Sure Partners Limited

ARKLOW BANK WIND PARK PHASE 2 ONSHORE GRID INFRASTRUCTURE

VOLUME III Chapter 11 APPENDICES

Appendix 11.2 Baseline Noise Monitoring





Appendix 11.2

Baseline Noise Monitoring

Appendix 11.2 Baseline Noise Monitoring

Methodology

Baseline noise monitoring was carried out to establish baseline noise levels representative of the nearest receptors to the proposed noise-generating operational and construction activities due to the proposed development. Surveys were undertaken following guidance from BS 7445-1 and BS 4142.

Unattended long-term noise measurements were carried out at ten locations between 12 August 2020 and 22 September 2020. Attended daytime short-term noise measurements were also obtained at three locations (NM7, NM12, NM13) on 14 September 2020.

Unattended surveys were undertaken in two rounds. Round 1 was undertaken between 12/08/2020 and 26/08/2020 at NM1, NM2, NM4, NM11. Round 2 was undertaken between 08/09/2020 and 22/09/2020 at NM3, NM5, NM6, NM8, NM9 and NM10. A weather station was set-up at NM1 for Round 1 and was setup at NM5 for Round 2.

Details of the monitoring equipment used can be seen in Table 1.

Due to an equipment fault at NM3 during Round 1, it was chosen to measure noise levels at NM8 for the first week of Round 2 and then move the sound level meter to NM3 for the second week of Round 2.

| Measurement location | Sound Level Meter (01 dB DUO) Serial Number | GPS Coordinates | Start date/time | End date/time |
|-------------------------|--|-----------------------------|---------------------|---------------------|
| NM1 | 12081 | 52°48'45.3"N 6°10'53.1"W | 12/08/2020 11:15 | 26/08/2020 10:30 |
| NM2 | 12029 | 52°48'55.2"N 6°10'13.7"W | 12/08/2020 13:15 | 23/08/2020 18:30 |
| NM3 | 12049 | 52°48'19.1"N 6°10'34.9"W | 15/09/2020 10:30 | 22/09/2020 11:45 |
| NM4 | 12062 | 52°48'55.3"N 6°11'08.2"W | 12/08/2020 12:30 | 20/08/2020 16:30 |
| NM5 | 12081 | 52°49'41.7"N 6°07'02.1"W | 08/09/2020 12:15 | 22/09/2020 10:15 |
| NM6 | 12029 | 52°49'58.5"N 6°07'24.3"W | 08/09/2020 11:15 | 22/08/2020 09:45 |
| NM7 | 12085 | 52°49'26.4"N 6°07'20.5"W | 14/09/2020 14:32 | 14/09/2020 15:32 |
| NM8 | 12062 | 52°49'18.1"N 6°07'48.4"W | 08/09/2020 12:45 | 15/09/2020 09:45 |

Table 1: Baseline noise monitoring details

| Measurement location | Sound Level Meter (01 dB DUO) Serial Number | GPS Coordinates | Start date/time | End date/time |
|-------------------------|--|-----------------------------|---------------------|---------------------|
| NM9 | 12051 | 52°48'47.9"N 6°08'47.6"W | 08/09/2020 13:15 | 15/09/2020 15:15 |
| NM10 | 12049 | 52°48'59.4"N 6°08'43.1"W | 08/09/2020 14:00 | 17/09/2020 05:00 |
| NM11 | 12051 | 52°48'47.5"N 6°09'44.4"W | 12/08/2020 11:45 | 19/08/2020 04:15 |
| NM12 | 12085 | 52°48'38.7"N 6°08'59.7"W | 14/09/2020 16:13 | 14/09/2020 17:13 |
| NM13 | 12085 | 52°48'42.7"N 6°09'06.3"W | 14/09/2020 17:26 | 14/09/2020 18:26 |

Table 2: Additional equipment details

| Equipment | Туре | Serial number | Comments |
|-----------------|-------------------|---------------|--|
| Weather station | Vaisala WXT520 | L1920417 | Used at NM1 12/08/2020 11:15 - 26/08/2020 10:30 Used at NM5 08/09/2020 12:15 - 22/09/2020 10:15 |
| Calibrator | B&K 4231 | 2685082 | Used at all locations |

Results

Observations of the noise climate at each monitoring location are listed in Table 3 below.

Table 3: Noise observations

| Location | Observations |
|----------|---|
| NM1 | Main source of noise was the timber manufacturing company located close to set up location. Other noise sources included trucks and cars coming into the industrial park. |
| NM2 | No clear dominant noise source at set-up/collection. Wind/birds etc. |
| NM3 | Road traffic from M11 and traffic coming into the Merck site. |
| NM4 | Faint noise coming from Avoca industrial park. |
| NM5 | No clear dominant noise source at set-up/collection. Wind/birds etc. |
| NM6 | Road traffic from M11. |
| NM7 | Quiet, minimal number of cars passing (~5 cars passed within hour) |

| Location | Observations |
|----------|---|
| NM8 | No clear dominant noise source at set-up/collection. Wind/birds etc. |
| NM9 | Road traffic from R772 |
| NM10 | Road traffic from R772. |
| NM11 | Road traffic from road in front of facility, as well as trucks coming in and out of the parking area. |
| NM12 | Heavy traffic, some cars beeping as they passed |
| NM13 | Truck company around 50m south and noise from trucks reversing in depot, there was also a driven lawn mower in Glenhaven foods started up 15mins into measurement |

The noise data is presented in **Table 4** – **Table 16** below. Data has been removed from the noise data analysis where average wind speeds over a 15-minute period were above 5 m/s and where the average rain intensity over a 15-miute period was above 0.5 mm/s. This is in line with guidance from BS 4142 as to avoid adverse weather conditions and interference to the microphone.

For the unattended noise measurement locations, the summary values are derived from the mean of the $L_{Aeq,T}$ values for each time period, i.e. the summary $L_{Aeq,12h}$ is the mean of $L_{Aeq,12h}$ values. The summary $L_{A90,15min}$ values are derived from the mode of all measured $L_{A90,15min}$ values recorded within each time period over the entire measurement, i.e. for NM1 the summary day $L_{A90,15min}$ value is the mode of all $L_{A90,15min}$ values recorded between 07:00 and 19:00, 12/08/2020 - 26/08/2020.

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00-23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode LA90,15min | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Wed 12/08/2020 | 51 | 43 | 43 | 41 | 43 | 36 |
| Thu 13/08/2020 | 51 | 44 | 44 | 41 | 43 | 35 |
| Fri 14/08/2020 | 51 | 41 | 41 | 37 | 40 | 34 |
| Sat 15/08/2020 | 48 | 43 | 40 | 38 | 38 | 33 |
| Sun 16/08/2020 | 43 | 40 | 39 | 35 | 45 | 40 |
| Mon 17/08/2020 | 53 | 45 | 44 | 37 | 44 | 38 |
| Tue 18/08/2020 | 54 | 47 | 47 | 46 | 44 | 34 |
| Wed 19/08/2020 | 55 | 49 | 51 | 47 | 52 | 44 |
| Thu 20/08/2020 | 58 | 53 | 57 | 53 | 53 | 47 |
| Fri 21/08/2020 | 61 | 52 | 50 | 49 | 44 | 36 |
| Sat 22/08/2020 | 52 | 50 | 48 | 44 | 40 | 35 |
| Sun 23/08/2020 | 53 | 46 | 46 | 45 | 40 | 32 |

Table 4: NM1 results

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00 T = 4h | 0-23:00 | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Mon 24/08/2020 | 53 | 48 | 48 | 43 | 55 | 51 |
| Tue 25/08/2020 | 74 | 52 | 66 | 48 | 57 | 38 |
| Wed 26/08/2020 | 57 | 46 | - | - | - | - |
| Summary | 54 | 44 | 48 | 38 | 46 | 35 |

Table 5: NM2 results

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Wed 12/08/2020 | 45 | 43 | 44 | 41 | 41 | 36 |
| Thu 13/08/2020 | 56 | 41 | 46 | 44 | 39 | 29 |
| Fri 14/08/2020 | 48 | 43 | 46 | 38 | 37 | 24 |
| Sat 15/08/2020 | 47 | 46 | 54 | 42 | 35 | 22 |
| Sun 16/08/2020 | 44 | 41 | 42 | 38 | 39 | 30 |
| Mon 17/08/2020 | 48 | 41 | 44 | 32 | 40 | 27 |
| Tue 18/08/2020 | 50 | 47 | 49 | 47 | 44 | 28 |
| Wed 19/08/2020 | 53 | 52 | 52 | 48 | 55 | 52 |
| Thu 20/08/2020 | 57 | 55 | 58 | 53 | 54 | 50 |
| Fri 21/08/2020 | 54 | 52 | 49 | 49 | 42 | 32 |
| Sat 22/08/2020 | 50 | 49 | 45 | 42 | 56 | 27 |
| Sun 23/08/2020 | 48 | 46 | - | - | - | - |
| Summary | 50 | 42 | 48 | 39 | 44 | 29 |

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-----------------------------------|--------------------|-----------------------------|--------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode La90,15min |
| Tue 15/09/2020 | 63 | 55 | 58 | 51 | 55 | 42 |
| Wed 16/09/2020 | 62 | 57 | 59 | 55 | 55 | 42 |
| Thu 17/09/2020 | 62 | 55 | 60 | 56 | 55 | 43 |
| Fri 18/09/2020 | 64 | 58 | 61 | 58 | 54 | 42 |
| Sat 19/09/2020 | 64 | 59 | 59 | 56 | 51 | 40 |
| Sun 20/09/2020 | 61 | 58 | 59 | 56 | 55 | 40 |
| Mon 21/09/2020 | 62 | 55 | 58 | 54 | 55 | 40 |
| Tue 22/09/2020 | 62 | 57 | - | - | - | - |
| Summary | 62 | 58 | 59 | 56 | 54 | 42 |

Table 6: NM3 results

Table 7: NM4 results

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Wed 12/08/2020 | 39 | 36 | 37 | 36 | 39 | 34 |
| Thu 13/08/2020 | 44 | 36 | 37 | 36 | 35 | 33 |
| Fri 14/08/2020 | 46 | 36 | 38 | 36 | 35 | 31 |
| Sat 15/08/2020 | 40 | 36 | 36 | 34 | 36 | 31 |
| Sun 16/08/2020 | 40 | 33 | 43 | 32 | 42 | 37 |
| Mon 17/08/2020 | 45 | 40 | 41 | 37 | 39 | 35 |
| Tue 18/08/2020 | 46 | 43 | 43 | 39 | 42 | 34 |
| Wed 19/08/2020 | 48 | 46 | 47 | 45 | 53 | 48 |
| Summary | 44 | 36 | 41 | 36 | 40 | 31 |

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Tue 08/09/2020 | 50 | 47 | 47 | 44 | 46 | 38 |
| Wed 09/09/2020 | 53 | 50 | 49 | 47 | 46 | 30 |
| Thu 10/09/2020 | 55 | 52 | 48 | 45 | 46 | 33 |
| Fri 11/09/2020 | 52 | 48 | 50 | 47 | 45 | 36 |
| Sat 12/09/2020 | 55 | 49 | 52 | 46 | 52 | 39 |
| Sun 13/09/2020 | 53 | 49 | 48 | 47 | 44 | 32 |
| Mon 14/09/2020 | 46 | 36 | 47 | 35 | 41 | 28 |
| Tue 15/09/2020 | 50 | 49 | 48 | 49 | 44 | 27 |
| Wed 16/09/2020 | 50 | 38 | 49 | 47 | 41 | 31 |
| Thu 17/09/2020 | 44 | 32 | 48 | 45 | 44 | 27 |
| Fri 18/09/2020 | 53 | 49 | 51 | 47 | 44 | 40 |
| Sat 19/09/2020 | 51 | 48 | 49 | 48 | 42 | 35 |
| Sun 20/09/2020 | 48 | 43 | 49 | 48 | 47 | 27 |
| Mon 21/09/2020 | 49 | 40 | 47 | 44 | 44 | 23 |
| Tue 22/09/2020 | 54 | 50 | - | - | - | - |
| Summary | 51 | 49 | 49 | 47 | 45 | 38 |

Table 8: NM5 results

Table 9: NM6 results

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Tue 08/09/2020 | 55 | 49 | 47 | 48 | 46 | 33 |
| Wed 09/09/2020 | 54 | 50 | 51 | 47 | 49 | 29 |
| Thu 10/09/2020 | 55 | 51 | 50 | 47 | 48 | 36 |
| Fri 11/09/2020 | 56 | 52 | 53 | 48 | 47 | 30 |
| Sat 12/09/2020 | 56 | 52 | 54 | 49 | 50 | 39 |
| Sun 13/09/2020 | 57 | 54 | 52 | 50 | 47 | 29 |
| Mon 14/09/2020 | 52 | 48 | 49 | 46 | 51 | 29 |
| Tue 15/09/2020 | 54 | 51 | 50 | 49 | 47 | 31 |
| Wed 16/09/2020 | 54 | 47 | 51 | 48 | 46 | 31 |
| Thu 17/09/2020 | 52 | 47 | 51 | 47 | 47 | 33 |

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Fri 18/09/2020 | 56 | 51 | 53 | 50 | 46 | 35 |
| Sat 19/09/2020 | 54 | 52 | 51 | 39 | 43 | 34 |
| Sun 20/09/2020 | 53 | 49 | 51 | 48 | 49 | 31 |
| Mon 21/09/2020 | 53 | 46 | 50 | 46 | 47 | 23 |
| Tue 22/09/2020 | 55 | 51 | - | - | - | - |
| Summary | 55 | 52 | 51 | 48 | 47 | 29 |

Table 10: NM7 results

| Period start | LAeq,15min | LA90,15min |
|------------------|------------|------------|
| 14/09/2020 14:32 | 59 | 44 |
| 14/09/2020 14:47 | 64 | 52 |
| 14/09/2020 15:02 | 63 | 45 |
| 14/09/2020 15:17 | 65 | 44 |
| Summary | 63 | 46 |

Table 11: NM8 results

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Tue 08/09/2020 | 50 | 45 | 44 | 43 | 48 | 38 |
| Wed 09/09/2020 | 53 | 51 | 52 | 50 | 50 | 32 |
| Thu 10/09/2020 | 52 | 45 | 46 | 45 | 45 | 34 |
| Fri 11/09/2020 | 50 | 48 | 49 | 46 | 45 | 32 |
| Sat 12/09/2020 | 52 | 47 | 49 | 46 | 50 | 41 |
| Sun 13/09/2020 | 53 | 48 | 46 | 46 | 42 | 34 |
| Mon 14/09/2020 | 43 | 36 | 46 | 43 | 43 | 28 |
| Tue 15/09/2020 | 49 | 43 | - | - | - | - |
| Summary | 50 | 48 | 47 | 46 | 46 | 33 |

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-----------------------------------|--------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode L _{A90,15min} |
| Tue 08/09/2020 | 57 | 49 | 51 | 47 | 50 | 39 |
| Wed 09/09/2020 | 55 | 49 | 52 | 49 | 49 | 40 |
| Thu 10/09/2020 | 66 | 51 | 52 | 48 | 49 | 37 |
| Fri 11/09/2020 | 59 | 50 | 55 | 43 | 47 | 39 |
| Sat 12/09/2020 | 57 | 51 | 52 | 47 | 46 | 40 |
| Sun 13/09/2020 | 56 | 50 | 51 | 42 | 50 | 36 |
| Mon 14/09/2020 | 55 | 47 | 51 | 43 | 50 | 41 |
| Tue 15/09/2020 | 55 | 51 | - | - | - | - |
| Summary | 58 | 51 | 52 | 43 | 49 | 40 |

Table 12: NM9 results

Table 13: NM10 results

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Tue 08/09/2020 | 45 | 42 | 40 | 37 | 45 | 27 |
| Wed 09/09/2020 | 49 | 40 | 51 | 42 | 48 | 22 |
| Thu 10/09/2020 | 49 | 40 | 39 | 35 | 38 | 27 |
| Fri 11/09/2020 | 48 | 42 | 42 | 30 | 40 | 26 |
| Sat 12/09/2020 | 48 | 41 | 44 | 39 | 40 | 34 |
| Sun 13/09/2020 | 50 | 42 | 42 | 37 | 37 | 27 |
| Mon 14/09/2020 | 46 | 38 | 49 | 41 | 46 | 30 |
| Tue 15/09/2020 | 48 | 39 | 49 | 47 | 49 | 32 |
| Summary | 48 | 42 | 46 | 37 | 42 | 27 |

| Date | Day 07:00-19:00 T = 12h | | Evening 19:00- 23:00 T = 4h | | Night 23:00-07:00 T = 8h | |
|----------------|----------------------------|--------------------|-----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| | L _{Aeq,T} | Mode La90,15min | L _{Aeq,T} | Mode L _{A90,15min} | L _{Aeq,T} | Mode L _{A90,15min} |
| Wed 12/08/2020 | 54 | 50 | 52 | 48 | 50 | 38 |
| Thu 13/08/2020 | 54 | 50 | 52 | 49 | 49 | 37 |
| Fri 14/08/2020 | 54 | 51 | 51 | 49 | 45 | 24 |
| Sat 15/08/2020 | 49 | 45 | 48 | 45 | 44 | 35 |
| Sun 16/08/2020 | 53 | 50 | 51 | 44 | 47 | 35 |
| Mon 17/08/2020 | 53 | 48 | 48 | 35 | 48 | 27 |
| Tue 18/08/2020 | 52 | 49 | 51 | 48 | 43 | 38 |
| Summary | 53 | 46 | 50 | 40 | 47 | 27 |

Table 14: NM11 results

Table 15: NM12 results

| Period start | L _{Aeq,15min} | L _{A90,15min} |
|------------------|------------------------|------------------------|
| 14/09/2020 16:13 | 71 | 59 |
| 14/09/2020 16:28 | 71 | 60 |
| 14/09/2020 16:43 | 70 | 56 |
| 14/09/2020 16:58 | 70 | 58 |
| Summary | 70 | 58 |

Table 16: NM13 results

| Period start | L _{Aeq,15min} | LA90,15min |
|------------------|------------------------|------------|
| 14/09/2020 17:26 | 57 | 42 |
| 14/09/2020 17:41 | 57 | 42 |
| 14/09/2020 17:56 | 59 | 42 |
| 14/09/2020 18:11 | 57 | 40 |
| Summary | 57 | 41 |

NG4 Screening

The NG4 Guidance Note for Noise (January 2016) sets appropriate noise criteria for new license applications with the Environmental Protection Agency (EPA) Office of Environmental Enforcement (OEE). While the OGI substation does not fall within the NG4 schedule of activities, the noise limit criteria have been considered as relevant upper thresholds for the EIAR operational noise assessment. These are set based on screening criteria for 'Quiet Areas' and 'Areas of Low Background Noise'.

Step 1 – Quiet Area Screening of the Development Location

The substation site and sensitive receptors are 1-3 km from Arklow Town, which is an urban area of over 10,000 people, therefore this area cannot be considered a 'Quiet Area'.

Step 2 – Baseline Environmental Noise Survey

The methodology and results of the baseline survey are outlined in this appendix. Measurements at NM1, NM2, NM3 and NM4 are representative of the nearest sensitive receptors to noise from the operational substation.

Step 3 – Screen Areas of Low Background Noise

If all three of the below criteria are satisfied for any measurement location then those locations are deemed to be in areas of 'low background noise:

- Average Daytime Background Noise Level \leq 40dB L_{AF90}, and;
- Average Evening Background Noise Level \leq 35dB L_{AF90}, and;
- Average Night-time Background Noise Level \leq 30dB L_{AF90}.

It can be seen in **Table 17** below, that night-time noise levels measured at NM2 are below the criteria for 'Areas of Low Background Noise'. However, daytime and evening background noise levels are above the criteria and therefore, NM2 is not considered an 'Area of Low Background Noise'. NM1, NM3 and NM4 are above the criteria at all periods of the day and therefore are also not classified as 'Areas of Low Background Noise'.

| Monitoring | Daytime | Evening | Night |
|------------|------------|------------|------------|
| location | LA90,15min | LA90,15min | LA90,15min |
| NM1 | 44 | 38 | 35 |
| NM2 | 42 | 39 | 29 |
| NM3 | 58 | 56 | 42 |
| NM4 | 36 | 36 | 31 |

Table 17: Low Background Noise Screening

Conclusion of Screening

The substation site and nearby receptors are not defined as 'Quiet Areas' or 'Areas of Low Background Noise' and are therefore defined as 'All Other Areas'. The limits in Table 18 are applicable for 'All other Areas'.

Table 18: NG4 Recommended Noise Limit Criteria – 'All other Areas'

| Daytime Noise, dB L _{Ar,T} | Evening Noise, dB L _{Ar,T} | Night Noise, dB L _{Ar,T} |
|-------------------------------------|-------------------------------------|-----------------------------------|
| (07:00 – 19:00) | (19:00-23:00) | (23:00-07:00) |
| 55 | 50 | 45 |