



## **APPENDIX 11-4**

***PREDICTED  
OMNI-DIRECTIONAL NOISE  
LEVELS***

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description<br>Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind<br>Speed at 10m A.G.L. |      |      |      |      |      |
|------|--------------------------|---|------|------|------|------|------|
|      |                          | 4   | 5    | 6    | 7    | 8    | 9    |
| H001 | Predicted                | 27.4  | 32.3 | 35.3 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H002 | Predicted                | 29.4  | 34.3 | 37.3 | 37.6 | 37.6 | 37.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H003 | Predicted                | 24.4  | 29.3 | 32.3 | 32.6 | 32.6 | 32.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H004 | Predicted                | 24.7  | 29.6 | 32.6 | 33   | 33   | 32.9 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H005 | Predicted                | 24.3  | 29.2 | 32.2 | 32.5 | 32.5 | 32.5 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H006 | Predicted                | 24.2  | 29.1 | 32.1 | 32.4 | 32.4 | 32.4 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H007 | Predicted                | 27.7  | 32.5 | 35.6 | 35.9 | 35.9 | 35.9 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H008 | Predicted                | 27.5  | 32.3 | 35.4 | 35.7 | 35.7 | 35.7 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H009 | Predicted                | 27.4  | 32.2 | 35.2 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H010 | Predicted             | 25.7   | 30.6 | 33.6 | 34   | 34   | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H011 | Predicted             | 25.9   | 30.7 | 33.7 | 34.1 | 34.1 | 34.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H012 | Predicted             | 27.1   | 31.9 | 34.9 | 35.3 | 35.3 | 35.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H013 | Predicted             | 26   | 30.8 | 33.8 | 34.2 | 34.2 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H014 | Predicted             | 26   | 30.9 | 33.9 | 34.3 | 34.3 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H015 | Predicted             | 26.6   | 31.4 | 34.5 | 34.8 | 34.8 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H016 | Predicted             | 25.7   | 30.5 | 33.5 | 33.9 | 33.9 | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H017 | Predicted             | 26.7   | 31.5 | 34.5 | 34.9 | 34.9 | 34.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H018 | Predicted             | 26.8   | 31.6 | 34.7 | 35   | 35   | 35   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H019 | Predicted             | 26.3   | 31.2 | 34.2 | 34.6 | 34.6 | 34.5 |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H020 | Predicted             | 26.4   | 31.2 | 34.3 | 34.6 | 34.6 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H021 | Predicted             | 26.3   | 31.1 | 34.2 | 34.5 | 34.5 | 34.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H022 | Predicted             | 26.1   | 31   | 34   | 34.4 | 34.4 | 34.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H023 | Predicted             | 25.5   | 30.1 | 33.3 | 33.8 | 33.8 | 33.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H024 | Predicted             | 25.9   | 30.6 | 33.7 | 34.2 | 34.2 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H025 | Predicted             | 26.4   | 31.1 | 34.2 | 34.7 | 34.7 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H026 | Predicted             | 26.1   | 30.8 | 33.9 | 34.4 | 34.4 | 34.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H027 | Predicted             | 26.4   | 31   | 34.2 | 34.7 | 34.7 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H028 | Predicted             | 26.5   | 31.1 | 34.3 | 34.8 | 34.8 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H029 | Predicted             | 26.6   | 31.2 | 34.4 | 34.9 | 34.9 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H030 | Predicted             | 26.8   | 31.4 | 34.6 | 35.1 | 35.1 | 35   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H031 | Predicted             | 26.9   | 31.6 | 34.7 | 35.2 | 35.2 | 35.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H032 | Predicted             | 26.8   | 31.5 | 34.6 | 35.1 | 35.1 | 35   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H033 | Predicted             | 26.9   | 31.6 | 34.7 | 35.2 | 35.2 | 35.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H034 | Predicted             | 27   | 31.6 | 34.8 | 35.3 | 35.3 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H035 | Predicted             | 27   | 31.7 | 34.8 | 35.3 | 35.3 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H036 | Predicted             | 27   | 31.6 | 34.8 | 35.3 | 35.2 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H037 | Predicted             | 27.1   | 31.8 | 35   | 35.4 | 35.4 | 35.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
| H038 | Predicted             | 27.2   | 31.9 | 35   | 35.5 | 35.5 | 35.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H039 | Predicted             | 25.8   | 30.3 | 33.6 | 34.2 | 34.1 | 34   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H040 | Predicted             | 25.9   | 30.4 | 33.6 | 34.2 | 34.2 | 34.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H041 | Predicted             | 26   | 30.5 | 33.8 | 34.4 | 34.3 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H042 | Predicted             | 26.7   | 31.5 | 34.6 | 35   | 35   | 35   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H043 | Predicted             | 27.4   | 32.1 | 35.2 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H044 | Predicted             | 27.7   | 32.3 | 35.5 | 36   | 35.9 | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H045 | Predicted             | 27.5   | 32.2 | 35.4 | 35.8 | 35.8 | 35.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H046 | Predicted             | 27.2   | 31.9 | 35   | 35.4 | 35.4 | 35.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H047 | Predicted             | 27.7   | 32.4 | 35.5 | 35.9 | 35.9 | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H048 | Predicted             | 27.4   | 32.1 | 35.2 | 35.7 | 35.6 | 35.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H049 | Predicted             | 28   | 32.7 | 35.9 | 36.3 | 36.3 | 36.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H050 | Predicted             | 27.2   | 32   | 35.1 | 35.5 | 35.5 | 35.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H051 | Predicted             | 27.5   | 32   | 35.2 | 35.8 | 35.8 | 35.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H052 | Predicted             | 27.8   | 32.5 | 35.6 | 36   | 36   | 36   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H053 | Predicted             | 27.4   | 32.1 | 35.2 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H054 | Predicted             | 27.3   | 32.1 | 35.2 | 35.6 | 35.6 | 35.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H055 | Predicted             | 27   | 31.8 | 34.9 | 35.3 | 35.3 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H056 | Predicted             | 28.8   | 33.5 | 36.6 | 37.1 | 37.1 | 37   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description<br>Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind<br>Speed at 10m A.G.L. |      |      |      |      |      |
|------|--------------------------|---|------|------|------|------|------|
|      |                          | 4   | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H057 | Predicted                | 31.2  | 35.9 | 39.1 | 39.5 | 39.5 | 39.5 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H058 | Predicted                | 28.2  | 32.9 | 36   | 36.4 | 36.4 | 36.4 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H059 | Predicted                | 29.6  | 34.4 | 37.4 | 37.8 | 37.8 | 37.8 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H060 | Predicted                | 31.3  | 35.4 | 38.9 | 39.8 | 39.7 | 39.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H061 | Predicted                | 32.4  | 36.5 | 40.1 | 40.9 | 40.9 | 40.8 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | 0.1  | 0.9  | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H062 | Predicted                | 32.4  | 36.5 | 40.1 | 40.9 | 40.9 | 40.8 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | 0.1  | 0.9  | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H063 | Predicted                | 28.7  | 33.1 | 36.4 | 37   | 37   | 36.9 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H064 | Predicted                | 27.4  | 31.9 | 35.2 | 35.8 | 35.8 | 35.7 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H065 | Predicted                | 27.3  | 31.8 | 35   | 35.6 | 35.6 | 35.5 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | -   | -    | -    | -    | -    | -    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | -   | -    | -    | -    | -    | -    |
| H066 | Predicted                | 27.2  | 31.7 | 34.9 | 35.5 | 35.5 | 35.4 |



Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H067 | Predicted             | 27.3   | 31.8 | 35.1 | 35.6 | 35.6 | 35.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H068 | Predicted             | 26.1   | 30.7 | 33.9 | 34.5 | 34.4 | 34.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H069 | Predicted             | 26   | 30.6 | 33.8 | 34.3 | 34.3 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H070 | Predicted             | 26.6   | 31.2 | 34.4 | 35   | 34.9 | 34.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H071 | Predicted             | 26.2   | 30.8 | 34   | 34.6 | 34.5 | 34.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H072 | Predicted             | 26.5   | 31.1 | 34.3 | 34.8 | 34.8 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H073 | Predicted             | 26.5   | 31   | 34.3 | 34.8 | 34.8 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H074 | Predicted             | 26.2   | 30.8 | 34   | 34.5 | 34.5 | 34.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H075 | Predicted             | 26.4   | 31   | 34.2 | 34.7 | 34.7 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H076 | Predicted             | 26.3   | 30.9 | 34.1 | 34.6 | 34.6 | 34.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H077 | Predicted             | 26.7   | 31.3 | 34.5 | 35   | 35   | 34.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H078 | Predicted             | 26.4   | 31   | 34.2 | 34.7 | 34.7 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H079 | Predicted             | 27.2   | 31.8 | 35   | 35.5 | 35.5 | 35.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H080 | Predicted             | 27   | 31.6 | 34.8 | 35.3 | 35.3 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H081 | Predicted             | 26.5   | 31.3 | 34.4 | 34.8 | 34.8 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H082 | Predicted             | 28.2   | 32.9 | 36   | 36.4 | 36.4 | 36.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H083 | Predicted             | 32.8   | 37.5 | 40.6 | 41   | 41   | 41   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | 0.6  | 1.0  | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H084 | Predicted             | 27.4   | 32.2 | 35.3 | 35.7 | 35.7 | 35.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
| H085 | Predicted             | 27.7   | 32.5 | 35.5 | 35.9 | 35.9 | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H086 | Predicted             | 28.4   | 33.2 | 36.2 | 36.6 | 36.6 | 36.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H087 | Predicted             | 27.9   | 32.7 | 35.7 | 36.1 | 36.1 | 36.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H088 | Predicted             | 28.3   | 33.1 | 36.2 | 36.6 | 36.6 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H089 | Predicted             | 28   | 32.8 | 35.8 | 36.2 | 36.2 | 36.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H090 | Predicted             | 28.9   | 33.7 | 36.8 | 37.1 | 37.1 | 37.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H091 | Predicted             | 28.4   | 33.1 | 36.2 | 36.6 | 36.6 | 36.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H092 | Predicted             | 25.5   | 30.2 | 33.3 | 33.7 | 33.7 | 33.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H093 | Predicted             | 29.2   | 34   | 37   | 37.4 | 37.4 | 37.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H094 | Predicted             | 30.3   | 35.1 | 38.2 | 38.5 | 38.5 | 38.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H095 | Predicted             | 28   | 32.8 | 35.8 | 36.2 | 36.2 | 36.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H096 | Predicted             | 30.3   | 35.1 | 38.1 | 38.5 | 38.5 | 38.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H097 | Predicted             | 32.3   | 37.2 | 40.2 | 40.6 | 40.6 | 40.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | 0.2  | 0.6  | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H098 | Predicted             | 26   | 30.8 | 33.8 | 34.2 | 34.2 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H099 | Predicted             | 28.7   | 33.5 | 36.5 | 36.9 | 36.9 | 36.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H100 | Predicted             | 29.1   | 34   | 37   | 37.3 | 37.3 | 37.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H101 | Predicted             | 26.5   | 31.4 | 34.4 | 34.8 | 34.8 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H102 | Predicted             | 27.1   | 31.9 | 35   | 35.4 | 35.3 | 35.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H103 | Predicted             | 30.6   | 35.5 | 38.5 | 38.8 | 38.8 | 38.8 |
|      | Daytime Criterion     | 40   | 40   | 45   | 45   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H104 | Predicted             | 25   | 29.8 | 32.9 | 33.2 | 33.2 | 33.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H105 | Predicted             | 27.2   | 32   | 35   | 35.4 | 35.4 | 35.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H106 | Predicted             | 25.6   | 30.5 | 33.5 | 33.8 | 33.8 | 33.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H107 | Predicted             | 30.3   | 35.1 | 38.2 | 38.5 | 38.5 | 38.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H108 | Predicted             | 25.4   | 30.3 | 33.3 | 33.7 | 33.7 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H109 | Predicted             | 27.3   | 32.1 | 35.2 | 35.5 | 35.5 | 35.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H110 | Predicted             | 30.4   | 35.3 | 38.3 | 38.6 | 38.6 | 38.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H111 | Predicted             | 27   | 31.8 | 34.8 | 35.2 | 35.2 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H112 | Predicted             | 27   | 31.8 | 34.9 | 35.2 | 35.2 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H113 | Predicted             | 27   | 31.8 | 34.9 | 35.3 | 35.3 | 35.2 |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H114 | Predicted             | 26.9   | 31.8 | 34.8 | 35.2 | 35.2 | 35.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H115 | Predicted             | 30.4   | 35.3 | 38.3 | 38.6 | 38.6 | 38.6 |
|      | Daytime Criterion     | 40   | 45   | 45   | 45   | 45   | 47.6 |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 46   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H116 | Predicted             | 26.9   | 31.7 | 34.7 | 35.1 | 35.1 | 35.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H117 | Predicted             | 24.4   | 29.2 | 32.3 | 32.6 | 32.6 | 32.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H118 | Predicted             | 25.3   | 30.1 | 33.2 | 33.5 | 33.5 | 33.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H119 | Predicted             | 25.4   | 30.3 | 33.3 | 33.7 | 33.7 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H120 | Predicted             | 28.2   | 33   | 36.1 | 36.4 | 36.4 | 36.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H121 | Predicted             | 24.4   | 29.3 | 32.3 | 32.7 | 32.7 | 32.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H122 | Predicted             | 24.6   | 29.5 | 32.5 | 32.9 | 32.9 | 32.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H123 | Predicted             | 25.2   | 30   | 33.1 | 33.4 | 33.4 | 33.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H124 | Predicted             | 25.9   | 30.8 | 33.8 | 34.1 | 34.1 | 34.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H125 | Predicted             | 26.7   | 31.6 | 34.6 | 35   | 35   | 34.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H126 | Predicted             | 26.6   | 31.4 | 34.5 | 34.9 | 34.9 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H127 | Predicted             | 26.1   | 31   | 34   | 34.3 | 34.3 | 34.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H128 | Predicted             | 27.7   | 32.5 | 35.5 | 35.9 | 35.9 | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H129 | Predicted             | 26.8   | 31.6 | 34.6 | 35   | 35   | 35   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H130 | Predicted             | 26.1   | 30.9 | 33.9 | 34.3 | 34.3 | 34.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H131 | Predicted             | 25.9   | 30.8 | 33.8 | 34.2 | 34.2 | 34.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
| H132 | Predicted             | 27.5   | 32.4 | 35.4 | 35.8 | 35.7 | 35.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H133 | Predicted             | 27.5   | 32.4 | 35.4 | 35.8 | 35.8 | 35.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H134 | Predicted             | 26.9   | 31.8 | 34.8 | 35.1 | 35.1 | 35.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H135 | Predicted             | 26.7   | 31.5 | 34.6 | 34.9 | 34.9 | 34.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H136 | Predicted             | 26.5   | 31.3 | 34.3 | 34.7 | 34.7 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H137 | Predicted             | 26.5   | 31.4 | 34.4 | 34.7 | 34.7 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H138 | Predicted             | 26.8   | 31.6 | 34.7 | 35   | 35   | 35   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H139 | Predicted             | 26.6   | 31.5 | 34.5 | 34.9 | 34.8 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H140 | Predicted             | 26.5   | 31.4 | 34.4 | 34.7 | 34.7 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H141 | Predicted             | 26.1   | 31   | 34   | 34.3 | 34.3 | 34.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |



Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H142 | Predicted             | 25.7   | 30.6 | 33.6 | 33.9 | 33.9 | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H143 | Predicted             | 25.3   | 30.1 | 33.1 | 33.5 | 33.5 | 33.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H144 | Predicted             | 25.4   | 30.3 | 33.3 | 33.7 | 33.6 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H145 | Predicted             | 25.3   | 30.1 | 33.1 | 33.5 | 33.5 | 33.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H146 | Predicted             | 24.8   | 29.6 | 32.7 | 33   | 33   | 33   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H147 | Predicted             | 24.2   | 29   | 32.1 | 32.4 | 32.4 | 32.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H148 | Predicted             | 25.4   | 30.3 | 33.3 | 33.6 | 33.6 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H149 | Predicted             | 25.4   | 30.2 | 33.2 | 33.6 | 33.6 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H150 | Predicted             | 25.3   | 30.2 | 33.2 | 33.6 | 33.6 | 33.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H151 | Predicted             | 25   | 29.8 | 32.9 | 33.2 | 33.2 | 33.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H152 | Predicted             | 26.2   | 31.1 | 34.1 | 34.4 | 34.4 | 34.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H153 | Predicted             | 26.4   | 31.2 | 34.2 | 34.6 | 34.6 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H154 | Predicted             | 27.1   | 31.9 | 34.9 | 35.3 | 35.3 | 35.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H155 | Predicted             | 27.1   | 32   | 35   | 35.3 | 35.3 | 35.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H156 | Predicted             | 26.2   | 31.1 | 34.1 | 34.4 | 34.4 | 34.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H157 | Predicted             | 25.3   | 30.2 | 33.2 | 33.5 | 33.5 | 33.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H158 | Predicted             | 27   | 31.9 | 34.9 | 35.2 | 35.2 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H159 | Predicted             | 24.8   | 29.6 | 32.6 | 33   | 33   | 32.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H160 | Predicted             | 27   | 31.9 | 34.9 | 35.2 | 35.2 | 35.2 |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H161 | Predicted             | 27.3   | 32.1 | 35.2 | 35.5 | 35.5 | 35.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H162 | Predicted             | 27.4   | 32.3 | 35.3 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H163 | Predicted             | 28.4   | 33.3 | 36.3 | 36.6 | 36.6 | 36.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H164 | Predicted             | 28.4   | 33.3 | 36.3 | 36.6 | 36.6 | 36.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H165 | Predicted             | 29.1   | 33.9 | 36.9 | 37.3 | 37.3 | 37.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H166 | Predicted             | 27.4   | 32.3 | 35.3 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H167 | Predicted             | 27.6   | 32.5 | 35.5 | 35.8 | 35.8 | 35.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H168 | Predicted             | 28   | 32.9 | 35.9 | 36.2 | 36.2 | 36.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H169 | Predicted             | 28.2   | 33.1 | 36.1 | 36.4 | 36.4 | 36.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H170 | Predicted             | 29.4   | 34.3 | 37.3 | 37.7 | 37.7 | 37.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H171 | Predicted             | 28.2   | 33.1 | 36.1 | 36.4 | 36.4 | 36.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H172 | Predicted             | 30   | 34.9 | 37.9 | 38.2 | 38.2 | 38.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H173 | Predicted             | 28.7   | 33.6 | 36.6 | 36.9 | 36.9 | 36.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H174 | Predicted             | 29.7   | 34.5 | 37.5 | 37.9 | 37.9 | 37.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H175 | Predicted             | 30.7   | 35.6 | 38.6 | 38.9 | 38.9 | 38.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H176 | Predicted             | 29.5   | 34.4 | 37.4 | 37.7 | 37.7 | 37.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H177 | Predicted             | 29.8   | 34.7 | 37.7 | 38   | 38   | 38   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H178 | Predicted             | 30   | 34.8 | 37.8 | 38.2 | 38.2 | 38.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
| H179 | Predicted             | 30.2   | 35.1 | 38.1 | 38.4 | 38.4 | 38.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H180 | Predicted             | 30.1   | 35   | 38   | 38.3 | 38.3 | 38.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H181 | Predicted             | 29.8   | 34.7 | 37.7 | 38   | 38   | 38   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H182 | Predicted             | 30.3   | 35.2 | 38.2 | 38.5 | 38.5 | 38.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H183 | Predicted             | 29   | 33.9 | 36.9 | 37.2 | 37.2 | 37.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H184 | Predicted             | 30.1   | 35   | 38   | 38.3 | 38.3 | 38.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H185 | Predicted             | 28.5   | 33.4 | 36.4 | 36.7 | 36.7 | 36.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H186 | Predicted             | 28.3   | 33.2 | 36.2 | 36.5 | 36.5 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H187 | Predicted             | 28.1   | 33   | 36   | 36.3 | 36.3 | 36.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H188 | Predicted             | 27.9   | 32.8 | 35.8 | 36.2 | 36.2 | 36.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H189 | Predicted             | 27.4   | 32.3 | 35.3 | 35.6 | 35.6 | 35.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H190 | Predicted             | 28.8   | 33.7 | 36.7 | 37.1 | 37.1 | 37   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H191 | Predicted             | 28   | 32.9 | 35.9 | 36.2 | 36.2 | 36.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H192 | Predicted             | 30   | 34.8 | 37.9 | 38.2 | 38.2 | 38.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H193 | Predicted             | 28   | 32.8 | 35.9 | 36.2 | 36.2 | 36.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H194 | Predicted             | 29.5   | 34.4 | 37.4 | 37.7 | 37.7 | 37.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H195 | Predicted             | 27.5   | 32.4 | 35.4 | 35.7 | 35.7 | 35.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H196 | Predicted             | 30.4   | 35.3 | 38.3 | 38.6 | 38.6 | 38.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H197 | Predicted             | 30.1   | 35   | 38   | 38.3 | 38.3 | 38.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H198 | Predicted             | 30.5   | 35.4 | 38.4 | 38.7 | 38.7 | 38.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 45   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H199 | Predicted             | 25.2   | 30.1 | 33.1 | 33.4 | 33.4 | 33.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H200 | Predicted             | 24.6   | 29.5 | 32.5 | 32.8 | 32.8 | 32.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H201 | Predicted             | 30.5   | 35.3 | 38.4 | 38.7 | 38.7 | 38.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H202 | Predicted             | 25.7   | 30.6 | 33.6 | 33.9 | 33.9 | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H203 | Predicted             | 29.9   | 34.8 | 37.8 | 38.1 | 38.1 | 38.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H204 | Predicted             | 27   | 31.9 | 34.9 | 35.2 | 35.2 | 35.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H205 | Predicted             | 29.4   | 34.3 | 37.3 | 37.6 | 37.6 | 37.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H206 | Predicted             | 25.1   | 30   | 33   | 33.3 | 33.3 | 33.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H207 | Predicted             | 24.4   | 29.3 | 32.3 | 32.6 | 32.6 | 32.6 |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H208 | Predicted             | 23.6   | 28.5 | 31.5 | 31.8 | 31.8 | 31.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H209 | Predicted             | 24.5   | 29.4 | 32.4 | 32.7 | 32.7 | 32.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H210 | Predicted             | 26.5   | 31.4 | 34.4 | 34.7 | 34.7 | 34.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H211 | Predicted             | 26.6   | 31.5 | 34.5 | 34.8 | 34.8 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H212 | Predicted             | 25.9   | 30.8 | 33.8 | 34.1 | 34.1 | 34.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H213 | Predicted             | 26.9   | 31.8 | 34.8 | 35.1 | 35.1 | 35.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H214 | Predicted             | 27.3   | 32.2 | 35.2 | 35.5 | 35.5 | 35.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H215 | Predicted             | 27.1   | 32   | 35   | 35.3 | 35.3 | 35.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H216 | Predicted             | 28.3   | 33.2 | 36.2 | 36.5 | 36.5 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |



Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description<br>Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind<br>Speed at 10m A.G.L. |      |      |      |      |      |
|------|--------------------------|---|------|------|------|------|------|
|      |                          | 4   | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H217 | Predicted                | 29.7  | 34.6 | 37.6 | 37.9 | 37.9 | 37.9 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H218 | Predicted                | 25  | 29.3 | 32.7 | 33.5 | 33.5 | 33.3 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H219 | Predicted                | 25.1  | 29.4 | 32.8 | 33.6 | 33.5 | 33.4 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H220 | Predicted                | 25.2  | 29.4 | 32.9 | 33.6 | 33.6 | 33.5 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H221 | Predicted                | 25.3  | 29.6 | 33   | 33.8 | 33.8 | 33.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H222 | Predicted                | 26  | 30.3 | 33.7 | 34.5 | 34.5 | 34.3 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H223 | Predicted                | 25.7  | 29.8 | 33.3 | 34.1 | 34.1 | 34   |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H224 | Predicted                | 25.9  | 30   | 33.5 | 34.3 | 34.3 | 34.1 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |
| H225 | Predicted                | 27.3  | 31.4 | 34.9 | 35.8 | 35.7 | 35.6 |
|      | Daytime Criterion        | 40  | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess           | –   | –    | –    | –    | –    | –    |
|      | Night-time Criterion     | 43  | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess        | –   | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
| H226 | Predicted             | 28.2   | 32.3 | 35.8 | 36.7 | 36.6 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H227 | Predicted             | 25.9   | 30.1 | 33.5 | 34.3 | 34.3 | 34.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H228 | Predicted             | 26.3   | 30.5 | 34   | 34.8 | 34.8 | 34.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H229 | Predicted             | 27.5   | 31.6 | 35.1 | 35.9 | 35.9 | 35.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H230 | Predicted             | 27.6   | 31.8 | 35.3 | 36.1 | 36.1 | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H231 | Predicted             | 27.6   | 31.7 | 35.2 | 36   | 36   | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H232 | Predicted             | 27.8   | 32   | 35.5 | 36.3 | 36.3 | 36.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H233 | Predicted             | 27.6   | 31.8 | 35.3 | 36   | 36   | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H234 | Predicted             | 27.6   | 31.8 | 35.3 | 36.1 | 36.1 | 35.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H235 | Predicted             | 28.2   | 32.4 | 35.9 | 36.7 | 36.6 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H236 | Predicted             | 28.2   | 32.4 | 35.9 | 36.7 | 36.6 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H237 | Predicted             | 25.8   | 30.2 | 33.6 | 34.2 | 34.2 | 34.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H238 | Predicted             | 26.6   | 31.4 | 34.5 | 34.9 | 34.9 | 34.8 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H239 | Predicted             | 32.4   | 36.5 | 40   | 40.9 | 40.8 | 40.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | 0.9  | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H240 | Predicted             | 28.1   | 32.2 | 35.7 | 36.6 | 36.5 | 36.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H241 | Predicted             | 28.2   | 32.3 | 35.9 | 36.7 | 36.7 | 36.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H242 | Predicted             | 28.2   | 32.4 | 35.8 | 36.6 | 36.6 | 36.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H243 | Predicted             | 25.7   | 30.6 | 33.6 | 33.9 | 33.9 | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H244 | Predicted             | 25.7   | 30.5 | 33.5 | 33.9 | 33.9 | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
Chapter 11 Noise and Vibration 191137

| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H245 | Predicted             | 25.2   | 30   | 33.1 | 33.4 | 33.4 | 33.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H246 | Predicted             | 25.7   | 30.2 | 33.5 | 34.1 | 34.1 | 34.0 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H247 | Predicted             | 25.5   | 29.7 | 33.1 | 33.9 | 33.9 | 33.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H248 | Predicted             | 25.3   | 29.5 | 33   | 33.7 | 33.7 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H249 | Predicted             | 25.3   | 29.5 | 32.9 | 33.7 | 33.7 | 33.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H250 | Predicted             | 25   | 29.2 | 32.7 | 33.5 | 33.4 | 33.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H251 | Predicted             | 25.2   | 29.4 | 32.9 | 33.6 | 33.6 | 33.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H252 | Predicted             | 25.1   | 29.3 | 32.8 | 33.6 | 33.5 | 33.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H253 | Predicted             | 25.1   | 29.2 | 32.7 | 33.5 | 33.5 | 33.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | -  | -    | -    | -    | -    | -    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | -  | -    | -    | -    | -    | -    |
| H254 | Predicted             | 24.9   | 29.1 | 32.6 | 33.4 | 33.3 | 33.2 |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H255 | Predicted             | 24.7   | 28.9 | 32.4 | 33.1 | 33.1 | 33   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H256 | Predicted             | 24.7   | 28.9 | 32.4 | 33.2 | 33.1 | 33   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H257 | Predicted             | 24.7   | 28.9 | 32.4 | 33.2 | 33.1 | 33   |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H258 | Predicted             | 24.8   | 29   | 32.5 | 33.3 | 33.2 | 33.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H259 | Predicted             | 24.8   | 29   | 32.5 | 33.3 | 33.2 | 33.1 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H260 | Predicted             | 24.9   | 29.1 | 32.6 | 33.3 | 33.3 | 33.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H261 | Predicted             | 25   | 29.2 | 32.6 | 33.4 | 33.4 | 33.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H262 | Predicted             | 24.1   | 28.4 | 31.8 | 32.6 | 32.6 | 32.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H263 | Predicted             | 24.6   | 28.8 | 32.3 | 33   | 33   | 32.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |

Appendix 11-4 Predicted Omni-Directional Noise Levels  
Ballivor Wind Farm  
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| NSL  | Description Parameter | Predicted Noise Level dB L <sub>A90</sub> at Standardised Wind Speed at 10m A.G.L. |      |      |      |      |      |
|------|-----------------------|--|------|------|------|------|------|
|      |                       | 4  | 5    | 6    | 7    | 8    | 9    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H264 | Predicted             | 24.5   | 28.6 | 32.1 | 32.9 | 32.9 | 32.7 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H265 | Predicted             | 25.6   | 29.7 | 33.2 | 34   | 34   | 33.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H266 | Predicted             | 25   | 29.1 | 32.6 | 33.4 | 33.4 | 33.2 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H267 | Predicted             | 24.2   | 28.4 | 31.9 | 32.7 | 32.7 | 32.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H268 | Predicted             | 24.2   | 28.4 | 31.9 | 32.7 | 32.6 | 32.5 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H269 | Predicted             | 24.1   | 28.3 | 31.8 | 32.6 | 32.6 | 32.4 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H270 | Predicted             | 24   | 28.2 | 31.7 | 32.5 | 32.5 | 32.3 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H271 | Predicted             | 23.3   | 27.5 | 31   | 31.8 | 31.7 | 31.6 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |
| H272 | Predicted             | 26.7   | 31.4 | 34.5 | 34.9 | 34.9 | 34.9 |
|      | Daytime Criterion     | 40   | 40   | 40   | 40   | 45   | 45   |
|      | Daytime Excess        | –  | –    | –    | –    | –    | –    |
|      | Night-time Criterion  | 43   | 43   | 43   | 43   | 43   | 43   |
|      | Night-time Excess     | –  | –    | –    | –    | –    | –    |