

High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Technical appendices

CA4: Whitmore Heath to Madeley

Sound, noise and vibration report (SV-002-004)

July 2017 ES 3.5.2.4.13



High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Technical appendices

CA4: Whitmore Heath to Madeley

Sound, noise and vibration report (SV-002-004)



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A report prepared for High Speed Two (HS2) Limited:





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1 Introduction

- 1.1.1 This document is part of the sound, noise and vibration Appendix to the sound, noise and vibration assessment.
- 1.1.2 The appendices are split into two sections:
 - the first of these is a single document containing an introduction to the relevant route-wide methodology, assumptions and assessment (Volume 5: Appendix SV-001-000) and relates to the sound, noise and vibration assessment for all community areas (CA); and
 - the second is split across five documents, one per CA, and contains the detailed sound, noise and vibration levels for that CA.
- This document relates to the Whitmore Heath to Madeley community area (CA₄), and contains the detailed baseline, construction and operational sound noise and vibration levels.
- 1.1.4 The outcomes of the sound, noise and vibration assessment are summarised in Volume 2: Community area reports.
- 1.1.5 Maps referred to throughout the sound, noise and vibration appendices are contained in the Volume 5: Sound, Noise and Vibration Map Book.

2 Scope, assumptions and limitations

2.1 Regional and local policy guidance

The policy framework for sound, noise and vibration is set out in Volume 1¹ and in Volume 5: Appendix SV-001-000. As part of the engagement with local authorities, where the Proposed Scheme would operate, information regarding any specific local planning guidance in respect of noise and vibration were requested. For the Whitmore Heath to Madeley area the guidance within the Stoke-on-Trent and Newcastle-under-Lyme Joint Local Plan Issues Consultation Document² has been considered as part of formulating the detailed application of the impact and significance criteria set out in Volume 5: Appendix SV-001-000, the Scope and Methodology Report (SMR) and the SMR Addendum³.

2.2 Engagement

- 2.2.1 Details of engagement on a route-wide basis with the local and county authorities' Environmental Health Practitioners is set out in Volume 1.
- 2.2.2 Meetings⁴ have been held with representatives of Newcastle-Under-Lyme Borough Council (NBC) and Staffordshire County Council regarding the approach which has been taken to baseline monitoring within this area, the identification of noise and vibration sensitive receptors, the selection of assessment locations and to discuss the development of the mitigation to be included in the Proposed Scheme.
- 2.2.3 Changes suggested during these meetings have influenced the assessment locations used and the monitoring undertaken and reported in this appendix. NBC officers were invited to attend baseline sound measurements in this area and witness the measurement procedures used.
- 2.2.4 Local engagement through the working draft Environmental Impact Assessment (EIA)
 Report consultation provided the opportunity for local stakeholders to suggest
 appropriate baseline sound monitoring locations, building uses and review of the draft
 list of non-residential properties to be considered in the assessment.

2.3 Methodology

2.3.1 The methodology used for the assessment of airborne sound, ground-borne sound and vibration impacts and the determination of significant effects is defined in the SMR and the SMR. Further information is contained in Volume 5: Appendix SV-001-000.

2.4 Assumptions

2.4.1 Route-wide assumptions are outlined in Volume 1 and are further detailed in Volume 5: Appendix SV-001-000. Local assumptions that apply to the assessment of

¹ See Environmental Statement Volume 1, Introduction to the Environmental Statement

² Stoke-on-Trent and Newcastle-under-Lyme (2016), *Joint Local Plan Issues Consultation Document*, https://www.newcastle-staffs.gov.uk/sites/default/files/IMCE/Planning/Planning_Policy/Joint%20Local%20Plan%20Issues%20Consultation%20Document_o.pdf.

Environmental Impact Assessment Scope and Methodology Report, Volume 5: Appendix CT-001-001 and Environmental Impact Assessment Scope and Methodology Report Addendum, Volume 5: Appendix CT-001-002

⁴ Meetings held on 22 April 2016, 5 July 2016 and 13 October 2016

construction sound noise and vibration within this area are set out Volume 2, Whitmore Heath to Madeley (CA Report 4), Section 13.

2.5 Limitations

2.5.1 The route-wide limitations and the approach adopted to ensure that they will not impact the robust assessment of sound, noise and vibration are presented in Volume 5: Appendix SV-001-000 and Volume 2.

3 Baseline

3.1 Existing acoustic environment

- The area is characterised by a mix of small towns, villages, hamlets and isolated residential properties in a predominantly rural setting. The sound environment is generally dominated by local and distant road traffic, with trains (on the West Coast Main Line (WCML)), overflying aircraft, local neighbourhood sources and natural sounds also contributing.
- 3.1.2 There are several busy main roads within this community area including the A53 Newcastle Road which runs through Baldwin's Gate and Whitmore and the A525 Bar Hill Road which runs through Madeley. The Stafford to Crewe section of the WCML runs through Baldwin's Gate and Madeley.
- The community of Whitmore is characterised by sound from the A53 Whitmore Road / Newcastle Road which runs through the town, where daytime sound levels are typically around 6odB daytime and 55dB night-time for those dwellings facing the A53 Whitmore Road / Newcastle Road. Further from the A53 Whitmore Road / Newcastle Road sound from local roads and from the A53 Whitmore Road / Newcastle Road produce levels between 4odB and 5odB daytime and 35dB to 45dB night-time.
- The community of Baldwin's Gate is characterised by sound from the A53 Newcastle Road and WCML which run through the town. Closest to these existing noise sources daytime sound levels are typically around 6odB daytime and 55dB night-time. Further from the A53 Newcastle Road and the railway, sound from local roads. The railway and from the A53 Newcastle Road produce levels between 4odB and 5odB daytime and 3odB to 4odB night-time.
- The community of Whitmore Heath has low existing sound levels as it is removed major roads. Trains from the WCML are audible on the west of the Heath. Existing sound levels are between 35dB and 45dB during the daytime and between 35dB and 4odB during the night-time.
- The community of Madeley Park Wood is located approximately 200m west of the WCML which runs north to south past the community. Daytime sound levels at properties closest to the WCML are typically around 55dB daytime and 50dB night-time for those dwellings facing the railway. Within Madeley Park Wood, sound from local roads and from the WCML produce levels between 40dB and 50dB daytime and 40dB to 45dB night-time.
- The properties along the A525 Bar Hill Road are characterised by sound from the A525 Bar Hill Road which runs through the community, where daytime sound levels are typically around 55dB to 6odB daytime and 45dB to 5odB night-time for those dwellings facing the road.
- 3.1.8 The community of Madeley is characterised by sound from the WCML which runs north to south past the community. Daytime sound levels at properties closest to the WCML are typically around 65dB daytime and 6odB night-time for those dwellings facing the railway. Within the town, sound from local roads, the A525 Bar Hill Road and the WCML produce levels between 4odB and 5odB daytime and 35dB to 45dB night-time.

3.2 Existing baseline sound monitoring locations

- 3.2.1 Baseline monitoring locations have been defined in order to provide representative sound levels at each assessment location within the study area. Baseline information has been gathered incrementally through successive rounds of field surveys focused on locations where likely significant effects are forecast.
- 3.2.2 Areas within the study area where baseline data is required have been divided into a series of smaller sub-areas. Each of these sub-areas is representative of clusters of receptors where the noise climate is influenced by the same sound sources. Within each of the sub-areas, a programme of unattended monitoring has been undertaken, supplemented by attended observations to ensure identification of the contributing sources to the sound climate at the measurement locations. All attended observations have been undertaken simultaneously with the unattended measurements to allow a direct comparison between assessment locations to be established.
- 3.2.3 Maps showing the baseline sound monitoring locations and assessment locations with this area are included in Map Series SV-03 and SV-04 (Volume 5: Sound, Noise and Vibration Map Book).

3.3 Existing baseline data collection methodology

- 3.3.1 The overall approach to baseline data collection for sound noise and vibration is described in Volume 5, Appendix SV-001-000. In summary, the approach to defining baseline levels includes a mixture of sound monitoring and for major transport noise sources sound modelling verified using results from sound monitoring.
- 3.3.2 Within the Whitmore Heath to Madeley area, 20 locations have been defined to represent all sound and vibration sensitive receptors within the spatial scope of the assessment. The assessment locations are shown on the detailed maps in Map Series SV-03 and SV-04 (Volume 5: Sound, Noise and Vibration Map Book). These measurement locations have been classified as follows:
 - five long-term measurements unattended measurements of several days duration; and
 - fifteen medium-term measurements attended measurements typically of 24 hours duration.

3.4 Existing baseline sound levels

- 3.4.1 From the measurements described in Section 3.1, baseline sound levels have been ascertained for each assessment location within this area. These levels are presented in terms of the following key sound indicators:
 - baseline levels used for the operational sound assessment:
 - L_{pAeq,16hr} weekday daytime (07:00-23:00) sound pressure level;
 - L_{pAeq,8hr} weekday night-time (23:00-07:00) sound pressure level;
 - arithmetic average of L_{pAFmax,5min} night-time sound pressure level; and
 - highest L_{pAFmax,5min} night-time sound pressure level.

- baseline levels used for the construction sound assessment:
 - daytime L_{pAeq} sound pressure level (Monday to Friday 07:00-19:00; Saturday 07:00-13:00);
 - evening/weekend L_{pAeq} sound pressure level (Monday to Friday 19:00-23:00, Saturday 13:00-23:00 and Sunday 07:00-23:00); and
 - night-time L_{pAeq} sound pressure level (Monday to Sunday 23:00-07:00).
- These values are presented in Table 1. The data source coding included within this table details how the baseline sound levels allocated to each assessment location have been derived. This coding is summarised in Table 2 and explained in detail in Volume 5: Appendix SV-001-000. Codes contained within parentheses relate to the derivation of night-time baseline noise levels where they are different to the daytime levels.

Table 1: Existing baseline sound levels

| Assessr | ment location | Measurement | Existing ba | seline soun | d levels (dB) | | | | | Data source |
|---------|--|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 8378 | Snape Hall Farm, Snape Hall Road, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, b |
| 8388 | Bar Hill House Farm, Bar Hill | ML167 | 48 | 37 | 54 | 58 | 49 | 40 | 37 | 3, A, i, c |
| 8427 | Hey House & Edland Kennels/Cattery, Madeley | - | 46 | 42 | 58 | 77 | 46 | 45 | 42 | 4, C, -, b |
| 8482 | Stableford Caravan Park #1 | - | 60 | 57 | 63 | 84 | 60 | 59 | 57 | 4, C, -, b |
| 8483 | Stableford Caravan Park #2 | - | 53 | 50 | 63 | 84 | 53 | 52 | 50 | 4, C, -, b |
| 8486 | Offley Almshouses, Madeley | - | 73 | 68 | 70 | 88 | 73 | 72 | 68 | 4, A, -, b |
| 14002 | New House Farmhouse, Acton | ML118 | 56 | 42 | 55 | 84 | 57 | 53 | 42 | 2, A, iii, c |
| 14006 | Stableford Caravan Park | ML715 | 57 | 47 | 63 | 84 | 60 | 57 | 47 | 5(2), C(A), ii, b |
| 14007 | Stableford Court, Stableford | ML715 | 63 | 57 | 63 | 84 | 64 | 58 | 57 | 5, C, ii, c |
| 14008 | Chorlton Brook Cottage, Hill Chorlton | - | 60 | 56 | 59 | 81 | 60 | 59 | 56 | 4, C, -, b |
| 14009 | Chorlton Mill Farm, Stableford | - | 55 | 51 | 59 | 81 | 55 | 54 | 51 | 4, C, -, b |
| 14011 | Holmcroft, Stableford | - | 49 | 45 | 59 | 81 | 49 | 48 | 45 | 4, C, -, b |
| 14012 | Cloud End, Hill Chorlton | - | 60 | 56 | 59 | 81 | 60 | 59 | 56 | 4, C, -, b |

| Assessi | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|---|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|------------|
| | | location | For operati | onal sound | assessment | | For constru assessment | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14013 | Weston Lodge, Stableford | - | 49 | 43 | 53 | 71 | 51 | 45 | 43 | 5, A, -, c |
| 14014 | Oaklands, Whitmore | - | 49 | 43 | 62 | 72 | 50 | 42 | 43 | 3, A, -, b |
| 14015 | Whitmore Hall: Dwellings And Committed Development 13/00403/FUL | - | 47 | 43 | 62 | 72 | 48 | 42 | 43 | 3, C, -, b |
| 14017 | Smithfield Cottages, Whitmore | - | 58 | 53 | 62 | 72 | 59 | 52 | 53 | 3, A, -, b |
| 14018 | St Mary's & All Saints' Church, Whitmore | - | 54 | 51 | 62 | 72 | 55 | 49 | 51 | 3, C, -, b |
| 14019 | Church Farm, Whitmore | - | 49 | 46 | 62 | 72 | 50 | 44 | 46 | 3, C, -, b |
| 14020 | The Mainwaring Arms, Whitmore | - | 65 | 61 | 62 | 72 | 66 | 60 | 61 | 3, A, -, b |
| 14021 | North Staffordshire Hunts' Kennels, Hill Chorlton | - | 37 | 33 | 53 | 71 | 39 | 35 | 33 | 5, A, -, c |
| 14022 | The Delves, Hill Chorlton | - | 44 | 40 | 53 | 71 | 44 | 43 | 40 | 4, C, -, b |
| 14023 | Harfield, Hill Chorlton | - | 49 | 45 | 53 | 71 | 49 | 48 | 45 | 4, C, -, b |
| 14024 | Smithy Lane, Whitmore | - | 57 | 53 | 62 | 72 | 58 | 52 | 53 | 3, A, -, b |
| 14025 | Whitmore Cricket Ground, Whitmore | - | 46 | 45 | 62 | 72 | 47 | 41 | 45 | 3, C, -, b |
| 14026 | Whitmore Lea, Whitmore | - | 53 | 49 | 62 | 72 | 54 | 48 | 49 | 3, C, -, b |

| Assessr | nent location | Measurement | Existing ba | | Data source | | | | | |
|---------|---------------------------------|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound t | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14027 | The Old Parsonage, Whitmore | - | 41 | 38 | 62 | 72 | 42 | 36 | 38 | 3, C, -, b |
| 14028 | The Grooms House, Hill Chorlton | ML121 | 42 | 35 | 45 | 56 | 43 | 39 | 35 | 2, BD, ii, c |
| 14030 | Hawthorne Hill, Whitmore | - | 45 | 41 | 62 | 72 | 46 | 40 | 41 | 3, C, -, b |
| 14032 | Jennings Farm, Hill Chorlton | ML121 | 42 | 35 | 45 | 56 | 43 | 39 | 35 | 2, B, ii, b |
| 14033 | The Old Rectory, Whitmore | - | 48 | 44 | 62 | 72 | 49 | 43 | 44 | 3, C, -, b |
| 14035 | The Hill, Whitmore | - | 50 | 46 | 62 | 72 | 51 | 45 | 46 | 3, C, -, b |
| 14036 | Chapel House, Hill Chorlton | ML121 | 49 | 42 | 45 | 56 | 50 | 46 | 42 | 2, A, i, b |
| 14037 | Stone Road, Hill Chorlton | - | 39 | 35 | 45 | 56 | 41 | 37 | 35 | 5, A, -, c |
| 14038 | Coneygreave Farmhouse, Whitmore | ML171 | 48 | 38 | 50 | 64 | 50 | 46 | 38 | 5(2), C(A), i, b |
| 14039 | Appleton Drive, Whitmore | - | 57 | 54 | 58 | 77 | 57 | 56 | 54 | 4, C, -, b |
| 14041 | Heath Road, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a |
| 14043 | Heath Road, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, |
| 14044 | Coneygreave Lane, Whitmore | ML171 | 43 | 38 | 50 | 64 | 46 | 42 | 38 | 5(2), C(A), ii, b |

| Assessr | nent location | Measurement | Existing ba | seline soun | d levels (dB) | | | | | Data source | |
|---------|---------------------------------|------------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-------------------|--|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding | |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | | |
| 14045 | Dab Green, Whitmore | ML68 | 43 | 43 | 60 | 90 | 43 | 43 | 43 | 2, A, i, a | |
| 14046 | Heath Road, Whitmore | ML172 | 44 | 38 | 51 | 76 | 44 | 43 | 38 | 1, A, i, a | |
| 14047 | Heath Rise, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a | |
| 14048 | Whitmore Village Hall, Whitmore | ML171 | 45 | 38 | 50 | 64 | 47 | 43 | 38 | 5(2), C(A), ii, b | |
| 14050 | Common Lane, Whitmore | - | 61 | 58 | 62 | 72 | 62 | 56 | 58 | 3, A, -, b | |
| 14051 | Heath Road, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a | |
| 14052 | Stratharran, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, | |
| 14053 | Coneygreave Lane, Whitmore | ML173 | 56 | 48 | 62 | 72 | 57 | 53 | 48 | 2, B, iii, C | |
| 14054 | Heath Road, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a | |
| 14055 | Heath Road, Whitmore | ML ₅₉ | 44 | 40 | 53 | 88 | 44 | 42 | 40 | 1, A, i, a | |
| 14056 | Wyndways, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a | |
| 14057 | Heath Road, Whitmore | ML ₅₉ | 44 | 40 | 53 | 88 | 44 | 42 | 40 | 1, A, ii, b | |
| 14058 | Sandy Ridge, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a | |

| Assessi | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|---------------------------------|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-----------------------|
| | | location | For operati | onal sound | assessment | | For constru assessment | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14059 | Common Farm, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, |
| 14060 | Fair-Green Road, Baldwin's Gate | - | 61 | 58 | 63 | 84 | 61 | 60 | 58 | 4, A, -, b |
| 14061 | Appleton Drive, Whitmore | ML171 | 54 | 38 | 50 | 64 | 56 | 51 | 38 | 5(2), C(A), ii, b |
| 14062 | Hunters Way, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a |
| 14063 | Fair-Green Road, Baldwin's Gate | - | 47 | 44 | 50 | 64 | 47 | 46 | 44 | 4, C, -, b |
| 14065 | Appleton Drive, Whitmore | ML171 | 56 | 38 | 50 | 64 | 58 | 53 | 38 | 5(2), C(A), ii, b |
| 14066 | The Willows, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a |
| 14067 | The Willows, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a |
| 14068 | Kepplestone, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a |
| 14069 | Kepplestone, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a |
| 14070 | Snape Hall Close, Whitmore | ML171 | 46 | 38 | 50 | 64 | 49 | 46 | 38 | 5(2), C(A), iii, b |
| 14071 | The Nook, Whitmore Heath | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, i, a |
| 14072 | Chorlton Moss Cottage | ML114 | 36 | 32 | 45 | 56 | 38 | 33 | 32 | 5, C, -, c |

| Assessi | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|---|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-----------------------|
| | | location | For operati | onal sound | assessment | | For constru assessment | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14073 | The Chimes, Baldwin's Gate | - | 65 | 62 | 63 | 84 | 68 | 65 | 62 | 5(4), A, -, b |
| 14074 | West Ridge, Birch Tree Lane, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a |
| 14075 | Birch Tree Lane, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a |
| 14076 | Baldwin's Gate Church Of England Primary School | ML171 | 51 | 38 | 50 | 64 | 54 | 50 | 38 | 5(2), C(A), iii, b |
| 14077 | Birch Tree Lane, Whitmore | - | 40 | 36 | 52 | 83 | 40 | 39 | 36 | 4, C, -, b |
| 14078 | Snape Hall Road, Whitmore | - | 47 | 44 | 53 | 88 | 47 | 46 | 44 | 4, C, -, b |
| 14079 | Birch Tree Lane, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a |
| 14080 | Station Cottages, Baldwin's Gate | - | 65 | 62 | 63 | 84 | 65 | 64 | 62 | 4, A, -, b |
| 14081 | Lea Close, Baldwin's Gate | ML171 | 46 | 38 | 50 | 64 | 49 | 45 | 38 | 5(2), C(A), iii, b |
| 14082 | Birch Tree Lane, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, a |
| 14083 | Tollgate House, Baldwin's Gate | - | 60 | 56 | 62 | 72 | 61 | 56 | 56 | 3, C, -, c |
| 14084 | Hillview Crescent, Baldwin's Gate | - | 65 | 61 | 63 | 84 | 65 | 64 | 61 | 4, A, -, b |
| 14085 | Hillview Crescent, Baldwin's Gate | - | 54 | 51 | 58 | 77 | 54 | 53 | 51 | 4, C, -, b |

| Assessi | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|---|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-----------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14086 | Snape Hall Road, Whitmore | - | 46 | 43 | 52 | 83 | 46 | 45 | 43 | 4, C, -, b |
| 14087 | Snape Hall Cottage, Snape Hall Road, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, b |
| 14088 | Woodberry/Foxdene, Snape Hall Road, Whitmore | - | 42 | 38 | 52 | 83 | 42 | 41 | 38 | 4, C, -, b |
| 14090 | Snape Hall Road, Whitmore | ML138 | 44 | 40 | 52 | 83 | 43 | 41 | 40 | 1, A, ii, b |
| 14091 | Sandyfields, Baldwin's Gate | ML171 | 48 | 38 | 50 | 64 | 50 | 46 | 38 | 5(2), C(A), iii, b |
| 14094 | Snape Hall Farm, Snape Hall Road, Whitmore | - | 37 | 34 | 52 | 83 | 37 | 36 | 34 | 4, C, -, b |
| 14098 | Walls Wood, Baldwin's Gate | - | 55 | 52 | 58 | 77 | 55 | 54 | 52 | 4, C, -, b |
| 14099 | Walls Wood, Baldwin's Gate | - | 54 | 50 | 53 | 72 | 54 | 53 | 50 | 4, C, -, b |
| 14100 | Netherset Lane, Madeley | ML89 | 45 | 40 | 51 | 82 | 46 | 43 | 40 | 2, A, i, a |
| 14101 | Park Wood Drive, Baldwin's Gate | - | 54 | 50 | 53 | 72 | 54 | 53 | 50 | 4, C, -, b |
| 14102 | Park Wood Drive, Baldwin's Gate | - | 51 | 47 | 53 | 72 | 51 | 50 | 47 | 4, C, -, b |
| 14103 | Eastwood Rise, Baldwin's Gate | - | 50 | 47 | 53 | 72 | 50 | 49 | 47 | 4, C, -, b |
| 14104 | Park Wood Drive, Baldwin's Gate | - | 47 | 43 | 53 | 72 | 47 | 46 | 43 | 4, C, -, b |

| Assessi | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|---------------------------------|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14105 | Manor Glade, Baldwin's Gate | - | 46 | 42 | 53 | 72 | 46 | 45 | 42 | 6, A, ii, c |
| 14106 | Eastwood Rise, Baldwin's Gate | - | 50 | 46 | 53 | 72 | 50 | 49 | 46 | 4, C, -, b |
| 14108 | Netherset Lane, Madeley | ML89 | 45 | 40 | 51 | 82 | 46 | 43 | 40 | 2, A, ii, a |
| 14110 | Park Wood Drive, Baldwin's Gate | - | 46 | 42 | 53 | 72 | 46 | 45 | 42 | 4, C, -, b |
| 14111 | Eastwood Rise, Baldwin's Gate | - | 46 | 43 | 53 | 72 | 46 | 45 | 43 | 4, C, -, b |
| 14112 | Manor Road, Madeley | - | 47 | 43 | 53 | 72 | 47 | 46 | 43 | 4, C, -, b |
| 14113 | Manor Road, Baldwin's Gate | - | 46 | 42 | 53 | 72 | 46 | 45 | 42 | 6, A, ii, c |
| 14114 | Manor Road, Baldwin's Gate | ML152 | 43 | 36 | 53 | 72 | 44 | 35 | 36 | 3(6), C(A), iii, |
| 14115 | Manor Road, Madeley | - | 46 | 42 | 53 | 72 | 46 | 45 | 42 | 6, A, ii, c |
| 14116 | Manor Road, Madeley | ML170 | 44 | 42 | 53 | 72 | 45 | 40 | 42 | 2, A, ii, b |
| 14118 | Knightley, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 6, A, iii, c |
| 14119 | Castle Lane, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 6, A, ii, c |
| 14120 | Manor Road, Madeley | ML170 | 44 | 42 | 53 | 72 | 45 | 40 | 42 | 2, A, i, a |

| Assessr | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|--------------------------------|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14121 | Dwelling At Hey House, Madeley | - | 40 | 35 | 58 | 77 | 43 | 39 | 35 | 5(4), C, -, c |
| 14122 | Birches Farm Mews, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 6, A, ii, c |
| 14123 | Pastoral Close, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 6, A, ii, c |
| 14125 | Pastoral Close, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 6, A, ii, c |
| 14127 | Castle Lane, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 6, A, ii, c |
| 14128 | Vicarage Lane, Madeley | - | 48 | 44 | 50 | 67 | 51 | 47 | 44 | 5, C, -, c |
| 14129 | The Holborn, Madeley | - | 53 | 45 | 59 | 81 | 54 | 49 | 45 | 3(5), A(C), -, c |
| 14130 | Madeley Cemetery, Madeley | - | 55 | 50 | 58 | 77 | 58 | 54 | 50 | 5(4), C, -, c |
| 14131 | Manor Road, Madeley | ML49 | 53 | 42 | 51 | 79 | 54 | 46 | 42 | 3(5), A(C), i, c |
| 14132 | Vicarage Lane, Madeley | - | 49 | 42 | 50 | 67 | 51 | 46 | 42 | 5, C, -, c |
| 14137 | Poolside, Madeley | ML169 | 63 | 39 | 51 | 69 | 64 | 58 | 39 | 3(2), C, iii, c |
| 14138 | All Saints' Church, Madeley | - | 57 | 48 | 50 | 67 | 58 | 53 | 48 | 5, C, -, c |
| 14140 | Willow Brook, Madeley | - | 46 | 40 | 50 | 67 | 48 | 45 | 40 | 5, C, -, c |

| Assessr | ment location | Measurement | Existing ba | | Data source | | | | | |
|---------|--|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|---------------------------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound t | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14141 | Woore Road, Madeley | - | 50 | 47 | 50 | 67 | 50 | 49 | 47 | 4, C, -, b |
| 14142 | Station Road, Madeley | - | 60 | 57 | 63 | 84 | 60 | 59 | 57 | 4, C, -, b |
| 14144 | Smithy Corner, Madeley | - | 58 | 52 | 63 | 84 | 60 | 55 | 52 | 5, C, -, c |
| 14145 | Madeley Allotment, Madeley | - | 61 | 58 | 59 | 81 | 61 | 60 | 58 | 4, C, -, b |
| 14146 | Haywood Court, Madeley | - | 58 | 53 | 63 | 84 | 61 | 57 | 53 | 5(4) , C , - , c |
| 14147 | Unreal Paintball Site, Manor Farm, Manor Road, Madeley | ML49 | 46 | 39 | 51 | 79 | 47 | 42 | 39 | 1, A, i, a |
| 14148 | Haywood Court, Madeley | - | 70 | 66 | 69 | 87 | 70 | 69 | 66 | 4, A, -, b |
| 14149 | Cherry Hill, Madeley | - | 41 | 36 | 50 | 67 | 44 | 41 | 36 | 5(4), C, -, c |
| 14150 | Moss Lane, Madeley | - | 68 | 64 | 66 | 84 | 68 | 67 | 64 | 4, A, -, b |
| 14151 | Morningside, Madeley | - | 46 | 43 | 50 | 67 | 46 | 45 | 43 | 4, C, -, b |
| 14152 | Sir John Offley Church Of England Primary School, Madeley | - | 57 | 53 | 63 | 84 | 57 | 56 | 53 | 4, C, -, b |
| 14153 | Moss Lane, Madeley | - | 42 | 34 | 50 | 67 | 43 | 41 | 34 | 5, A, -, c |
| 14155 | John Offley Road, Madeley | - | 52 | 49 | 50 | 67 | 52 | 51 | 49 | 4, C, -, b |

| Assessr | nent location | Measurement | Existing ba | seline soun | d levels (dB) | | | | | Data source |
|---------|-------------------------------|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|---------------------------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14156 | River Lea Mews, Madeley | - | 37 | 31 | 50 | 67 | 38 | 35 | 31 | 5, C, -, c |
| 14157 | Morningside, Madeley | - | 42 | 37 | 50 | 67 | 45 | 42 | 37 | 5(4), C, -, c |
| 14158 | Mallard Close, Madeley | - | 53 | 43 | 59 | 81 | 54 | 50 | 45 | 7, C, , c |
| 14160 | John Offley Road, Madeley | - | 47 | 44 | 50 | 67 | 47 | 46 | 44 | 4, C, -, b |
| 14161 | Bar Hill, Madeley | - | 52 | 49 | 59 | 81 | 52 | 51 | 49 | 4, C, -, b |
| 14162 | Moss Lane, Madeley | - | 65 | 61 | 63 | 84 | 65 | 64 | 61 | 4, A, -, b |
| 14163 | Bar Hill, Madeley | ML169 | 59 | 51 | 59 | 81 | 60 | 53 | 51 | 3(5), A, i, c |
| 14164 | Morningside, Madeley | - | 45 | 39 | 50 | 67 | 47 | 45 | 39 | 5, C, -, c |
| 14165 | Bar Hill, Madeley | ML168 | 51 | 43 | 59 | 81 | 52 | 46 | 43 | 5, A, i, c |
| 14166 | Charles Cotton Drive, Madeley | - | 39 | 35 | 50 | 67 | 42 | 39 | 35 | 5, C, -, c |
| 14167 | Moss Lane GP Surgery | - | 48 | 43 | 50 | 67 | 50 | 49 | 43 | 5, C, -, c |
| 14168 | Moss Lane, Madeley | - | 60 | 57 | 63 | 84 | 60 | 59 | 57 | 4, C, -, b |
| 14169 | Moss Lane, Madeley | - | 49 | 44 | 50 | 67 | 52 | 50 | 44 | 5(4) , C , - , c |

| Assessr | nent location | Measurement | Existing ba | seline soun | d levels (dB) | | | | | Data source |
|---------|--------------------------|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14170 | Moss Lane, Madeley | - | 66 | 62 | 63 | 84 | 66 | 65 | 62 | 4, A, -, b |
| 14171 | Bar Hill, Madeley | ML168 | 56 | 45 | 59 | 81 | 57 | 48 | 45 | 3(1), C(B), ii, b |
| 14172 | Heather Glade, Madeley | - | 37 | 32 | 50 | 67 | 39 | 37 | 32 | 5, C, -, c |
| 14173 | Pear Tree Drive, Madeley | - | 41 | 36 | 50 | 67 | 44 | 41 | 36 | 5(4), C, -, c |
| 14174 | The Bridle Path, Madeley | - | 43 | 40 | 50 | 67 | 43 | 42 | 40 | 4, C, -, b |
| 14176 | The Bridle Path, Madeley | - | 42 | 38 | 50 | 67 | 42 | 41 | 38 | 4, C, -, b |
| 14177 | The Bridle Path, Madeley | - | 46 | 43 | 50 | 67 | 46 | 45 | 43 | 4, C, -, b |
| 14178 | Bower End Lane, Madeley | - | 65 | 62 | 63 | 84 | 65 | 64 | 62 | 4, A, -, b |
| 14179 | The Bridle Path, Madeley | - | 40 | 36 | 50 | 67 | 43 | 40 | 36 | 5(4), C, -, c |
| 14180 | Bar Hill, Madeley | ML168 | 55 | 44 | 59 | 81 | 56 | 47 | 44 | 3, C(B), ii, c |
| 14182 | Furnace Lane, Madeley | ML113 | 47 | 45 | 55 | 65 | 48 | 43 | 45 | 2, B, iii, c |
| 14183 | 86 Bar Hill, Madeley | ML168 | 52 | 39 | 59 | 81 | 53 | 44 | 39 | 3(1), C(B), i, a |
| 14184 | Moss House Farm, Madeley | - | 51 | 47 | 54 | 90 | 51 | 50 | 47 | 4, C, -, b |

| Assessr | nent location | Measurement | Existing ba | seline soun | d levels (dB) | | | | | Data source |
|---------|--|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|-------------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound t | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14185 | Bower End Lane, Madeley | ML166 | 48 | 35 | 48 | 61 | 45 | 51 | 35 | 2, A, i, a |
| 14187 | Bar Hill, Madeley | ML167 | 43 | 41 | 54 | 58 | 44 | 41 | 41 | 2, A, i, a |
| 14189 | Bower End Lane, Madeley | ML113 | 48 | 46 | 55 | 65 | 49 | 44 | 46 | 2, A, i, a |
| 14190 | Bar Hill, Madeley | ML66 | 43 | 33 | 48 | 72 | 44 | 38 | 33 | 2, A, i, a |
| 14192 | Bower End Lane, Madeley | ML40 | 39 | 33 | 44 | 71 | 38 | 39 | 33 | 2, A, ii, b |
| 14195 | Mill Lane, Wrinehill | - | 47 | 44 | 45 | 56 | 47 | 46 | 44 | 4, C, -, b |
| 14199 | School Lane, Onneley | ML40 | 39 | 33 | 44 | 71 | 38 | 39 | 33 | 2, A, i, a |
| 14200 | Wrinehill Hall Farm, Mill Lane, Wrinehill | - | 36 | 33 | 56 | 77 | 36 | 35 | 33 | 4, C, -, b |
| 14203 | Wrinehill Gardens, Wrinehill Hall, Wrinehill | - | 35 | 31 | 56 | 77 | 35 | 34 | 31 | 4, C, -, b |
| 14204 | Wrinehill Mill Farm, Wrinehill | - | 44 | 40 | 56 | 77 | 44 | 43 | 40 | 4, C, -, b |
| 14205 | Wrinehill Mill, Wrinehill | - | 48 | 45 | 56 | 77 | 48 | 47 | 45 | 4, C, -, b |
| 14206 | Sheet Anchor Pub, Baldwin's Gate | ML171 | 58 | 38 | 50 | 64 | 60 | 55 | 38 | 5(2), C(A), ii, b |
| 14207 | Whitmore Post Office, Baldwin's Gate | ML171 | 66 | 38 | 50 | 64 | 69 | 65 | 38 | 5(2), C(A), ii, b |

| Assessr | ment location | Measurement | | | d levels (dB) | | | | | Data source |
|---------|---|-------------|-----------------------------------|---|---|---|-----------------------------------|--|--------------------------------------|-------------------|
| | | location | For operati | onal sound | assessment | | For construction sound assessment | | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14208 | Snape Hall Farmhouse, Snape Hall Road, Whitmore Heath | - | 48 | 45 | 52 | 83 | 48 | 47 | 45 | 4, C, -, b |
| 14209 | Old Madeley Manor (Off Manor Road), Madeley | ML170 | 44 | 42 | 53 | 72 | 45 | 40 | 42 | 2, A, ii, b |
| 14210 | Manor Farmhouse, Madeley / CD Ref: 10/00108/FUL | ML49 | 46 | 39 | 51 | 79 | 47 | 42 | 39 | 1, A, i, a |
| 14211 | Offley Well Head, Madeley | - | 58 | 55 | 59 | 81 | 58 | 57 | 55 | 4, C, -, b |
| 14212 | Madeley White Star Football Club, Madeley | - | 52 | 48 | 59 | 81 | 52 | 51 | 48 | 4, C, -, b |
| 14213 | Hillview Crescent, Baldwin's Gate (CD Ref.: 13/00426/OUT) | - | 61 | 58 | 63 | 84 | 61 | 60 | 58 | 4, C, -, b |
| 14214 | Appleton Drive, Whitmore (CD Ref.: 13/00145/OUT) | ML171 | 59 | 38 | 50 | 64 | 61 | 56 | 38 | 5(2), C(A), ii, b |
| 14215 | Birch Tree Lane, Whitmore (CD Ref.: 15/00281/FUL) | - | 46 | 43 | 52 | 83 | 46 | 45 | 43 | 4, C, -, b |
| 14216 | Haywood Court, Madeley (CD Ref.: 15/00277/FUL) | - | 71 | 66 | 69 | 87 | 71 | 70 | 66 | 4, A, -, b |
| 14217 | Moss Lane, Madeley (CD Ref.: 14/00691/FUL) | - | 71 | 67 | 70 | 89 | 71 | 70 | 67 | 4, A, -, b |
| 14218 | Moss Lane, Madeley (CD Ref.: 12/00028/FUL) | - | 71 | 67 | 70 | 88 | 71 | 70 | 67 | 4, A, -, b |
| 14219 | The Bridle Path, Madeley (CD Ref.: 13/00990/OUT) | - | 50 | 47 | 54 | 90 | 50 | 49 | 47 | 4, C, -, b |
| 14220 | Whitmore Arms | - | 42 | 38 | 62 | 72 | 43 | 37 | 38 | 3, C, -, b |

| Assessr | ment location | Measurement | Existing ba | seline soun | d levels (dB) | | | | | Data source |
|---------|--|-------------|-----------------------------------|---|---|---|-------------------------------|--|--------------------------------------|--------------|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | |
| 14222 | Snape Hall Road, Whitmore | - | 56 | 53 | 58 | 77 | 56 | 55 | 53 | 4, C, -, b |
| 14223 | Walls Wood, Baldwins Gate | - | 56 | 53 | 58 | 77 | 56 | 55 | 53 | 4, C, -, b |
| 14224 | The Old Rectory, Whitmore | - | 44 | 40 | 62 | 72 | 45 | 39 | 40 | 3, C, -, b |
| 14225 | Netherset Lane, Madeley | ML89 | 45 | 40 | 51 | 82 | 46 | 43 | 40 | 2, A, ii, b |
| 14226 | Baldwin's Gate Sandstone Hills And Heaths #1 | - | 43 | 39 | 53 | 71 | 46 | 43 | 39 | 5, C, -, b |
| 14227 | Manor Road, Madeley | - | 46 | 42 | 53 | 72 | 46 | 45 | 42 | 6, A, ii, c |
| 14228 | Netherset Lane, Madeley | ML89 | 44 | 40 | 51 | 82 | 45 | 42 | 40 | 2, A, iii, c |
| 14229 | Bar Hill, Madeley | ML167 | 35 | 33 | 54 | 58 | 36 | 33 | 33 | 2, B, iii, c |
| 14230 | Bar Hill, Madeley | ML167 | 34 | 32 | 54 | 58 | 35 | 32 | 32 | 2, B, iii, c |
| 14231 | Mill Lane, Wrinehill | ML40 | 39 | 33 | 44 | 71 | 38 | 39 | 33 | 2, A, iii, c |
| 14232 | School Lane, Onneley | ML40 | 39 | 33 | 44 | 71 | 38 | 39 | 33 | 2, A, iii, c |
| 14233 | Woodcroft, Red Lane, Madeley | - | 52 | 48 | 59 | 81 | 52 | 51 | 48 | 4, C, -, b |
| 14234 | Monument Lodge, Manor Road, Madeley | - | 61 | 58 | 59 | 81 | 61 | 60 | 58 | 4, C, -, b |

| Assessi | ment location | Measurement | Existing baseline sound levels (dB) | | | | | | | | | |
|---------|---|-------------|-------------------------------------|---|---|---|-------------------------------|--|--------------------------------------|---------------|--|--|
| | | location | For operati | onal sound | assessment | | For constru | ction sound | | coding | | |
| Ref | Area represented | | Daytime L _{pAeq,16hr} | Night- time L _{pAeq,8hr} | Arithmetic average L _{pAFmax,5min} | Highest night-time L _{pAFmax,5min} | Daytime, L _{pAeq} | Evening / weekend, L _{pAeq} | Night- time, L _{pAeq} | | | |
| 14235 | Station Road, Madeley | - | 73 | 68 | 70 | 88 | 73 | 72 | 68 | 4, A, -, b | | |
| 14237 | Rowley House, Moss Lane, Madeley (CD Ref: 14/00009/FUL) | - | 49 | 44 | 50 | 67 | 52 | 50 | 44 | 5(4), C, -, c | | |
| 14238 | Moss Farm, Bower End Lane, Madeley (CD Ref: 14/00132/FUL) | - | 51 | 47 | 54 | 90 | 51 | 50 | 47 | 4, C, -, b | | |
| 14239 | The Moss, Moss Lane, Madeley (CD Ref: 14/00299/OUT) | - | 66 | 62 | 63 | 84 | 66 | 65 | 62 | 4, A, -, b | | |
| 14240 | Manor Road, Madeley | ML49 | 46 | 39 | 51 | 79 | 47 | 42 | 39 | 1, A, i, a | | |
| 14241 | The Brackens, Heath Road, Whitmore Heath | ML172 | 44 | 38 | 51 | 76 | 44 | 43 | 38 | 1, A, i, a | | |

Table 2: Data source coding key

| Data source type |
|--|
| Long-term measurement location (c. 7 days) |
| Short-term (c. 24 hours) |
| Specific road traffic validated prediction |
| Specific rail traffic validated prediction |
| Specific combined road and rail traffic validated prediction |
| Levels adopted from nearby assessment location |
| Corrections applied |
| Data from above source applied directly |
| Correction applied for distance from source |
| Correction applied for downwind conditions |
| Minimum level cut-off applied |
| Distance from measurement |
| Data applied from a measurement at or very close to the assessment location. |
| Data applied from a local measurement location at a greater distance but noted to have equivalent acoustic climate. |
| Data applied from a distant measurement location where sound levels would be expected to be similar. |
| Uncertainty |
| Data are considered highly representative of the prevailing sound climate. |
| Data are considered representative of the prevailing sound climate, but uncertainties and/or variations in measured levels indicate that there may be a higher degree of uncertainty than for (a). |
| Data are considered to be an estimate of the sound climate due to assumptions made. |
| |

3.5 Future baseline methodology

Construction

3.5.1 The assessment of noise from construction activities assumes a future baseline year of 2020. As a conservative assumption it has been assumed that no change in baseline sound levels will occur between the existing baseline (2016) and the future baseline year of 2020.

Operation

- 3.5.2 Future baseline sound levels for operation (2027) have been calculated to account for changes in baseline sound sources between the date of the existing baseline sound levels and 2027. Changes in existing sound sources between 2016 and 2027 may result in changes to baseline sound levels.
- 3.5.3 For major transportation sources, data for existing and future baseline operations have been reviewed. Where changes may occur between the existing baseline and future baseline (2027) situations which may influence the assessment of likely significant effects, expected changes in baseline sound levels have been derived. For example, expected changes in traffic flow, composition and speed have been used to calculate changes in sound emission from roads using the methodology from the Calculation of Road Traffic Noise⁵.
- 3.5.4 The changes to major sound sources which have been identified in this area are summarised in Table 3.

Table 3: 2027 future baseline sound levels

| Sound source affected | Cause of change in levels | Change in sound levels (existing baseline to 2027 future baseline (dB)) | | | | | | | |
|--|---------------------------|---|-----------------------|--|--|--|--|--|--|
| | | Daytime, LpAeq,16hr | Night-time, LpAeq,8hr | | | | | | |
| A53 Newcastle Road, through Baldwins Gate | Increased traffic flow | 0.8 | 0.5 | | | | | | |

⁵ DoT memorandum, Calculation of road traffic noise, 1988

4 Construction

4.1 Evaluation of impacts and effects

- 4.1.1 This appendix provides a quantitative assessment of construction noise and vibration impacts/effects and a qualitative assessment of likely significant effects, based on the impacts/effects identified and other local context information consistent with the scope and methodology defined for the Proposed Scheme.
- Indirect effects arising from temporary changes in traffic patterns on the existing road network as a consequence of constructing the Proposed Scheme are also reported, where they are likely to occur within the study area as defined in Volume 5: Appendix SV-001-000.
- In undertaking the assessment of sound, noise and vibration, consistent with the EIA Directive⁶ and National Planning Practice Guidance⁷ a differentiation between impacts and effects, adverse effects and significant effects is made. Further information is provided in Volume 5: Appendix SV-001-000.
- 4.1.4 The assessment of impacts and effects has been undertaken at assessment locations that are representative of a number of dwellings or other sensitive receptors. The construction assessment locations employed in this assessment are presented on Map Series SV-03 in the Volume 5: Sound, Noise and Vibration Map Book.
- 4.1.5 Baseline sound level data has been collected at locations representative of the airborne sound-sensitive receptors and presented in Table 1.

4.2 Effects during construction

Introduction

- The assessment is reported first for ground-borne vibration and then for airborne sound. Under each of these headings, the results of the quantitative identification of impacts, effects and significant effects are presented. The significant effects and the evidence used to support these conclusions are presented in Volume 2, Whitmore Heath to Madeley (CA Report 4), Section 13.
- 4.2.2 The structure of this section of the assessment report is:
 - avoidance and mitigation measures; and
 - quantitative identification of impact and effects:
 - ground-borne sound and vibration:
 - residential; and
 - non-residential.

⁶ European Commission (2014), EC Directive 85/337/EEC, as amended by 97/11/EC, 2003/35/EC, 2011/92/EC and 2014/52/EU ('the EIA Directive')

⁷ National Planning Practice Guidance – Noise, http://planningguidance.planningportal.gov.uk; refer to the table summarising noise exposure hierarchy

- Airborne sound:
 - residential; and
 - non-residential

Avoidance and mitigation measures

4.2.3 These are set out in, Volume 2, Whitmore Heath to Madeley (CA Report 4), Section 13.

Quantitative identification of impacts and effects

Ground-borne vibration

- 4.2.4 Assessment locations defined for the quantitative assessment of impacts are shown on Map Series SV-03 in the Volume 5: Sound, Noise and Vibration Map Book.
- For each assessment location, the assessment results for residential and non-residential receptors are presented in Table 5. Explanation of the information in Table 5, Table 6 and Table 7 is provided in Volume 5: Appendix SV-001-000, with the following additional notes in Table 4.

Table 4: Explanatory notes for assessment results - direct construction effects

| Symbol | Explanation |
|--------|--|
| | Where the significant effect column is highlighted, then a significant effect is identified at the referenced community, or individual receptor |
| | Yellow denotes a low ground-borne noise impact or a minor ground-borne vibration impact |
| | Orange denotes a medium ground-borne noise impact or a moderate ground-borne vibration impact |
| | Red denotes a high ground-borne noise impact or a major ground-borne vibration impact |
| | Dark red denotes a very high ground-borne noise impact |
| * | Significant effect - the quantitative impact methodology has identified an impact at this receptor which, based upon further qualitative receptor information, (see assessment text) does not gives rise to a significant effect |
| ~ | When considered under the significance criteria set out in Appendix SV-001-000, Annex A, Section 1.3, these adverse effects are not considered to be significant on a community basis |
| A | Sound levels from HS2 exceed Lowest Observed Adverse Effect Level (LOAEL): the significance criteria set out in Appendix SV001-000, Annex A, Section 1.3 are considered when establishing significant effects |
| S | Sound levels from HS2 exceed Significant Observed Adverse Effect Level (SOAEL): noise insulation (or temporary rehousing at higher noise levels) therefore provided |
| NA | Sound levels from HS2 do not exceed Lowest Observed Adverse Effect Level (LOAEL), therefore generally no adverse effect |
| В | Type of receptor - residential |
| R | Type of receptor - residential |

| Symbol | Explanation |
|----------|---|
| G1-G5 | Type of receptor - (G1) theatres, large auditoria and concert halls, (G2) sound recording and broadcast studios, (G3) places of meeting for religious worship, courts, cinemas, lecture theatres, museums and small auditoria or halls, (G4) schools, colleges, hospitals, hotels and libraries, and (G5) offices and general commercial premises |
| V1-V4 | Type of receptor - (V1) vibration sensitive research and manufacturing, hospital, and university equipment, (V2) hotels, hospital wards and education dormitories, (V3) offices, schools and places of worship, (V4) workshops |
| Т | Receptor design - typical |
| S | Receptor design - special |
| Н | Existing environment - high existing ambient noise levels, day >75 dB, evening >65 dB or night >55 dB _{LpAeq} at the facade |
| L | Existing environment - low existing ambient noise levels, day and evening ≤45 dB, or night ≤35 dB _{LpAeq} at the facade |
| D,E,N | Impact duration (months) - duration of impact during the day (D), evening (E) or night (N) |
| О, СТ, V | Combined Impact: If impacts from other construction activities occur at this location: Onsite activities (O), off-site construction traffic activities (CT), or construction Vibration (V) |
| NI | Mitigation effect - identified as likely to qualify for noise insulation under the Draft Code of Construction Practice (CoCP) ⁸ |
| TR | Mitigation effect - identified as likely to qualify for temporary rehousing under the Draft CoCP |

⁸ Draft Code of Construction Practice, Volume 5: Appendix CT-003-000

Table 5: Assessment of construction induced ground-borne vibration at residential and non-residential receptors

| Assessr | nent location | Impact criter | ia | | | Signif | icance cri | teria | | | | | | | |
|---------|---------------------------|---|---|----------|--|----------------|-------------------------------------|------------------|-----------------|----------------------|----------------|-----------------|------------------------|-------------------|--------------------|
| Ref. | Area represented | Peak particle velocity (PPV) [mm/s] on foundation | Typical/high monthly indoor vibrat value (VDV) Day 0700-2300 | ion dose | Construction activity resulting in highest forecast vibration levels | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Impact duration [m] | Mitigation effect | Significant effect |
| 14035 | The Hill, Whitmore | 0.3 | 0.24/0.37 | - | Piling | А | 1 | R | Т | - | - | - | Up to 3 | - | ~ |
| 14041 | Heath Road, Whitmore | 0.2 | 0.07/0.10 | - | Underground utility diversion | NA | 1 | R | Т | - | - | - | - | - | |
| 14050 | Common Lane, Whitmore | 1 | 0.03/<0.89 | - | Underground utility diversion | А | 9 | R | Т | - | - | - | 0.2 | - | 10 |
| 14087 | Snape Hall Road, Whitmore | 5.5 | 0.09/<0.89 | - | Road construction | А | 2 | R | Т | - | - | - | 1 | - | ~ |
| 14094 | Snape Hall Road, Whitmore | 6.8 | 0.16/<0.89 | - | Underground utility diversion | А | 1 | R | Т | - | ı | - | 0.2 | - | 10 |
| 14120 | Manor Road, Madeley | 0.5 | 0.11/0.40 | - | Underground utility diversion | А | 1 | R | Т | - | ı | - | 0.2 | - | 10 |
| 14131 | Manor Road, Madeley | 3.6 | 0.01/<0.89 | - | Road construction | Α | 1 | R | Т | - | 1 | - | 1 | - | ~ |
| 14171 | Bar Hill, Madeley | 3.3 | 0.05/<0.89 | - | Road construction | Α | 16 | R | Т | - | 1 | - | 0.5 | - | 10 |
| 14180 | Bar Hill, Madeley | 6.4 | 0.09/<0.89 | - | Underground utility diversion | А | 5 | R | Т | - | - | - | 0.2 | - | 10 |
| 14183 | 86 Bar Hill, Madeley | 0.3 | 0.13/0.19 | - | Underground utility diversion | NA | 2 | R | Т | - | - | - | 0.2 | - | |
| 14184 | Moss House Farm, Madeley | 1.2 | 0.05/<0.89 | - | Underground utility diversion | А | 5 | R | Т | - | - | - | 0.2 | - | 10 |

⁹ Construction methods will be selected to ensure that the on a monthly basis the significant adverse effect level is not exceeded ¹⁰ Impacts with durations of less than 1 month are not generally considered significant

| Assessi | ment location | Impact criter | ia | | | Signif | ficance cri | teria | | | | | | | |
|---------|---------------------------------|---|--|----------|---|----------------|-------------------------------|------------------|-----------------|----------------------|----------------|-----------------|------------------------|-------------------|--------------------|
| Ref. | Area represented | Peak particle velocity (PPV) [mm/s] on foundation | Typical/highe monthly indoor vibrat value (VDV) [Day 0700-2300 | ion dose | Construction activity resulting in highest forecast vibration levels | lype of effect | Number of impacts represented | Type of receptor | Receptor design | Existing environment | Jnique feature | Combined impact | Impact duration [m] | Mitigation effect | Significant effect |
| 14185 | Bower End Lane, Madeley | 0.3 | 0.19/0.27 | - | Piling | A | 4 | R | Т | - | - | - | Up to 3 | _ | ~ |
| 14189 | Bower End Lane, Madeley | 3.3 | 0.04/<0.89 | - | Road construction | А | 1 | R | Т | - | - | - | 0.75 | - | 10 |
| 14233 | Woodcroft, Red Lane, Madeley | 1.8 | o.o8/ <o.8<sup>9</o.8<sup> | - | Road construction | Α | 1 | R | Т | - | - | - | 0.75 | - | 10 |

Airborne sound: direct impacts and effects

- 4.2.6 Activities associated with the construction phases of the Proposed Scheme will generate airborne noise. The assessment of the likely impacts and significant effects as a result of the construction noise has considered the effects on:
 - residential receptors, both as individual dwellings and communities; and
 - non-residential receptors, including quiet areas.
- For each type of receptor, subject to the screening distances identified, and based upon supplied plant information from engineers, the typical and highest monthly $L_{Aeq,T}$ noise levels from construction activities have been calculated at the façade of all assessment locations, which are representative of a number of receptors in the study area.
- The assessment results, impact criteria and significance criteria for the assessment of the scheme at residential and non-residential receptors are presented in Table 6 and Table 7 respectively.
- 4.2.9 Explanation of the information within Table 6 and Table 7 is provided in Volume 5: Appendix SV-001-000, with the additional notes presented in Table 4.

Table 6: Assessment of construction noise at residential receptors

| Assessment location | | Impact criteria | | | | Significance criteria | | | | | | | | | |
|---------------------|--|--|--------------------------|------------------------|---|-----------------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/highest monthly outdoor L _{pAeq} [dB] at the facade [assessment category A/B/C] | | | Construction activity resulting in highest forecast noise levels | t | of impacts ted | eptor | ssign | vironment | ure | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 8482 | Stableford Caravan Park #1 | 46/50 [B] | - | - | Day: On-site traffic | NA | 15 | R | Т | - | - | - | - | - | |
| 8483 | Stableford Caravan Park #2 | 46/50 [A] | - | - | Day: On-site traffic | NA | 22 | R | Т | - | - | - | - | - | |
| 14002 | New House Farmhouse, Acton | 49/54 [A] | <45 | 37/39 [B] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 3 | R | Т | - | - | - | - | - | |
| 14006 | Stableford Caravan Park #3 | 46/50 [A] | - | - | Day: On- site traffic | NA | 29 | R | Т | - | - | - | - | - | |
| 14007 | Stableford Court, Stableford | 47/51 [B] | - | - | Day: On- site traffic | NA | 11 | R | Т | - | - | - | - | - | |
| 14008 | Chorlton Brook Cottage, Hill Chorlton | 52/56 [B] | - | - | Day: Earthworks | NA | 2 | R | Т | - | - | - | - | - | |
| 14009 | Chorlton Mill Farm, Stableford | 52/56 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |
| 14011 | Holmcroft, Stableford | 49/53 [A] | - | - | Day: On- site traffic | NA | 7 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|--|----------------------|---|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | t | of impacts ted | eptor | esign | vironment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14012 | Cloud End, Hill Chorlton | 57/61 [B] | <45 | 36/38 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 1 | R | Т | - | - | - | - | - | |
| 14013 | Weston Lodge, Stableford | 46/50 [A] | - | - | Day: On- site traffic | NA | 1 | R | Т | - | - | - | - | - | |
| 14014 | Oaklands, Whitmore | 56/61 [A] | <45 | 40/42 [B] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 3 | R | Т | - | - | - | - | - | |
| 14015 | Whitmore Hall: Dwellings and CD ref.:13/00403/FUL | 49/54 [A] | - | - | Day: Haul road setup | NA | 6 | R | Т | - | - | - | - | - | |
| 14017 | Smithfield Cottages, Whitmore | 53/58 [A] | <45 | 34/37 [C] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 10 | R | Т | - | - | - | - | - | |
| 14019 | Church Farm, Whitmore | 55/6o [A] | <45 | 37/40 [C] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 1 | R | Т | - | - | - | - | - | |
| 14022 | The Delves, Hill Chorlton | 55/59 [A] | <45 | 37/39 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|------------------------------------|----------------------|---|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | outdoor L | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | act | of impacts ted | eptor | esign | Existing environment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14023 | Harfield, Hill Chorlton | 58/63 [A] | <45 | 38/40 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14024 | Smithy Lane, Whitmore | 53/59 [A] | - | - | Day: Haul road setup | NA | 3 | R | Т | - | - | - | - | - | |
| 14026 | Whitmore Lea, Whitmore | 57/63 [A] | <45 | 36/39 [C] | Day: Haul road setup / Night: Tunnelling / tunnelling support | NA | 3 | R | Т | - | - | - | - | - | |
| 14027 | The Old Parsonage, Whitmore | 46/52 [A] | - | - | Day: On- site traffic | NA | 1 | R | Т | - | - | - | - | - | |
| 14028 | The Grooms House, Hill Chorlton | 51/56 [A] | <45 | 36/39 [A] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 4 | R | Т | - | - | - | - | - | |
| 14030 | Hawthorne Hill, Whitmore | 57/62 [A] | <45 | 36/39 [B] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14032 | Jennings Farm, Hill Chorlton | 49/54 [A] | <45 | 35/38 [A] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 4 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | :eria | | | Signi | ficance cri | teria | | | | | | | |
|---------|------------------------------------|--|--------------------------|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at t | the | Construction activity resulting in highest forecast noise levels | ect | of impacts ited | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14033 | The Old Rectory, Whitmore | 61/67 [A] | 47/49 [A] | 47/49 [B] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | D4 | - | - | ~ |
| 14035 | The Hill, Whitmore | 61/66 [A] | 51/53 [A] | 51/53 [C] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | D1 | - | - | ~ |
| 14036 | Chapel House, Hill Chorlton | 51/55 [A] | <45 | 36/38 [B] | Day: Haul road setup Night: Tunnelling / tunnelling support | NA | 5 | R | Т | - | - | - | - | - | |
| 14037 | Stone Road, Hill Chorlton | 51/55 [A] | <45 | 36/38 [A] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 1 | R | Т | - | - | - | - | - | |
| 14038 | Coneygreave Farmhouse, Whitmore | 58/63 [A] | 46/48 [A] | 46/48 [A] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | N ₇ | - | - | ~ |
| 14039 | Appleton Drive, Whitmore | 49/54 [A] | - | - | Day: Planting | NA | 15 | R | Т | - | - | - | - | - | |
| 14041 | Heath Road, Whitmore | 58/64 [A] | - | - | Day: Haul road setup | NA | 1 | R | Т | - | - | - | - | - | |

| Assessr | nent location | Impact crit | eria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|---|----------------------|---|------------------------|---|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | outdoor L | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | act | impacts d | eptor | esign | Existing environment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14043 | Heath Road, Whitmore | 57/61 [A] | 43/45 [A] | 43/45 [B] | Day: Haul road setup Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14044 | Coneygreave Lane, Whitmore | 53/59 [A] | - | - | Day: Planting | NA | 11 | R | Т | - | - | - | - | - | |
| 14045 | Dab Green, Whitmore | 44/49 [A] | - | - | Day: On-site traffic | NA | 2 | R | Т | - | - | - | - | - | |
| 14046 | Heath Road, Whitmore | 58/62 [A] | 51/54 [A] | 51/54 [A] | Day: Excavation and prop installation Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | N10 | - | - | ~ |
| 14047 | Broadlands, Heath Rise, Whitmore Heath | 54/59 [A] | 43/45 [A] | 43/45 [B] | Day: Haul road setup Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 1 | R | Т | - | - | - | - | - | |
| 14050 | Common Lane, Whitmore | 6o/66 [B] | 46/49 [C] | 46/49 [C] | Day: Underground utility diversion Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 9 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | eria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|-------------------------------|--|--------------------------|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at t | the | Construction activity resulting in highest forecast noise levels | ect | of impacts ted | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14051 | Heath Road, Whitmore | 61/65 [A] | - | - | Day: Earthworks | Α | 2 | R | Т | - | - | D1 | - | - | ~ |
| 14052 | Heath Road, Whitmore Heath | 49/55 [A] | - | - | Day: Earthworks | NA | 2 | R | Т | - | - | - | - | - | |
| 14053 | Coneygreave Lane, Whitmore | 50/55 [A] | - | - | Day: Planting | NA | 8 | R | Т | - | - | - | - | - | |
| 14054 | Heath Road, Whitmore | 57/62 [A] | 50/52 [A] | 50/52 [B] | Day: Excavation and prop installation Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | N6 | - | - | ~ |
| 14055 | Heath Road, Whitmore | 55/60 [A] | 47/49 [A] | 47/49 [B] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 5 | R | Т | - | - | - | - | - | |
| 14056 | Wyndways, Whitmore Heath | 48/54 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |
| 14057 | Heath Road, Whitmore | 56/61 [A] | 47/49 [A] | 47/49 [B] | Day: Underground utility diversion Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 1 | R | Т | - | - | - | - | - | |

| Assessr | nent location | Impact crit | eria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|------------------------------------|--|--------------------------|------------------------|---|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at | the | Construction activity resulting in highest forecast noise levels | ti | impacts d | eptor | esign | vironment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14058 | Sandy Ridge, Whitmore Heath | 51/56 [A] | - | - | Day: On-site traffic | NA | 1 | R | Т | - | - | - | - | - | |
| 14059 | Common Farm, Whitmore Heath | 54/59 [A] | - | - | Day: Haul road setup | NA | 2 | R | Т | - | - | - | - | - | |
| 14060 | Fair-Green Road, Baldwin's Gate | 47/52 [B] | - | - | Day: On- site traffic | NA | 24 | R | Т | - | - | - | - | - | |
| 14061 | Appleton Drive, Whitmore | 48/52 [A] | - | 33/36 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 4 | R | Т | - | - | - | - | - | |
| 14062 | Hunters Way, Whitmore Heath | 56/61 [A] | - | - | Day: Excavation and prop installation | NA | 1 | R | Т | - | - | - | - | - | |
| 14063 | Fair-Green Road, Baldwin's Gate | 46/52 [A] | - | - | Day: On-site traffic | NA | 23 | R | Т | - | - | - | - | - | |
| 14065 | Appleton Drive, Whitmore | 49/53 [A] | <45 | 33/36 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 10 | R | Т | - | - | - | - | - | |
| 14066 | The Willows, Whitmore Heath | 58/64 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | eria: | | | Signi | ficance cri | iteria | | | | | | | |
|---------|--|--|--------------------------|------------------------|--|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at t | the | Construction activity resulting in highest forecast noise levels | t a | of impacts ited | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14067 | The Dingle, Whitmore Heath | 56/60 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |
| 14068 | Kepplestone, Whitmore Heath | 64/69 [A] | <45 | 34/39 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | D19 | - | - | CSV04-C01 |
| 14069 | Fernridge / Mandarin House, Whitmore Heath | 64/69 [A] | - | - | Day: Earthworks | A | 3 | R | Т | - | - | D21 | - | - | CSV04-C01 |
| 14070 | Snape Hall Close, Whitmore | 47/52 [A] | - | - | Day: On-site traffic | NA | 10 | R | Т | - | - | - | - | - | |
| 14071 | The Nook / Tree Tops, Whitmore Heath | 54/59 [A] | - | - | Day: On-site traffic | NA | 2 | R | Т | - | - | - | - | - | |
| 14072 | Chorlton Moss Cottage, Baldwin's Gate | 48/52 [A] | - | - | Day: Earthworks | NA | 6 | R | Т | - | - | - | - | - | |
| 14073 | The Chimes, Baldwin's Gate | 49/53 [C] | - | - | Day: Earthworks | NA | 5 | R | Т | - | - | - | - | - | |
| 14074 | West Ridge, Birch Tree Lane, Whitmore Heath | 6o/6 ₅ [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | D19 | - | - | CSV04- Co1 |

| Assessn | nent location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|---------------------------------------|----------------------|---|------------------------|--|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ta | of impacts ted | eptor | esign | Existing environment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14075 | Birch Tree Lane, Whitmore | 56/60 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |
| 14077 | Birch Tree Lane, Whitmore | 56/6o [A] | - | - | Day: On-site traffic | NA | 2 | R | Т | - | - | - | - | - | |
| 14078 | Snape Hall Road, Whitmore | 46/51 [A] | - | - | Day: Earthworks | NA | 8 | R | Т | - | - | - | - | - | |
| 14079 | Birch Tree Lane, Whitmore | 61/65 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | D19 | СТ | - | CSV04-C01 |
| 14080 | 1 Station Cottages, Baldwin's Gate | 50/54 [C] | <45 | 32/36 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 9 | R | Т | - | - | - | - | - | |
| 14081 | Lea Close, Baldwin's Gate | 47/51 [A] | - | - | Day: Earthworks | NA | 41 | R | Т | - | - | - | - | - | |
| 14082 | Birch Tree Lane, Whitmore | 65/70 [A] | - | - | Day: Earthworks | A | 1 | R | Т | - | - | D27 | - | - | CSV04-C01 |
| 14083 | Tollgate House, Baldwin's Gate | 48/52 [B] | <45 | 34/37 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 26 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|--|-----------------------|---|------------------------|--|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ect | of impacts ted | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14084 | Hillview Crescent, Baldwin's Gate | 50/53 [C] | - | - | Day: Earthworks | NA | 8 | R | Т | - | - | - | - | 1 | |
| 14085 | Hillview Crescent, Baldwin's Gate | 50/53 [A] | - | - | Day: Earthworks | NA | 28 | R | Т | - | - | - | - | - | |
| 14086 | Snape Hall Road, Whitmore | 50/54 [A] | - | - | Day: Earthworks | NA | 3 | R | Т | - | - | - | - | - | |
| 14087 | Snape Hall Cottage, Snape Hall Road, Whitmore | 70/74 [A] | - | - | Day: Earthworks | A | 1 | R | Т | - | - | D56 | CT, V | - | CSV04-C01 |
| 14088 | Woodberry/Foxdene, Snape Hall Road, Whitmore | 68/ ₇₃ [A] | - | - | Day: Earthworks | A | 2 | R | Т | - | - | D40 | СТ | - | CSV04-C01 |
| 14090 | Snape Hall Road, Whitmore | 6o/64 [A] | - | - | Day: Demolitions | NA | 3 | R | Т | - | - | - | - | - | |
| 14091 | Sandyfields, Baldwin's Gate | 49/52 [A] | - | - | Day: Earthworks | NA | 27 | R | Т | - | - | - | - | - | |
| 14094 | Snape Hall Farm, Snape Hall Road, Whitmore | 70/77 [A] | - | - | Day: Underground utility diversion | S | 1 | R | Т | - | - | D30 | CT, V | NI | CSV04-C01 |

| Assessn | nent location | Impact crit | eria: | | | Signi | ficance cri | iteria | | | | | | | |
|---------|------------------------------------|----------------------|---|------------------------|--|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | outdoor L | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ect | impacts d | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14098 | Walls Wood, Baldwin's Gate | 57/61 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |
| 14099 | Walls Wood, Baldwin's Gate | 58/61 [A] | - | - | Day: Earthworks | NA | 19 | R | Т | - | - | - | - | - | |
| 14100 | Netherset Lane, Madeley | 53/58 [A] | <45 | 30/35 [B] | Day: Borrow pit excavation Night: Viaduct piling | NA | 1 | R | Т | - | - | - | - | - | |
| 14101 | Park Wood Drive, Baldwin's Gate | 59/63 [A] | - | - | Day: Earthworks | NA | 7 | R | Т | - | - | - | - | - | |
| 14102 | Park Wood Drive, Baldwin's Gate | 57/61 [A] | - | - | Day: Earthworks | NA | 15 | R | Т | - | - | - | - | - | |
| 14103 | Eastwood Rise, Baldwin's Gate | 58/61 [A] | - | - | Day: Earthworks | NA | 6 | R | Т | - | - | - | - | - | |
| 14104 | Park Wood Drive, Baldwin's Gate | 57/61 [A] | <45 | 30/35 [B] | Day: Earthworks Night: Viaduct piling | NA | 15 | R | Т | - | - | - | - | - | |
| 14105 | Manor Glade, Baldwin's Gate | 52/57 [A] | - | - | Day: Earthworks | NA | 12 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|------------------------------------|--|--------------------------|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at | the | Construction activity resulting in highest forecast noise levels | t | of impacts ted | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14106 | Eastwood Rise, Baldwin's Gate | 58/62 [A] | <45 | 31/36 [C] | Day: Earthworks Night: Viaduct piling | NA | 7 | R | Т | - | - | - | - | 1 | |
| 14108 | Netherset Lane, Madeley | 59/63 [A] | <45 | 34/39 [B] | Day: Borrow pit excavation Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14110 | Park Wood Drive, Baldwin's Gate | 57/61 [A] | - | - | Day: Earthworks | NA | 8 | R | Т | - | - | - | - | - | |
| 14111 | Eastwood Rise, Baldwin's Gate | 58/62 [A] | <45 | 32/37 [B] | Day: Earthworks Night: Viaduct piling | NA | 11 | R | Т | - | - | - | - | - | |
| 14112 | Manor Road, Madeley | 58/62 [A] | <45 | 34/38 [B] | Day: On-site traffic Night: Viaduct piling | NA | 4 | R | Т | - | - | - | - | - | |
| 14113 | Manor Road, Baldwin's Gate | 52/57 [A] | - | - | Day: On-site traffic | NA | 13 | R | Т | - | - | - | - | - | |
| 14114 | Manor Road, Baldwin's Gate | 51/56 [A] | - | - | Day: On-site traffic | NA | 8 | R | Т | - | - | - | - | - | |
| 14115 | Manor Road, Madeley | 58/63 [A] | <45 | 33/38 [B] | Day: On-site traffic Night: Viaduct piling | NA | 11 | R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | teria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|-----------------------------------|--|---|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | t | of impacts ted | eptor | esign | vironment | ure | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of in represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14116 | Manor Road, Madeley | 57/62 [A] | <45 | 39/40 [B] | Day: On-site traffic Night: Viaduct piling | NA | 2 | R | Т | - | - | - | - | - | |
| 14118 | Knightley, Madeley | 51/56 [A] | <45 | 34/38 [B] | Day: Borrow pit excavation Night: Tunnelling / tunnelling support | NA | 36 | R | Т | 1 | 1 | - | - | - | |
| 14119 | Castle Lane, Madeley | 52/57 [A] | <45 | 32/36 [B] | Day: Borrow pit excavation Night: Tunnelling / tunnelling support | NA | 3 | R | Т | - | - | - | - | - | |
| 14120 | Manor Road, Madeley | 61/68 [A] | <45 | 39/40 [B] | Day: Underground utility diversion Night: Viaduct piling | A | 1 | R | Т | - | - | D ₂ | СТ | - | ~ |
| 14121 | Dwelling At Hey House, Madeley | 64/6 ₇ [A] | <45 | 35/40 [A] | Day: Earthworks Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | D8 | - | - | ~ |
| 14122 | Birches Farm Mews, Madeley | 54/58 [A] | <45 | 38/42 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 14 | R | Т | - | - | - | - | - | |
| 14123 | Pastoral Close, Madeley | 51/57 [A] | <45 | 33/36 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 14 | R | Т | - | - | - | - | - | |

| Assessr | ment location | Impact crit | eria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|-------------------------|--|---|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Jhest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ta | impacts | eptor | esign | vironment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of in represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14125 | Pastoral Close, Madeley | 52/56 [A] | <45 | 39/43 [B] | Day: Concrete batching plant Night: Tunnelling / tunnelling support | NA | 12 | R | Т | - | - | - | - | - | |
| 14127 | Castle Lane, Madeley | 51/55 [A] | - | - | Day: Borrow pit excavation | NA | 22 | R | Т | - | - | - | - | - | |
| 14128 | Vicarage Lane, Madeley | 54/58 [A] | <45 | 40/44 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 4 | R | Т | - | - | - | - | - | |
| 14129 | The Holborn, Madeley | 52/56 [A] | <45 | 39/43 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 13 | R | Т | - | - | - | - | - | |
| 14131 | Manor Road, Madeley | 66/70 [A] | <45 | 34/38 [B] | Day: Earthworks Night: Viaduct piling | А | 1 | R | Т | - | - | D13 | СТ | - | ~ |
| 14132 | Vicarage Lane, Madeley | 54/57 [A] | <45 | 40/44 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 13 | R | Т | - | - | - | - | - | |
| 14137 | Poolside, Madeley | 49/54 [B] | <45 | 34/37 [A] | Day: On-site traffic Night: Tunnelling / Tunnelling support | NA | 23 | R | Т | - | - | - | - | - | |

| Assessn | ment location | Impact crit | teria | | | Signi | ficance cri | teria | | | | | | | |
|---------|------------------------|----------------------|---|------------------------|--|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | outdoor L | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ta | of impacts ted | eptor | esign | Existing environment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14140 | Willow Brook, Madeley | 52/55 [A] | <45 | 38/42 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14141 | Woore Road, Madeley | 55/58 [A] | 41/45 [A] | 41/45 [C] | Day: Earthworks [C] Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | | 1 | R | Т | - | - | - | - | - | |
| 14142 | Station Road, Madeley | 54/57 [B] | - | - | Day: Earthworks | NA | 10 | R | Т | - | - | - | - | - | |
| 14144 | Smithy Corner, Madeley | 52/56 [B] | - | - | Day: Earthworks | NA | 3 | R | Т | - | - | - | - | - | |
| 14146 | Haywood Court, Madeley | 53/58 [B] | <45 | 36/39 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 5 | R | Т | - | - | - | - | - | |
| 14148 | Haywood Court, Madeley | 56/60 [C] | <45 | 34/38 [C] | | | 9 | R | Т | - | - | - | - | - | |
| 14149 | Cherry Hill, Madeley | 51/56 [A] | <45 | 37/40 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 54 | R | Т | - | - | - | - | - | |

| Assessr | ment location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|------------------------------|--|--|------------------------|---|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | ghest mont _{DAeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | t | impacts d | eptor | esign | vironment | ure | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14150 | Moss Lane, Madeley | 56/59 [C] | 42/46 [C] | 42/46 [C] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 10 | R | Т | - | - | - | - | - | |
| 14151 | Morningside, Madeley | 52/55 [A] | <45 | 37/41 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 26 | R | Т | - | - | - | - | - | |
| 14153 | Moss Lane, Madeley | 44/50 [A] | - | - | Day: On-site traffic | NA | 16 | R | Т | - | - | - | - | - | |
| 14155 | John Offley Road, Madeley | 56/59 [A] | 43/46 [B] | 43/46 [C] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 32 | R | Т | - | - | - | - | - | |
| 14156 | River Lea Mews, Madeley | 45/51 [A] | - | - | Day: On-site traffic | NA | 10 | R | Т | - | - | - | - | - | |
| 14157 | Morningside, Madeley | 50/55 [A] | <45 | 32/35 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 64 | R | Т | - | - | - | - | - | |
| 14158 | Mallard Close, Madeley | 57/61 [A] | <45 | 41/44 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 5 | R | Т | - | - | - | - | - | |

| Assessr | nent location | Impact crit | teria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|------------------------------|----------------------|--|------------------------|--|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | | ghest mont _{Aeq} [dB] at t sessment c | the | Construction activity resulting in highest forecast noise levels | ect | of impacts ted | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ii represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14160 | John Offley Road, Madeley | 53/57 [A] | <45 | 36/40 [B] | Day: On-site traffic Night: Tunnelling / Tunnelling support | NA | 70 | R | Т | - | - | - | - | - | |
| 14161 | Bar Hill, Madeley | 56/59 [A] | 43/47 [B] | 43/47 [C] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14162 | Moss Lane, Madeley | 57/60 [C] | 44/48 [C] | 44/48 [C] | Day: Concrete batching plant Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 38 | R | Т | - | - | - | - | - | |
| 14163 | Bar Hill, Madeley | 59/63 [B] | - | - | Day: Earthworks | NA | 11 | R | Т | - | - | - | - | - | |
| 14164 | Morningside, Madeley | 53/56 [A] | <45 | 39/41 [A] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 21 | R | Т | - | - | - | - | - | |
| 14165 | Bar Hill, Madeley | 60/64 [A] | <45 | 36/39 [B] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 1 | R | Т | - | - | - | - | - | |

| Assessr | ment location | Impact crit | eria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|----------------------------------|--|--------------------------|------------------------|--|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at t | the | Construction activity resulting in highest forecast noise levels | ed. | impacts | eptor | esign | vironment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of in represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14166 | Charles Cotton Drive, Madeley | 49/54 [A] | <45 | 33/37 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 40 | R | Т | - | - | - | - | - | |
| 14168 | Moss Lane, Madeley | 57/59 [B] | 44/48 [C] | 44/48 [C] | Day: Concrete batching plants setup Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 42 | R | Т | - | - | - | - | - | |
| 14169 | Moss Lane, Madeley | 54/58 [A] | <45 | 39/43 [B] | Day: Concrete batching plants setup Night: Tunnelling / tunnelling support | NA | 13 | R | Т | - | - | - | - | - | |
| 14170 | Moss Lane, Madeley | 56/59 [C] | 44/48 [C] | 44/48 [C] | Day: Concrete batching plant Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 13 | R | Т | - | - | - | - | - | |
| 14171 | Bar Hill, Madeley | 66/71 [A] | <45 | 36/39 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | А | 16 | R | Т | - | - | D9 | СТ | - | CSV04- C02 |
| 14172 | Heather Glade, Madeley | 46/51 [A] | - | - | Day: On-site traffic | NA | 35 | R | Т | - | - | - | - | - | |

| Assessr | nent location | Impact crit | teria | | | Signi | ficance cri | teria | | | | | | | |
|---------|--------------------------|----------------------|--|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | | ghest mont _{bAeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ect | of impacts ted | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ii represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14173 | Pear Tree Drive, Madeley | 52/55 [A] | <45 | 36/40 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 26 | R | Т | - | - | - | - | - | |
| 14174 | The Bridle Path, Madeley | 54/58 [A] | <45 | 42/44 [B] | Day: Underground utility diversion Night: Tunnelling / tunnelling support | NA | 36 | R | Т | - | - | - | - | - | |
| 14176 | The Bridle Path, Madeley | 53/56 [A] | <45 | 41/43 [A] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 28 | R | Т | - | - | - | - | - | |
| 14177 | The Bridle Path, Madeley | 55/58 [A] | <45 | 40/44 [B] | Day: Underground utility diversion Night: Tunnelling / tunnelling support | NA | 18 | R | Т | - | - | - | - | - | |
| 14178 | Bower End Lane, Madeley | 56/60 [C] | <45 | 40/43 [C] | Day: Underground utility diversion Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14179 | The Bridle Path, Madeley | 53/56 [A] | <45 | 39/43 [A] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 13 | R | Т | - | - | - | - | - | |

| Assessr | ment location | Impact crit | teria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|-----------------------------|-----------------------|---|------------------------|---|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | outdoor L | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ect | impacts d | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14180 | Bar Hill, Madeley | 66/71 [A] | 49/51 [A] | 49/51 [B] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 5 | R | Т | - | - | D26 N5 | СТ | - | CSV04- C02 |
| 14182 | Furnace Lane, Madeley | 52/55 [A] | <45 | 36/40 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 2 | R | Т | - | - | - | - | - | |
| 14183 | 86 Bar Hill, Madeley | 66/70 [A] | 45/48 [A] | 45/48 [A] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 2 | R | Т | - | - | D30 N6 | - | - | CSV04- Co2 |
| 14184 | Moss House Farm, Madeley | 6o/6 ₇ [A] | <45 | 39/42 [C] | Day: Underground utility diversion Night: Tunnelling / tunnelling support | А | 5 | R | Т | - | - | D2 | СТ | - | ~ |
| 14185 | Bower End Lane, Madeley | 63/66 [A] | 52/56 [B] | 52/56 [A] | Day: Excavation and prop installation Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | S | 4 | R | Т | - | - | D4 N10 | - | NI | CSV04- C02 |
| 14187 | Bar Hill, Madeley | 59/62 [A] | - | - | Day: Earthworks | NA | 2 | R | Т | - | - | - | - | - | |

| Assessr | ment location | Impact crit | teria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|---|--|---|------------------------|--|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | ghest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ect | impacts d | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing en | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14189 | Bower End Lane, Madeley | 70/75 [A] | <45 | 36/40 [C] | Day: On-site traffic Night: Tunnelling | S | 1 | R | Т | - | - | D31 | - | NI | ~ |
| 14190 | Bar Hill, Madeley | 49/54 [A] | - | - | Day: On-site traffic | NA | 5 | R | Т | - | - | - | - | - | |
| 14192 | Bower End Lane, Madeley | 56/60 [A] | <45 | 42/43 [A] | Day: Earthworks Night: Tunnelling | NA | 1 | R | Т | - | - | - | - | - | |
| 14195 | Mill Lane, Wrinehill | 48/52 [A] | <45 | 36/37 [B] | Day: Earthworks Night: Tunnelling | NA | 6 | R | Т | - | - | - | - | - | |
| 14199 | School Lane, Onneley | 45/49 [A] | - | - | Day: On-site traffic | NA | 4 | R | Т | - | - | - | - | - | |
| 14200 | Wrinehill Hall Farm, Mill Lane, Wrinehill | 60/64 [A] | - | - | Day: Earthworks | NA | 1 | R | Т | - | - | - | - | - | |
| 14205 | Wrinehill Mill, Wrinehill | 54/60 [A] | - | - | Day: Underground utility diversion | NA | 1 | R | Т | - | - | - | - | - | |
| 14208 | Snape Hall Farmhouse, Snape Hall Road, Whitmore Heath | 52/57 [A] | - | - | Day: On-site traffic | NA | 1 | R | Т | - | - | - | - | - | |
| 14210 | Manor Farmhouse, Madeley / CD Ref: 10/00108/FUL | 55/59 [A] | <45 | 34/35 [A] | Day: Earthworks Night: Viaduct piling | NA | 3 | CD- R | Т | - | - | - | - | - | |

| Assessr | ment location | Impact crit | teria | | | Signi | ficance cr | iteria | | | | | | | |
|---------|---|--|--------------------------|------------------------|---|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at | the | Construction activity resulting in highest forecast noise levels | tra | impacts d | eptor | esign | vironment | ture | ation | mpact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of impacts represented | Type of receptor | Receptor design | Existing environment | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14213 | Hillview Crescent, Baldwin's Gate (CD Ref.: 13/00426/OUT) | 50/54 [A] | - | - | Day: Earthworks | NA | 1 | CD- R | Т | - | - | - | - | - | |
| 14214 | Appleton Drive, Whitmore (CD Ref.: 13/00145/OUT) | 48/52 [B] | <45 | 34/37 [A] | Day: On-site traffic Night: Tunnelling / tunnelling support | NA | 113 | CD- R | Т | - | - | - | - | - | |
| 14215 | Birch Tree Lane, Whitmore (CD Ref.: 15/00281/FUL) | 54/58 [A] | - | - | Day: Earthworks | NA | 1 | CD- R | Т | - | - | - | - | - | |
| 14216 | Haywood Court, Madeley (CD Ref.: 15/00277/FUL) | 56/59 [C] | <45 | 39/42 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 4 | CD- R | Т | - | - | - | - | - | |
| 14217 | Moss Lane, Madeley (CD Ref.: 14/00691/FUL) | 56/59 [C] | 42/46 [C] | 42/46 [C] | Day: Earthworks Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | NA | 1 | CD- R | Т | - | - | - | - | - | |
| 14218 | Moss Lane, Madeley (CD Ref.: 12/00028/FUL) | 55/59 [C] | <45 | 38/41 [C] | Day: Earthworks Night: Tunnelling / tunnelling support | NA | 2 | CD- R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | eria | | | Signi | ficance cri | iteria | | | | | | | |
|---------|---|--|--------------------------|------------------------|---|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | Aeq [dB] at | the | Construction activity resulting in highest forecast noise levels | ect | of impacts ted | eptor | esign | Existing environment | ture | ation | impact | effect | effect |
| | | Day 0700- 1900 | Evening 1900- 2300 | Night 2300- 0700 | | Type of effect | Number of ir represented | Type of receptor | Receptor design | Existing er | Unique feature | Impact duration (Months) | Combined impact | Mitigation effect | Significant effect |
| 14219 | The Bridle Path, Madeley (CD Ref.: 13/00990/OUT) | 53/57 [A] | <45 | 37/40 [C] | Day: Underground utility diversion Night: Tunnelling / tunnelling support | NA | 42 | CD- R | Т | - | - | - | - | - | |
| 14220 | Whitmore Arms, Madeley | 49/54 [A] | - | - | Day: Haul road setup | NA | 2 | R | Т | - | - | - | - | - | |
| 14233 | Woodcroft, Red Lane, Madeley | 6 ₃ /68 [A] | <45 | 36/39 [A] | Day: Earthworks Night: Tunnelling | NA | 1 | R | Т | - | - | - | - | - | |
| 14234 | Monument Lodge, Manor Road, Madeley | 58/62 [A] | <45 | 36/40 [A] | Day: Earthworks Night: Tunnelling | NA | 1 | R | Т | - | - | - | - | - | |
| 14235 | Station Road, Madeley | 57/6o [A] | <45 | 36/39 [A] | Day: Earthworks Night: Tunnelling | NA | 2 | R | Т | - | - | - | - | - | |
| 14237 | Rowley House, Moss Lane, Madeley (CD Ref: 14/00009/FUL) | 53/57 [A] | <45 | 39/42 [A] | Day: Earthworks Night: Tunnelling | NA | 1 | CD- R | Т | - | - | - | - | - | |
| 14238 | Moss Farm, Bower End Lane, Madeley (CD Ref: 14/00132/FUL) | 54/59 [A] | <45 | 36/40 [A] | Day: Earthworks Night: Tunnelling | NA | 5 | CD- R | Т | - | - | - | - | - | |
| 14239 | The Moss, Moss Lane, Madeley (CD Ref: 14/00299/OUT) | 50/55 [A] | <45 | 32/35 [A] | Day: Earthworks Night: Tunnelling | NA | 1 | CD- R | Т | - | - | - | - | - | |

| Assessn | nent location | Impact crit | eria | | | Signi | ficance cri | teria | | | | | | | |
|---------|---|--|---|--------------|---|----------------|-------------------------|-------------|------------|-------------|----------------|------------------------|-----------------|------------|-------------|
| Ref | Area represented | Typical/hig outdoor L _p facade [ass A/B/C] | jhest mont _{Aeq} [dB] at t sessment ca | the | Construction activity resulting in highest forecast noise levels | ect | impacts d | receptor | design | environment | ture | ration | impact | effect | effect |
| | | Day Evening Night 0700- 1900 2300- 0700 | | 2300- | | Type of effect | Number of represente | Type of rec | Receptor d | Existing en | Unique feature | Impact dur (Months) | Combined impact | Mitigation | Significant |
| 14240 | Manor Road, Madeley | 56/60 [A] | <45 | 34/35 [A] | Day: Earthworks Night: Tunnelling | NA | 1 | R | Т | - | - | - | - | - | |
| 14241 | The Brackens, Heath Road, Whitmore Heath | 58/62 [A] | 51/54 [A] | 51/54 [A] | Day: Excavation and prop installation Eve: Tunnelling / tunnelling support Night: Tunnelling / tunnelling support | A | 1 | R | Т | - | - | N10 | - | - | ~ |

Table 7: Assessment of construction noise at non-residential receptors

| Assessme | nt location | Impact crit | eria | | | | Signif | ficance ci | riteria | | | | | | | |
|----------|--|--|---------------------------------|----------------------|------------------------|---|----------------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Typical/hig monthly outdoor L _{p.} at the faca [assessmer category A | _{Aeq} [dB] de nt | Change | | Construction activity resulting in highest forecast noise levels | fect | Number of impacts represented | ceptor | design | Existing environment | ature | ıration | limpact | n effect | t effect |
| | | Day 0700- 1900 | Night 2300- 0700 | Day 0700- 1900 | Night 2300- 0700 | | Type of effect | Number o represent | Type of receptor | Receptor design | Existing e | Unique feature | Impact duration | Combined impact | Mitigation effect | Significant effect |
| 8427(N) | Hey House & Edland Kennels/Cattery, Madeley | 64/67 | 36/40 | 18 | 1 | Day: Earthworks Night: Tunnelling / tunnelling support | В | 1 | G5 | Т | - | - | D8 | - | - | CSV04-N01 |
| 14018(N) | St Mary's & All Saints' Church, Whitmore | 53/58 | - | 3 | 0 | Day: Haul road setup | В | 1 | G ₃ | Т | - | - | 1 | - | - | * |
| 14021(N) | North Staffordshire Hunt's Kennels, Hill Chorlton | 51/56 | 36/38 | 15 | 5 | Day: Haul road setup Night: Tunnelling / tunnelling support | В | 1 | G5 | Т | - | - | - | - | - | |
| 14048(N) | Whitmore Village Hall, Whitmore | 52/58 | - | 9 | 1 | Day: Planting | В | 1 | G ₃ | Т | - | - | D ₇ | - | - | * |
| 14076(N) | Baldwin's Gate Church Of England Primary School | 46/51 | - | 1 | 1 | Day: On-site traffic | В | 1 | G4 | Т | - | - | - | - | - | |
| 14130(N) | Madeley Cemetery, Madeley | 65/70 | 37/41 | 10 | 0 | Day: Earthworks Night: Tunnelling / tunnelling support | В | 1 | G ₃ | Т | - | - | D8 | СТ | - | CSV04-N02 |
| 14138(N) | All Saints' Church, Madeley | 53/57 | 36/39 | 2 | 0 | Day: Earthworks Night: TBM setup | В | 1 | G ₃ | Т | - | - | - | - | - | |

| Assessme | essment location Impact criteria | | | | | Signif | icance cı | riteria | | | | | | | | | | | | | | | | | | | | |
|----------|---|----------------------|------------------------|----------------------------|------------------------|-------------------------------------|----------------------------|----------------------------|----------------|----------------|-----------------|--|---|----------------------------|-------------------|--------------------|--|-----------------------------|--|---------------------------|--|--------|----------------------|-------|---------|---------|----------|----------|
| Ref | Area represented Typical/highest monthly outdoor LpAeq [dB] at the facade [assessment category A/B/C] Day Night Day Night | | fect | ffect of impacts ted | | ffect of impacts ted | ffect of impacts ted | ffect of impacts ted | | of impacts ted | | Type of effect Number of impacts represented | | ffect of impacts ted | | of impacts ted | | iffect of impacts ted | | ffect of impacts ed | | design | Existing environment | ature | ıration | limpact | n effect | t effect |
| | | Day 0700- 1900 | Night 2300- 0700 | Day 0700- 1900 | Night 2300- 0700 | | Type of ef | Receptor design | Existing e | Unique feature | Impact duration | | | Combined impact | Mitigation effect | Significant effect | | | | | | | | | | | | |
| 14145(N) | Madeley Allotment, Madeley | 59/62 | 41/44 | 2 | 0 | Day: Earthworks Night: TBM setup | В | 1 | G5 | Т | - | - | - | - | - | | | | | | | | | | | | | |
| 14147(N) | Unreal Paintball Site, Manor Farm, Manor Road, Madeley | 55/59 | - | 10 | - | Day: On-site traffic | В | 1 | G ₅ | Т | - | - | - | - | - | | | | | | | | | | | | | |
| 14152(N) | Sir John Offley Church Of England Primary School, Madeley | 56/59 | - | 3 | - | Day: Earthworks | В | 1 | G4 | Т | - | - | - | - | - | | | | | | | | | | | | | |
| 14167(N) | Moss Lane GP Surgery, Madeley | 54/58 | - | 6 | - | Day: Earthworks | В | 1 | G4 | Т | - | - | - | - | - | | | | | | | | | | | | | |
| 14207(N) | Whitmore Post Office, Baldwin's Gate | 48/52 | - | 0 | - | Day: Earthworks | В | 1 | G ₅ | Т | - | - | - | - | - | | | | | | | | | | | | | |

Airborne sound: indirect effects

- 4.2.10 Construction road traffic associated with the construction phases of the Proposed Scheme would generate airborne noise. Based upon traffic information for the Proposed Scheme, the change in traffic noise level at a reference distance of 10m from the edge of the nearside carriageway resulting from the presence of construction traffic for a given road has been predicted. Data has been produced for a typical month during the construction period and for a worst-case month during the construction period. The results for potentially significant road links are presented in Table 9.
- 4.2.11 Explanation of the information within Table 9 is provided in Volume 5: Appendix SV-001-000, with the following additional notes in Table 8.

Table 8: Explanatory notes for assessment results – indirect construction effects

| Colour | Explanation |
|--------|---|
| | Where the significant effect column is highlighted, then a significant effect is identified on nearby communities or individual receptors |
| | Yellow denotes a minor impact — a change is of 3-5 dB or 1-3dB where a high existing sound level is identified |
| | Orange denotes a moderate impact – a change is of 5-10 dB or 3-5dB where a high existing sound level is identified |
| | Red denotes a major impact – a change is of >10 dB or >5dB where a high existing sound level is identified |

Table 9: Assessment of construction traffic noise levels

| Road name | | Number of dwellings | Daytime traffic | sound levels L _{A10,} | _{⊾8hr} dB | Change compared to sound level (dB) | o current traffic | Combined impact | Significant effect | |
|-------------------|---|-----------------------|-----------------------|-----------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|-----------------|------------------------|--|
| | | affected (approx.) | Without HS2 (2017) | Typical month during construction | Peak month during construction | Typical month during construction | Peak month during construction | · | | |
| | From the junction with the A51 at Stableford Bridge to the junction with the A53 in Whitmore | 10 | 53 | 57 | 60 | 4 | 7 | | CSV04-C03 | |
| Road | From the junction with the A53 along the west of Whitmore Heath to the proposed Whitmore tunnel north portal | 25 | 39 | 50 | 56 | 11 | 17 | 0 | CSV04-C01 CSV04-C04 | |
| | From the junction with the A53 at Red Hill to the junction with the A525 in Madeley | 50 | 58 | 60 | 62 | 2 | 4 | | CSV04-C05 | |
| | From the proposed Madeley tunnel southern portal to the junction with Manor Road next to the WCML | 40 | 62 | 63 | 66 | 1 | 4 | 0 | CSV04-C02 | |
| Bower End Lane | From the proposed Madeley tunnel northern portal to the junction with Moss Lane in Madeley | 10 | 47 | 49 | 51 | 2 | 4 | 0 | - | |

Airborne sound levels used in other assessments

The construction sound results contained in this document have been used by other disciplines, namely agriculture, cultural heritage, landscape and visual, communities and socio economics, in their assessments. This includes the information in Table 6 and Table 7. Locations of interest to these other disciplines which may not appear in Table 6 or Table 7 are presented in Table 10.

Table 10: Construction airborne sound levels for use in cross discipline assessments

| Assessment location | | Sound leve | el informatio | on | | | Discipline | | | | | | |
|----------------------|--|---------------|--|---------------|---------------|----------------------|-------------------|----------------|----------|-------|--------|--|--|
| Ref | Area represented Typical/highest monthly outdoor L _{pAeq} [dB] at the facade [assessment category A/B/C] Day Night Day Night Construction activity resulting highest forecast noise levels | | Construction activity resulting in highest forecast noise levels | ture | ommunities | ge | andscape & visual | Socio-economic | | | | | |
| | | 0700- 1900 | 2300- 0700 | 0700- 1900 | 2300- 0700 | | Agriculture | Сотт | Heritage | Lands | Socio- | | |
| 8 ₃₇ 8(N) | Snape Hall Farm, Snape Hall Road, Whitmore Heath | 82/87 | - | 42 | - | Day: Demolitions | Y | - | - | - | - | | |
| 8 ₃ 88(N) | Bar Hill House Farm, Bar Hill | 59/63 | - | 12 | - | Day: Earthworks | Υ | - | - | - | - | | |
| 8427(N) | Hey House & Edland Kennels/Cattery, Madeley | 64/67 | - | 18 | - | Day: Earthworks | - | - | Υ | - | Υ | | |
| 8486(N) | Offley Almshouses, Madeley | 57/60 | - | 0 | - | Day: Earthworks | - | - | Υ | - | - | | |
| 14018(N) | St Mary's & All Saints' Church, Whitmore | 53/58 | - | 3 | - | Day: Haul road setup | - | - | 1 | - | - | | |
| 14020(N) | The Mainwaring Arms, Whitmore | 54/59 | - | 0 | - | Day: Haul road setup | - | - | 1 | - | Υ | | |
| 14021(N) | North Staffordshire Hunt's Kennels, Hill Chorlton | 51/56 | - | 15 | - | Day: Haul road setup | - | - | 1 | - | - | | |
| 14025(N) | Whitmore Cricket Ground, Whitmore | 58/64 | - | 15 | - | Day: Haul road setup | - | - | - | - | - | | |
| 14048(N) | Whitmore Village Hall, Whitmore | 52/58 | - | 9 | - | Day: Planting | - | - | - | - | - | | |

| Assessmer | Assessment location | | Sound level information | | | | | | | Discipline | | | | | | | |
|-----------|---|----------------------|--|----------------------|------------------------|--|-------------|-------------|----------|-------------------|----------------|--|--|--|--|--|--|
| Ref | Ref Area represented | | ghest _{Aeq} [dB] at nt NB/C] | Change | | Construction activity resulting in highest forecast noise levels | ure | nities | | andscape & visual | Socio-economic | | | | | | |
| | | Day 0700- 1900 | Night 2300- 0700 | Day 0700- 1900 | Night 2300- 0700 | | Agriculture | Communities | Heritage | Landsca | Socio-ec | | | | | | |
| 14076(N) | Baldwin's Gate Church Of England Primary School | 46/51 | - | 1 | - | Day: On-site traffic | - | - | - | - | - | | | | | | |
| 14130(N) | Madeley Cemetery, Madeley | 65/70 | - | 10 | - | Day: Earthworks | - | - | - | - | - | | | | | | |
| 14138(N) | All Saints' Church, Madeley | 53/57 | - | 2 | - | Day: Earthworks | - | - | - | - | - | | | | | | |
| 14145(N) | Madeley Allotment, Madeley | 59/62 | - | 2 | - | Day: Earthworks | - | - | - | - | - | | | | | | |
| 14147(N) | Unreal Paintball Site, Manor Farm, Manor Road, Madeley | 55/59 | - | 10 | - | Day: On-site traffic | - | Υ | - | - | - | | | | | | |
| 14152(N) | Sir John Offley Church Of England Primary School, Madeley | 56/59 | - | 3 | - | Day: Earthworks | - | - | - | - | - | | | | | | |
| 14167(N) | Moss Lane GP Surgery, Madeley | 54/58 | - | 6 | - | Day: Earthworks | - | - | - | - | - | | | | | | |
| 14203(N) | Wrinehill Gardens, Wrinehill Hall, Wrinehill | 62/68 | - | 30 | - | Day: Overbridge pile breakdown | Y | - | Υ | - | - | | | | | | |
| 14204(N) | Wrinehill Mill Farm, Wrinehill | 58/62 | - | 16 | - | Day: Earthworks | Y | - | - | - | - | | | | | | |
| 14206(N) | Sheet Anchor Pub, Baldwin's Gate | 50/54 | - | 1 | - | Day: On-site traffic | - | - | - | - | Υ | | | | | | |
| 14207(N) | Whitmore Post Office, Baldwin's Gate | 48/52 | - | o | - | Day: Earthworks | - | Υ | - | - | - | | | | | | |
| 14209(N) | Old Madeley Manor (Off Manor Road), Madeley | 53/59 | 33/35 | 12 | 0 | Day: Underground utility diversion Night: Viaduct piling | - | - | Υ | - | - | | | | | | |

| Assessment location | | Sound lev | | Discipline | | | | | | | |
|---------------------|--|---|------------------------|----------------------|------------------------|--|-------------|-------------|----------|-------------------|----------------|
| Ref | Area represented | Typical/highest monthly outdoor L _{pAeq} [dB] at the facade [assessment category A/B/C] | | | | Construction activity resulting in highest forecast noise levels | ure | nities | a) | andscape & visual | Socio-economic |
| | | Day 0700- 1900 | Night 2300- 0700 | Day 0700- 1900 | Night 2300- 0700 | | Agriculture | Communities | Heritage | Landsca | Socio-e |
| 14211(N) | Offley Well Head, Madeley | 59/63 | - | 4 | - | Day: Earthworks | - | - | Υ | - | - |
| 14212(N) | Madeley White Star Football Club, Madeley | 61/65 | - | 11 | - | Day: Earthworks | - | Υ | - | - | - |
| 14222(N) | Snape Hall Road, Whitmore | 54/58 | - | 3 | - | Day: Earthworks | - | - | - | Υ | - |
| 14223(N) | Walls Wood, Baldwins Gate | 58/61 | - | 5 | - | Day: Earthworks | - | - | - | Υ | - |
| 14224(N) | The Old Rectory, Whitmore | 71/76 | - | 29 | - | Day: Underground utility diversion | - | - | - | Υ | - |
| 14225(N) | Netherset Lane, Madeley | 63/65 | - | 17 | - | Day: Borrow pit excavation | - | - | - | Υ | - |
| 14226(N) | Baldwin's Gate Sandstone Hills And Heaths #1 | 53/57 | - | 9 | - | Day: Haul road setup | - | - | 1 | Υ | - |
| 14227(N) | Manor Road, Madeley | 50/55 | - | 8 | - | Day: On-site traffic | - | - | 1 | Υ | - |
| 14228(N) | Netherset Lane, Madeley | 53/58 | - | 10 | - | Day: Borrow pit excavation | - | - | 1 | Υ | - |
| 14229(N) | Bar Hill, Madeley | 50/54 | - | 16 | - | Day: Earthworks | - | - | - | Υ | - |
| 14230(N) | Bar Hill, Madeley | 62/66 | - | 28 | - | Day: Earthworks | - | - | - | Υ | - |
| 14231(N) | Mill Lane, Wrinehill | 62/67 | - | 26 | - | Day: Haul road setup | - | - | - | Υ | |

| Assessmen | sessment location Sound level information | | | | | | Discipline | | | | | | |
|-----------|---|---|--------------------------------|------------------------|------------------------|--|-------------|-------------|----------|--------------------|----------------|--|--|
| Ref | Area represented | Typical/himonthly outdoor L the facade [assessme category A Day 0700-1900 | _{pAeq} [dB] at ent | Change Day 0700- 1900 | Night 2300- 0700 | Construction activity resulting in highest forecast noise levels | Agriculture | Communities | Heritage | Landscape & visual | Socio-economic | | |
| 14232(N) | School Lane, Onneley | 54/58 | - | 18 | - | Day: Earthworks | - | - | - | Υ | - | | |

5 Operational

5.1 Evaluation of impacts and effects

- This appendix provides a quantitative assessment of operational noise and vibration impacts and effects and a qualitative assessment of likely significant effects, based on the impacts and effects identified and other local context information consistent with the scope and methodology defined for the Proposed Scheme.
- Indirect effects arising from permanent changes in traffic patterns on the existing road and rail networks as a consequence of the Proposed Scheme are also reported in this appendix, where they would occur within the study area as defined in Volume 5:

 Appendix SV-001-000. Route-wide impacts, effects and significant effects associated with noise or vibration from the operation of the Proposed Scheme are reported in Volume 3¹¹.
- Off-route effects of noise or vibration arising from the operation of the Proposed Scheme, including those likely to arise from permanent changes in traffic patterns on roads or railways outside of the study area for direct effects are reported in Volume 4¹².
- In undertaking the assessment of sound, noise and vibration, consistent with EIA Directive⁶ and National Planning Practice Guidance⁷ a differentiation between impacts effects, adverse effects and significant effects is made. Further information is provided in Volume 5: Appendix SV-001-000.
- The assessment of impacts has been undertaken at assessment locations that are representative of a number of dwellings or other sensitive receptors. The operational assessment locations employed in this assessment are presented on Map Series SV-02 (Volume 5: Sound, Noise and Vibration Map Book).
- 5.1.6 Baseline sound level data has been collected at locations representative of the airborne sound-sensitive receptors and presented in Table 1, and corrected where applicable using the values in Table 3.

5.2 Effects arising during operation

Introduction

The assessment is reported first for ground-borne sound and vibration and then for airborne sound. Under each of these headings, the results of the quantitative identification of impacts, effects and significant effects are presented. The significant effects and the evidence used to support these conclusions are presented in Volume 2, Whitmore Heath to Madeley (CA4 Report), Section 13.

Avoidance and mitigation measures

5.2.2 These are set out in Volume 2, Whitmore Heath to Madeley (CA Report 4), Section 13.

¹¹ See Environmental Statement Volume 3, Route-wide effects

¹² See Environmental Statement Volume 4, Off-route effects

Quantitative identification of impacts and effects

Ground-borne sound and vibration

- Assessment locations defined for the quantitative assessment of impacts are shown on Map Series SV-02 in the Volume 5: Sound, Noise and Vibration Map Book. SV-02 also displays ground-borne noise and vibration impacts and any resultant significant effects.
- For each assessment location, the assessment results for residential and non-residential receptors are presented in Table 12. Explanation of the information in Table 12is provided in Appendix SV-001-000, with the following additional notes in Table 11.

Table 11: Explanatory notes for assessment results

| Symbol | Explanation |
|--------|--|
| В | For non-residential receptors further detail about the type of effect is set out in the text of Volume 5: Appendix SV-001-000 |
| NA | Type of effect - Generally no adverse effect |
| A | Ground-borne sound or vibration levels from HS2 exceed Lowest Observed Adverse Effect Level (LOAEL): the significance criteria set out in Appendix SV-001-000, Annex A, Section 1.3 are considered when establishing significant effects |
| S | Ground-borne sound or vibration levels from HS2 exceed Significant Observed Adverse Effect Level (SOAEL) |
| VDV | Vibration Dose Value |
| ~ | When considered under the significance criteria set out in Volume 5: Appendix SV-001-000, Annex A, Section 1.3, these adverse effects are not considered to be significant on a community basis |
| | Where the significant effect column is highlighted in pink, then a significant effect is identified at the referenced residential community area, or individual receptor |
| | Yellow denotes a low ground-borne noise impact or a minor ground-borne vibration impact |
| | Orange denotes a medium ground-borne noise impact or a moderate ground-borne vibration impact |
| | Red denotes a high ground-borne noise impact or a major ground-borne vibration impact |
| | Dark red denotes a very high ground-borne noise impact |

Table 12: Operational ground-borne sound and vibration levels, noise and vibration impacts and effects for residential and non-residential receptors

| Assessn | Assessment location | | | Impact criteria | | | | | | | | | | |
|---------|--|--|---|---|---------------------------------|----------------------------------|------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| | | Groundborne sound level dB L _{pASmax} | VDV m/s ^{1.75} Daytime (07:00 - | VDV m/s ^{1.75} Night time | % increase or decrease | fimpacts | effect | ceptor | design | ant | ature | impact | effect | t effect |
| Ref | Area represented | | 23:00) | (23:00 – 07:00) | in VDV | Number of impacts represented | Type of ef | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| 14035 | The Hill, Whitmore | 29 | 0.14 | 0.06 | - | 1 | NA | R | Т | - | - | - | - | |
| 14043 | Heath Road, Whitmore | 23 | 0.03 | 0.01 | - | 2 | NA | R | Т | - | - | - | - | |
| 14046 | Heath Road, Whitmore | 27 | 0.04 | 0.02 | - | 1 | NA | R | Т | - | - | - | - | |
| 14047 | Broadlands, Heath Rise, Whitmore Heath | 42 | 0.19 | 0.09 | - | 1 | А | R | Т | - | - | - | - | OSV04-C02 |
| 14052 | Heath Road, Whitmore Heath | 30 | 0.05 | 0.03 | - | 2 | NA | R | Т | - | - | - | - | |
| 14054 | Heath Road, Whitmore | 34 | 0.09 | 0.04 | - | 1 | NA | R | Т | - | - | - | - | |
| 14055 | Heath Road, Whitmore | 25 | 0.03 | 0.02 | - | 5 | NA | R | Т | - | - | - | - | |
| 14056 | Wyndways, Whitmore Heath | 45 | 0.27 | 0.13 | - | 1 | S | R | Т | - | - | - | - | OSV04-C02 |
| 14058 | Sandy Ridge, Whitmore Heath | 44 | 0.25 | 0.12 | - | 1 | А | R | Т | - | - | - | - | OSV04-C02 |
| 14059 | Common Farm, Whitmore Heath | 31 | 0.06 | 0.03 | - | 2 | NA | R | Т | - | - | - | - | |
| 14062 | Hunters Way, Whitmore Heath | 33 | 0.08 | 0.04 | - | 1 | NA | R | Т | - | - | - | - | |
| 14066 | The Willows, Whitmore Heath | 36 | 0.10 | 0.05 | - | 1 | А | R | Т | - | - | - | - | OSV04-C02 |

| Assessr | nent location | Impact criteria | | | | Significar | nce criter | a | | | | | | , |
|---------|--|--|---|---|---|----------------------------------|------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | Groundborne sound level dB L _{pASmax} | VDV m/s ^{1.75} Daytime (07:00 - 23:00) | VDV m/s ^{1.75} Night time (23:00 – | % increase or decrease in VDV | Number of impacts represented | ofeffect | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | | | 07:00) | | Number represen | Туре | Туре | Recel | Existing environm | Uniq | Comk | Mitig | Signi |
| 14067 | The Dingle, Whitmore Heath | 25 | 0.03 | 0.02 | - | 1 | NA | R | Т | - | - | - | - | |
| 14068 | Kepplestone, Whitmore Heath | 31 | 0.06 | 0.03 | - | 1 | NA | R | Т | - | - | - | - | |
| 14069 | Fernridge / Mandarin House, Whitmore Heath | 27 | 0.04 | 0.02 | - | 3 | NA | R | Т | - | - | - | - | |
| 14071 | The Nook / Tree Tops, Whitmore Heath | 42 | 0.20 | 0.09 | - | 2 | А | R | Т | - | - | - | - | OSV04-C02 |
| 14074 | West Ridge, Birch Tree Lane, Whitmore Heath | 45 | 0.28 | 0.13 | - | 1 | S | R | Т | - | - | - | - | OSV04-C02 |
| 14075 | Birch Tree Lane, Whitmore | 30 | 0.05 | 0.02 | - | 1 | NA | R | Т | - | - | - | - | |
| 14077 | Birch Tree Lane, Whitmore | 25 | 0.04 | 0.02 | - | 2 | NA | R | Т | - | - | - | - | |
| 14079 | Birch Tree Lane, Whitmore | 31 | 0.06 | 0.03 | - | 1 | NA | R | Т | - | - | - | - | |
| 14082 | Birch Tree Lane, Whitmore | 26 | 0.04 | 0.02 | - | 1 | NA | R | Т | - | - | - | - | |
| 14087 | Snape Hall Cottage, Snape Hall Road, Whitmore | 31 | 0.16 | 0.08 | - | 1 | NA | R | Т | - | - | - | - | |
| 14088 | Woodberry/Foxdene, Snape Hall Road, Whitmore | 22 | 0.07 | 0.03 | - | 2 | NA | R | Т | - | - | - | - | |
| 14241 | The Brackens, Heath Road, Whitmore Heath | 4 6 | 0.31 | 0.15 | - | 1 | S | R | Т | - | - | - | - | OSV04-C02 |

Ground-borne sound and vibration impact summary

The operational ground-borne noise and vibration impacts identified in Table 12 are summarised in Table 13.

Table 13: Summary of operational ground-borne noise and vibration impacts

| Property type | Number of gro | und-borne noise | impacts | | |
|----------------------------|---------------|------------------|-------------|-------------------------|---|
| | Low | Medium | High | Very high | |
| Residential properties | 0 | 4 | 3 | | 0 |
| Non-residential properties | | | 0 | | 0 |
| | Number of gro | und-borne vibrat | ion impacts | | |
| | | | | | |
| | Minor | Moderate | Major | Risk of building damage | |
| Residential properties | | | | Risk of building damage | 0 |

Airborne sound: direct impacts and effects

- The direct effects from the operation of the Proposed Scheme as well as any new, amended or altered roads or railway lines, which are identified as part of the scheme, are presented in Table 15 for residential receptors and Table 16 for non-residential receptors.
- The assessment information, impact criteria and significance criteria for the assessment of the incorporated mitigation case at residential and non-residential receptors are presented in Table 15 and Table 16 respectively. The results should be considered in conjunction with the information contained in Map Series SV-02 (Volume 5: Sound, Noise and Vibration Map Book).
- 5.2.8 Explanation of the information in Table 15 and Table 16 is provided in Volume 5: Appendix SV-001-000, with the following additional notes in Table 14.

Table 14: Explanatory notes for assessment results

| Symbol | Explanation |
|--------|--|
| | Where the significant effect column is marked, then a significant effect is identified at the referenced group of dwellings, or individual residential or non-residential receptor |
| | Yellow denotes a minor impact at a residential building – a change is of 3-5 dB |
| | Orange denotes a moderate impact at a residential building – a change is of 5-10 dB |
| | Red denotes a major impact at a residential building — a change is of >10 dB |
| * | Day - L _{pAeq,07:00-23:00} |
| ** | Night - L _{pAeq,23:00 - 07:00} |

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| Symbol | Explanation |
|--------|--|
| *** | Max - L _{pAFmax} In the Proposed Scheme only column, two values are presented. The first is the value for the HS2 mitigated train and the second is the value for the 'TSI compliant' train. For further information refer to Volume 5: Appendix SV-001-000 |
| *** | Where the Proposed Scheme modifies an existing source, i.e. road or railway realignments, the Proposed Scheme only and (Opening year baseline + Year 15 traffic) levels in the table include the sound from the modified source |
| Α | Sound levels from HS2 exceed Lowest Observed Adverse Effect Level (LOAEL): the significance criteria set out in Appendix SV001-000, Annex A, Section 1.3 are considered when establishing significant effects |
| В | For non-residential receptors further detail about the type of effect is set out in the text of Appendix SV-001-000 |
| CD | Committed Development. The 'Area represented' column contains information about the potential number of impacts included in the development. |
| G | (G1)Theatres, large auditoria and concert halls, (G2) Sound recording and broadcast studios, (G3) Places of meeting for religious worship, courts, cinemas, lecture theatres, museums and small auditoria or halls, (G4) Schools, colleges, hospitals, hotels and libraries, and (G5) Offices and general commercial premises |
| Н | High existing ambient sound level. Defined as >65dBL _{Aeq, day} and/or >55dBL _{Aeq, night} |
| L | Low existing ambient sound level. Defined as <42dBL _{Aeq, day} and/or <32dBL _{Aeq, night} |
| LD | Landscape receptor |
| NA | Sound levels from HS2 do not exceed Lowest Observed Adverse Effect Level (LOAEL), therefore generally no adverse effect |
| NI | The receptor is predicted to qualify for mitigation, which shall be provided to the specification defined in the Noise Insulation (Railways and other Guided Rail Systems) Regulations 1996 |
| R | Residential receptor |
| RM | Residential mooring |
| S | Sound levels from HS2 exceed Significant Observed Adverse Effect Level (SOAEL): noise insulation therefore provided |
| # | A change of 3dB or greater has been identified however, the assessment methodology only defines an impact where the absolute sound level from the Proposed Scheme is greater or equal to 50 dB L _{pAeq, 23:00 – 07:00} during the daytime or 40 dB L _{pAeq, 07:00 – 23:00} at night. At the receptor denoted the absolute level condition is not met and therefore no impact is identified |
| ~ | When considered under the significance criteria set out in Appendix SV-001-000, Annex A, Section 1.3, these adverse effects are not considered to be significant on a community basis |
| \$ | A change of 3dB or greater has been identified however, the impact methodology for non-residential receptors includes a screening criteria for G ₃ building use of 50 dB L _{pAeq,07:00-23:00} , for G ₄ building use 55 dB L _{pAeq,07:00-23:00} and 45 dB L _{pAeq,23:00-07:00} , for G ₅ building use 55 dB L _{pAeq,07:00-23:00} . At the receptor denoted the screening criteria is not met and therefore no impact is identified. Further information is provided in Volume 5: Appendix SV-001-000. |

Table 15: Operational airborne sound, noise impacts and significant effects: residential receptors

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signi | ficance | criteria | | | | | | |
|---------|--|----------|-------------|------------|-----------------|------------------------|------------|----------|-------------|----------|-------------|---------|----------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | Do no year b | thing (op paseline) | ening | + year | ing aseline | Chang | ge | feffect | Number of impacts represented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of | Number of ir represented | Туре о | Recept | Existin | Unique | Combii | Mitigat | Signific |
| 8482 | Stableford Caravan Park #1 | 48 | 38 | 64/66 | 60 | 57 | 63 | 60 | 57 | 0 | 0 | А | 15 | R | Т | Н | - | - | - | |
| 8483 | Stableford Caravan Park #2 | 47 | 38 | 63/65 | 53 | 50 | 63 | 54 | 50 | 1 | 0 | Α | 22 | R | Т | - | - | - | - | |
| 14002 | New House Farmhouse, Acton | 46 | 36 | 61/62 | 56 | 42 | 55 | 56 | 43 | 0 | 1 | Α | 3 | R | Т | - | - | - | - | |
| 14006 | Stableford Caravan Park #3 | 49 | 39 | 65/66 | 57 | 47 | 63 | 58 | 48 | 1 | 1 | А | 29 | R | Т | - | - | - | - | |
| 14007 | Stableford Court, Stableford | 50 | 40 | 67/68 | 63 | 57 | 63 | 63 | 57 | 0 | 0 | А | 11 | R | Т | Н | - | - | - | |
| 14008 | Chorlton Brook Cottage, Hill Chorlton | 58 | 49 | 74/75 | 60 | 56 | 59 | 62 | 57 | 2 | 1 | А | 2 | R | Т | Н | - | - | - | |
| 14009 | Chorlton Mill Farm, Stableford | 57 | 48 | 72/74 | 55 | 51 | 59 | 59 | 53 | 4 | 2 | А | 1 | R | Т | - | - | - | - | OSV04-C01 |
| 14011 | Holmcroft, Stableford | 53 | 43 | 69/71 | 49 | 45 | 59 | 54 | 47 | 5 | 2 | Α | 7 | R | Т | - | - | - | - | OSV04-C01 |
| 14012 | Cloud End, Hill Chorlton | 63 | 53 | 77/78 | 60 | 56 | 59 | 65 | 58 | 5 | 2 | Α | 1 | R | Т | Н | - | - | - | OSV04-C01 |
| 14013 | Weston Lodge, Stableford | 48 | 38 | 64/65 | 49 | 43 | 53 | 52 | 44 | 3 | 1 | А | 1 | R | Т | - | - | - | - | # |
| 14014 | Oaklands, Whitmore | 52 | 42 | 69/71 | 49 | 43 | 62 | 54 | 46 | 5 | 3 | А | 3 | R | Т | - | - | - | - | ~ |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signi | ficance | criteria | | | | | | |
|---------|---|----------|-------------|------------|----------|------------------------|------------|----------|--------------|----------|-------------|---------------|------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | | thing (op paseline) | ening | + yea | ing oaseline | Chan | ge | ype of effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Jnique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of | Numbe | Type o | Recept | Existin | Unique | Combir | Mitigat | Signific |
| 14015 | Whitmore Hall: Dwellings And Committed Development 13/00403/FUL | 40 | 30 | 58/59 | 47 | 43 | 62 | 48 | 43 | 1 | 0 | A | 6 | R | Т | - | - | - | - | |
| 14017 | Smithfield Cottages, Whitmore | 47 | 37 | 64/65 | 58 | 53 | 62 | 58 | 53 | 0 | 0 | А | 10 | R | Т | - | - | - | - | |
| 14019 | Church Farm, Whitmore | 49 | 40 | 67/68 | 49 | 46 | 62 | 52 | 47 | 3 | 1 | А | 1 | R | Т | - | - | - | - | # |
| 14022 | The Delves, Hill Chorlton | 56 | 47 | 72/74 | 44 | 40 | 53 | 57 | 48 | 13 | 8 | Α | 2 | R | Т | - | - | - | - | OSV04-C01 |
| 14023 | Harfield, Hill Chorlton | 60 | 50 | 76/77 | 49 | 45 | 53 | 60 | 51 | 11 | 6 | Α | 2 | R | Т | - | - | - | - | OSV04-C01 |
| 14024 | Smithy Lane, Whitmore | 47 | 37 | 66/67 | 57 | 53 | 62 | 57 | 53 | 0 | 0 | А | 3 | R | Т | - | - | - | - | |
| 14026 | Whitmore Lea, Whitmore | 48 | 38 | 67/68 | 53 | 49 | 62 | 54 | 49 | 1 | 0 | А | 3 | R | Т | - | - | - | - | |
| 14027 | The Old Parsonage, Whitmore | 42 | 32 | 58/59 | 41 | 38 | 62 | 44 | 39 | 3 | 1 | Α | 1 | R | Т | - | - | - | - | # |
| 14028 | The Grooms House, Hill Chorlton | 47 | 37 | 61/62 | 42 | 35 | 45 | 48 | 39 | 6 | 4 | Α | 4 | R | Т | - | - | - | - | # |
| 14030 | Hawthorne Hill, Whitmore | 46 | 36 | 65/66 | 45 | 41 | 62 | 49 | 42 | 4 | 1 | Α | 2 | R | Т | - | - | - | - | # |
| 14032 | Jennings Farm, Hill Chorlton | 43 | 33 | 59/60 | 42 | 35 | 45 | 45 | 37 | 3 | 2 | А | 4 | R | Т | - | - | - | - | # |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signif | ficance | criteria | | | | | | |
|---------|------------------------------------|----------|-------------|------------|----------|-------------------------|------------|----------|-----------------|----------|-------------|---------|---------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | | othing (op paseline) | ening | + year | ing paseline | Chang | ge | feffect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Jnique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of | Numbereprese | Туре о | Recept | Existin | Unique | Combi | Mitiga | Signifi |
| 14033 | The Old Rectory, Whitmore | 48 | 38 | 64/65 | 48 | 44 | 62 | 51 | 45 | 3 | 1 | А | 1 | R | Т | - | - | - | - | # |
| 14035 | The Hill, Whitmore | 46 | 36 | 71/72 | 50 | 46 | 62 | 51 | 46 | 1 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14036 | Chapel House, Hill Chorlton | 44 | 34 | 61/62 | 49 | 42 | 45 | 50 | 43 | 1 | 1 | А | 5 | R | Т | - | - | - | - | |
| 14037 | Stone Road, Hill Chorlton | 45 | 35 | 63/64 | 39 | 35 | 45 | 46 | 38 | 7 | 3 | А | 1 | R | Т | - | - | - | - | # |
| 14038 | Coneygreave Farmhouse, Whitmore | 44 | 34 | 63/64 | 48 | 38 | 50 | 49 | 40 | 1 | 2 | А | 1 | R | Т | - | - | - | - | |
| 14039 | Appleton Drive, Whitmore | 43 | 33 | 60/61 | 57 | 54 | 58 | 57 | 54 | 0 | 0 | А | 15 | R | Т | - | - | - | - | |
| 14041 | Heath Road, Whitmore | 37 | 27 | 64/65 | 44 | 40 | 52 | 45 | 40 | 1 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14043 | Heath Road, Whitmore | 27 | 18 | 54/56 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 2 | R | Т | - | - | - | - | |
| 14044 | Coneygreave Lane, Whitmore | 39 | 30 | 56/57 | 43 | 38 | 50 | 45 | 39 | 2 | 1 | NA | 11 | R | Т | - | - | - | - | |
| 14045 | Dab Green, Whitmore | 35 | 25 | 51/52 | 43 | 43 | 60 | 44 | 43 | 1 | 0 | NA | 2 | R | Т | - | - | - | - | |
| 14046 | Heath Road, Whitmore | 23 | 14 | 55/56 | 44 | 38 | 51 | 44 | 38 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |

| Assessm | ent location | Impac | t criteria | | | | | | | | | Signif | ficance o | riteria | | | | | | |
|---------|---|----------|-------------------------|------------|----------|------------------------|------------|----------|----------------|----------|-------------|---------------|---------------------------------|------------------|-----------------|---------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche 15 traffic) | | | thing (op paseline) | ening | + year | ing aseline | Chang | ge | ype of effect | Number of impacts epresented | Type of receptor | Receptor design | g environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of ir represented | Туре о | Recept | Existing | Unique | Combi | Mitiga | Signific |
| 14047 | Broadlands, Heath Rise, Whitmore Heath | 17 | 10 | 5/5 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |
| 14050 | Common Lane, Whitmore | 38 | 28 | 60/61 | 61 | 58 | 62 | 61 | 58 | 0 | 0 | А | 9 | R | Т | Н | - | - | - | |
| 14051 | Heath Road, Whitmore | 41 | 31 | 67/68 | 44 | 40 | 52 | 46 | 41 | 2 | 1 | А | 2 | R | Т | - | - | - | - | |
| 14052 | Heath Road, Whitmore Heath | 18 | 11 | 45/46 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 2 | R | Т | - | - | - | - | |
| 14053 | Coneygreave Lane, Whitmore | 36 | 26 | 55/56 | 56 | 48 | 62 | 56 | 48 | 0 | 0 | NA | 8 | R | Т | - | - | - | - | |
| 14054 | Heath Road, Whitmore | 17 | 10 | 5/5 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |
| 14055 | Heath Road, Whitmore | 24 | 15 | 56/57 | 44 | 40 | 53 | 44 | 40 | 0 | 0 | NA | 5 | R | Т | - | - | - | - | |
| 14056 | Wyndways, Whitmore Heath | 17 | 10 | 5/5 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |
| 14057 | Heath Road, Whitmore | 36 | 27 | 60/61 | 44 | 40 | 53 | 45 | 40 | 1 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14058 | Sandy Ridge, Whitmore Heath | 17 | 10 | 5/5 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |
| 14059 | Common Farm, Whitmore Heath | 20 | 12 | 51/52 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 2 | R | Т | - | - | - | - | |
| 14060 | Fair-Green Road, Baldwin's Gate | 38 | 28 | 56/57 | 61 | 58 | 63 | 61 | 58 | 0 | 0 | NA | 24 | R | Т | Н | - | - | - | |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signi | ficance | criteria | | | | | | |
|---------|---|----------|-------------|------------|----------|-------------------------|------------|----------|-------------|----------|-------------|----------------|---------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | osed Sche | | | othing (op paseline) | ening | + year | ing aseline | Chang | ge | lype of effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of ir represented | Type o | Recept | Existin | Unique | Combi | Mitiga | Signifi |
| 14061 | Appleton Drive, Whitmore | 36 | 27 | 54/55 | 54 | 38 | 50 | 54 | 38 | 0 | 0 | NA | 4 | R | Т | - | - | - | - | |
| 14062 | Hunters Way, Whitmore Heath | 18 | 10 | 47/49 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |
| 14063 | Fair-Green Road, Baldwin's Gate | 37 | 28 | 55/56 | 47 | 44 | 50 | 47 | 44 | 0 | 0 | NA | 23 | R | Т | - | - | - | - | |
| 14065 | Appleton Drive, Whitmore | 36 | 26 | 54/55 | 56 | 38 | 50 | 56 | 38 | 0 | 0 | NA | 10 | R | Т | - | - | - | - | |
| 14066 | The Willows, Whitmore Heath | 20 | 12 | 55/56 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |
| 14067 | The Dingle, Whitmore Heath | 33 | 23 | 61/63 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14068 | Kepplestone, Whitmore Heath | 43 | 34 | 76/77 | 44 | 40 | 52 | 47 | 41 | 3 | 1 | А | 1 | R | Т | - | - | - | - | # |
| 14069 | Fernridge / Mandarin House, Whitmore Heath | 40 | 30 | 68/69 | 44 | 40 | 52 | 45 | 40 | 1 | 0 | А | 3 | R | Т | - | - | - | - | |
| 14070 | Snape Hall Close, Whitmore | 34 | 24 | 55/56 | 46 | 38 | 50 | 46 | 38 | 0 | 0 | NA | 10 | R | Т | - | - | - | - | |
| 14071 | The Nook / Tree Tops, Whitmore Heath | 17 | 10 | 52/54 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | NA | 2 | R | Т | - | - | - | - | |
| 14072 | Chorlton Moss Cottage, Baldwin's Gate | 38 | 29 | 58/59 | 36 | 32 | 45 | 40 | 34 | 4 | 2 | А | 6 | R | Т | - | - | - | - | # |

| Assessm | nent location | Impa | t criteria | | | | | | | | | Signi | ficance o | riteria | | | | | | |
|---------|--|----------|-------------|------------|----------|-------------------------|------------|----------|-------------|----------|-------------|----------------|---------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | | othing (op paseline) | ening | + year | ing aseline | Chang | ge | Type of effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Jnique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of ir represented | Туре о | Recept | Existin | Unique | Combi | Mitigat | Signifi |
| 14073 | The Chimes, Baldwin's Gate | 35 | 26 | 53/54 | 65 | 62 | 63 | 65 | 62 | 0 | 0 | NA | 5 | R | Т | Н | - | - | - | |
| 14074 | West Ridge, Birch Tree Lane, Whitmore Heath | 30 | 21 | 66/67 | 44 | 40 | 52 | 44 | 40 | 0 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14075 | Birch Tree Lane, Whitmore | 41 | 31 | 68/69 | 44 | 40 | 52 | 46 | 41 | 2 | 1 | А | 1 | R | Т | - | - | - | - | |
| 14077 | Birch Tree Lane, Whitmore | 44 | 35 | 68/69 | 40 | 36 | 52 | 46 | 38 | 6 | 2 | А | 2 | R | Т | - | - | - | - | # |
| 14078 | Snape Hall Road, Whitmore | 34 | 25 | 63/64 | 47 | 44 | 53 | 47 | 44 | 0 | 0 | А | 8 | R | Т | - | - | - | - | |
| 14079 | Birch Tree Lane, Whitmore | 46 | 36 | 71/73 | 44 | 40 | 52 | 48 | 42 | 4 | 2 | А | 1 | R | Т | - | - | - | - | # |
| 14080 | 1 Station Cottages, Baldwin's Gate | 34 | 25 | 53/54 | 65 | 62 | 63 | 65 | 62 | 0 | 0 | NA | 9 | R | Т | Н | - | - | - | |
| 14081 | Lea Close, Baldwin's Gate | 36 | 26 | 53/54 | 46 | 38 | 50 | 46 | 38 | 0 | 0 | NA | 41 | R | Т | - | - | - | - | |
| 14082 | Birch Tree Lane, Whitmore | 49 | 40 | 72/73 | 44 | 40 | 52 | 50 | 43 | 6 | 3 | Α | 1 | R | Т | - | - | - | - | OSVo4-Co3 |
| 14083 | Tollgate House, Baldwin's Gate | 34 | 25 | 52/53 | 60 | 56 | 62 | 60 | 56 | 0 | 0 | NA | 26 | R | Т | Н | - | - | - | |
| 14084 | Hillview Crescent, Baldwin's Gate | 34 | 24 | 53/54 | 65 | 61 | 63 | 65 | 61 | 0 | 0 | NA | 8 | R | Т | Н | - | - | - | |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signif | icance o | riteria | | | | | | |
|---------|--|----------|-------------|------------|----------|------------------------|------------|----------|--------------|----------|-------------|---------------|---------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|-------------------------|
| Ref | Area represented | only | sed Sche | | | thing (op paseline) | ening | + year | ing oaseline | Chang | ge | ype of effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Jnique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of ir represented | Туре о | Recept | Existin | Unique | Combii | Mitigat | Signific |
| 14085 | Hillview Crescent, Baldwin's Gate | 34 | 24 | 53/54 | 54 | 51 | 58 | 54 | 51 | 0 | 0 | NA | 28 | R | Т | - | - | - | - | |
| 14086 | Snape Hall Road, Whitmore | 42 | 32 | 62/63 | 46 | 43 | 52 | 47 | 43 | 1 | 0 | А | 3 | R | Т | - | - | - | - | |
| 14087 | Snape Hall Cottage, Snape Hall Road, Whitmore | 65 | 55 | 87/88 | 44 | 40 | 52 | 65 | 55 | 21 | 15 | S | 1 | R | Т | - | - | - | NI | OSV04-C03/ OSV04-D01 |
| 14088 | Woodberry/Foxdene, Snape Hall Road, Whitmore | 60 | 50 | 82/84 | 42 | 38 | 52 | 60 | 51 | 18 | 13 | S | 2 | R | Т | - | - | - | NI | OSV04-C03/ OSV04-D01 |
| 14090 | Snape Hall Road, Whitmore | 49 | 40 | 70/71 | 44 | 40 | 52 | 51 | 43 | 7 | 3 | Α | 3 | R | Т | - | - | - | - | OSVo4-Co3 |
| 14091 | Sandyfields, Baldwin's Gate | 34 | 24 | 52/53 | 48 | 38 | 50 | 48 | 38 | 0 | 0 | NA | 27 | R | Т | - | - | - | - | |
| 14094 | Snape Hall Farm, Snape Hall Road, Whitmore | 54 | 44 | 79/81 | 37 | 34 | 52 | 54 | 45 | 17 | 11 | S | 1 | R | Т | - | - | - | NI | OSV04-C03/ OSV04-D01 |
| 14098 | Walls Wood, Baldwin's Gate | 44 | 34 | 61/63 | 55 | 52 | 58 | 55 | 52 | 0 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14099 | Walls Wood, Baldwin's Gate | 46 | 36 | 65/66 | 54 | 50 | 53 | 55 | 50 | 1 | 0 | Α | 19 | R | Т | - | - | - | - | |
| 14100 | Netherset Lane, Madeley | 48 | 38 | 63/64 | 45 | 40 | 51 | 50 | 42 | 5 | 2 | Α | 1 | R | Т | - | - | - | - | # |
| 14101 | Park Wood Drive, Baldwin's Gate | 47 | 37 | 64/65 | 54 | 50 | 53 | 55 | 50 | 1 | 0 | А | 7 | R | Т | - | - | - | - | |

| Assessm | ent location | Impac | t criteria | | | | | | | | | Signif | icance o | riteria | | | | | | |
|---------|---------------------------------|----------|-------------------------|------------|----------|------------------------|------------|----------|----------------|----------|-------------|----------------|---------------------------------|------------------|-----------------|----------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche 15 traffic) | | | thing (op paseline) | ening | + year | ing aseline | Chang | ge | Type of effect | Number of impacts epresented | Type of receptor | Receptor design | ig environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of in represented | Type o | Recept | Existing (| Unique | Combi | Mitiga. | Signifi |
| 14102 | Park Wood Drive, Baldwin's Gate | 45 | 36 | 64/65 | 51 | 47 | 53 | 52 | 47 | 1 | 0 | А | 15 | R | Т | - | - | - | - | |
| 14103 | Eastwood Rise, Baldwin's Gate | 47 | 37 | 63/64 | 50 | 47 | 53 | 52 | 47 | 2 | 0 | А | 6 | R | Т | - | - | - | - | |
| 14104 | Park Wood Drive, Baldwin's Gate | 46 | 36 | 63/64 | 47 | 43 | 53 | 49 | 44 | 2 | 1 | А | 15 | R | Т | - | - | - | - | |
| 14105 | Manor Glade, Baldwin's Gate | 41 | 31 | 60/61 | 46 | 42 | 53 | 47 | 42 | 1 | 0 | А | 12 | R | Т | - | - | - | - | |
| 14106 | Eastwood Rise, Baldwin's Gate | 47 | 37 | 63/64 | 50 | 46 | 53 | 52 | 47 | 2 | 1 | А | 7 | R | Т | - | - | - | - | |
| 14108 | Netherset Lane, Madeley | 51 | 42 | 69/70 | 45 | 40 | 51 | 52 | 44 | 7 | 4 | А | 2 | R | Т | - | - | - | - | ~ |
| 14110 | Park Wood Drive, Baldwin's Gate | 46 | 36 | 62/63 | 46 | 42 | 53 | 49 | 43 | 3 | 1 | А | 8 | R | Т | - | - | - | - | # |
| 14111 | Eastwood Rise, Baldwin's Gate | 46 | 37 | 62/63 | 46 | 43 | 53 | 49 | 44 | 3 | 1 | А | 11 | R | Т | - | - | - | - | # |
| 14112 | Manor Road, Madeley | 47 | 37 | 62/63 | 47 | 43 | 53 | 50 | 44 | 3 | 1 | А | 4 | R | Т | - | - | - | - | # |
| 14113 | Manor Road, Baldwin's Gate | 43 | 34 | 58/59 | 46 | 42 | 53 | 48 | 43 | 2 | 1 | А | 13 | R | Т | - | - | - | - | |
| 14114 | Manor Road, Baldwin's Gate | 40 | 31 | 55/56 | 43 | 36 | 53 | 45 | 37 | 2 | 1 | NA | 8 | R | Т | - | - | - | - | |
| 14115 | Manor Road, Madeley | 48 | 38 | 63/64 | 46 | 42 | 53 | 50 | 43 | 4 | 1 | А | 11 | R | Т | - | - | - | - | # |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signit | ficance | criteria | | | | | | |
|---------|--------------------------------|----------|-------------|------------|----------|------------------------|------------|----------|-------------|----------|-------------|-----------|------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | | thing (op paseline) | ening | + year | ing aseline | Chang | ge | f effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of (| Number of ir represented | Туре о | Recept | Existin | Unique | Combii | Mitigat | Signific |
| 14116 | Manor Road, Madeley | 50 | 40 | 64/65 | 44 | 42 | 53 | 51 | 44 | 7 | 2 | А | 2 | R | Т | - | - | - | - | ~ |
| 14118 | Knightley, Madeley | 43 | 34 | 59/61 | 46 | 40 | 50 | 48 | 41 | 2 | 1 | А | 36 | R | Т | - | - | - | - | |
| 14119 | Castle Lane, Madeley | 44 | 35 | 61/62 | 46 | 40 | 50 | 48 | 41 | 2 | 1 | А | 3 | R | Т | - | - | - | - | |
| 14120 | Manor Road, Madeley | 53 | 43 | 70/71 | 44 | 42 | 53 | 53 | 46 | 9 | 4 | Α | 1 | R | Т | - | - | - | - | ~ |
| 14121 | Dwelling At Hey House, Madeley | 63 | 54 | 79/80 | 40 | 35 | 58 | 63 | 54 | 23 | 19 | S | 1 | R | Т | - | - | - | NI | OSV04-D02 |
| 14122 | Birches Farm Mews, Madeley | 45 | 36 | 63/64 | 46 | 40 | 50 | 49 | 41 | 3 | 1 | А | 14 | R | Т | - | - | - | - | # |
| 14123 | Pastoral Close, Madeley | 44 | 35 | 62/64 | 46 | 40 | 50 | 48 | 41 | 2 | 1 | А | 14 | R | Т | - | - | - | - | |
| 14125 | Pastoral Close, Madeley | 44 | 34 | 60/61 | 46 | 40 | 50 | 48 | 41 | 2 | 1 | А | 12 | R | Т | - | - | - | - | |
| 14127 | Castle Lane, Madeley | 44 | 34 | 59/61 | 46 | 40 | 50 | 48 | 41 | 2 | 1 | А | 22 | R | Т | - | - | - | - | |
| 14128 | Vicarage Lane, Madeley | 46 | 36 | 63/64 | 48 | 44 | 50 | 50 | 45 | 2 | 1 | А | 4 | R | Т | - | - | - | - | |
| 14129 | The Holborn, Madeley | 43 | 33 | 61/62 | 53 | 45 | 59 | 53 | 45 | 0 | o | А | 13 | R | Т | - | - | - | - | |
| 14131 | Manor Road, Madeley | 62 | 52 | 76/77 | 53 | 42 | 51 | 62 | 52 | 9 | 10 | Α | 1 | R | Т | - | - | - | - | ~ |

| Assessm | nent location | Impa | ct criteria | | | | | | | | | Signif | icance o | criteria | | | | | | |
|---------|------------------------|----------|-------------|------------|----------|------------------------|------------|----------|-------------|----------|-------------|----------------|---------------------------------|------------------|-----------------|---------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | osed Sche | | | thing (op paseline) | ening | + year | ing aseline | Chan | ge | Type of effect | Number of impacts epresented | Type of receptor | Receptor design | g environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of ir represented | Туре о | Recept | Existing | Unique | Combi | Mitiga. | Signifi |
| 14132 | Vicarage Lane, Madeley | 46 | 36 | 63/64 | 49 | 42 | 50 | 51 | 43 | 2 | 1 | А | 13 | R | Т | - | - | - | - | |
| 14137 | Poolside, Madeley | 41 | 31 | 57/58 | 63 | 39 | 51 | 63 | 40 | 0 | 1 | А | 23 | R | Т | - | - | - | - | |
| 14140 | Willow Brook, Madeley | 43 | 34 | 60/61 | 46 | 40 | 50 | 48 | 41 | 2 | 1 | А | 2 | R | Т | - | - | - | - | |
| 14141 | Woore Road, Madeley | 46 | 36 | 64/65 | 50 | 47 | 50 | 51 | 47 | 1 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14142 | Station Road, Madeley | 49 | 39 | 66/68 | 60 | 57 | 63 | 60 | 57 | 0 | 0 | А | 10 | R | Т | Н | - | - | - | |
| 14144 | Smithy Corner, Madeley | 47 | 38 | 65/66 | 58 | 52 | 63 | 58 | 52 | 0 | 0 | Α | 3 | R | Т | - | - | - | - | |
| 14146 | Haywood Court, Madeley | 48 | 39 | 66/67 | 58 | 53 | 63 | 58 | 53 | 0 | 0 | Α | 5 | R | Т | - | - | - | - | |
| 14148 | Haywood Court, Madeley | 49 | 39 | 66/68 | 70 | 66 | 69 | 70 | 66 | 0 | 0 | А | 9 | R | Т | Н | - | - | - | |
| 14149 | Cherry Hill, Madeley | 42 | 32 | 58/59 | 41 | 36 | 50 | 44 | 37 | 3 | 1 | А | 54 | R | Т | - | - | - | - | # |
| 14150 | Moss Lane, Madeley | 48 | 38 | 65/67 | 68 | 64 | 66 | 68 | 64 | 0 | 0 | А | 10 | R | Т | Н | - | - | - | |
| 14151 | Morningside, Madeley | 43 | 33 | 60/61 | 46 | 43 | 50 | 48 | 43 | 2 | 0 | А | 26 | R | Т | - | - | - | - | |
| 14153 | Moss Lane, Madeley | 36 | 26 | 52/53 | 42 | 34 | 50 | 43 | 35 | 1 | 1 | NA | 16 | R | Т | - | - | - | - | |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signi | ficance | criteria | | | | | | |
|---------|-------------------------------|----------|-------------|------------|----------|------------------------|------------|----------|--------------|----------|-------------|-----------|------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | | thing (op paseline) | ening | + year | ing oaseline | Chang | ge | f effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of (| Number of ir represented | Type o | Recept | Existin | Unique | Combii | Mitigat | Signific |
| 14155 | John Offley Road, Madeley | 45 | 35 | 61/62 | 52 | 49 | 50 | 53 | 49 | 1 | 0 | А | 32 | R | Т | - | - | - | - | |
| 14156 | River Lea Mews, Madeley | 35 | 25 | 51/52 | 37 | 31 | 50 | 39 | 32 | 2 | 1 | NA | 10 | R | Т | - | - | - | - | |
| 14157 | Morningside, Madeley | 41 | 31 | 57/58 | 42 | 37 | 50 | 45 | 38 | 3 | 1 | А | 64 | R | Т | - | - | - | - | # |
| 14158 | Mallard Close, Madeley | 49 | 39 | 65/66 | 53 | 45 | 59 | 54 | 46 | 1 | 1 | Α | 5 | R | Т | - | - | - | - | |
| 14160 | John Offley Road, Madeley | 42 | 32 | 58/59 | 47 | 44 | 50 | 48 | 44 | 1 | 0 | А | 70 | R | Т | - | - | - | - | |
| 14161 | Bar Hill, Madeley | 49 | 39 | 64/65 | 52 | 49 | 59 | 54 | 49 | 2 | 0 | А | 2 | R | Т | - | - | - | - | |
| 14162 | Moss Lane, Madeley | 45 | 35 | 61/62 | 65 | 61 | 63 | 65 | 61 | 0 | 0 | А | 38 | R | Т | Н | - | - | - | |
| 14163 | Bar Hill, Madeley | 51 | 41 | 66/67 | 59 | 51 | 59 | 59 | 51 | 0 | 0 | А | 11 | R | Т | - | - | - | - | |
| 14164 | Morningside, Madeley | 40 | 30 | 57/59 | 45 | 39 | 50 | 46 | 40 | 1 | 1 | А | 21 | R | Т | - | - | - | - | |
| 14165 | Bar Hill, Madeley | 52 | 42 | 67/68 | 51 | 43 | 59 | 54 | 45 | 3 | 2 | А | 1 | R | Т | - | - | - | - | OSVo4-Co4 |
| 14166 | Charles Cotton Drive, Madeley | 38 | 28 | 55/56 | 39 | 35 | 50 | 41 | 36 | 2 | 1 | NA | 40 | R | Т | - | - | - | - | |
| 14168 | Moss Lane, Madeley | 43 | 33 | 59/60 | 60 | 57 | 63 | 60 | 57 | 0 | 0 | А | 42 | R | Т | Н | - | - | - | |

| Assessm | ent location | Impad | t criteria | | | | | | | | | Signif | ficance o | riteria | | | | | | |
|---------|--------------------------|----------|-------------|------------|----------|------------------------|------------|----------|-------------|----------|-------------|----------|---------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | sed Sche | | | thing (op paseline) | ening | + year | ing aseline | Chang | ge | f effect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of | Number of ir represented | Туре о | Recept | Existin | Unique | Combi | Mitigat | Signific |
| 14169 | Moss Lane, Madeley | 40 | 30 | 58/59 | 49 | 44 | 50 | 49 | 44 | 0 | 0 | Α | 13 | R | Т | - | - | - | - | |
| 14170 | Moss Lane, Madeley | 42 | 32 | 60/61 | 66 | 62 | 63 | 66 | 62 | 0 | 0 | А | 13 | R | Т | Н | - | - | - | |
| 14171 | Bar Hill, Madeley | 56 | 46 | 68/70 | 56 | 45 | 59 | 56 | 46 | 0 | 1 | А | 16 | R | Т | - | - | - | - | |
| 14172 | Heather Glade, Madeley | 38 | 28 | 55/56 | 37 | 32 | 50 | 41 | 34 | 4 | 2 | NA | 35 | R | Т | - | - | - | - | # |
| 14173 | Pear Tree Drive, Madeley | 39 | 29 | 56/57 | 41 | 36 | 50 | 43 | 37 | 2 | 1 | NA | 26 | R | Т | - | - | - | - | |
| 14174 | The Bridle Path, Madeley | 39 | 29 | 57/59 | 43 | 40 | 50 | 44 | 40 | 1 | 0 | А | 36 | R | Т | - | - | - | - | |
| 14176 | The Bridle Path, Madeley | 39 | 29 | 57/58 | 42 | 38 | 50 | 44 | 39 | 2 | 1 | А | 28 | R | Т | - | - | - | - | |
| 14177 | The Bridle Path, Madeley | 39 | 29 | 58/59 | 46 | 43 | 50 | 47 | 43 | 1 | 0 | А | 18 | R | Т | - | - | - | - | |
| 14178 | Bower End Lane, Madeley | 42 | 32 | 61/63 | 65 | 62 | 63 | 65 | 62 | 0 | 0 | А | 2 | R | Т | Н | - | - | - | |
| 14179 | The Bridle Path, Madeley | 40 | 30 | 58/59 | 40 | 36 | 50 | 43 | 37 | 3 | 1 | А | 13 | R | Т | - | - | - | - | # |
| 14180 | Bar Hill, Madeley | 57 | 47 | 73/74 | 55 | 44 | 59 | 58 | 47 | 3 | 3 | Α | 5 | R | Т | - | - | - | - | OSVo4-Co4 |
| 14182 | Furnace Lane, Madeley | 42 | 32 | 59/60 | 47 | 45 | 55 | 48 | 45 | 1 | 0 | Α | 2 | R | Т | - | - | - | - | |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signi | ficance o | riteria | | | | | | |
|---------|--|----------|-------------|------------|----------|------------------------|------------|----------|----------------|----------|-------------|----------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|-----------------------------|
| Ref | Area represented | only | sed Sche | | | thing (op paseline) | ening | + year | ing aseline | Chang | ge | lype of effect | er of impacts ented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Туре о | Number of in represented | Туре о | Recept | Existin | Unique | Combi | Mitiga. | Signifi |
| 14183 | 86 Bar Hill, Madeley | 63 | 53 | 79/80 | 52 | 39 | 59 | 63 | 53 | 11 | 14 | S | 2 | R | Т | - | - | - | NI | OSV04- C04/ OSV04-D03 |
| 14184 | Moss House Farm, Madeley | 40 | 30 | 59/60 | 51 | 47 | 54 | 51 | 47 | 0 | 0 | А | 5 | R | Т | - | - | - | - | |
| 14185 | Bower End Lane, Madeley | 46 | 37 | 66/67 | 48 | 35 | 48 | 50 | 39 | 2 | 4 | А | 4 | R | Т | - | - | - | - | # |
| 14187 | Bar Hill, Madeley | 54 | 44 | 70/71 | 43 | 41 | 54 | 54 | 46 | 11 | 5 | А | 2 | R | Т | - | - | - | - | OSVo4-Co4 |
| 14189 | Bower End Lane, Madeley | 42 | 32 | 65/66 | 48 | 46 | 55 | 49 | 46 | 1 | 0 | А | 1 | R | Т | - | - | - | - | |
| 14190 | Bar Hill, Madeley | 40 | 31 | 56/57 | 43 | 33 | 48 | 45 | 35 | 2 | 2 | NA | 5 | R | Т | - | - | - | - | |
| 14192 | Bower End Lane, Madeley | 46 | 37 | 67/68 | 39 | 33 | 44 | 47 | 38 | 8 | 5 | Α | 1 | R | Т | - | - | - | - | # |
| 14195 | Mill Lane, Wrinehill | 48 | 39 | 63/64 | 47 | 44 | 45 | 51 | 45 | 4 | 1 | Α | 6 | R | Т | - | - | - | - | # |
| 14199 | School Lane, Onneley | 41 | 31 | 57/58 | 39 | 33 | 44 | 43 | 35 | 4 | 2 | Α | 4 | R | Т | - | - | - | - | # |
| 14200 | Wrinehill Hall Farm, Mill Lane, Wrinehill | 62 | 53 | 78/80 | 36 | 33 | 56 | 62 | 53 | 26 | 20 | S | 1 | R | Т | - | - | - | NI | OSV04-D04 |
| 14205 | Wrinehill Mill, Wrinehill | 58 | 48 | 73/74 | 48 | 45 | 56 | 58 | 50 | 10 | 5 | Α | 1 | R | Т | - | - | - | - | ~ |

| Assessm | ent location | Impa | t criteria | | | | | | | | | Signit | ficance o | criteria | | | | | | |
|---------|--|----------|-------------|------------|----------|-------------------------|------------|----------|----------------|----------|-------------|-----------|---------------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | osed Sche | | | othing (op paseline) | ening | + year | ing aseline | Chang | ge | feffect | Number of impacts epresented | Type of receptor | Receptor design | Existing environment | Jnique feature | Combined impact | Mitigation effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of (| Number of ir represented | Type o | Recept | Existin | Unique | Combi | Mitiga | Signifi |
| 14208 | Snape Hall Farmhouse, Snape Hall Road, Whitmore Heath | 51 | 41 | 74/75 | 48 | 45 | 52 | 53 | 47 | 5 | 2 | A | 1 | R | Т | - | - | - | - | OSVo4-Co3 |
| 14210 | Manor Farmhouse, Madeley (CD Ref: 10/00108/FUL) | 53 | 43 | 67/68 | 46 | 39 | 51 | 54 | 45 | 8 | 6 | A | 3 | CD-R | Т | - | - | - | - | ~ |
| 14214 | Appleton Drive, Whitmore (CD Ref.: 13/00145/OUT) | 35 | 25 | 53/54 | 59 | 38 | 50 | 59 | 38 | 0 | 0 | NA | 113 | CD-R | Т | - | - | - | - | |
| 14215 | Birch Tree Lane, Whitmore (CD Ref.: 15/00281/FUL) | 45 | 36 | 65/66 | 46 | 43 | 52 | 49 | 44 | 3 | 1 | А | 1 | CD-R | Т | - | - | - | - | # |
| 14216 | Haywood Court, Madeley (CD Ref.: 15/00277/FUL) | 50 | 40 | 67/68 | 71 | 66 | 69 | 71 | 66 | 0 | 0 | А | 4 | CD-R | Т | Н | - | - | - | |
| 14217 | Moss Lane, Madeley (CD Ref.: 14/00691/FUL) | 48 | 38 | 65/66 | 71 | 67 | 70 | 71 | 67 | 0 | 0 | А | 1 | CD-R | Т | Н | - | - | - | |
| 14218 | Moss Lane, Madeley (CD Ref.: 12/00028/FUL) | 48 | 39 | 66/67 | 71 | 67 | 70 | 71 | 67 | 0 | 0 | А | 2 | CD-R | Т | Н | - | - | - | |
| 14219 | The Bridle Path, Madeley (CD Ref.: 13/00990/OUT) | 39 | 29 | 58/59 | 50 | 47 | 54 | 50 | 47 | 0 | 0 | А | 42 | CD-R | Т | - | - | - | - | |
| 14220 | Whitmore Arms, Madeley | 45 | 35 | 62/63 | 42 | 38 | 62 | 46 | 40 | 4 | 2 | А | 2 | R | Т | - | - | - | - | # |

| Assessm | ent location | Impa | ct criteria | | | | | | | | | Signi | ficance | criteria | | | | | | |
|---------|--|----------|-------------|------------|----------|-------------------------|------------|----------|--------------|----------|-------------|---------------|-----------------------------|------------------|-----------------|----------------------|----------------|-----------------|-------------|--------------------|
| Ref | Area represented | only | osed Sche | | | ething (op paseline) | ening | + year | ing oaseline | Chang | ge | ype of effect | er of impacts ented | Type of receptor | Receptor design | Existing environment | Unique feature | Combined impact | tion effect | Significant effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Турео | Number of in represented | Туре о | Recept | Existin | Unique | Combi | Mitigation | Signifi |
| 14233 | Woodcroft, Red Lane, Madeley | 55 | 45 | 70/72 | 52 | 48 | 59 | 56 | 50 | 4 | 2 | А | 1 | R | Т | - | - | - | - | OSVo4-Co4 |
| 14234 | Monument Lodge, Manor Road, Madeley | 52 | 42 | 70/71 | 61 | 58 | 59 | 61 | 58 | 0 | 0 | A | 1 | R | Т | Н | - | - | - | |
| 14235 | Station Road, Madeley | 50 | 40 | 67/69 | 73 | 68 | 70 | 73 | 68 | 0 | 0 | Α | 2 | R | Т | Н | - | - | - | |
| 14237 | Moss Lane, Madeley (CD Ref: 14/00009/FUL) | 40 | 30 | 58/59 | 49 | 44 | 50 | 49 | 44 | 0 | 0 | A | 1 | CD-R | Т | - | - | - | - | |
| 14238 | Bower End Lane, Madeley (CD Ref: 14/00132/FUL) | 37 | 27 | 55/56 | 51 | 47 | 54 | 51 | 47 | 0 | 0 | NA | 5 | CD-R | Т | - | - | - | - | |
| 14239 | The Moss, Moss Lane, Madeley (CD Ref: 14/00299/OUT) | 41 | 31 | 59/61 | 66 | 62 | 63 | 66 | 62 | 0 | 0 | А | 1 | CD-R | Т | Н | - | - | - | |
| 14240 | Manor Road, Madeley | 53 | 43 | 67/68 | 46 | 39 | 51 | 54 | 45 | 8 | 6 | Α | 1 | R | Т | - | - | - | - | ~ |
| 14241 | The Brackens, Heath Road, Whitmore Heath | 23 | 14 | 55/56 | 44 | 38 | 51 | 44 | 38 | 0 | 0 | NA | 1 | R | Т | - | - | - | - | |

Table 16: Operational airborne sound, noise impacts and significant effects: non-residential receptors

| Assessmer | nt location | Impa | t criteria | | | | | | | | | Sign | nificance | e criteri | а | | | | | |
|-----------|---|----------|-------------|------------|----------|------------------------|------------|----------|-----------------|----------|-------------|----------------|----------------------------------|----------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | osed Sche | | | thing (op paseline) | ening | + year | ing paseline | Chang | ge | ect | impacts d | of receptor | esign | Existing environment | ture | impact | effect | effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of effect | Number of impacts represented | Type of rec | Receptor design | Existing er | Unique feature | Combined impact | Mitigation effect | Significant effect |
| 8427(N) | Hey House & Edland Kennels/Cattery, Madeley | 63 | 54 | 79/80 | 46 | 42 | 58 | 63 | 54 | 17 | 12 | В | 1 | G5 | Т | - | - | - | - | OSVo4-No1 |
| 14018(N) | St Mary's & All Saints' Church, Whitmore | 45 | 36 | 63/64 | 54 | 51 | 62 | 55 | 51 | 1 | 0 | В | 1 | G ₃ | Т | - | - | - | - | |
| 14021(N) | North Staffordshire Hunt's Kennels, Hill Chorlton | 51 | 41 | 64/65 | 37 | 33 | 53 | 51 | 42 | 14 | 9 | В | 1 | G5 | Т | - | - | - | - | ~ |
| 14048(N) | Whitmore Village Hall, Whitmore | 37 | 27 | 55/56 | 45 | 38 | 50 | 46 | 38 | 1 | 0 | В | 1 | G ₃ | Т | - | - | - | - | |
| 14076(N) | Baldwin's Gate Church Of England Primary School | 35 | 26 | 53/54 | 51 | 38 | 50 | 51 | 38 | 0 | 0 | В | 1 | G4 | Т | - | - | - | - | |
| 14130(N) | Madeley Cemetery, Madeley | 62 | 53 | 80/81 | 55 | 50 | 58 | 63 | 55 | 8 | 5 | В | 1 | G ₃ | Т | - | - | - | - | OSV04-N02 |
| 14138(N) | All Saints' Church, Madeley | 45 | 36 | 63/64 | 57 | 48 | 50 | 57 | 48 | 0 | 0 | В | 1 | G ₃ | Т | - | - | - | - | |

| Assessmer | nt location | Impa | t criteria | | | | | | | | | Sigr | nificance | e criter | ia | | | | | |
|-----------|---|----------|-------------|------------|----------|-------------------------|------------|----------|-------------|----------|-------------|----------------|----------------------------------|----------------|-----------------|----------------------|----------------|-----------------|-------------------|--------------------|
| Ref | Area represented | only | osed Sche | | | othing (op paseline) | ening | + year | ing aseline | Chang | je | ect | impacts d | receptor | esign | Existing environment | ture | impact | effect | effect |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Type of effect | Number of impacts represented | Type of rec | Receptor design | Existing er | Unique feature | Combined impact | Mitigation effect | Significant effect |
| 14145(N) | Madeley Allotment, Madeley | 53 | 44 | 71/73 | 61 | 58 | 59 | 62 | 58 | 1 | 0 | В | 1 | G5 | Т | Н | - | - | - | |
| 14147(N) | Unreal Paintball Site, Manor Farm, Manor Road, Madeley | 53 | 43 | 67/68 | 46 | 39 | 51 | 54 | 45 | 8 | 6 | В | 1 | G5 | Т | - | - | - | - | ~ |
| 14152(N) | Sir John Offley Church Of England Primary School, Madeley | 46 | 36 | 64/65 | 57 | 53 | 63 | 57 | 53 | 0 | 0 | В | 1 | G4 | Т | - | - | - | - | |
| 14167(N) | Moss Lane GP Surgery, Madeley | 40 | 30 | 57/58 | 48 | 43 | 50 | 49 | 43 | 1 | 0 | В | 1 | G4 | Т | - | - | - | - | |
| 14207(N) | Whitmore Post Office, Baldwin's Gate | 35 | 26 | 53/54 | 66 | 38 | 50 | 66 | 38 | 0 | 0 | В | 1 | G ₅ | Т | Н | - | - | - | |
| 14213(N) | Hillview Crescent, Baldwin's Gate (CD Ref.: 13/00426/OUT) | 34 | 25 | 55/56 | 61 | 58 | 63 | 61 | 58 | 0 | 0 | В | 1 | G50 | Т | Н | - | - | - | |

Direct impact - Summary

5.2.9 The operational airborne noise impacts identified in Table 15 and Table 16 are summarised in Table 17.

Table 17: Summary of operational airborne sound impacts

| Receptor type | Numbers of impact (Numbers of impacts excluding | those in commi | tted develo | pments) | |
|----------------------------|---|----------------|------------------|----------|---------|
| | Above LOAEL | Above SOAEL | Impacts Minor | Moderate | Major |
| Residential properties | 969 (914) | 9 (9) | 12 (12) | 21 (18) | 17 (17) |
| Non-residential properties | N/A | N/A | | | 2 |
| Schools | N/A | N/A | | | None |
| Quiet areas | N/A | N/A | | | None |

Airborne sound: indirect impacts and effects

- The transport assessment presented in Volume 5: Appendix TR-000-001, has been used to identify those roads or railways within this study area where the alignment remains as at present, but a change in flow or composition is identified which is greater than the screening criteria defined in Volume 5: Appendix SV-001-000.
- 5.2.11 No roads or railways which exceed the criteria defined in Volume 5: Appendix SV-001-000 have been identified in this study area. The assessment of operational noise and vibration indicates that significant indirect effects on residential receptors are unlikely to occur in this area.

Airborne sound levels used in other assessments

The operational sound results contained in this document have been used by other disciplines, namely agriculture, cultural heritage, landscape and visual, communities and socio economics, in their assessments. This includes the information in Table 15 and Table 16. Locations of interest to these other disciplines which may not appear in Table 15 and Table 16 are presented in Table 18.

Table 18: Operational airborne sound level for use in cross discipline assessments

| Assessmen | nt location | Soun | d level inf | ormation | l | | | | | | | Discip | oline | | | |
|----------------------|--|----------|-------------|------------|--------------------------|-------------|------------|-----------------|---|----------|-------------|-------------|-------------|----------|-----------------------|----------------|
| Ref | Area represented | only | sed Sche | | Do no (Oper baseli | ing year | | (Oper baseli | mething ning year ne + Year ffic) **** | Chang | ge | Agriculture | Communities | ıge | Landscape & visual | Socio-economic |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Agricu | Сотп | Heritage | Lands visual | Socio |
| 8 ₃₇ 8(N) | Snape Hall Farm, Snape Hall Road, Whitmore Heath | 54 | 44 | 72/73 | 44 | 40 | 52 | 54 | 46 | 10 | 6 | Y | - | - | - | - |
| 8 ₃ 88(N) | Bar Hill House Farm, Bar Hill | 55 | 45 | 71/72 | 48 | 37 | 54 | 56 | 46 | 8 | 9 | Y | - | - | - | - |
| 8486(N) | Offley Almshouses, Madeley | 50 | 40 | 67/69 | 73 | 68 | 70 | 73 | 68 | 0 | 0 | - | - | Υ | - | Y |
| 8427(N) | Hey House & Edland Kennels/Cattery, Madeley | 63 | 54 | 79/80 | 46 | 42 | 58 | 63 | 54 | 17 | 12 | - | - | Υ | - | 1 |
| 14018(N) | St Mary's & All Saints' Church, Whitmore | 45 | 36 | 63/64 | 54 | 51 | 62 | 55 | 51 | 1 | 0 | - | - | - | - | - |
| 14020(N) | The Mainwaring Arms, Whitmore | 46 | 37 | 64/65 | 65 | 61 | 62 | 65 | 61 | 0 | 0 | - | - | - | - | Υ |
| 14021(N) | North Staffordshire Hunt's Kennels, Hill Chorlton | 51 | 41 | 64/65 | 37 | 33 | 53 | 51 | 42 | 14 | 9 | - | - | - | - | - |
| 14025(N) | Whitmore Cricket Ground, Whitmore | 53 | 43 | 70/71 | 46 | 45 | 62 | 54 | 47 | 8 | 2 | - | - | - | - | - |
| 14048(N) | Whitmore Village Hall, Whitmore | 37 | 27 | 55/56 | 45 | 38 | 50 | 46 | 38 | 1 | 0 | - | - | - | - | - |
| 14076(N) | Baldwin's Gate Church Of England Primary School | 35 | 26 | 53/54 | 51 | 38 | 50 | 51 | 38 | 0 | 0 | - | - | - | - | - |
| 14130(N) | Madeley Cemetery, Madeley | 62 | 53 | 80/81 | 55 | 50 | 58 | 63 | 55 | 8 | 5 | - | - | - | - | - |

| Assessmer | nt location | Sound | d level inf | ormation | | | | | | | | Discip | oline | | | |
|-----------|--|----------|-------------|------------|--------------------------|-------------|------------|-----------------|---|----------|-------------|------------|-------------|----------|-----------------------|----------------|
| Ref | Area represented | only | sed Sche | | Do no (Oper baseli | ning year | | (Oper baseli | mething ning year ne + Year ffic) **** | Chang | je | griculture | Communities | ıge | Landscape & visual | Socio-economic |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Agric | Comm | Heritage | Lands visual | Socio |
| 14138(N) | All Saints' Church, Madeley | 45 | 36 | 63/64 | 57 | 48 | 50 | 57 | 48 | 0 | 0 | - | - | - | - | - |
| 14145(N) | Madeley Allotment, Madeley | 53 | 44 | 71/73 | 61 | 58 | 59 | 62 | 58 | 1 | 0 | - | - | - | - | - |
| 14147(N) | Unreal Paintball Site, Manor Farm, Manor Road, Madeley | 53 | 43 | 67/68 | 46 | 39 | 51 | 54 | 45 | 8 | 6 | - | Y | - | - | - |
| 14152(N) | Sir John Offley Church Of England Primary School, Madeley | 46 | 36 | 64/65 | 57 | 53 | 63 | 57 | 53 | 0 | 0 | - | - | - | - | - |
| 14167(N) | Moss Lane GP Surgery, Madeley | 40 | 30 | 57/58 | 48 | 43 | 50 | 49 | 43 | 1 | 0 | - | - | - | - | - |
| 14203(N) | Wrinehill Gardens, Wrinehill Hall, Wrinehill | 63 | 54 | 79/80 | 35 | 31 | 56 | 63 | 54 | 28 | 23 | Υ | - | Υ | - | - |
| 14204(N) | Wrinehill Mill Farm, Wrinehill | 62 | 52 | 78/80 | 44 | 40 | 56 | 62 | 52 | 18 | 12 | Υ | - | - | - | - |
| 14206(N) | Sheet Anchor Pub, Baldwin's Gate | 35 | 25 | 52/53 | 58 | 38 | 50 | 58 | 38 | 0 | 0 | - | - | - | - | Υ |
| 14207(N) | Whitmore Post Office, Baldwin's Gate | 35 | 26 | 53/54 | 66 | 38 | 50 | 66 | 38 | 0 | 0 | - | Υ | - | - | - |
| 14209(N) | Old Madeley Manor (Off Manor Road), Madeley | 48 | 38 | 63/65 | 44 | 42 | 53 | 49 | 44 | 5 | 2 | - | - | Υ | - | - |
| 14211(N) | Offley Well Head, Madeley | 54 | 44 | 72/73 | 58 | 55 | 59 | 59 | 55 | 1 | 0 | - | - | Υ | - | - |
| 14212(N) | Madeley White Star Football Club, Madeley | 57 | 48 | 75/76 | 52 | 48 | 59 | 58 | 51 | 6 | 3 | - | Υ | - | - | - |

| Assessmer | nt location | Sound | d level inf | ormation | | | | | | | | Discip | line | | | |
|-----------|--|----------|-------------|------------|--------------------------|-------------|------------|-----------------|---|----------|-------------|-------------|-------------|----------|-----------------------|----------------|
| Ref | Area represented | only | sed Sche | | Do no (Open baseli | ing year | | (Oper baseli | mething ning year ne + Year ffic) **** | Chang | је | Agriculture | Communities | ıge | Landscape & visual | Socio-economic |
| | | Day * | Night ** | Max *** | Day * | Night ** | Max *** | Day * | Night ** | Day * | Night ** | Agricu | Сошп | Heritage | Lands visual | Socio |
| 14222(N) | Snape Hall Road, Whitmore | 40 | 31 | 63/64 | 56 | 53 | 58 | 56 | 53 | o | 0 | - | - | - | Y | - |
| 14223(N) | Walls Wood, Baldwins Gate | 45 | 36 | 65/66 | 56 | 53 | 58 | 56 | 53 | 0 | 0 | - | - | - | Y | - |
| 14224(N) | The Old Rectory, Whitmore | 46 | 36 | 64/65 | 44 | 40 | 62 | 48 | 42 | 4 | 2 | - | - | - | Y | - |
| 14225(N) | Netherset Lane, Madeley | 54 | 44 | 68/69 | 45 | 40 | 51 | 54 | 45 | 9 | 5 | - | - | - | Y | - |
| 14226(N) | Baldwin's Gate Sandstone Hills And Heaths #1 | 52 | 42 | 67/68 | 43 | 39 | 53 | 52 | 44 | 9 | 5 | - | - | - | Y | - |
| 14227(N) | Manor Road, Madeley | 45 | 35 | 60/61 | 46 | 42 | 53 | 48 | 43 | 2 | 1 | - | - | - | Y | - |
| 14228(N) | Netherset Lane, Madeley | 51 | 41 | 64/66 | 44 | 40 | 51 | 52 | 44 | 8 | 4 | - | - | - | Y | - |
| 14229(N) | Bar Hill, Madeley | 45 | 36 | 62/63 | 35 | 33 | 54 | 46 | 38 | 11 | 5 | - | - | - | Y | - |
| 14230(N) | Bar Hill, Madeley | 60 | 51 | 76/77 | 34 | 32 | 54 | 60 | 51 | 26 | 19 | - | - | - | Y | - |
| 14231(N) | Mill Lane, Wrinehill | 62 | 53 | 78/80 | 39 | 33 | 44 | 62 | 53 | 23 | 20 | - | - | - | Υ | - |
| 14232(N) | School Lane, Onneley | 56 | 46 | 71/73 | 39 | 33 | 44 | 56 | 46 | 17 | 13 | - | - | - | Υ | - |

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