checked	MT	
Date	18/07/2024	Document Reference	15990-models



Legend: L _{eq} 10 Minute Measurement Point Line of best fit Line of best fit flat lined where appropriate(Prevailing Background) Excluded Data-Manual exclusion Excluded Data-Rain Excluded Data-Filtered Wind Direction	Project	M74 West Renewable Energy Park	
	Client	M74 West Limited	
	Title	Wind Conditions & Regression Analysis	
	Figure Number	A1.4c	
	Drawn	TS	
	Checked	MT	
Date	18/07/2024		
Document Reference	15990-models		

Legend: L _{eq} 10 Minute Measurement Point Line of best fit Line of best fit flat lined where appropriate(Prevailing Background) Excluded Data-Manual exclusion Excluded Data-Rain Excluded Data-Filtered Wind Direction	Project	M74 West Renewable Energy Park	
	Client	M74 West Limited	
	Title	Wind Conditions & Regression Analysis	
	Figure Number	A1.4d	
	Drawn	TS	
	Checked	MT	
Date	18/07/2024		
Document Reference	15990-models		



Legend:

- L₉₀ 10 Minute Measurement Point
- Line of best fit
- Line of best fit flat lined where appropriate (Prevailing Background)
- Excluded Data-Manual exclusion
- Excluded Data-Rain
- Excluded Data-Filtered Wind Direction

Project M74 West Renewable Energy Park

Client M74 West Limited

Title Wind Conditions & Regression Analysis
Calculated Background Noise

Figure Number A1.4e

Drawn TS

Checked MT

Date 26/06/2024

Document Reference 15990-models



Legend:

- L₉₀ 10 Minute Measurement Point - Total Noise
- L₉₀ 10 Minute Measurement Point - Calculated Background Noise
- Line of best fit - Calculated Background Noise
- Line of best fit
- Line of best fit - Total Noise

Project M74 West Renewable Energy Park

Client M74 West Limited

Title Wind Conditions & Regression Analysis
Calculated Background Noise and Total Noise
Comparison (NML1)

Figure Number A1.4f

Drawn TS

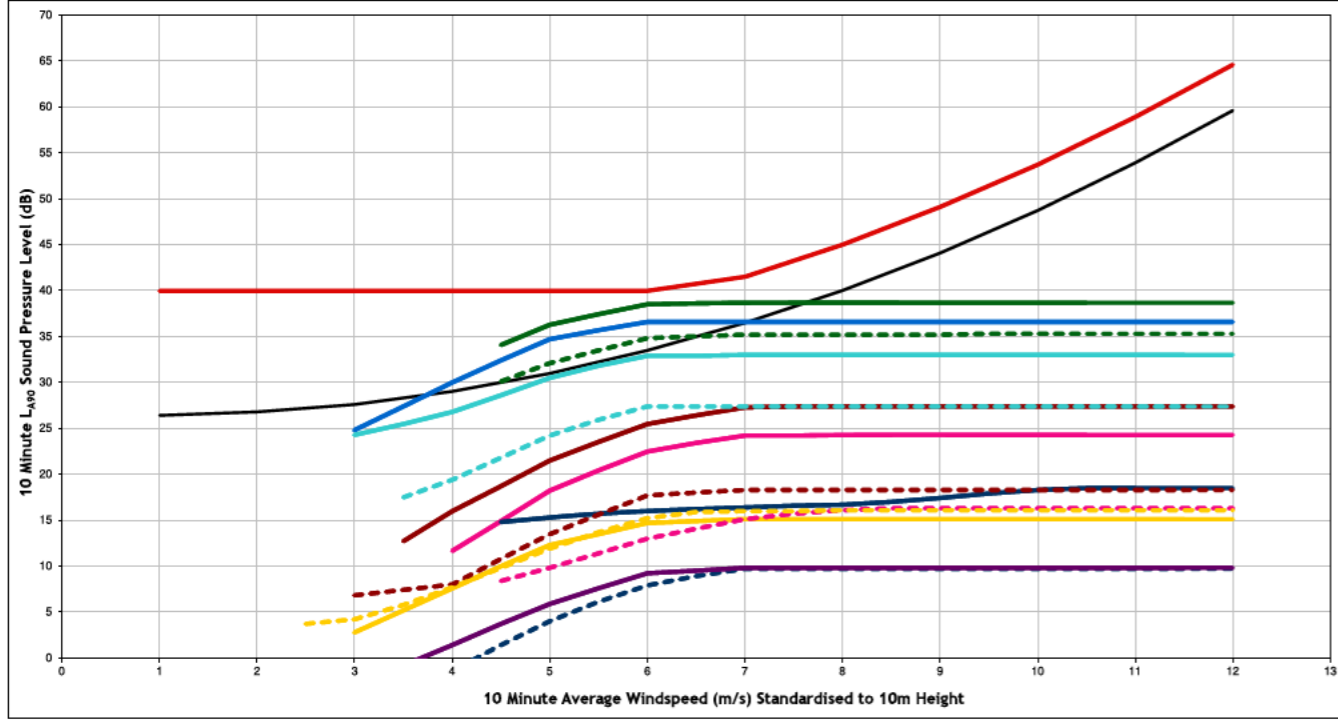
Checked MT

Date 28/06/2024

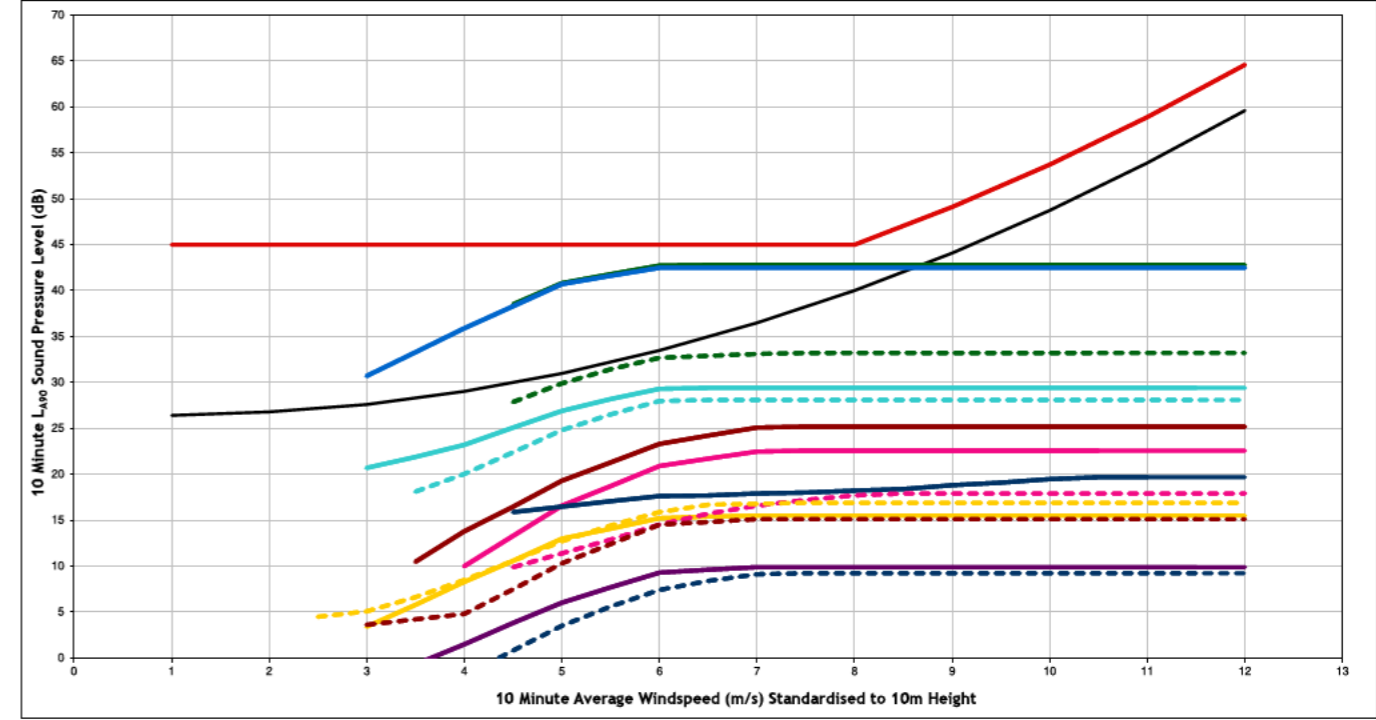
Document Reference 15990-models



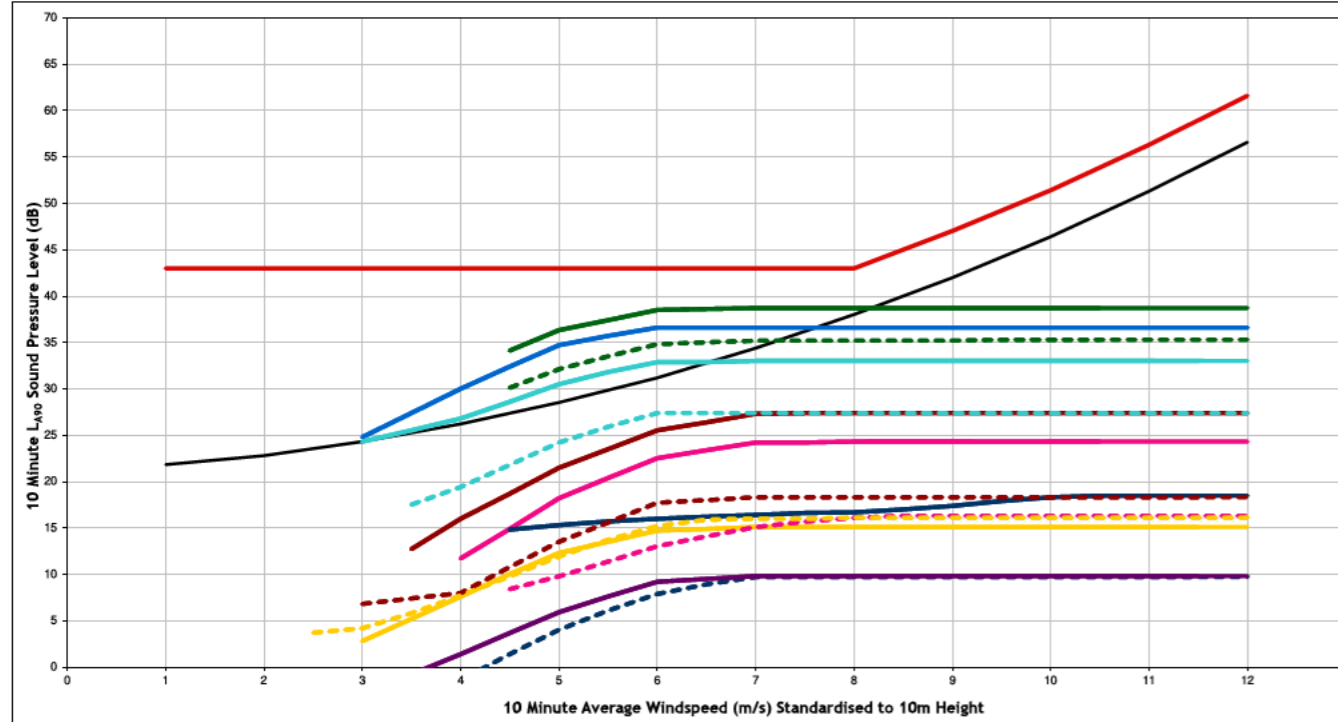
Daytime - NAL1 - Greenfield



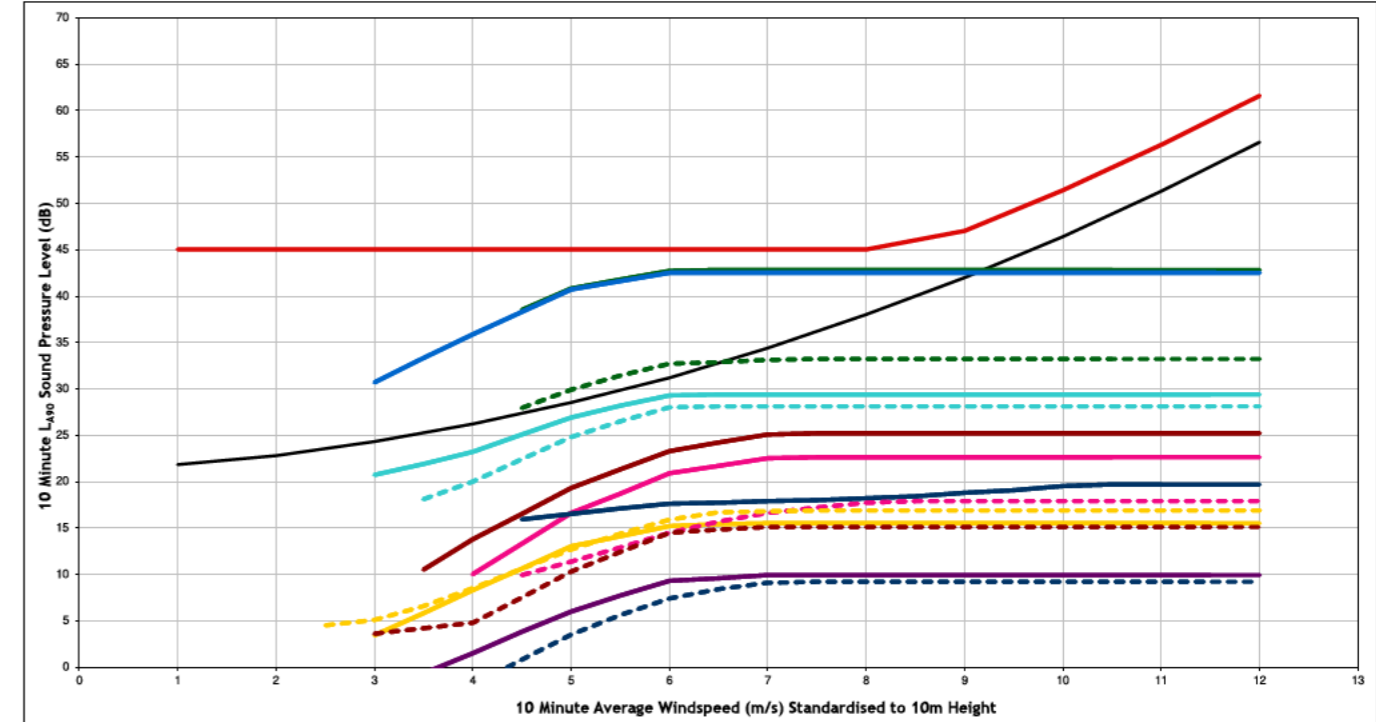
Daytime - NAL2 - Blackburn (FI)



Night Time - NAL1 - Greenfield



Night Time - NAL2 - Blackburn (FI)



Legend:

- Background Noise Trendline
- Total ETSU-R-97 Noise Limit
- Cumulative (inc. Proposed Development)
- Cumulative (exc. Proposed Development)
- Proposed Development
- Clyde & Extension
- Andershaw
- Middle Muir
- Douglas West and Extension
- Hagshaw Repowering and Extension
- Galawhistle
- Little Gala
- Bodingie
- Priestgill
- Dalquhandy
- Broken Cross

Project M74 West Renewable Park
 Client M74 West Limited
 Title Noise Assessment - Likely Predictions
 NAL1 - Greenfield
 Figure Number Figure A1.5a
 Drawn TS
 Checked GC
 Date 17/07/2024
 Document Reference 15990-Models



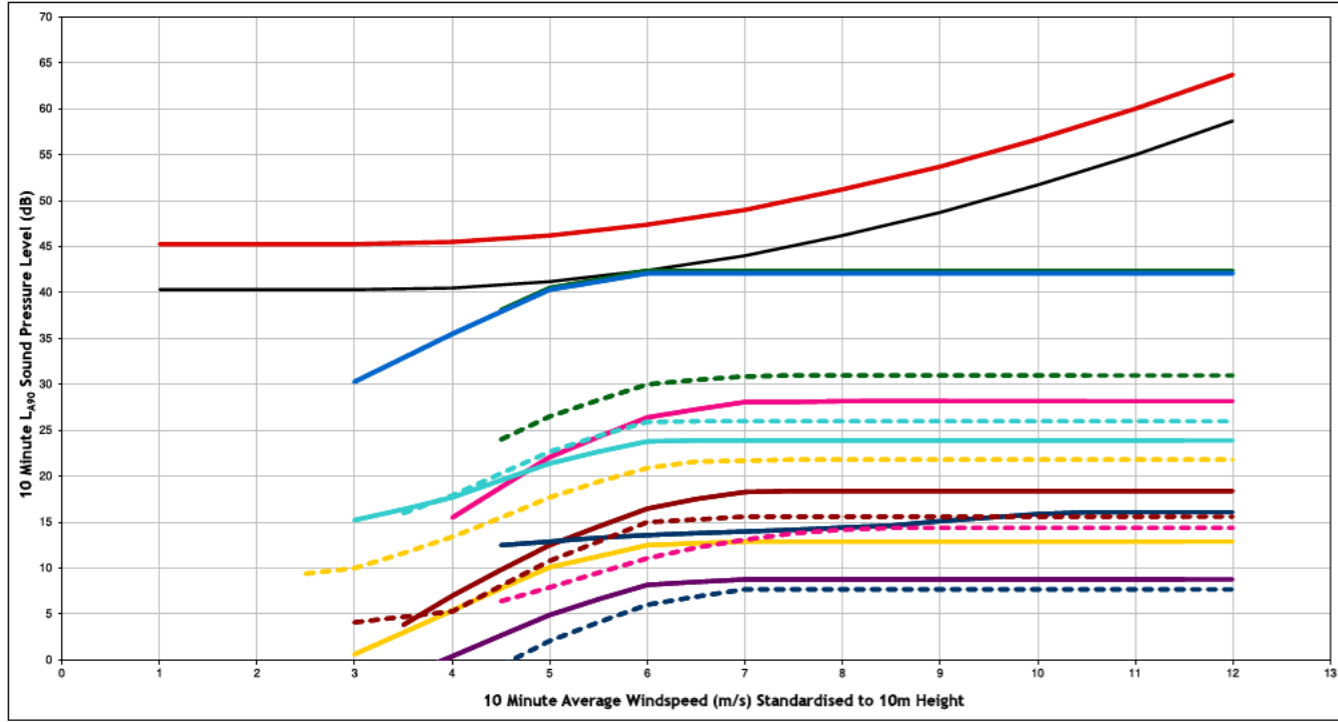
Legend:

- Background Noise Trendline
- Total ETSU-R-97 Noise Limit
- Cumulative (inc. Proposed Development)
- Cumulative (exc. Proposed Development)
- Proposed Development
- Clyde & Extension
- Andershaw
- Middle Muir
- Douglas West and Extension
- Hagshaw Repowering and Extension
- Galawhistle
- Little Gala
- Bodingie
- Priestgill
- Dalquhandy
- Broken Cross

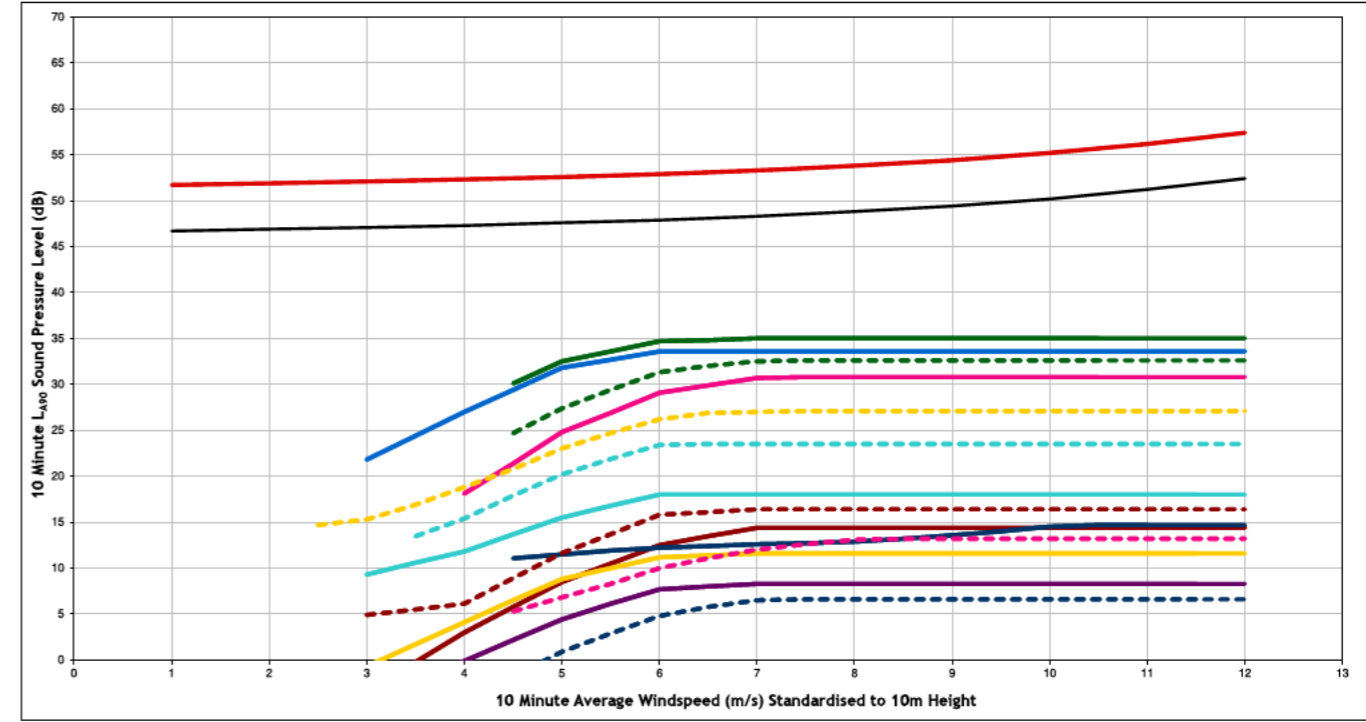
Project M74 West Renewable Park
 Client M74 West Limited
 Title Noise Assessment - Likely Predictions
 NAL2 - Blackburn (FI)
 Figure Number Figure A1.5b
 Drawn TS
 Checked GC
 Date 17/07/2024
 Document Reference 15990-Models



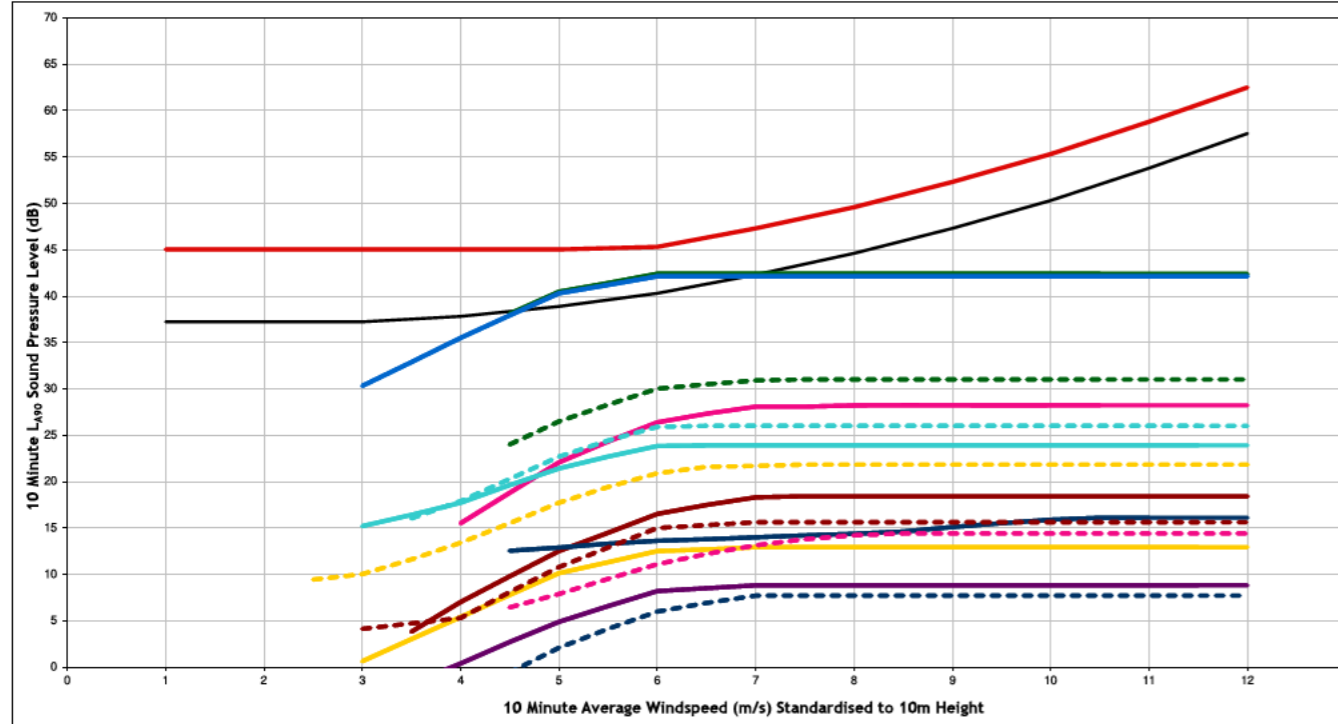
Daytime - NAL3 - Netherton Farm (FI)



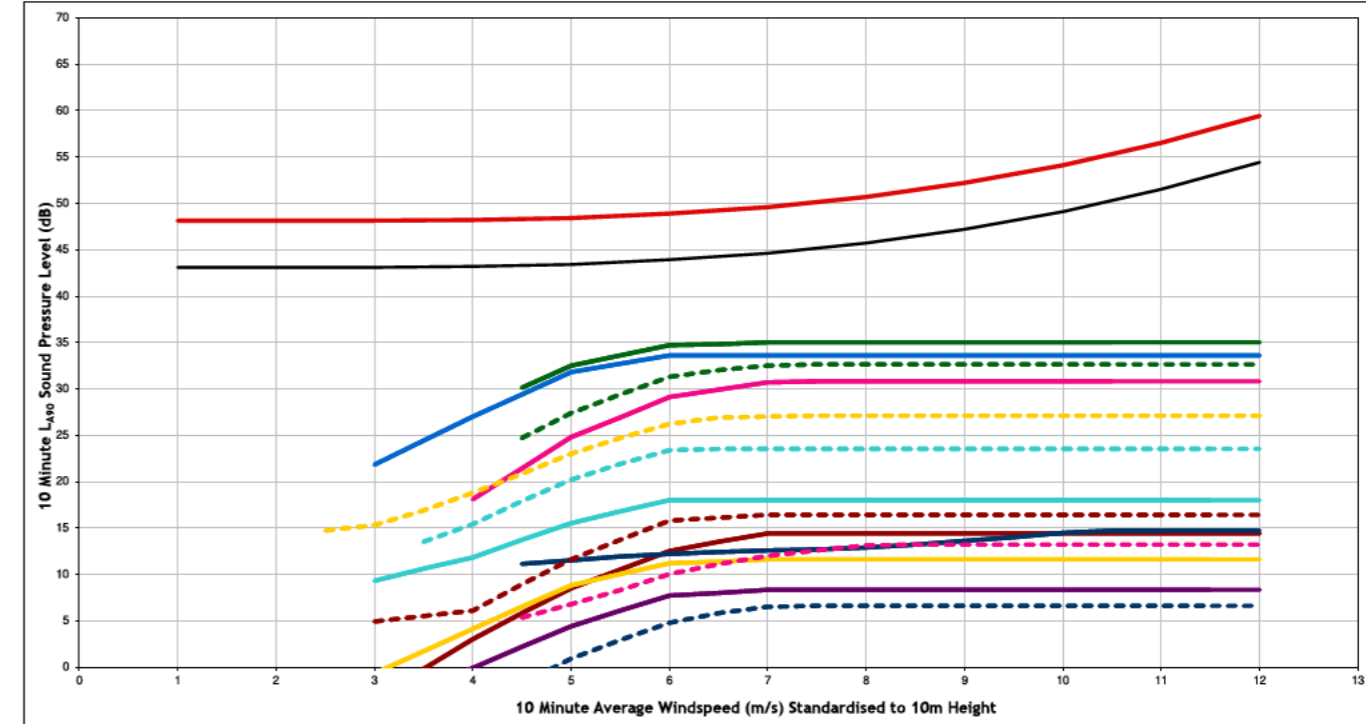
Daytime - NAL4 - Maidencots



Night Time - NAL3 - Netherton Farm (FI)



Night Time - NAL4 - Maidencots



Legend:

- Background Noise Trendline
- Total ETSU-R-97 Noise Limit
- Cumulative (inc. Proposed Development)
- Cumulative (exc. Proposed Development)
- Proposed Development
- Clyde & Extension
- Andershaw
- Middle Muir
- Douglas West and Extension
- Hagshaw Repowering and Extension
- Galawhistle
- Little Gala
- Bodingiee
- Priestgill
- Dalquhandy
- Broken Cross

Project M74 West Renewable Park
 Client M74 West Limited
 Title Noise Assessment - Likely Predictions
 NAL3 - Netherton Farm (FI)
 Figure Number Figure A1.5c
 Drawn TS
 Checked GC
 Date 17/07/2024
 Document Reference 15990-Models



Legend:

- Background Noise Trendline
- Total ETSU-R-97 Noise Limit
- Cumulative (inc. Proposed Development)
- Cumulative (exc. Proposed Development)
- Proposed Development
- Clyde & Extension
- Andershaw
- Middle Muir
- Douglas West and Extension
- Hagshaw Repowering and Extension
- Galawhistle
- Little Gala
- Bodingiee
- Priestgill
- Dalquhandy
- Broken Cross

Project M74 West Renewable Park
 Client M74 West Limited
 Title Noise Assessment - Likely Predictions
 NAL4 - Maidencots
 Figure Number Figure A1.5d
 Drawn TS
 Checked GC
 Date 17/07/2024
 Document Reference 15990-Models

