

High Speed Rail (Crewe – Manchester) Environmental Statement

Volume 5: Appendix SV-002-0MA01

Sound, noise and vibration

MA01: Hough to Walley's Green

Baseline and construction sound, noise and vibration report

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Baseline and construction sound, noise and
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Department for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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1 Introduction

- 1.1.1 This report is an appendix to the sound, noise and vibration assessment relating to the Hough to Walley's Green area (MA01). This appendix presents baseline and predicted construction sound, noise and vibration levels.
- 1.1.2 This appendix should be read in conjunction with:
- Volume 2, Community Area reports;
 - Volume 3, Route-wide effects;
 - Volume 4, Off-route effects; and
 - Volume 5, Appendices.
- 1.1.3 There are three sound, noise and vibration appendices relevant to each community area, of which this should be considered the second. The first appendix contains an introduction to policy relevant to sound, noise and vibration and the assessment methodology, and can be found as Volume 5: Appendix SV-001-00000. This relates to all community areas. As the second appendix of the series, this report for MA01 provides the baseline and predicted levels as described above.
- 1.1.4 The third appendix is also specific to MA01, and provides detailed operational sound, noise and vibration levels, see Volume 5, Appendix SV-003-0MA01. This report should be read in conjunction with Map Series SV-03 in the Volume 5 Sound, noise and vibration Map Book.

2 Scope, assumptions and limitations

2.1 Regional and local policy guidance

2.1.1 The policy framework for sound, noise and vibration is set out in Volume 1, Section 8, and in Volume 5, Appendix SV-001-00000. 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 was requested. For MA01, the guidance within the following documents has been considered when applying the impact and significance criteria set out in the Environmental Impact Assessment Scope and Methodology Report (SMR), (see Volume 5: Appendix CT-001-00001):

- the adopted Cheshire East Local Plan, which consists of a number of key documents which form part of the statutory development plan including: the Local Plan Strategy 2010-2030 (2017)¹; and
- the saved policies from the previous local plans including the Congleton Borough Local Plan First Review 1986-2001 (2005)² and the Borough of Crewe and Nantwich Replacement Local Plan 2011 (2005)³.

2.2 Engagement

2.2.1 Details of engagement on a route-wide basis with the local and county authorities' Environmental Health Practitioners are set out in Volume 1.

2.2.2 Meetings have been held with representatives of Cheshire East Council (CEC)⁴ regarding the approach taken to baseline monitoring within this area, the identification of noise and vibration sensitive receptors, the selection of assessment locations and 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 are reported in this appendix. CEC officers were also

¹ Cheshire East Council (2017), *Local Plan Strategy 2010-2030 (Adopted 2017)*. Available online at: <https://www.cheshireeast.gov.uk/pdf/planning/local-plan/local-plan-strategy-web-version-1.pdf>.

² Congleton Borough (2005), *Congleton Borough Local Plan First Review. The First Written Review Statement*. Available online at: https://www.cheshireeast.gov.uk/pdf/planning/spatial-planning/local-plan-consultations/cbc_local_plan_first_review_written_statemement.pdf.

³ Borough of Crewe and Nantwich (2005), *Borough of Crewe and Nantwich Replacement Local Plan 2011*. Available online at: http://www.cheshireeasthighways.org/uploads/8_en-ldf-cnbclocalplan.pdf.

⁴ Meetings held on 6 July 2018 with CEC, and on 7 February 2018, 16 May 2018, 20 February 2019, 5 June 2019, 22 October 2020 and 7 July 2021 with the local and county authorities' Environmental Health Practitioners on a route wide basis.

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invited to attend baseline sound measurements in this area and witness the measurement procedures used.

- 2.2.4 Local engagement, prior to and through the working draft Environmental Statement report consultation provided opportunities for local stakeholders to suggest appropriate baseline sound monitoring locations, to confirm building uses and to review 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. Further information is contained in Volume 5, Appendix SV-001-00000.

2.4 Assumptions

- 2.4.1 Route-wide assumptions are outlined in Volume 1, Section 8, and are further detailed in Volume 5, Appendix SV-001-00000. Local assumptions that apply to the assessment of construction sound noise and vibration within this area are set out in Volume 2, Community Area report: Hough to Walley's Green (MA01), Section 13.

2.5 Limitations

- 2.5.1 The route-wide limitations and the approach adopted to ensure that they will not compromise the robust assessment of sound, noise and vibration are presented in Volume 5, Appendix SV-001-00000 and Volume 2.

3 Baseline

3.1 Existing acoustic environment

- 3.1.1 The Hough to Walley's Green area is characterised as a predominantly urban setting due to the presence of the large town of Crewe. There are also a mix of small towns, villages, hamlets and isolated residential properties in the area surrounding Crewe that are characterised as being a predominantly rural setting. The sound environment is generally dominated by local and distant road traffic, trains and local neighbourhood sources, with natural and agricultural sounds plus distant overhead aircraft also contributing.
- 3.1.2 There are several main roads that contribute to the sound environment within the Hough to Walley's Green area: the A531 Main Road/Newcastle Road that runs through Betley, Chorlton and Weston and Basford; the A500 Shavington Bypass that runs through Barthomley, Weston and Basford, Shavington and Willaston; the A534 Nantwich Road/Crewe Road that runs through Crewe connecting Willaston and Sandbach; the A5020 University Way that connects the A500 Shavington Bypass to the A534 Nantwich Road in Crewe; the A532 Weston Road to Coppenhall Lane that runs through Crewe; the A5019 Mill Street/Vernon Way and the A5078 Oak Street/Dunwoody Way that connects the A534 Nantwich Road to the A532 Weston Road in the west of Crewe; and the A530 Middlewich Road/Nantwich Road that connects Nantwich to Middlewich.
- 3.1.3 There are also a number of railways contributing to the sound environment in the Hough to Walley's Green area: the West Coast Main Line (WCML) running in a south to north direction; the Crewe to Derby Line, running in a west to east direction; the Crewe to Shrewsbury Line running in an east to west direction; the Crewe to Manchester Line running in a south-west to north-east direction; and the North Wales Coast Line running in a south-east to north-west direction.
- 3.1.4 Sound levels close to these main transport routes are high during the daytime and are generally lower at night. Sound levels decrease with increasing distance from the main transportation routes.
- 3.1.5 The communities of Hough, Basford and Weston are characterised by sound from the A500 Shavington Bypass, the WCML and local roads, including Weston Lane and Newcastle Road. Properties close to the WCML typically experience both daytime and night-time sound levels of 60dB – 65dB. Properties close to local roads typically experience daytime sound levels of 50dB – 55dB and 45dB – 50dB during the night-time. The properties set further back from the main transportation sound sources typically experience daytime sound levels of 40dB – 50dB and 35dB – 45dB during the night-time.
- 3.1.6 The area of South Crewe centred around Crewe Station is characterised by sound from the WCML, the Crewe to Shrewsbury Line to the west, the Crewe to Derby Line to the east, the A532 Weston Road, the A534 Nantwich Road, the A5019 Mill Street, the A5078 Edleston Road

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and local roads. Properties close to the main transportation sound sources in the area of South Crewe centred around Crewe Station typically experience daytime sound levels of 60dB – 70dB and 55dB – 65dB during night-time. The properties set further back from the main transportation sound sources typically experience daytime sound levels of 50dB – 55dB and 45dB – 50dB during the night-time.

- 3.1.7 The area of Central Crewe and North Crewe towards Coppenhall is characterised by sound from the WCML, the North Wales Coast Line to the west, the Crewe to Manchester Line to the east, the A532 Weston Road, the A5078 Edleston Road; and local roads. Properties close to the WCML in the area of Central Crewe and North Crewe towards Coppenhall typically experience both daytime and night-time sound levels of 60dB – 65dB. Properties close to the A532 Weston Road typically experience daytime sound levels of 60dB – 65dB and 50dB – 55dB during the night-time. The properties set further back from the main transportation sound sources typically experience daytime sound levels of 45dB – 55dB and 35dB – 45dB during the night-time.
- 3.1.8 The community of Leighton is characterised by sound from the WCML to the east, the A530 Middlewich Road to the west and various minor roads. Properties close to the WCML typically experience daytime and night-time sound levels of 60dB – 65dB. Properties close to the A530 typically experience daytime sound levels of 60dB – 65dB and 55dB – 60dB during the night-time. Properties close to minor roads typically experience daytime sound levels of 55dB – 60dB and 50dB – 55dB during the night-time. The properties set further back from the main transportation sound sources typically experience daytime sound levels of 45dB – 55dB and 35dB – 45dB during the night-time.
- 3.1.9 The community of Warmingham is characterised by sound from various minor roads and from the WCML to the west. Properties typically experience daytime sound levels of 45dB – 50dB and 40dB – 45dB during the night-time.
- 3.1.10 The communities of Minshull Vernon and Walley's Green are characterised by sound from the A530 Middlewich Road and the WCML. Properties close to the WCML typically experience daytime and night-time sound levels of 60dB – 65dB. Properties close to the A530 Nantwich Road typically experience daytime sound levels of 60dB – 65dB and 55dB – 60dB during the night-time. The properties set further back from the main transportation sound sources typically experience daytime sound levels of 45dB – 55dB and 35dB – 45dB during the night-time.

3.2 Existing baseline data collection methodology

- 3.2.1 The overall approach to baseline data collection for sound, noise and vibration is described in Volume 5, Appendix SV-001-00000. In summary, the approach to defining baseline levels includes a combination of sound monitoring and – where existing sound levels at assessment locations are dominated by transport sources which can be reliably modelled – sound modelling, verified using results from sound monitoring.

3.3 Existing baseline sound measurement locations

- 3.3.1 The assessment of impacts has been undertaken at assessment locations that are representative of a number of dwellings or other sensitive receptors. Baseline monitoring locations have been defined in order to provide representative sound levels at assessment locations within the study area as well as to verify the baseline sound model.
- 3.3.2 Baseline information has been gathered incrementally through successive rounds of field surveys focused on locations where likely significant effects are forecast.
- 3.3.3 Where measured baseline data are required to provide representative sound levels at assessment locations, areas have been defined within which the sound climate is influenced by the same sound sources. Within each of these areas, monitoring has been undertaken together with attended observations to assist in identifying the contributing sources to the sound climate at the measurement locations.
- 3.3.4 Where measurements, carried out at or close to assessment locations, have been used to assist in verifying the baseline sound model, they are identified in Table 1 along with the modelled baseline for the relevant assessment location.
- 3.3.5 Within MA01, 10 baseline measurement locations have been defined. The measurement locations are shown on the detailed maps in Volume 5, Sound, noise and vibration Map Book: Map Series SV-02 and SV-03.
- 3.3.6 These 10 locations were all long-term measurement locations, comprising unattended measurements of several days' duration.
- 3.3.7 An additional 26 verification measurements have been carried out, typically close to modelled sound sources and over durations of three hours (attended) or 24 hours (unattended), to assist in verifying the baseline sound model.

3.4 Existing baseline sound modelling

- 3.4.1 Baseline sound levels have been modelled where existing sound levels at assessment locations are dominated by transport sources which can be reliably modelled. Methodologies from the Calculation of Road Traffic Noise⁵ and the Calculation of Railway Noise⁶ have been used to predict baseline levels of airborne sound from road traffic and railways respectively. The methods use input data such as traffic flows and speed to predict sound levels. As described previously, verification measurements have been carried out to assist in verifying the baseline sound model.

⁵ Department of Transport Welsh Office (1988), *Calculation of Road Traffic Noise*.

⁶ Department of Transport (1995), *Calculation of Railway Noise*.

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- 3.4.2 Within the Hough to Walley's Green area, noise from all major roads and railways including the A500 Shavington Bypass, the A534 Nantwich Road, the A5020 University Way, the A530 Middlewich Road, the A532 West Road, approximately 40 other roads, the WCML, the Crewe to Derby Line, the Crewe to Shrewsbury Line, the Crewe to Manchester Line, and the North Wales Coast Line have been modelled.

3.5 Future baseline methodology

Construction

- 3.5.1 The assessment of noise from construction activities assumes a future construction baseline year of 2025, which represents the period immediately prior to the start of the construction period. As a reasonable worst case, it has been assumed that no change in baseline sound levels will occur between the existing baseline year of 2018 and the future construction baseline year of 2025.

Operation

- 3.5.2 Changes in road and rail traffic between 2018 and 2038 may result in changes in baseline sound levels at receptors. For modelled transportation sources, future baseline sound levels for operation (2038) have been predicted, based on, for example, expected changes in road traffic flow, composition, speed, and in some cases road surface using the methodology from the Calculation of Road Traffic Noise.
- 3.5.3 Changes in noise level as a result of changes in road traffic flow, composition and speed are normally small. Roads in Important Areas identified in Department for Environment, Food & Rural Affairs' (Defra) Noise Action Plans⁷ and trunk roads, which are likely to be resurfaced under future routine maintenance programmes, have been assumed to have a low noise surface in 2038. Assuming a low noise surface will result in a lower baseline sound level compared with other road surface types. This is conservative as a lower baseline will have the effect of increasing predicted adverse airborne noise effects during operation.
- 3.5.4 For 2038, airborne noise levels from railways in Important Areas identified in Defra's Noise Action Plans are assumed, on a precautionary basis, to be controlled to a level of 65dB

⁷ Department for Environment, Food & Rural Affairs (2019), *Noise Action Plan: Roads*. Available online at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/813666/noise-action-plan-2019-roads.pdf and

Department for Environment, Food & Rural Affairs (2019), *Noise Action Plan: Agglomerations (Urban Areas)*. Available online at:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/813663/noise-action-plan-2019-agglomerations.pdf.

$L_{Aeq,18hour}$, where they are predicted to exceed this level. This is the lowest level of airborne railway noise where further mitigation would be considered within an Important Area.

3.6 Baseline sound levels

3.6.1 Baseline sound levels have been ascertained for each assessment location within this area. In some cases, they include adjustments to account for changes in baseline sound sources between the date of the existing baseline sound levels and the year of opening of the Proposed Scheme (2038). Further detail regarding the future baseline methodology is provided in Section 3.5. Baseline sound levels are presented in terms of the following key sound indicators:

- baseline levels used for the operational sound assessment:
 - $L_{pAeq,16hour}$ daytime (07:00 – 23:00) sound pressure level;
 - $L_{pAeq,8hour}$ 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).

3.6.2 These values are presented in Table 1. All values are free-field. 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-001-00000. Codes contained within brackets relate to the derivation of night-time baseline noise levels where they are different to the daytime derivation method.

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Table 1: Baseline sound levels

Assessment location		Measurement location	Baseline sound levels (dB)							Data source coding
Reference	Area represented		For construction sound assessment (2025)			For operational sound assessment (2038)				
			Daytime L _{pAeq}	Evening / weekend L _{pAeq}	Night-time L _{pAeq}	Daytime L _{pAeq,16hr}	Night-time L _{pAeq,8hr}	Arithmetic average L _{pAFmax,5min}	Highest night-time L _{pAFmax,5min}	
610000	Basford Hall Farm, Weston Lane, Basford		57	55	51	56	51	53	80	5,A,i,b
610001	Larch Farm, Weston Lane, Basford		53	51	47	53	47	49	76	5,A,i,b
610003	Car Parts Retail (Lower Sensitivity Offices), Cowley Way, Crewe		51	50	48	51	48	51	78	5,A,i,b
610004	Units 4-5 (Royal Mail Delivery Office), Weston Road, Crewe		44	41	39	44	39	45	72	5,A,i,b
610005	OSL Rail and Engineering Services (Lower Sensitivity Offices), Weston Road, Crewe		61	57	52	60	52	57	68	3,A,i,b
610033	Market Street, Crewe		62	60	57	62	57	58	84	5,A,i,b
610034	Chuff Chuff Building (Mixed-use commercial), Middlewich Street, Crewe		60	59	57	59	57	60	87	5,A,i,b
610035	Cooperative Funeral Services (Offices), Middlewich Street, Crewe		65	62	58	64	58	60	85	5,A,i,b
610036	Market Close, Crewe		48	46	44	47	44	48	75	5,A,i,b
610037	Market Close, Crewe		60	59	58	60	58	61	88	4,A,i,b
610038	Henry Street, Crewe		64	60	56	63	56	61	76	3,A,i,b
610039	Middlewich Street, Crewe		59	59	58	59	58	61	88	4,A,i,b
610040	Middlewich Street, Crewe		70	66	62	69	62	67	79	3,A,i,b
610041	Orbitas Bereavement Services (Offices), Market Close, Crewe		56	55	53	55	53	56	83	5,A,i,b
610042	Middlewich Street, Crewe		59	59	57	59	57	60	87	4,A,i,b

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Assessment location		Measurement location	Baseline sound levels (dB)							Data source coding
Reference	Area represented		For construction sound assessment (2025)			For operational sound assessment (2038)				
			Daytime L _{pAeq}	Evening / weekend L _{pAeq}	Night-time L _{pAeq}	Daytime L _{pAeq,16hr}	Night-time L _{pAeq,8hr}	Arithmetic average L _{pAFmax,5min}	Highest night-time L _{pAFmax,5min}	
610043	Audley Street, Crewe		69	65	61	68	61	66	77	3,A,i,b
610044	Ridgway Street, Crewe		57	57	56	57	56	58	85	4,A,i,b
610045	Middlewich Street, Crewe		53	52	51	53	51	53	80	5,A,i,b
610046	Bentley Manor Care Home, Sherborne Road, Crewe		54	54	52	54	52	55	82	4,A,i,b
610047	Sherborne Court Neurological Centre (Care Home), Sherborne Road, Crewe		56	56	54	56	54	57	84	4,A,i,b
610048	Cranborne Road, Crewe		51	51	49	51	49	52	79	4,A,i,b
610049	Cranborne Road, Crewe		64	64	63	64	63	66	93	4,A,i,b
610050	Singleton Avenue, Crewe		62	62	61	62	61	64	91	4,A,i,b
610051	Greenacres, Crewe		61	61	60	61	60	63	90	4,A,i,b
610052	Singleton Avenue, Crewe		49	48	47	49	47	50	77	4,A,i,b
610053	Singleton Avenue, Crewe		63	63	61	63	61	64	91	4,A,i,b
610054	Haslemere Way, Crewe		44	42	40	44	40	44	71	5,A,i,b
610055	Greenacres, Crewe		44	42	40	44	40	44	71	5,A,i,b
610056	Greenacres, Crewe		64	64	62	64	62	65	92	4,A,i,b
610057	Davenport Street, Crewe		65	65	63	65	63	66	93	4,A,i,b
610058	Crossway, Crewe		48	47	45	48	45	48	75	5,A,i,b
610059	Broad Street, Crewe		66	66	64	66	64	67	94	4,A,i,b
610060	Lime Street, Crewe		66	66	64	66	64	67	94	4,A,i,b
610061	Crossway, Crewe		47	45	43	48	43	44	71	5,A,i,b
610062	Broad Street, Crewe		64	63	61	64	61	64	91	5,A,i,b

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Assessment location		Measurement location	Baseline sound levels (dB)							Data source coding
Reference	Area represented		For construction sound assessment (2025)			For operational sound assessment (2038)				
			Daytime L _{pAeq}	Evening / weekend L _{pAeq}	Night-time L _{pAeq}	Daytime L _{pAeq,16hr}	Night-time L _{pAeq,8hr}	Arithmetic average L _{pAFmax,5min}	Highest night-time L _{pAFmax,5min}	
610063	Broad Street, Crewe		67	63	58	68	60	65	70	3,A,i,b
610064	Hazel Grove, Crewe		56	56	54	56	54	57	84	4,A,i,b
610065	Sandown Road, Crewe		64	64	62	64	62	65	92	4,A,i,b
610066	Lingfield Drive, Crewe		45	43	39	45	40	41	67	5,A,i,b
610067	Hazel Grove, Crewe		50	50	47	50	47	50	77	5,A,i,b
610068	Sandown Road, Crewe		64	64	62	64	62	65	92	4,A,i,b
610069	North Street, Crewe		52	49	45	51	45	48	72	5,A,i,b
610070	North Street, Crewe		52	50	47	52	47	49	76	5,A,i,b
610071	Coppenhall Working Mens Club & Institute (Social Club), North Street, Crewe		58	57	54	58	54	56	83	5,A,i,b
610072	Farrier Court, Crewe		51	47	43	50	43	48	66	3,A,i,b
610073	Sandown Road, Crewe		52	50	47	52	47	49	76	5,A,i,b
610074	Adderley Close, Crewe		48	45	41	48	41	45	66	5,A,i,b
610075	Broughton Road, Crewe		54	52	49	54	50	51	78	5,A,i,b
610076	Stoneley Road, Crewe		49	47	40	60	53	58	63	3,A,i,b
610077	Broughton Road, Crewe		60	56	50	63	55	60	74	3,A,i,b
610078	Conway Close, Crewe		52	51	49	52	49	51	78	5,A,i,b
610079	Bidvale Way, Crewe		44	42	39	45	40	41	68	5,A,i,b
610080	Falcon Drive, Crewe		63	59	55	64	57	62	67	3,A,i,b
610081	Sheringham Drive, Crewe		50	47	43	50	43	47	66	3,A,i,b
610082	Conway Close, Crewe		65	65	63	65	63	66	93	4,A,i,b

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			Daytime L _{pAeq}	Evening / weekend L _{pAeq}	Night-time L _{pAeq}	Daytime L _{pAeq,16hr}	Night-time L _{pAeq,8hr}	Arithmetic average L _{pAFmax,5min}	Highest night-time L _{pAFmax,5min}	
610083	Broughton Road, Crewe		52	50	46	53	48	50	75	5,A,i,b
610084	Stoneley Road, Crewe		44	42	37	52 ⁸	45	49	62	5,A,i,b
610085	Padstow Close, Crewe		61	61	58	61	58	61	88	4,A,i,b
610086	Broughton Road, Crewe		54	48	46	57	50	55	68	3,A,i,b
610087	Broughton Road, Crewe		46	46	43	47	43	45	72	5,A,i,b
610088	Stoneley Road, Crewe		42	39	35	49 ⁸	42	46	61	5,A,i,b
610089	Cromer Drive, Crewe		43	41	38	43	39	41	68	5,A,i,b
610090	Broughton Road, Crewe		45	44	42	46	42	44	71	5,A,i,b
610091	Wareham Drive, Crewe		56	56	54	56	54	57	84	4,A,i,b
610092	Mablins Lane, Crewe		64	60	56	65	57	62	67	3,A,i,b
610093	Somerley Close, Crewe		55	55	52	55	52	55	82	4,A,i,b
610094	Hurn Close, Crewe		44	42	39	45	40	41	68	5,A,i,b
610095	Race Farm, Waldrons Lane, Crewe		48	45	43	57 ⁹	49	54	60	3,A,i,b
610096	Broughton Road, Crewe		48	45	42	50	44	47	71	5,A,i,b
610097	Mablins Lane Community Primary School, Mablins Lane, Crewe		59	55	51	61	53	58	63	3,A,i,b
610098	Groby Road, Crewe		60	56	51	62	54	59	64	3,A,i,b
610099	Broughton Road, Crewe		57	50	49	61 ⁹	53	58	68	3,A,i,b

⁸ Differences in baseline sound levels between 2025 and 2038 due to committed development in the vicinity of the dominant road link.

⁹ Differences in baseline sound levels between 2025 and 2038 due to committed development in the vicinity of the dominant road link.

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610100	Parkstone Drive, Crewe		62	58	54	63	56	60	68	3,A,i,b
610101	Broughton Road, Crewe		48	46	44	50	45	46	73	5,A,i,b
610104	Bowland Croft, Crewe		63	62	60	63	61	63	90	4,A,i,b
610105	Broughton Road, Crewe		49	46	43	52	45	49	70	5,A,i,b
610107	Waldrons Lane, Crewe		47	43	41	55 ⁹	47	52	63	3,A,i,b
610110	Waldrons Lane, Crewe		45	42	39	47	41	44	66	5,A,i,b
610112	Ash Cottage, Waldrons Lane, Crewe		48	44	42	55 ¹⁰	48	53	64	3,A,i,b
610113	Haweswater Avenue, Crewe		63	63	61	63	61	64	91	4,A,i,b
610114	Warmingham Road, Crewe		47	44	41	48	42	45	68	5,A,i,b
610115	Buttermere Drive, Crewe		63	63	61	63	61	64	91	4,A,i,b
610116	Kents Lane, Crewe		43	41	38	45	39	41	66	5,A,i,b
610117	Lambourn Drive, Crewe		<40	37	34	<40	34	36	63	5,C,i,b
610118	White Lion Hotel, Warmingham Road, Crewe		46	43	39	48	41	45	65	5,A,i,b
610119	Warmingham Road, Crewe		61	57	53	64	56	61	66	3,A,i,b
610120	Aysgarth Avenue, Crewe		45	45	43	46	43	46	73	4,A,i,b
610121	Warmingham Road, Crewe		52	48	44	54	46	51	64	3,A,i,b
610122	Newstead Farm, Moss Lane, Leighton	ML710013	52	48	46	51	46	51	81	1,A,i,a
610123	Thornfields, Crewe		41	40	38	41	38	41	68	5,A,i,b

¹⁰ Differences in baseline sound levels between 2025 and 2038 due to committed development in the vicinity of the dominant road link.

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610124	Moss Lane, Leighton		41	39	37	41	37	40	67	5,A,i,b
610125	Aysgarth Avenue and Perry Fields, Crewe		63	63	62	63	62	65	92	4,A,i,b
610126	Perry Fields, Crewe		50	50	47	50	47	50	77	4,A,i,b
610127	Groby Road, Crewe	ML710014	47	42	46	46	46	51	80	1,A,i,a
610129	Moss Farm, Moss Lane, Leighton		40	39	36	40	36	39	66	5,A,i,b
610130	Oakfield Lodge School, Warmingham Road, Crewe		50	46	42	52	45	50	62	3,A,i,b
610131	High Doon, Moss Lane, Leighton	ML710013	52	48	46	51	46	51	81	1,A,i,a
610132	Moss Lane, Minshull Vernon		45	45	43	45	43	46	73	4,A,i,b
610133	Warmingham Road, Warmingham	ML710015	53	48	49	52	49	55	81	1,A,i,a
610134	Moss Cottage, Moss Lane, Crewe	ML710016	48	46	44	47	44	48	74	1,A,i,a
610135	Warmingham Road, Warmingham	ML710015	53	48	49	52	49	55	81	1,A,i,a
610136	Moss Lane Farm, Warmingham Road, Warmingham		48	44	40	50	43	48	60	3,A,i,b
610137	Moss Lane, Minshull Vernon		45	44	43	45	43	45	72	4,A,i,b
610138	Spring Farm Business Park (Offices), Moss Lane, Crewe		46	46	44	46	44	47	74	5,A,i,b
610139	Moss Farm, Moss Lane, Warmingham	ML710016	48	46	44	47	44	48	74	1,A,i,a
610140	The Meadows, Drury Lane, Crewe		45	41	37	48	40	45	56	3,A,i,b
610142	Drury Lane, Crewe	ML710016	48	46	44	47	44	48	74	1,A,i,a
610143	A G Building & Joinery, Five Oaks Farm (Lower Sensitivity Offices), Drury Lane, Crewe		<40	39	37	<40	37	40	67	5,C,i,b

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610145	Drury Lane, Crewe	ML710017	44	41	40	43	40	48	77	1,A,i,a
610146	Middlewich Road, Minshull Vernon		47	43	40	45	38	42	62	3,A,i,b
610147	Four Crofts, Middlewich Road, Minshull Vernon		60	56	51	55 ¹¹	48	53	61	3,A,i,b
610148	Parkfield Farm, Middlewich Road, Minshull Vernon		64	64	62	64	62	65	92	4,A,i,b
610149	Moat House Farm, Middlewich Road, Minshull Vernon		57	53	49	55	48	52	58	3,A,i,b
610151	The Woodlands, Nantwich Road, Minshull Vernon		52	48	44	50	43	47	67	3,A,i,b
610152	Brookhouse Lane, Minshull Vernon		60	56	52	60	53	58	63	3,A,i,b
610153	Nantwich Road, Minshull Vernon		45	44	43	45	43	45	72	5,A,i,b
610154	Brook House Farm, Brookhouse Lane, Minshull Vernon		53	49	44	53	45	50	59	3,A,i,b
610155	Nantwich Road, Minshull Vernon		65	61	57	63	56	61	67	3,A,i,b
610156	Brookhouse Lane, Minshull Vernon		65	61	57	66	58	63	68	3,A,i,b
610157	Walleys Green, Minshull Vernon		61	57	53	59	52	57	67	3,A,i,b
610158	Brookhouse Lane, Minshull Vernon		64	61	56	65	57	62	67	3,A,i,b
610160	Nantwich Road, Minshull Vernon		47	45	42	46	42	43	70	5,A,i,b
610162	Park Hall Farm, Wimboldsley, Middlewich and committed		47	46	45	47	44	47	74	5,A,i,b

¹¹ Differences in baseline sound levels between 2025 and 2038 in part due to assessment location being within noise important area (NIA) with low noise road surface assumed in 2038.

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	development (Map Book ref.: MA01/145)									
610163	Newfield Farm, Nantwich Road, Minshull Vernon		53	49	46	52	46	50	67	3,A,i,b
610164	Weaverbank Cottage, Nantwich Road, Minshull Vernon		73	68	66	70	63	68	73	3,A,i,b
610166	Greenacres, Nantwich Road, Minshull Vernon		44	40	38	43	38	40	65	5,A,i,b
610270	Chapel View Farm, Chorlton Lane, Chorlton		60	60	56	60	56	59	86	4,A,i,b
610272	Casey Lane Stables, Casey Lane, Basford		68	68	65	68	65	68	95	4,A,i,b
610273	Gist Engineering (Lower Sensitivity Offices), Weston Road, Crewe		48	47	45	48	45	48	75	5,A,i,b
610274	Bentley Car Scheme (Lower Sensitivity Office), Weston Road, Crewe		46	45	43	46	43	45	72	5,A,i,b
610275	Scope House (Offices), Weston Road, Crewe		45	43	41	44	41	43	70	5,A,i,b
610276	Premier Inn Crewe Central (Hotel), Weston Road, Crewe		51	47	43	50	43	48	69	3,A,i,b
610278	Mersey Regional Ambulance Service NHS Trust, Badger Avenue, Crewe		60	56	53	59	52	56	75	3,A,i,b
610279	Oxleys Funeral Services (Offices), Badger Avenue, Crewe and committed development (Map Book ref.: MA01/207)		57	54	51	56	50	53	77	5,A,i,b
610280	Chorlton Lane, Chorlton		62	62	59	62	59	62	89	4,A,i,b

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610281	Heath Farm, Newcastle Road, Chorlton		52	52	48	52	48	51	78	4,A,i,b
610282	Newcastle Road, Chorlton		63	62	59	63	59	61	88	5,A,i,b
610283	Newcastle Road, Chorlton		55	53	49	55	50	51	78	5,A,i,b
610284	Basford Bank House, Newcastle Road, Chorlton		56	52	48	56	49	53	68	3,A,i,b
610285	Casey Lane, Basford		53	49	45	53	46	50	69	5,A,i,b
610287	Sutch Farm, Back Lane, Shavington		45	42	38	45	39	41	65	5,A,i,b
610289	Newcastle Road, Chorlton		49	47	43	49	43	45	70	5,A,i,b
610290	Holly Mount, Shavington		53	49	45	53	45	50	62	3,A,i,b
610291	Goode Way, Crewe		52	52	51	52	51	54	81	5,A,i,b
610292	Middlewich Street, Crewe		53	52	51	53	51	53	80	5,A,i,b
610293	Badger Avenue, Crewe		61	57	53	60	53	57	78	5,A,i,b
610294	Market Street, Crewe		58	56	54	57	54	56	83	5,A,i,b
610295	Market Street, Crewe		52	50	48	51	48	50	77	5,A,i,b
610296	Chetwode Street, Crewe		50	48	45	49	45	46	73	5,A,i,b
610297	Badger Avenue, Crewe		61	57	53	60	53	57	75	3,A,i,b
610298	Singleton Avenue, Crewe		48	46	43	47	43	45	72	5,A,i,b
610299	Middlewich Street, Crewe		51	47	44	50	44	47	68	3,A,i,b
610300	Middlewich Street, Crewe		66	62	58	65	58	62	74	3,A,i,b
610301	Roedean Walk, Crewe		45	42	40	44	40	41	68	5,A,i,b
610302	Charlesworth Street, Crewe		50	47	43	50	43	47	66	3,A,i,b

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610303	Middlewich Street, Crewe		65	61	57	64	57	62	67	3,A,i,b
610304	Woodlands Gardens, Crewe		61	57	53	60	52	57	64	3,A,i,b
610305	Mellor Street, Crewe	ML710047	49	45	43	49	43	52	77	1,A,i,a
610306	Waine Street, Crewe		44	41	39	43	39	41	68	5,A,i,b
610307	Audley Street, Crewe		48	45	43	47	43	44	71	5,A,i,b
610308	Coronation Street, Crewe		43	41	39	43	39	41	68	5,A,i,b
610309	Goode Way, Crewe		46	43	42	47	42	43	70	5,A,i,b
610310	Goode Way, Crewe		52	51	53	52	53	55	82	5,A,i,b
610311	Goode Way, Crewe		48	47	45	48	45	48	75	5,A,i,b
610312	YMCA, Gresty Road, Crewe		47	45	43	47	43	44	71	5,A,i,b
610313	Gresty Road, Crewe		67	63	58	67	60	64	70	3,A,i,b
610314	Davenport Avenue, Crewe		61	57	53	63	55	60	65	3,A,i,b
610315	Gresty Road, Crewe		67	63	59	67	60	65	70	3,A,i,b
610316	St Clair Street, Crewe		65	61	57	66	58	63	68	3,A,i,b
610317	Laura Street, Crewe		71	67	62	71	64	69	74	3,A,i,b
610318	Gresty Road, Crewe		66	62	58	66	59	64	69	3,A,i,b
610319	The Alexandra Stadium (Offices), Gresty Road, Crewe		48	47	46	48	46	48	75	5,A,i,b
610320	Unipart Rail (Lower Sensitivity Offices), Gresty Lane, Crewe		48	47	46	48	46	49	76	5,A,i,b
610321	Omega Building (Lower Sensitivity Offices), Weston Road, Crewe		53	49	45	52	45	49	70	3,A,i,b

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610322	Weston Lane, Basford		57	53	49	56	49	53	72	3,A,i,b
610323	Weston Lane, Basford		54	51	46	54	47	51	71	5,A,i,b
610324	Back Lane, Shavington		48	44	40	49	42	46	61	3,A,i,b
610325	Weston Lane, Basford		56	52	48	55	48	52	65	3,A,i,b
610326	Newcastle Road, Hough		56	52	48	57	50	55	61	3,A,i,b
610327	Newcastle Road, Hough		57	53	49	57	50	55	63	3,A,i,b
610328	Cobbs Lane, Hough		66	62	58	66	58	63	68	3,A,i,b
610329	Cobbs Lane, Hough		43	41	37	43	37	39	64	5,A,i,b
610330	Birch Lane, Hough		41	40	36	42	37	39	66	5,A,i,b
610331	Chorlton Lane, Chorlton		55	55	52	55	52	55	82	4,A,i,b
610332	Bridge Cottage, Chorlton Lane, Chorlton	ML710057	61	60	54	61	54	57	89	1,A,i,a
610333	Chiltern Close, Weston	ML710051	54	51	48	53	48	56	89	1,A,i,a
610334	Fairhaven, Weston		50	50	46	50	46	49	76	4,A,i,b
610335	Fairhaven, Weston		48	48	44	48	44	47	74	4,A,i,b
610336	Chorlton Methodist Chapel, Chorlton Lane, Chorlton		44	42	38	44	38	40	65	5,A,i,b
610337	Edenbridge Close, Weston	ML710050	51	49	47	50	47	54	74	1,A,i,a
610338	Fairview Avenue, Weston	ML710049	51	45	45	50	45	52	82	1,A,i,a
610339	Carillion Rail (Lower Sensitivity Offices), Gresty Road, Crewe		50	48	47	50	47	49	76	5,A,i,b
610340	Holbury Close, Crewe		50	48	45	51	46	47	74	5,A,i,b

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610341	Hythe Avenue, Crewe		55	54	52	55	52	54	81	5,A,i,b
610342	Bowland Croft, Crewe		65	65	63	65	63	66	93	4,A,i,b
610343	Wharfedale Avenue, Crewe		50	50	48	51	48	50	77	5,A,i,b
610344	Haweswater Avenue, Crewe		63	63	61	63	61	64	91	4,A,i,b
610345	Wharfedale Avenue, Crewe		60	60	58	60	58	61	88	4,A,i,b
610346	Haweswater Avenue, Crewe		52	52	49	52	49	52	79	4,A,i,b
610347	Buttermere Drive, Crewe		63	63	61	63	61	64	91	4,A,i,b
610348	Bleasdale Road, Crewe		59	59	57	59	57	60	87	4,A,i,b
610349	Aysgarth Avenue, Crewe		63	63	61	63	61	64	91	4,A,i,b
610350	Mossfields, Crewe		41	41	39	41	39	41	68	5,A,i,b
610351	Haweswater Avenue, Crewe		50	50	48	51	48	51	78	4,A,i,b
610352	Mills Way, Leighton		<40	39	36	<40	36	39	66	5,A,i,b
610354	Rydal Mount, Crewe		49	47	44	50	45	46	72	5,A,i,b
610355	Bleasdale Road, Crewe		46	46	43	47	43	46	73	5,A,i,b
610356	Bleasdale Road, Crewe		46	45	43	46	43	45	72	5,A,i,b
610357	Harris Close, Leighton		47	44	40	48	42	45	65	5,A,i,b
610358	Beltony Drive, Crewe		<40	36	33	<40	34	36	60	5,C,i,b
610359	Great Tithes Place, Crewe		43	40	35	44	37	41	58	3,A,i,b
610360	Mablins Lane, Crewe		63	59	55	64	57	62	67	3,A,i,b
610361	Underwood Lane, Crewe		63	59	55	63	56	61	66	3,A,i,b
610362	Kestrel Drive, Crewe		64	60	55	63	56	61	66	3,A,i,b

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610363	Sedgemere Avenue, Crewe		64	60	56	63	56	61	66	3,A,i,b
610364	Selworthy Drive, Crewe		60	56	51	60	52	57	62	3,A,i,b
610365	McLaren Street, Crewe		59	55	51	59	52	57	62	3,A,i,b
610366	McLaren Street, Crewe		63	59	55	63	56	61	66	3,A,i,b
610367	McLaren Street, Crewe		64	60	56	64	57	62	68	3,A,i,b
610368	Holland Street, Crewe		47	44	40	47	41	44	65	3,A,i,b
610369	Thornfields, Crewe		<40	38	36	<40	36	38	65	5,C,i,b
610370	Beltony Drive, Crewe		<40	36	32	<40	33	34	61	5,C,i,b
610373	Parkstone Drive, Crewe		63	59	55	64	57	62	67	3,A,i,b
610376	St. Michael's Community Academy (School), Holland Street, Crewe		44	40	37	44	37	41	61	5,A,i,b
610378	Copenhall Methodist Church, Bradfield Road, Crewe		70	66	61	69	62	67	72	3,A,i,b
610379	First Steps Pre-School, Bradfield Road, Crewe		67	63	59	67	59	64	69	3,A,i,b
610380	Broad Street, Crewe		53	51	48	53	49	50	77	5,A,i,b
610381	Hopes and Beams (School), Broad Street, Crewe		68	64	60	68	61	66	73	3,A,i,b
610382	Beaconsall Close, Crewe		56	53	47	57	50	55	60	3,A,i,b
610383	Selworthy Drive, Crewe		56	52	48	57	49	54	59	3,A,i,b
610384	Sherborne Road, Crewe		49	46	42	49	42	46	68	5,A,i,b
610385	Perry Fields, Crewe		52	52	50	52	50	53	80	4,A,i,b
610386	Bexington Drive, Crewe		43	41	38	44	38	40	66	5,A,i,b

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Reference	Area represented		For construction sound assessment (2025)			For operational sound assessment (2038)				
			Daytime L _{pAeq}	Evening / weekend L _{pAeq}	Night-time L _{pAeq}	Daytime L _{pAeq,16hr}	Night-time L _{pAeq,8hr}	Arithmetic average L _{pAFmax,5min}	Highest night-time L _{pAFmax,5min}	
610390	Stoneley Road, Crewe		47	41	38	63 ¹²	56	61	66	3,A,i,b
610391	Broad Street, Crewe		40	38	33	46 ¹²	39	43	59	5,A,i,b
610392	Crossway, Crewe		45	42	39	45	39	42	67	5,A,i,b
610393	Remer Street, Crewe		64	60	56	64	57	62	67	3,A,i,b
610394	Middlewich Street, Crewe		62	58	54	62	54	59	64	3,A,i,b
610395	Abbey Place, Crewe		43	40	38	44	38	40	66	5,A,i,b
610401	Birchwood Boarding Kennels (Offices), Birch Lane, Hough, Crewe		<40	37	32	<40	33	34	60	5,C,i,b
610404	Warmingham Road, Crewe		43	41	38	44	39	40	66	5,A,i,b
610407	Newfield Cottage, Nantwich Road, Minshull Vernon		66	62	59	63	57	62	67	3,A,i,b
610500	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		<40	36	33	<40	34	35	62	5,C,i,b
610501	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		<40	38	35	<40	35	37	64	5,C,i,b
610502	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		<40	38	36	<40	36	38	65	5,A,i,b

¹² Differences in baseline sound levels between 2025 and 2038 due to committed development in the vicinity of the dominant road link.

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610503	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		<40	36	34	<40	34	36	63	5,C,i,b
610504	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		<40	38	36	<40	36	38	65	5,C,i,b
610505	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		<40	37	34	<40	34	35	62	5,C,i,b
610506	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)		40	37	33	39	33	36	59	5,A,i,b
610507	Higher Croft Drive, Crewe and committed development (Map Book ref.: MA01/170)		<40	36	32	<40	32	35	57	5,C,i,b
610509	Maplins Moss Place, Crewe		53	53	50	53	50	53	80	4,A,i,b
610510	Maplins Moss Place, Crewe		46	46	43	46	43	46	73	5,A,i,b
610512	Barn Meadow Way , Crewe		51	51	48	51	48	51	78	4,A,i,b
610513	Kays Croft Drive, Crewe		49	49	47	50	47	50	77	4,A,i,b
610514	Broughton Road, Crewe and committed development (Map Book ref.: MA01/210)		54	48	46	57	50	55	68	3,A,i,b
610515	Mablins Lane, Crewe		64	60	55	65	57	62	67	3,A,i,b
610516	Moss Lane, Leighton		41	38	34	42	35	39	59	5,A,i,b
610517	Methodist Church Community Centre, North Street, Crewe		68	64	60	67	60	65	70	3,A,i,b

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610518	Stable Croft Close, Crewe and committed development (Map Book ref.: MA01/411)		40	36	34	42	36	39	61	5,A,i,b
610519	Stoneley Road, Crewe		41	38	34	45	38	42	61	5,A,i,b
610520	Broad Street, Crewe		60	57	54	60	55	57	82	5,A,i,b
610527	Arena Studios (Recording Studio), Middlewich Street, Crewe		57	57	55	57	55	58	85	5,A,i,b
610528	Bright Stars Children's Day Nursery, Parkers Road, Crewe		65	61	57	67	59	64	69	3,A,i,b
610529	Crewe Cemetery and Crematorium (Place Of Worship), Market Close, Crewe		60	60	58	60	58	61	88	4,A,i,b
610530	Crewe Lyceum Theatre, Heath Street, Crewe		52	48	44	52	45	49	69	3,A,i,b
610531	Holiday Inn Express (Hotel), Macon Way, Crewe		53	50	47	53	47	50	72	3,A,i,b
610532	Crewe Cemetery and Crematorium (Place Of Worship), Market Close, Crewe		47	46	44	47	44	47	74	5,A,i,b
610678	Oakfield Lodge School, Warmingham Road, Crewe		44	41	37	46	39	43	62	5,A,i,b
610701	Middlewich Street, Crewe		50	49	47	50	47	50	77	5,A,i,b
610702	Middlewich Street, Crewe		62	58	54	61	54	59	71	3,A,i,b
610704	Hythe Avenue, Crewe		47	46	44	47	44	46	73	5,A,i,b
610706	Hythe Avenue, Crewe		48	47	45	48	45	47	74	5,A,i,b

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610708	Selsey Close, Crewe		46	46	43	47	43	46	73	5,A,i,b
610710	Sheringham Drive, Crewe		45	44	41	45	41	43	70	5,A,i,b
610712	Bradfield Road, Crewe		46	44	41	46	41	43	70	5,A,i,b
610737	Nantwich Road (Lower Sensitivity Offices), Crewe		61	61	60	61	60	63	90	4,A,i,b
610738	Bradfield Road, Crewe and committed development (Map Book ref.: MA01/143)		66	64	62	66	62	64	91	5,A,i,b
610739	Beechwood Primary School, Meredith Street, Crewe		44	40	36	43	36	40	59	3,A,i,b
610740	Cemetery Lodge (Offices), Market Close, Crewe		59	59	57	59	57	60	87	4,A,i,b
610741	Weston Road, Crewe		51	47	43	50	43	47	65	3,A,i,b
610742	Abbey Place, Crewe		43	41	39	43	39	41	68	5,A,i,b
610743	Moss Lane, Leighton and committed development (Map Book ref.: MA01/168)		<40	38	35	<40	36	37	64	5,A,i,b
610745	Aysgarth Avenue, Crewe		50	50	48	51	48	51	78	4,A,i,b
610750	Broughton Road, Crewe and committed development (Map Book ref.: MA01/210)		42	39	36	44	38	41	64	5,A,i,b
610755	Harris Close, Leighton		<40	38	35	<40	36	37	64	5,A,i,b
610802	CLS Care Services (Care Home), Elm Drive, Crewe		43	40	37	43	37	40	63	5,A,i,b

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610803	The Weston Centre (Business Hub), Weston Road, Crewe		51	51	50	51	50	53	80	4,A,i,b
610804	Connect House (Offices), Third Avenue, Crewe		53	49	45	52	45	49	62	3,A,i,b
610805	Wrights Food Group (Lower Sensitivity Offices), Weston Road, Crewe		56	52	48	55	48	53	66	3,A,i,b
610810	KLF Graphics Solutions (Offices), Weston Road, Crewe		54	50	46	54	46	51	64	3,A,i,b
610811	Holdcroft Car Dealership (Offices), Weston Road, Crewe		56	52	48	56	48	53	64	3,A,i,b
610812	Volkswagen Crewe (Offices), Weston Road, Crewe		54	50	46	53	46	50	65	3,A,i,b
610813	Blue Bell Crewe BMW (Offices), Weston Road, Crewe		56	52	48	55	48	53	59	3,A,i,b
610822	Middlewich Street Dental Practice, Middlewich Street, Crewe		68	64	60	68	60	65	73	3,A,i,b
610850	Broughton Road, Crewe		61	57	51	63 ¹³	56	61	74	3,A,i,b
610851	North Street, Crewe		47	44	41	48	42	44	69	5,A,i,b
610852	North Street, Crewe		48	45	41	48	41	45	65	5,A,i,b
610853	Merchants Court, Crewe		45	43	40	46	41	42	68	5,A,i,b
610854	Stoneley Avenue, Crewe		46	44	41	46	42	43	70	5,A,i,b
610855	Stoneley Avenue, Crewe		43	41	38	44	39	40	67	5,A,i,b

¹³ Differences in baseline sound levels between 2025 and 2038 due to committed development in the vicinity of the dominant road link.

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Reference	Area represented		For construction sound assessment (2025)			For operational sound assessment (2038)				
			Daytime L _{pAeq}	Evening / weekend L _{pAeq}	Night-time L _{pAeq}	Daytime L _{pAeq,16hr}	Night-time L _{pAeq,8hr}	Arithmetic average L _{pAFmax,5min}	Highest night-time L _{pAFmax,5min}	
610856	Stoneley Avenue, Crewe		42	39	36	42	37	38	65	5,A,i,b
610857	Hythe Avenue, Crewe		50	50	47	50	47	50	77	5,A,i,b
610858	Selsey Close, Crewe		51	51	49	52	49	52	79	4,A,i,b
610859	Bidvale Way, Crewe		42	40	37	43	37	39	65	5,A,i,b
610860	Bidvale Way, Crewe		41	39	36	42	36	38	64	5,A,i,b
610870	Perry Fields, Crewe		42	42	40	42	40	43	70	5,A,i,b
610871	Perry Fields, Crewe		41	41	38	41	38	41	68	5,A,i,b
610872	Moat House Farm (Offices), Middlewich Road, Minshull Vernon and committed development (Map Book ref.: MA01/188)		49	46	42	47	41	44	65	3,A,i,b
610873	Moat House Farm, Middlewich Road, Minshull Vernon and committed development (Map Book ref.: MA01/360)		48	44	41	45	39	42	65	3,A,i,b
610874	Parkers Road, Crewe and committed development (Map Book ref.: MA01/405)		46	43	40	47	41	44	66	5,A,i,b
610878	Oxleys Funeral Services (Offices), Badger Avenue, Crewe and committed development (Map Book ref.: MA01/207)		61	58	54	60	54	57	79	5,A,i,b
610881	East Avenue, Weston and committed development (Map Book ref.: MA01/413)		45	42	38	45	39	42	64	5,A,i,b

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Table 2: Data source coding key

Code	Data source type
1	Long-term measurement location (typically seven days).
2	Short-term (typically unattended 24 hours or attended measurements of several hours).
3	Specific road traffic validated prediction.
4	Specific rail traffic validated prediction.
5	Specific combined road and rail traffic validated prediction.
6	Levels adopted from nearby assessment location.
7	Predictions from other sources (e.g. Defra noise maps).
Code	Corrections applied
A	Data from above source applied directly.
B	Correction applied based upon location of assessment location.
C	Minimum level cut-off applied.
Code	Distance from measurement
i	Data applied from a measurement / prediction at or very close to the assessment location.
ii	Data applied from a local measurement location at a greater distance but noted to have equivalent acoustic climate.
iii	Data applied from a distant measurement location where sound levels would be expected to be similar.
Code	Uncertainty
a	Data are considered highly representative of the prevailing sound climate.
b	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).
c	Data are considered to be an estimate of the sound climate due to assumptions made.

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.
- 4.1.2 Indirect effects arising from temporary changes in traffic patterns on the existing road network as a consequence of constructing the Proposed Scheme are reported where they are likely to occur within the study area as defined in Volume 5, Appendix SV-001-00000.
- 4.1.3 In undertaking the assessment of sound, noise and vibration, consistent with the Environmental Impact Assessment Directive¹⁴ and planning practice on noise¹⁵ a differentiation between impacts, effects, adverse effects and significant effects is made. Further information is provided in Volume 5, Appendix SV-001-00000.
- 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 Volume 5, Sound, noise and vibration Map Book: Map Series SV-03.
- 4.1.5 Baseline sound level data have been collected at locations representative of the airborne sound-sensitive receptors and presented in Table 1.

4.2 Effects during construction

Introduction

- 4.2.1 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 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, Community Area report: Hough to Walley's Green (MA01), Section 13.

¹⁴ Directive 85/337/EEC, as amended by 97/11/EC, 2003/35/EC, 2011/92/EC and 2014/52/EU ('the EIA Directive') of the European Parliament and of the Council of 13 December 2011 on the assessment of the effects of certain public and private projects on the environment. Strasbourg, European Parliament and European Council.

¹⁵ Ministry of Housing, Communities & Local Government (2019), *Planning Practice Guidance – Noise*. Available online at: <http://planningguidance.planningportal.gov.uk>.

Avoidance and mitigation measures

4.2.2 These are set out in Volume 2, Community Area report: Hough to Walley's Green (MA01), Section 13.

Identification of impacts and effects

4.2.3 Assessment locations defined for the quantitative assessment of impacts are shown on Volume 5, Sound, noise and vibration Map Book: Map Series SV-03.

4.2.4 For each assessment location, the assessment results are presented in Table 4. Explanation of the information in Table 4 to Table 6 is provided in Volume 5: Appendix SV-001-00000, with the following additional notes in Table 3.

Table 3: Explanatory notes for assessment results – direct construction effects

Symbol	Explanation
	Where the significant effect column is highlighted in pink, then a significant effect is identified at the referenced residential community area.
	For residential receptors yellow denotes a minor ground-borne vibration impact.
	For residential receptors orange denotes a moderate ground-borne vibration impact.
	For residential receptors red denotes a major ground-borne vibration impact.
*	For residential receptors this indicates a potentially significant effect where the quantitative impact methodology has identified an impact at this receptor which, based upon further qualitative receptor information, (see assessment text) does not give rise to a significant effect. For non-residential receptors this indicates the predicted noise levels are above screening criteria which, based upon further qualitative receptor information, (see assessment text) does not give rise to a significant effect.
~	When considered under the significance criteria set out in Volume 5: Appendix SV-001-00000, Annex A, Section 1.3, these adverse effects are not considered to be significant on a community basis.
A	For residential Assessment Locations (AL) - Construction sound or vibration levels from the Proposed Scheme exceed Lowest Observed Adverse Effect Level (LOAEL): the significance criteria set out in Volume 5: Appendix SV-001-00000, Annex A, Section 1.3 are considered when establishing significant effects. For non-residential AL and external amenity spaces - Construction sound or vibration levels from the Proposed Scheme exceed the screening criteria in the SMR Section 18.
S	Sound levels from the Proposed Scheme exceed Significant Observed Adverse Effect Level (SOAEL): noise insulation (or temporary rehousing at higher noise levels) therefore provided.
NA	Sound or vibration levels from the Proposed Scheme do not exceed LOAEL, therefore generally no adverse effect.
R	Type of receptor – residential.
A1 – A4	Type of receptor (airborne sound) - (A1) large and small auditoria; concert halls, sound recording and broadcast studios and theatres, (A2) places of meeting for religious worship, courts, cinemas, lecture theatres, museums and small auditoria or halls, (A3) schools; colleges; hospitals, hotels and libraries, (A4) offices and amenity spaces.

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Symbol	Explanation
V1 – V4	Type of receptor (ground-borne vibration) – (V1) vibration sensitive research and manufacturing; hospitals with vibration sensitive equipment/operations; universities with vibration sensitive research equipment/operations, (V2) hotels, hospital wards and education dormitories, (V3) offices, schools and places of worship, (V4) workshops.
T	Receptor design – typical.
SP	Receptor design – special.
+	The use and sensitivity of this non-residential receptor or land use is very sensitive to noise and has been included in the detailed assessment (presented in Volume 2) where there is a change less than 3dB. In each case specific information is presented in an associated footnote.
\$	The impact methodology for non-residential receptors includes a screening criterion for A2 building use of 50dB _{L_{pAeq,07:00 – 23:00}} , A3 building use of 50dB _{L_{pAeq,07:00 – 23:00}} , and 45dB _{L_{pAeq,23:00 – 07:00}} and for A4 building. use 55dB _{L_{pAeq,07:00 – 23:00}} (except for A4 buildings containing lower sensitivity offices, in which case the relevant A and B categories from the BS5228 ABC method will be used to assess the noise impact). At the receptor denoted, the screening criteria is met but a change of 3dB or greater has not been identified and therefore no impact is identified. Further information is provided in Volume 5: Appendix SV-001-00000.
H	Existing environment – high existing airborne ambient noise levels, day >75dB, evening >65dB or night >55dB _{L_{pAeq}} at the façade.
L	Existing environment – low existing airborne ambient noise levels, day and evening ≤45dB, or night ≤35dB _{L_{pAeq}} at the façade.
D,E,N	Impact duration (months) – duration of impact during the day (D), evening (E) or night (N).
O, CT, V	Combined Impact: If noise or vibration 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) Volume 5: Appendix CT-002-00000.
TR	Mitigation effect - identified as likely to qualify for temporary rehousing under the draft CoCP.

Ground-borne sound and vibration

4.2.5 Activities associated with the construction phases of the Proposed Scheme will generate ground-borne sound and vibration. 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.

4.2.6 The results, impact criteria and significance criteria for the assessment of the Proposed Scheme at residential and non-residential receptors are presented in Table 4. Explanation of the information within Table 4 is provided in Volume 5, Appendix SV-001-00000, with the additional notes presented in Table 3.

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Table 4: Assessment of construction induced ground-borne vibration at residential and non-residential receptors

Assessment location		Impact criteria				Significance criteria							Significant effect
Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610003	Car Parts Retail (Lower Sensitivity Offices), Cowley Way, Crewe	0.3	0.04/0.10	-/-	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610035	Cooperative Funeral Services (Offices), Middlewich Street, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610037	Market Close, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	14	R	T	-	-		
610039	Middlewich Street, Crewe	0.7	0.04/0.26	-/-	Site set up (vibratory roller)	A	12	R	T	-	-	D 3	MA01-C-C1
610040	Middlewich Street, Crewe	0.3	0.04/0.20	-/-	Site set up (vibratory roller)	NA	9	R	T	-	-		
610042	Middlewich Street, Crewe	1	0.08/0.37	-/-	Site set up (vibratory roller)	A	4	R	T	-	-	D 3	MA01-C-C1
610043	Audley Street, Crewe	0.2	0.08/0.11	-/-	Site set up (vibratory roller)	NA	8	R	T	-	-		

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Assessment location		Impact criteria				Significance criteria							Significant effect
Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610044	Ridgway Street, Crewe	2	0.20/<0.8 ¹⁶	-/-	Site set up (vibratory roller)	A	13	R	T	-	-	D 3	MA01-C-C1
610045	Middlewich Street, Crewe	1.1	0.20/0.41	-/-	Site set up (vibratory roller)	A	6	R	T	-	O	D 3	MA01-C-C1
610046	Bentley Manor Care Home, Sherborne Road, Crewe	0.6	0.12/0.56	-/-	Site set up (vibratory roller)	A	1	R	T	-	-	D 3	MA01-C-N8
610047	Sherborne Court Neurological Centre (Care Home), Sherborne Road, Crewe	0.3	0.08/0.12	-/-	Site set up (vibratory roller)	NA	1	R	T	-	-		
610077	Broughton Road, Crewe	0.2	-/0.16	-/-	Site set up (vibratory roller)	NA	23	R	T	-	-		
610078	Conway Close, Crewe	0.2	-/0.12	-/-	Site set up (vibratory roller)	NA	30	R	T	-	-		
610082	Conway Close, Crewe	0.4	-/0.16	-/-	Site set up (vibratory roller)	NA	18	R	T	-	-		

¹⁶ Construction methods will be selected to ensure that on a monthly basis the significant adverse effect level is not exceeded.

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Assessment location		Impact criteria				Significance criteria							Significant effect
Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610083	Broughton Road, Crewe	2	-/ <0.8 ¹⁶	-/-	Site set up (vibratory roller)	A	22 ¹⁷	R	T	-	O	D 6	MA01-C-C2
610085	Padstow Close, Crewe	0.3	-/0.20	-/-	Site set up (vibratory roller)	NA	49	R	T	-	-		
610091	Wareham Drive, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	10	R	T	-	-		
610093	Somerley Close, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	15	R	T	-	-		
610096	Broughton Road, Crewe	0.3	0.04/0.10	-/-	Site set up (vibratory roller)	NA	10	R	T	-	-		
610099	Broughton Road, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	9	R	T	-	-		
610101	Broughton Road, Crewe	1.9	0.04/ <0.8 ¹⁶	-/-	Site set up (vibratory roller)	A	3	R	T	-	O, CT	D 6	MA01-C-C2
610104	Bowland Croft, Crewe	1.1	0.16/0.33	-/-	Excavation and piling works (vibratory roller)	A	7	R	T	-	O	D 2	~
610105	Broughton Road, Crewe	0.3	-/0.24	-/-	Site set up (vibratory roller)	A	1	R	T	-	CT	D 6	~

¹⁷ Up to 18 properties may be impacted by vibration.

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Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610113	Haweswater Avenue, Crewe	0.3	0.04/0.20	-/-	Site set up (vibratory roller)	NA	5	R	T	-	-		
610114	Warmingham Road, Crewe	0.1	-/0.12	-/-	Site set up (vibratory roller)	NA	8	R	T	-	-		
610115	Buttermere Drive, Crewe	0.3	0.12/0.20	-/-	Site set up (vibratory roller)	NA	7	R	T	-	-		
610123	Thornfields, Crewe	0.2	-/0.08	-/-	Finishing works (vibratory roller)	NA	21	R	T	-	-		
610125	Aysgarth Avenue and Perry Fields, Crewe	0.4	0.04/0.18	-/-	Site set up (vibratory roller)	NA	7	R	T	-	-		
610126	Perry Fields, Crewe	0.6	0.04/0.17	-/-	Finishing works (vibratory roller)	NA	10	R	T	-	O		
610148	Parkfield Farm, Middlewich Road, Minshull Vernon	1.4	0.16/<0.8 ¹⁶	-/-	Piling works (vibratory roller)	A	1	R	T	-	O	D 1	~
610164	Weaverbank Cottage, Nantwich Road, Minshull Vernon	2	-/<0.8 ¹⁶	-/-	Road embankment works (vibratory roller)	S	1	R	T	-	O	D 4	~
610272	Casey Lane Stables, Casey Lane, Basford	0.2	0.04/0.08	-/-	Finishing works (vibratory roller)	NA	1	R	T	-	-		

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Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610273	Gist Engineering (Lower Sensitivity Offices), Weston Road, Crewe	0.3	0.12/0.24	-/-	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610274	Bentley Car Scheme (Lower Sensitivity Office), Weston Road, Crewe	0.2	0.08/0.16	-/-	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610275	Scope House (Offices), Weston Road, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610285	Casey Lane, Basford	0.3	0.04/0.12	-/-	Site set up (vibratory roller)	NA	8	R	T	-	-		
610292	Middlewich Street, Crewe	1.2	0.16/0.42	-/-	Site set up (vibratory roller)	S	7	R	T	-	-	D 3	MA01-C-C1
610300	Middlewich Street, Crewe	0.3	0.08/0.12	-/-	Site set up (vibratory roller)	NA	34	R	T	-	-		
610305	Mellor Street, Crewe	0.2	0.08/0.12	-/-	Site set up (vibratory roller)	NA	114	R	T	-	-		
610340	Holbury Close, Crewe	0.2	0.04/0.12	-/-	Finishing works (vibratory roller)	NA	20	R	T	-	-		
610341	Hythe Avenue, Crewe	0.2	0.04/0.12	-/-	Finishing works (vibratory roller)	NA	12	R	T	-	-		

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Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610342	Bowland Croft, Crewe	0.3	0.12/0.11	-/-	Excavation and piling works (vibratory roller)	NA	7	R	T	-	-		
610343	Wharfedale Avenue, Crewe	0.2	0.04/0.12	-/-	Excavation and piling works (vibratory roller)	NA	13	R	T	-	-		
610344	Haweswater Avenue, Crewe	0.3	0.04/0.20	-/-	Site set up (vibratory roller)	NA	8	R	T	-	-		
610345	Wharfedale Avenue, Crewe	0.1	0.04/0.12	-/-	Site set up (vibratory roller)	NA	7	R	T	-	-		
610347	Buttermere Drive, Crewe	0.3	0.08/0.20	-/-	Site set up (vibratory roller)	NA	7	R	T	-	-		
610348	Bleasdale Road, Crewe	0.2	0.08/0.12	-/-	Site set up (vibratory roller)	NA	7	R	T	-	-		
610349	Aysgarth Avenue, Crewe	0.3	0.08/0.16	-/-	Finishing works (vibratory roller)	NA	9	R	T	-	-		
610354	Rydal Mount, Crewe	0.1	0.04/0.08	-/-	Finishing works (vibratory roller)	NA	15	R	T	-	-		
610384	Sherborne Road, Crewe	0.2	0.04/0.12	-/-	Site set up (vibratory roller)	NA	7	R	T	-	-		
610385	Perry Fields, Crewe	0.3	0.08/0.16	-/-	Finishing works (vibratory roller)	NA	10	R	T	-	-		

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Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610407	Newfield Cottage, Nantwich Road, Minshull Vernon	2	0.08/<0.8 ¹⁶	-/-	Excavation and piling works (vibratory roller)	A	1	R	T	-	O	D <1	¹⁸
610509	Maplins Moss Place, Crewe	2	0.04/0.52	-/-	Site set up (vibratory roller)	A	42 ¹⁹	R	T	-	O	D 6	MA01-C-C2
610510	Maplins Moss Place, Crewe	0.2	0.04/0.20	-/-	Site set up (vibratory roller)	NA	39	R	T	-	-		
610512	Barn Meadow Way, Crewe	1	0.04/<0.8 ¹⁶	-/-	Site set up (vibratory roller)	A	29 ²⁰	R	T	-	O	D 6	MA01-C-C2

¹⁸ Impacts with durations of less than one month are not generally considered significant.

¹⁹ Up to 30 properties may be impacted by vibration.

²⁰ Up to eight properties may be impacted by vibration.

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Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 – 23:00	Night 23:00 – 07:00									
610513	Kays Croft Drive, Crewe	1	- / < 0.8 ¹⁶	- / -	Site set up (vibratory roller)	A	19 ²¹	R	T	-	O	D 6	MA01-C-C2
610701	Middlewich Street, Crewe	0.4	0.08/0.19	- / -	Site set up (vibratory roller)	A	8	R	T	-	-		
610740	Cemetery Lodge (Offices), Market Close, Crewe	0.2	0.04/0.16	- / -	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610822	Middlewich Street Dental Practice, Middlewich Street, Crewe	0.3	0.04/0.12	- / -	Site set up (vibratory roller)	NA	1	V2	T	-	-		
610826	Scope House (Offices), Weston Road, Crewe	0.2	0.02/0.06	- / -	Site set up (vibratory roller)	NA	1	V3	T	-	-		
610850	Broughton Road, Crewe	0.2	- / 0.12	- / -	Site set up (vibratory roller)	NA	5	R	T	-	-		
610854	Stoneley Avenue, Crewe	0.2	- / 0.16	- / -	Site set up (vibratory roller)	NA	12	R	T	-	-		

²¹ Up to 12 properties may be impacted by vibration.

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Assessment location		Impact criteria				Significance criteria							Significant effect
Reference	Area represented	Peak particle velocity (PPV) [mm/s] on foundation	Typical/highest monthly indoor vibration dose value (VDV) [m/s ^{1.75}]		Construction activity resulting in highest forecast vibration	Type of effect	Number of properties represented	Type of receptor	Receptor design	Unique feature	Combined impact	Impact duration [m]	
			Day 07:00 - 23:00	Night 23:00 - 07:00									
610870	Perry Fields, Crewe	0.2	0.04/0.08	-/-	Finishing works (vibratory roller)	NA	15	R	T	-	-		
610871	Perry Fields, Crewe	0.2	0.04/0.08	-/-	Finishing works (vibratory roller)	NA	12	R	T	-	-		

Airborne sound: direct impacts and effects

- 4.2.7 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.
- 4.2.8 For each type of receptor, the typical and highest monthly $L_{Aeq,T}$ noise levels from construction activities have been calculated at the façade of all assessment locations. This is subject to the screening distances identified and based upon supplied plant information from engineers.
- 4.2.9 The results, impact criteria and significance criteria for the assessment of the Proposed Scheme at residential and non-residential receptors are presented in Table 5 and Table 6 respectively. Explanation of the information within Table 5 and Table 6 is provided in Volume 5, Appendix SV-001-00000, with the additional notes presented in Table 3.

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Table 5: Assessment of construction noise at residential receptors

Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610000	Basford Hall Farm, Weston Lane, Basford	53/58[A]	-/[C]	-/[C]	Day: Bored tunnel works	NA	1	R	T	H	-	-	-	-	
610001	Larch Farm, Weston Lane, Basford	47/51[A]	-/[B]	-/[C]	Day: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610033	Market Street, Crewe	53/55[B]	41/42[C]	41/42[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	15	R	T	H	-	-	-	-	
610036	Market Close, Crewe	57/59[A]	44/45[A]	44/45[B]	Day: Vent shaft construction Evening: Vent shaft construction Night: Vent shaft construction	NA	2	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610037	Market Close, Crewe	63/65[B]	49/50[C]	49/50[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	14	R	T	H	-	-	-	-	
610038	Henry Street, Crewe	53/56[B]	42/43[C]	42/43[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	6	R	T	H	-	-	-	-	
610039	Middlewich Street, Crewe	58/61[A]	46/47[C]	46/47[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	12	R	T	H	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610040	Middlewich Street, Crewe	54/57[C]	43/44[C]	43/44[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	9	R	T	H	-	-	-	-	
610042	Middlewich Street, Crewe	59/63[A]	48/49[C]	48/49[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	4	R	T	H	-	-	-	-	
610043	Audley Street, Crewe	54/57[C]	43/44[C]	43/44[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	8	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610044	Ridgway Street, Crewe	62/65[A]	50/51[C]	50/51[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	13	R	T	H	-	-	-	-	
610045	Middlewich Street, Crewe	63/66[A]	52/53[B]	52/53[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	A	6	R	T	H	-	D1	V	-	*22

²² The predicted highest monthly noise level is 1dB above the screening criteria defined in the SMR for one month at a location that may not necessarily be representative of all properties associated with this assessment location, with some properties exhibiting lower noise levels. Furthermore, a 6m high hoarding around the construction site is proposed which is likely to result in a lower noise level. On balance, a significant effect is not identified.

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610046	Bentley Manor Care Home, Sherborne Road, Crewe	59/62[A]	47/48[B]	47/48[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	1	R	T	H	-	-	-	-	
610047	Sherborne Court Neurological Centre (Care Home), Sherborne Road, Crewe	56/59[A]	44/45[C]	44/45[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	1	R	T	H	-	-	-	-	
610048	Cranborne Road, Crewe	51/53[A]	35/40[B]	35/40[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	13	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610049	Cranborne Road, Crewe	52/55[B]	35/41[C]	35/41[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	16	R	T	H	-	-	-	-	
610050	Singleton Avenue, Crewe	51/55[B]	37/40[C]	37/40[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	14	R	T	H	-	-	-	-	
610051	Greenacres, Crewe	47/50[B]	35/36[C]	35/36[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	16	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610052	Singleton Avenue, Crewe	48/51[A]	35/36[A]	35/36[C]	Day: Vent shaft construction Evening: Vent shaft construction Night: Vent shaft construction	NA	17	R	T	-	-	-	-	-	
610053	Singleton Avenue, Crewe	50/54[B]	37/38[C]	37/38[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	11	R	T	H	-	-	-	-	
610054	Haslemere Way, Crewe	48/51[A]	35/36[A]	35/36[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	14	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610055	Greenacres, Crewe	48/51[A]	36/37[A]	36/37[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	9	R	T	-	-	-	-	-	
610056	Greenacres, Crewe	46/49[B]	32/34[C]	32/34[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	28	R	T	H	-	-	-	-	
610057	Davenport Street, Crewe	49/53[C]	38/40[C]	38/40[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	10	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610059	Broad Street, Crewe	50/54[C]	40/42[C]	40/42[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	4	R	T	H	-	-	-	-	
610060	Lime Street, Crewe	42/45[C]	-/30[C]	-/30[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	12	R	T	H	-	-	-	-	
610061	Crossway, Crewe	48/52[A]	37/39[A]	37/39[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	22	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610063	Broad Street, Crewe	48/52[C]	38/40[C]	38/40[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	50	R	T	H	-	-	-	-	
610064	Hazel Grove, Crewe	52/56[A]	42/44[C]	42/44[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	38	R	T	H	-	-	-	-	
610065	Sandown Road, Crewe	54/58[B]	45/47[C]	45/47[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	13	R	T	H	-	-	-	-	

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Assessment location		Impact criteria			Construction activity resulting in highest forecast noise levels	Significance criteria								Significant effect	
Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the facade [Assessment category A/B/C]				Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610066	Lingfield Drive, Crewe	53/57[A]	46/46[A]	46/46[A]	Day: Bored tunnel works Evening: General site works Night: General site works	A	112	R	T	-	-	N23	-	-	~
610067	Hazel Grove, Crewe	53/57[A]	43/45[B]	43/45[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	30	R	T	-	-	-	-	-	
610068	Sandown Road, Crewe	56/61[B]	50/50[C]	50/50[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	28	R	T	H	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610069	North Street, Crewe	47/52[A]	38/39[A]	38/39[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	61	R	T	-	-	-	-	-	
610070	North Street, Crewe	54/59[A]	44/46[B]	44/46[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	8	R	T	-	-	-	-	-	
610072	Farrier Court, Crewe	51/55[A]	41/43[A]	41/43[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	81	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610073	Sandown Road, Crewe	55/61[A]	49/49[B]	49/49[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	94	R	T	-	-	-	-	-	
610074	Adderley Close, Crewe	54/56[A]	43/44[A]	43/44[B]	Day: Earthworks Evening: General site works Night: General site works	NA	175	R	T	-	-	-	-	-	
610075	Broughton Road, Crewe	63/68[A]	56/56[B]	56/56[C]	Day: Bored tunnel works Evening: General site works Night: General site works	S	5	R	T	-	-	D11 N28		NI	MA01-C-C2

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610076	Stoneley Road, Crewe	50/55[A]	40/42[A]	40/42[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	24	R	T	-	-	-	-	-	
610077	Broughton Road, Crewe	59/66[B]	54/54[C]	54/54[C]	Day: Bored tunnel works Evening: General site works Night: General site works	A	23	R	T	H	-	N28	-	-	MA01-C-C2
610078	Conway Close, Crewe	55/61[A]	46/46[B]	46/46[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	30	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610079	Bidvale Way, Crewe	57/62[A]	49/49[A]	49/49[A]	Day: Bored tunnel works Evening: General site works Night: General site works	A	6	R	T	-	-	N29	-	-	MA01-C-C2
610080	Falcon Drive, Crewe	49/53[B]	38/39[C]	38/39[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	21	R	T	H	-	-	-	-	
610081	Sheringham Drive, Crewe	53/55[A]	42/44[A]	42/44[B]	Day: Earthworks Evening: General site works Night: General site works	NA	69	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610082	Conway Close, Crewe	62/68[C]	56/56[C]	56/56[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	18	R	T	H	-	-	V	-	
610083	Broughton Road, Crewe	70/74[A]	62/62[B]	62/62[C]	Day: General site works Evening: General site works Night: General site works	S	22	R	T	-	-	D66 E28 N30	V	NI	MA01-C-C2
610084	Stoneley Road, Crewe	51/54[A]	41/42[A]	41/42[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	13	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610085	Padstow Close, Crewe	63/67[B]	53/54[C]	53/54[C]	Day: Earthworks Evening: General site works Night: General site works	NA	49	R	T	H	-	-	-	-	
610086	Broughton Road, Crewe	57/62[A]	48/49[A]	48/49[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	18	R	T	-	-	-	CT	-	
610087	Broughton Road, Crewe	61/66[A]	55/55[A]	55/55[B]	Day: Bored tunnel works Evening: General site works Night: General site works	A	2	R	T	-	-	D3 N29	-	-	MA01-C-C2
610088	Stoneley Road, Crewe	50/53[A]	40/41[A]	40/41[A]	Day: Earthworks Evening: General site works Night: General site works	NA	3	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610089	Cromer Drive, Crewe	53/58[A]	42/43[A]	42/43[A]	Day: Earthworks Evening: General site works Night: General site works	NA	121	R	T	-	-	-	-	-	
610090	Broughton Road, Crewe	59/63[A]	50/52[A]	50/52[B]	Day: Bored tunnel works Evening: General site works Night: General site works	A	17	R	T	-	-	N28	CT	-	MA01-C-C2
610091	Wareham Drive, Crewe	61/67[A]	50/51[C]	50/51[C]	Day: Earthworks Evening: General site works Night: General site works	A	10	R	T	H	-	D2	-	-	MA01-C-C3
610092	Mablins Lane, Crewe	50/53[B]	38/39[C]	38/39[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	215	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610093	Somerley Close, Crewe	62/67[A]	50/51[C]	50/51[C]	Day: Earthworks Evening: General site works Night: General site works	A	15	R	T	H	-	D3	-	-	MA01-C-C3
610094	Hurn Close, Crewe	54/57[A]	42/43[A]	42/43[A]	Day: Earthworks Evening: General site works Night: General site works	NA	67	R	T	-	-	-	-	-	
610095	Race Farm, Waldrons Lane, Crewe	51/54[A]	40/41[A]	40/41[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610096	Broughton Road, Crewe	60/64[A]	49/50[A]	49/50[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	10	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610099	Broughton Road, Crewe	57/61[A]	46/47[B]	46/47[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	9	R	T	-	-	-	-	-	
610100	Parkstone Drive, Crewe	53/58[B]	41/42[C]	41/42[C]	Day: Overbridge construction Evening: General site works Night: General site works	NA	26	R	T	H	-	-	-	-	
610101	Broughton Road, Crewe	64/68[A]	51/53[A]	51/53[B]	Day: Bored tunnel works Evening: General site works Night: General site works	A	3	R	T	-	-	D30 N28	V, CT	-	MA01-C-C2

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610104	Bowland Croft, Crewe	66/72[B]	50/51[C]	50/51[C]	Day: Overbridge construction Evening: General site works Night: General site works	A	7	R	T	H	-	D2	V	-	MA01-C-C3
610105	Broughton Road, Crewe	61/65[A]	49/50[A]	49/50[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610107	Waldrons Lane, Crewe	53/57[A]	42/43[A]	42/43[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	5	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610110	Waldrons Lane, Crewe	55/60[A]	44/45[A]	44/45[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610112	Ash Cottage, Waldrons Lane, Crewe	54/58[A]	42/43[A]	42/43[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610113	Haweswater Avenue, Crewe	61/67[B]	49/50[C]	49/50[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	5	R	T	H	-	-	-	-	
610114	Warmingham Road, Crewe	56/61[A]	44/45[A]	44/45[B]	Day: Earthworks Evening: General site works Night: General site works	NA	8	R	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the facade [Assessment category A/B/C]				Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610115	Buttermere Drive, Crewe	60/64[B]	48/49[C]	48/49[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	H	-	-	-	-	
610116	Kents Lane, Crewe	55/59[A]	43/44[A]	43/44[A]	Day: Earthworks Evening: General site works Night: General site works	NA	3	R	T	-	-	-	-	-	
610117	Lambourn Drive, Crewe	51/54[A]	37/38[A]	37/38[A]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	26	R	T	-	-	-	-	-	
610118	White Lion Hotel, Warmingham Road, Crewe	56/60[A]	42/43[A]	42/43[A]	Day: Earthworks Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the facade [Assessment category A/B/C]				Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610119	Warmingham Road, Crewe	54/58[B]	42/43[C]	42/43[C]	Day: Earthworks Evening: General site works Night: General site works	NA	14	R	T	H	-	-	-	-	
610120	Aysgarth Avenue, Crewe	52/56[A]	39/40[A]	39/40[B]	Day: Earthworks Evening: General site works Night: General site works	NA	25	R	T	-	-	-	-	-	
610121	Warmingham Road, Crewe	55/58[A]	41/42[A]	41/42[B]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	18	R	T	-	-	-	-	-	
610122	Newstead Farm, Moss Lane, Leighton	54/59[A]	39/40[A]	39/40[C]	Day: Highway works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the facade [Assessment category A/B/C]				Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610123	Thornfields, Crewe	56/61[A]	39/40[A]	39/40[A]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	21	R	T	-	-	-	-	-	
610124	Moss Lane, Leighton	55/61[A]	39/40[A]	39/40[A]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	4	R	T	-	-	-	-	-	
610125	Aysgarth Avenue and Perry Fields, Crewe	61/65[B]	48/49[C]	48/49[C]	Day: Overbridge construction Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	H	-	-	-	-	
610126	Perry Fields, Crewe	61/67[A]	44/45[B]	44/45[C]	Day: Culvert construction Evening: Bored tunnel works Night: Bored tunnel works	A	10	R	T	-	-	D5	-	-	MA01-C-C4

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610127	Grobby Road, Crewe	51/55[A]	39/40[A]	39/40[C]	Day: Highway works Evening: General site works Night: General site works	NA	4	R	T	-	-	-	-	-	
610129	Moss Farm, Moss Lane, Leighton	54/61[A]	38/39[A]	38/39[A]	Day: Highway works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610131	High Doon, Moss Lane, Leighton	57/64[A]	40/41[A]	40/41[C]	Day: Highway works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610132	Moss Lane, Minshull Vernon	58/63[A]	43/44[A]	43/44[B]	Day: Retaining walls construction Evening: Bored tunnel works Night: Bored tunnel works	NA	2	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610133	Warmingham Road, Warmingham	54/60[A]	40/41[A]	40/41[C]	Day: Highway works Evening: General site works Night: General site works	NA	4	R	T	-	-	-	-	-	
610134	Moss Cottage, Moss Lane, Crewe	57/61[A]	42/43[A]	42/43[B]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610135	Warmingham Road, Warmingham	57/64[A]	37/38[A]	37/38[C]	Day: Highway works Evening: General site works Night: General site works	NA	3	R	T	-	-	-	-	-	
610136	Moss Lane Farm, Warmingham Road, Warmingham	72/72[A]	37/38[A]	37/38[B]	Day: Highway works Evening: General site works Night: General site works	A	1	R	T	-	-	D2	-	-	~

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610137	Moss Lane, Minshull Vernon	59/65[A]	42/43[A]	42/43[B]	Day: General site works Evening: Bored tunnel works Night: Bored tunnel works	NA	4	R	T	-	-	-	-	-	
610139	Moss Farm, Moss Lane, Warmingham	60/64[A]	44/45[A]	44/45[B]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610140	The Meadows, Drury Lane, Crewe	50/54[A]	37/38[A]	37/38[A]	Day: Highway works Evening: General site works Night: General site works	NA	1	R	T	-	-	-	-	-	
610142	Drury Lane, Crewe	58/62[A]	45/45[A]	45/45[B]	Day: Retaining walls construction Evening: Bored tunnel works Night: Bored tunnel works	NA	3	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610145	Drury Lane, Crewe	51/55[A]	37/38[A]	37/38[B]	Day: Retaining walls construction Evening: Bored tunnel works Night: Bored tunnel works	NA	2	R	T	-	-	-	-	-	
610146	Middlewich Road, Minshull Vernon	52/57[A]	40/40[A]	40/40[B]	Day: Construction HGV Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	-	-	-	-	-	
610147	Four Crofts, Middlewich Road, Minshull Vernon	51/56[B]	39/39[C]	39/39[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	H	-	-	-	-	
610148	Parkfield Farm, Middlewich Road, Minshull Vernon	67/74[B]	50/50[C]	50/50[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	A	1	R	T	H	-	D2	-	-	~

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610149	Moat House Farm, Middlewich Road, Minshull Vernon	48/55[A]	35/35[B]	35/35[C]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610151	The Woodlands, Nantwich Road, Minshull Vernon	54/58[A]	42/42[A]	42/42[B]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610152	Brookhouse Lane, Minshull Vernon	48/53[B]	37/37[C]	37/37[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	3	R	T	H	-	-	-	-	
610153	Nantwich Road, Minshull Vernon	57/63[A]	47/47[A]	47/47[B]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	3	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00										
610154	Brook House Farm, Brookhouse Lane, Minshull Vernon	50/54[A]	37/37[A]	37/37[B]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-
610155	Nantwich Road, Minshull Vernon	54/59[C]	42/42[C]	42/42[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	17	R	T	H	-	-	-	-
610156	Brookhouse Lane, Minshull Vernon	51/55[C]	38/38[C]	38/38[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	2	R	T	H	-	-	-	-
610157	Walleys Green, Minshull Vernon	54/58[B]	41/41[C]	41/41[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	5	R	T	H	-	-	-	-

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610158	Brookhouse Lane, Minshull Vernon	53/57[B]	39/39[C]	39/39[C]	Day: Overbridge construction Evening: Bored tunnel works Night: Bored tunnel works	NA	4	R	T	H	-	-	-	-	
610160	Nantwich Road, Minshull Vernon	53/58[A]	42/42[A]	42/42[B]	Day: Rolling stock depot construction Evening: Bored tunnel works Night: Bored tunnel works	NA	2	R	T	-	-	-	-	-	
610162	Park Hall Farm, Wimboldsley, Middlewich and committed development (Map Book ref.: MA01/145)	62/67[A]	48/48[A]	48/48[C]	Day: Culvert construction Evening: Bored tunnel works Night: Bored tunnel works	A	1	R	T	-	-	D1	-	-	~

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610163	Newfield Farm, Nantwich Road, Minshull Vernon	57/62[A]	41/41[A]	41/41[C]	Day: Overbridge construction Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610164	Weaverbank Cottage, Nantwich Road, Minshull Vernon	77/81[C]	42/43[C]	42/43[C]	Day: Overbridge construction Evening: Bored tunnel works Night: Bored tunnel works	S	1	R	T	H	-	D4	V	NI	~
610166	Greenacres, Nantwich Road, Minshull Vernon	54/59[A]	40/40[A]	40/40[A]	Day: Culvert construction Evening: Bored tunnel works Night: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610272	Casey Lane Stables, Casey Lane, Basford	65/70[C]	-/[C]	-/[C]	Day: Bored tunnel works	NA	1	R	T	H	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610280	Chortlton Lane, Chorlton	47/51[B]	-/[C]	-/[C]	Day: Bored tunnel works	NA	2	R	T	H	-	-	-	-	
610281	Heath Farm, Newcastle Road, Chorlton	52/55[A]	-/[B]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	1	R	T	-	-	-	-	-	
610282	Newcastle Road, Chorlton	54/55[B]	-/[C]	-/[C]	Day: General site works	NA	2	R	T	H	-	-	-	-	
610283	Newcastle Road, Chorlton	50/52[A]	-/[B]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	2	R	T	-	-	-	-	-	
610284	Basford Bank House, Newcastle Road, Chorlton	52/54[A]	-/[B]	-/[C]	Day: General site works	NA	1	R	T	-	-	-	-	-	
610285	Casey Lane, Basford	62/64[A]	-/[A]	-/[C]	Day: General site works	NA	8	R	T	-	-	-	-	-	
610287	Sutch Farm, Back Lane, Shavington	51/56[A]	-/[A]	-/[A]	Day: Bored tunnel works	NA	1	R	T	-	-	-	-	-	
610289	Newcastle Road, Chorlton	58/60[A]	-/[A]	-/[B]	Day: Auto transformer station GSM-R civil works	NA	9	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610290	Holly Mount, Shavington	47/51[A]	-/[A]	-/[C]	Day: Bored tunnel works	NA	36	R	T	-	-	-	-	-	
610291	Goode Way, Crewe	53/58[A]	40/41[B]	40/41[C]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	44	R	T	H	-	-	-	-	
610292	Middlewich Street, Crewe	62/65[A]	50/51[B]	50/51[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	7	R	T	H	-	-	-	-	
610293	Badger Avenue, Crewe	54/56[B]	42/43[C]	42/43[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	10	R	T	H	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610294	Market Street, Crewe	56/59[A]	43/44[C]	43/44[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	23	R	T	H	-	-	-	-	
610295	Market Street, Crewe	47/49[A]	30/36[B]	30/36[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	74	R	T	-	-	-	-	-	
610296	Chetwode Street, Crewe	55/59[A]	42/43[A]	42/43[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	47	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610297	Badger Avenue, Crewe	55/59[B]	42/43[C]	42/43[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	54	R	T	H	-	-	-	-	
610298	Singleton Avenue, Crewe	50/55[A]	39/40[A]	39/40[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	20	R	T	-	-	-	-	-	
610299	Middlewich Street, Crewe	51/54[A]	34/40[A]	34/40[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	19	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610300	Middlewich Street, Crewe	58/61[C]	46/47[C]	46/47[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	34	R	T	H	-	-	-	-	
610301	Roedean Walk, Crewe	51/54[A]	33/40[A]	33/40[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	50	R	T	-	-	-	-	-	
610302	Charlesworth Street, Crewe	51/54[A]	32/41[A]	32/41[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	48	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610303	Middlewich Street, Crewe	49/52[C]	38/39[C]	38/39[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	42	R	T	H	-	-	-	-	
610304	Woodlands Gardens, Crewe	47/50[B]	33/36[C]	33/36[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	21	R	T	H	-	-	-	-	
610305	Mellor Street, Crewe	56/59[A]	44/45[A]	44/45[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	114	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610306	Waine Street, Crewe	47/51[A]	36/37[A]	36/37[A]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	63	R	T	-	-	-	-	-	
610307	Audley Street, Crewe	53/56[A]	42/43[A]	42/43[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	54	R	T	-	-	-	-	-	
610308	Coronation Street, Crewe	47/50[A]	35/36[A]	35/36[A]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	45	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00										
610309	Goode Way, Crewe	44/49[A]	33/34[A]	33/34[B]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	27	R	T	-	-	-	-	-
610310	Goode Way, Crewe	37/45[A]	-/[B]	-/[C]	Day: Highway works	NA	49	R	T	H	-	-	-	-
610311	Goode Way, Crewe	51/56[A]	39/39[A]	39/39[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	10	R	T	-	-	-	-	-
610313	Gresty Road, Crewe	43/48[C]	32/32[C]	32/32[C]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	32	R	T	H	-	-	-	-

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610314	Davenport Avenue, Crewe	43/48[B]	32/32[C]	32/32[C]	Day: Auto transformer station GSM-R civil works Evening: Vent shaft construction Night: Vent shaft construction	NA	13	R	T	H	-	-	-	-	
610315	Gresty Road, Crewe	43/47[C]	30/31[C]	30/31[C]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	13	R	T	H	-	-	-	-	
610316	St Clair Street, Crewe	44/49[C]	33/34[C]	33/34[C]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	26	R	T	H	-	-	-	-	
610317	Laura Street, Crewe	44/49[C]	34/34[C]	34/34[C]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	11	R	T	H	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610318	Gresty Road, Crewe	46/50[C]	34/35[C]	34/35[C]	Day: Highway works Evening: Vent shaft construction Night: Vent shaft construction	NA	9	R	T	H	-	-	-	-	
610322	Weston Lane, Basford	51/55[A]	-/[B]	-/[C]	Day: Bored tunnel works	NA	34	R	T	-	-	-	-	-	
610323	Weston Lane, Basford	51/56[A]	-/[B]	-/[C]	Day: Bored tunnel works	NA	2	R	T	-	-	-	-	-	
610324	Back Lane, Shavington	48/52[A]	-/[A]	-/[B]	Day: Bored tunnel works	NA	2	R	T	-	-	-	-	-	
610325	Weston Lane, Basford	49/54[A]	-/[B]	-/[C]	Day: Bored tunnel works	NA	24	R	T	-	-	-	-	-	
610326	Newcastle Road, Hough	48/50[A]	-/[B]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	16	R	T	-	-	-	-	-	
610327	Newcastle Road, Hough	49/51[A]	-/[B]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	17	R	T	-	-	-	-	-	
610328	Cobbs Lane, Hough	47/50[C]	-/[C]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	16	R	T	H	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610329	Cobbs Lane, Hough	44/47[A]	-/[A]	-/[A]	Day: Auto transformer station GSM-R civil works	NA	30	R	T	-	-	-	-	-	
610330	Birch Lane, Hough	44/47[A]	-/[A]	-/[A]	Day: Auto transformer station GSM-R civil works	NA	4	R	T	-	-	-	-	-	
610331	Chorlton Lane, Chorlton	45/50[A]	-/[C]	-/[C]	Day: Bored tunnel works	NA	8	R	T	H	-	-	-	-	
610332	Bridge Cottage, Chorlton Lane, Chorlton	43/46[B]	-/[C]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	1	R	T	H	-	-	-	-	
610333	Chiltern Close, Weston	43/45[A]	-/[B]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	14	R	T	-	-	-	-	-	
610334	Fairhaven, Weston	42/45[A]	-/[B]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	16	R	T	-	-	-	-	-	
610335	Fairhaven, Weston	43/46[A]	-/[A]	-/[B]	Day: Auto transformer station GSM-R civil works	NA	11	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610337	Edenbridge Close, Weston	42/46[A]	-/[A]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	50	R	T	-	-	-	-	-	
610338	Fairview Avenue, Weston	48/53[A]	-/[A]	-/[C]	Day: Auto transformer station GSM-R civil works	NA	48	R	T	-	-	-	-	-	
610340	Holbury Close, Crewe	56/60[A]	44/45[A]	44/45[C]	Day: Demolitions Evening: General site works Night: General site works	NA	20	R	T	-	-	-	-	-	
610341	Hythe Avenue, Crewe	62/67[A]	50/51[B]	50/51[C]	Day: Earthworks Evening: General site works Night: General site works	A	12	R	T	H	-	D6	-	-	MA01-C-C3
610342	Bowland Croft, Crewe	64/69[C]	51/52[C]	51/52[C]	Day: Demolitions Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610343	Wharfedale Avenue, Crewe	55/60[A]	42/43[B]	42/43[C]	Day: Earthworks Evening: General site works Night: General site works	NA	13	R	T	-	-	-	-	-	
610344	Haweswater Avenue, Crewe	61/66[B]	49/50[C]	49/50[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	8	R	T	H	-	-	-	-	
610345	Wharfedale Avenue, Crewe	63/68[B]	49/50[C]	49/50[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	H	-	-	-	-	
610346	Haweswater Avenue, Crewe	57/63[A]	42/43[B]	42/43[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	16	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610347	Buttermere Drive, Crewe	60/65[B]	48/49[C]	48/49[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	H	-	-	-	-	
610348	Bleasdale Road, Crewe	56/61[A]	45/46[C]	45/46[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	7	R	T	H	-	-	-	-	
610349	Aysgarth Avenue, Crewe	60/64[B]	48/49[C]	48/49[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	9	R	T	H	-	-	-	-	
610350	Mossfields, Crewe	56/63[A]	38/39[A]	38/39[A]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	21	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610351	Haweswater Avenue, Crewe	55/62[A]	42/43[B]	42/43[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	11	R	T	-	-	-	-	-	
610352	Mills Way, Leighton	51/55[A]	38/39[A]	38/39[A]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	41	R	T	-	-	-	-	-	
610354	Rydal Mount, Crewe	54/58[A]	42/43[A]	42/43[B]	Day: Earthworks Evening: General site works Night: General site works	NA	15	R	T	-	-	-	-	-	
610355	Bleasdale Road, Crewe	54/59[A]	41/42[A]	41/42[B]	Day: Earthworks Evening: General site works Night: General site works	NA	24	R	T	-	-	-	-	-	

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Assessment location		Impact criteria			Construction activity resulting in highest forecast noise levels	Significance criteria								Significant effect	
Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the facade [Assessment category A/B/C]				Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610356	Bleasdale Road, Crewe	53/58[A]	41/42[A]	41/42[B]	Day: Earthworks Evening: General site works Night: General site works	NA	38	R	T	-	-	-	-	-	
610357	Harris Close, Leighton	51/55[A]	40/41[A]	40/41[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	82	R	T	-	-	-	-	-	
610358	Beltony Drive, Crewe	49/53[A]	36/37[A]	36/37[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	144	R	T	-	-	-	-	-	
610359	Great Tithes Place, Crewe	50/54[A]	37/38[A]	37/38[A]	Day: Earthworks Evening: General site works Night: General site works	NA	105	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610360	Mablins Lane, Crewe	50/53[B]	38/39[C]	38/39[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	43	R	T	H	-	-	-	-	
610361	Underwood Lane, Crewe	46/49[B]	34/36[C]	34/36[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	178	R	T	H	-	-	-	-	
610362	Kestrel Drive, Crewe	48/51[B]	37/38[C]	37/38[C]	Day: Earthworks Evening: General site works Night: General site works	NA	205	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610363	Sedgemere Avenue, Crewe	47/51[B]	36/37[C]	36/37[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	119	R	T	H	-	-	-	-	
610364	Selworthy Drive, Crewe	48/51[B]	36/37[C]	36/37[C]	Day: Earthworks Evening: General site works Night: General site works	NA	120	R	T	H	-	-	-	-	
610365	McLaren Street, Crewe	48/50[A]	37/39[C]	37/39[C]	Day: Earthworks Evening: General site works Night: General site works	NA	207	R	T	H	-	-	-	-	
610366	McLaren Street, Crewe	49/52[B]	38/40[C]	38/40[C]	Day: General site works Evening: General site works Night: General site works	NA	210	R	T	H	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610367	McLaren Street, Crewe	49/53[B]	38/40[C]	38/40[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	104	R	T	H	-	-	-	-	
610368	Holland Street, Crewe	47/51[A]	35/37[A]	35/37[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	116	R	T	-	-	-	-	-	
610369	Thornfields, Crewe	53/57[A]	37/38[A]	37/38[A]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	23	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610370	Beltony Drive, Crewe	49/53[A]	35/36[A]	35/36[A]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	23	R	T	-	-	-	-	-	
610373	Parkstone Drive, Crewe	51/55[B]	40/41[C]	40/41[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	1	R	T	H	-	-	-	-	
610380	Broad Street, Crewe	48/53[A]	40/41[B]	40/41[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	52	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610382	Beaconsall Close, Crewe	49/53[A]	37/38[B]	37/38[C]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	188	R	T	-	-	-	-	-	
610383	Selworthy Drive, Crewe	48/51[A]	36/37[B]	36/37[C]	Day: Earthworks Evening: General site works Night: General site works	NA	126	R	T	-	-	-	-	-	
610384	Sherborne Road, Crewe	53/56[A]	42/43[A]	42/43[B]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	7	R	T	-	-	-	-	-	

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Assessment location		Impact criteria			Construction activity resulting in highest forecast noise levels	Significance criteria									Significant effect
Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the facade [Assessment category A/B/C]				Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610385	Perry Fields, Crewe	61/67[A]	45/45[B]	45/45[C]	Day: Culvert construction Evening: Bored tunnel works Night: Bored tunnel works	A	10	R	T	H	-	D2	-	-	MA01-C-C4
610386	Bexington Drive, Crewe	52/56[A]	40/41[A]	40/41[A]	Day: Earthworks Evening: General site works Night: General site works	NA	26	R	T	-	-	-	-	-	
610390	Stoneley Road, Crewe	50/52[A]	38/39[A]	38/39[A]	Day: Earthworks Evening: General site works Night: General site works	NA	12	R	T	-	-	-	-	-	
610391	Broad Street, Crewe	49/52[A]	38/40[A]	38/40[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	115	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610392	Crossway, Crewe	46/50[A]	35/37[A]	35/37[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	45	R	T	-	-	-	-	-	
610393	Remer Street, Crewe	47/51[B]	36/38[C]	36/38[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	86	R	T	H	-	-	-	-	
610394	Middlewich Street, Crewe	47/50[B]	36/38[C]	36/38[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	60	R	T	H	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610395	Abbey Place, Crewe	47/50[A]	35/36[A]	35/36[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	110	R	T	-	-	-	-	-	
610404	Warmingham Road, Crewe	53/58[A]	40/41[A]	40/41[A]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	13	R	T	-	-	-	-	-	
610407	Newfield Cottage, Nantwich Road, Minshull Vernon	76/80[C]	36/40[C]	36/40[C]	Day: Overbridge construction Evening: Overbridge construction Night: Overbridge construction	S	1	R	T	H	-	D3	V	NI	~

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610500	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	52/56[A]	38/39[A]	38/39[A]	Day: Highway works Evening: General site works Night: General site works	NA	20	R	T	-	-	-	-	-	
610501	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	54/58[A]	39/40[A]	39/40[A]	Day: Highway works Evening: General site works Night: General site works	NA	20	R	T	-	-	-	-	-	
610502	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	54/59[A]	38/39[A]	38/39[A]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	NA	20	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610503	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	52/56[A]	38/39[A]	38/39[A]	Day: Highway works Evening: General site works Night: General site works	NA	20	R	T	-	-	-	-	-	
610504	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	55/60[A]	39/40[A]	39/40[A]	Day: Highway works Evening: General site works Night: General site works	NA	20	R	T	-	-	-	-	-	
610505	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	50/56[A]	37/38[A]	37/38[A]	Day: General site works Evening: Bored tunnel works Night: Bored tunnel works	NA	100	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610506	Moss Lane, Leighton and committed development (Map Book ref.: MA01/170)	50/54[A]	36/37[A]	36/37[A]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	100	R	T	-	-	-	-	-	
610507	Higher Croft Drive, Crewe and committed development (Map Book ref.: MA01/170)	48/52[A]	36/37[A]	36/37[A]	Day: Retaining walls construction Evening: General site works Night: General site works	NA	100	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610509	Maplins Moss Place, Crewe	69/76[A]	55/56[B]	55/56[C]	Day: Earthworks Evening: General site works Night: General site works	S	42	R	T	H	-	D38 N25	V	NI	MA01-C-C2 ²³
610510	Maplins Moss Place, Crewe	56/63[A]	44/45[A]	44/45[B]	Day: Earthworks Evening: General site works Night: General site works	NA	39	R	T	-	-	-	-	-	
610512	Barn Meadow Way, Crewe	66/73[A]	49/50[B]	49/50[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	A	29	R	T	-	-	D11	V	-	MA01-C-C2

²³ Of the 42 properties associated with this assessment location, 19 are predicted to qualify for noise insulation. For further information, refer to Volume 2, Community Area report: Hough to Walley's Green (MA01), Section 13.

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610513	Kays Croft Drive, Crewe	65/71[A]	49/50[A]	49/50[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	A	19	R	T	-	-	D19	V	-	MA01-C-C2
610514	Broughton Road, Crewe and committed development (Map Book ref.: MA01/210)	57/60[A]	46/47[A]	46/47[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	52	R	T	-	-	-	-	-	
610515	Mablins Lane, Crewe	50/53[B]	39/40[C]	39/40[C]	Day: Earthworks Evening: General site works Night: General site works	NA	17	R	T	H	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610516	Moss Lane, Leighton	50/54[A]	37/38[A]	37/38[A]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	269	R	T	-	-	-	-	-	
610518	Stable Croft Close, Crewe and committed development (Map Book ref.: MA01/411)	46/49[A]	36/37[A]	36/37[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	18	R	T	-	-	-	-	-	
610519	Stoneley Road, Crewe	51/54[A]	41/42[A]	41/42[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	215	R	T	-	-	-	-	-	

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		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610520	Broad Street, Crewe	51/55[B]	41/43[C]	41/43[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	14	R	T	H	-	-	-	-	
610701	Middlewich Street, Crewe	59/61[A]	47/48[A]	47/48[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	8	R	T	-	-	-	-	-	
610702	Middlewich Street, Crewe	53/56[B]	42/43[C]	42/43[C]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	8	R	T	H	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610704	Hythe Avenue, Crewe	57/61[A]	45/47[A]	45/47[B]	Day: Earthworks Evening: General site works Night: General site works	NA	15	R	T	-	-	-	-	-	
610706	Hythe Avenue, Crewe	57/62[A]	45/46[A]	45/46[C]	Day: Earthworks Evening: General site works Night: General site works	NA	20	R	T	-	-	-	-	-	
610708	Selsey Close, Crewe	56/62[A]	45/47[A]	45/47[B]	Day: Earthworks Evening: General site works Night: General site works	NA	22	R	T	-	-	-	-	-	
610710	Sheringham Drive, Crewe	56/58[A]	45/47[A]	45/47[B]	Day: Earthworks Evening: General site works Night: General site works	NA	31	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610712	Bradfield Road, Crewe	54/57[A]	44/46[A]	44/46[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	14	R	T	-	-	-	-	-	
610738	Bradfield Road, Crewe and committed development (Map Book ref.: MA01/143)	60/68[C]	57/57[C]	57/57[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	1	R	T	H	-	-	-	-	
610742	Abbey Place, Crewe	48/51[A]	36/37[A]	36/37[A]	Day: General site works Evening: General site works Night: General site works	NA	55	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610743	Moss Lane, Leighton and committed development (Map Book ref.: MA01/168)	54/58[A]	39/40[A]	39/40[A]	Day: Highway works Evening: General site works Night: General site works	NA	12	R	T	-	-	-	-	-	
610745	Aysgarth Avenue, Crewe	54/58[A]	41/42[B]	41/42[C]	Day: Earthworks Evening: Bored tunnel works Night: Bored tunnel works	NA	11	R	T	-	-	-	-	-	
610750	Broughton Road, Crewe and committed development (Map Book ref.: MA01/210)	54/57[A]	43/44[A]	43/44[A]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	77	R	T	-	-	-	-	-	
610755	Harris Close, Leighton	49/54[A]	38/39[A]	38/39[A]	Day: Earthworks Evening: General site works Night: General site works	NA	78	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610802	CLS Care Services (Care Home), Elm Drive, Crewe	45/48[A]	30/34[A]	30/34[A]	Day: General site works Evening: Vent shaft construction Night: Vent shaft construction	NA	1	R	T	-	-	-	-	-	
610850	Broughton Road, Crewe	59/65[B]	52/52[C]	52/52[C]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	5	R	T	H	-	-	-	-	
610851	North Street, Crewe	53/58[A]	45/45[A]	45/45[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	9	R	T	-	-	-	-	-	

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610852	North Street, Crewe	52/56[A]	42/44[A]	42/44[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	8	R	T	-	-	-	-	-	
610853	Merchants Court, Crewe	55/59[A]	47/47[A]	47/47[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	18	R	T	-	-	-	-	-	
610854	Stoneley Avenue, Crewe	61/67[A]	55/55[A]	55/55[B]	Day: Bored tunnel works Evening: General site works Night: General site works	A	12	R	T	-	-	D5 N29	-	-	MA01-C-C2

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Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610855	Stoneley Avenue, Crewe	56/60[A]	48/48[A]	48/48[A]	Day: General site works Evening: General site works Night: General site works	A	12	R	T	-	-	N28	-	-	MA01-C-C2
610856	Stoneley Avenue, Crewe	55/60[A]	48/48[A]	48/48[A]	Day: Bored tunnel works Evening: General site works Night: General site works	A	24	R	T	-	-	N28	-	-	MA01-C-C2
610857	Hythe Avenue, Crewe	59/64[A]	47/48[B]	47/48[C]	Day: Earthworks Evening: General site works Night: General site works	NA	10	R	T	-	-	-	-	-	
610858	Selsey Close, Crewe	59/65[A]	47/48[B]	47/48[C]	Day: Earthworks Evening: General site works Night: General site works	NA	18	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610859	Bidvale Way, Crewe	56/61[A]	48/48[A]	48/48[A]	Day: Bored tunnel works Evening: General site works Night: General site works	A	8	R	T	-	-	N28	-	-	MA01-C-C2
610860	Bidvale Way, Crewe	54/58[A]	44/46[A]	44/46[A]	Day: Bored tunnel works Evening: General site works Night: General site works	A	22	R	T	-	-	N24	-	-	MA01-C-C2
610870	Perry Fields, Crewe	56/60[A]	40/40[A]	40/40[B]	Day: Crewe North connection construction Evening: Bored tunnel works Night: Bored tunnel works	NA	15	R	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610871	Perry Fields, Crewe	56/60[A]	41/42[A]	41/42[A]	Day: Crewe North connection construction Evening: General site works Night: General site works	NA	12	R	T	-	-	-	-	-	
610873	Moat House Farm, Middlewich Road, Minshull Vernon and committed development (Map Book ref.: MA01/360)	67/70[A]	38/38[A]	38/38[B]	Day: Highway works Evening: Bored tunnel works Night: Bored tunnel works	A	1	R	T	-	-	D1	-	-	~

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	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	Type of effect	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (Months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Evening 19:00 – 23:00	Night 23:00 – 07:00											
610874	Parkers Road, Crewe and committed development (Map Book ref.: MA01/405)	52/56[A]	41/42[A]	41/42[B]	Day: Bored tunnel works Evening: General site works Night: General site works	NA	12	R	T	-	-	-	-	-	
610881	East Avenue, Weston and committed development (Map Book ref.: MA01/413)	50/54[A]	-/[A]	-/[A]	Day: Auto transformer station GSM-R civil works	NA	99	R	T	-	-	-	-	-	

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Table 6: Assessment of construction noise at non-residential receptors

Assessment location		Impact criteria				Significance criteria							Significant effect		
Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)		Combined impact	Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610003	Car Parts Retail (Lower Sensitivity Offices), Cowley Way, Crewe	68/75	54/55	21	5	Day: Highway works Night: Vent shaft construction	1	A4	T	-	-	D47	-	-	MA01-C-N1
610004	Units 4-5 (Royal Mail Delivery Office), Weston Road, Crewe	49/54	38/39	8	2	Day: Highway works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610005	OSL Rail and Engineering Services (Lower Sensitivity Offices), Weston Road, Crewe	45/49	34/34	-	-	Day: Auto transformer station GSM-R civil works Night: Vent shaft construction	1	A4	T	H	-	-	-	-	
610034	Chuff Chuff Building (Mixed-use commercial),	54/56	42/43	1	-	Day: General site works Night: Vent	1	A4	T	H	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria								Significant effect	
Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
	Middlewich Street, Crewe					shaft construction									
610035	Cooperative Funeral Services (Offices), Middlewich Street, Crewe	53/56	42/43	-	-	Day: General site works Night: Vent shaft construction	1	A4	T	H	-	-	-	-	
610041	Orbitas Bereavement Services (Offices), Market Close, Crewe	60/65	48/49	6	1	Day: General site works Night: Vent shaft construction	1	A4	T	H	-	D35	-	-	MA01-C-N6
610097	Mablins Lane Community Primary School, Mablins Lane, Crewe	50/54	39/40	1	-	Day: Bored tunnel works Night: General site works	1	A3	T	H	-	-	-	-	\$
610138	Spring Farm Business Park (Offices), Moss Lane, Crewe	62/66	44/45	17	2	Day: General site works Night: Bored tunnel works	1	A4	T	-	-	D10 5	-	-	MA01-C-N10

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Assessment location		Impact criteria				Significance criteria									Significant effect
Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610143	A G Building & Joinery, Five Oaks Farm (Lower Sensitivity Offices), Drury Lane, Crewe	56/61	43/43	18	5	Day: Retaining walls construction Night: Bored tunnel works	1	A4	T	-	-	-	-	-	
610270	Chapel View Farm, Chorlton Lane, Chorlton	50/55	-/-	1	-	Day: Auto transformer station GSM-R civil works	1	A4	T	H	-	-	-	-	
610273	Gist Engineering (Lower Sensitivity Offices), Weston Road, Crewe	65/70	53/54	19	7	Day: General site works Night: Vent shaft construction	1	A4	T	-	-	D33	V	-	MA01-C-N2
610274	Bentley Car Scheme (Lower Sensitivity Office), Weston Road, Crewe	63/68	50/51	19	6	Day: General site works Night: Vent shaft construction	1	A4	T	-	-	D7	-	-	MA01-C-N3
610275	Scope House (Offices), Weston Road, Crewe	63/68	50/51	20	8	Day: General site works Night: Vent	1	A4	T	-	-	D57	-	-	MA01-C-N4

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Assessment location		Impact criteria				Significance criteria								Significant effect	
Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
						shaft construction									
610276	Premier Inn Crewe Central (Hotel), Weston Road, Crewe	48/52	37/37	2	1	Day: Auto transformer station GSM-R civil works Night: Vent shaft construction	1	A3	T	-	-	-	-	-	
610278	Mersey Regional Ambulance Service NHS Trust, Badger Avenue, Crewe	56/60	43/44	2	-	Day: General site works Night: Vent shaft construction	1	A3	T	H	-	-	-	-	\$
610312	YMCA, Gretszy Road, Crewe	47/52	35/36	4	-	Day: Highway works Night: Vent shaft construction	1	A3	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610319	The Alexandra Stadium (Offices), Gresty Road, Crewe	45/52	32/33	4	-	Day: Highway works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610320	Unipart Rail (Lower Sensitivity Offices), Gresty Lane, Crewe	50/55	38/39	5	-	Day: Highway works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610321	Omega Building (Lower Sensitivity Offices), Weston Road, Crewe	56/60	44/45	5	2	Day: General site works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610336	Chorlton Methodist Chapel, Chorlton Lane, Chorlton	-/31	-/-	-	-	Day: Auto transformer station GSM-R civil works	1	A2	T	-	-	-	-	-	
610339	Carillion Rail (Lower Sensitivity Offices), Gresty Road, Crewe	48/53	36/36	3	-	Day: Highway works Night: Vent	1	A4	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
						shaft construction									
610376	St. Michael's Community Academy (School), Holland Street, Crewe	48/52	39/41	6	4	Day: Bored tunnel works Night: General site works	1	A3	T	-	-	-	-	-	
610378	Coppenhall Methodist Church, Bradfield Road, Crewe	49/51	38/40	-	-	Day: Bored tunnel works Night: General site works	1	A2	T	H	-	-	-	-	
610379	First Steps Pre-School, Bradfield Road, Crewe	50/52	39/40	-	-	Day: Bored tunnel works Night: General site works	1	A3	T	H	-	-	-	-	
610381	Hopes and Beams (School), Broad Street, Crewe	49/53	40/42	-	-	Day: Bored tunnel works Night: General site works	1	A3	T	H	-	-	-	-	
610401	Birchwood Boarding Kennels (Offices), Birch Lane, Hough, Crewe	43/47	-/-	5	-	Day: Auto transformer station GSM-R civil works	1	A4	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610517	Methodist Church Community Centre, North Street, Crewe	48/52	38/39	-	-	Day: Bored tunnel works Night: General site works	1	A4	T	H	-	-	-	-	
610527	Arena Studios (Recording Studio), Middlewich Street, Crewe	43/45	-/32	-	-	Day: Vent shaft construction Night: Vent shaft construction	1	A1	T	H	-	-	-	-	
610528	Bright Stars Children's Day Nursery, Parkers Road, Crewe	51/57	39/40	-	-	Day: Overbridge construction Night: General site works	1	A3	T	H	-	-	-	-	\$
610530	Crewe Lyceum Theatre, Heath Street, Crewe	36/39	-/-	-	-	Day: Highway works	1	A1	T	-	-	-	-	-	
610531	Holiday Inn Express (Hotel), Macon Way, Crewe	41/45	-/-	-	-	Day: Auto transformer station GSM-R civil works	1	A3	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610532	Crewe Cemetery and Crematorium (Place Of Worship), Market Close, Crewe	52/57	40/41	8	1	Day: General site works Night: Vent shaft construction	1	A2	T	-	-	D7	-	-	MA01-C-N7
610678	Oakfield Lodge School, Warmingham Road, Crewe	53/57	40/41	10	4	Day: Highway works Night: General site works	1	A3	T	-	-	D43	-	-	MA01-C-N9
610737	Nantwich Road (Lower Sensitivity Offices), Crewe	57/64	45/45	3	-	Day: Highway works Night: Vent shaft construction	1	A4	T	H	-	-	-	-	\$
610739	Beechwood Primary School, Meredith Street, Crewe	40/43	-/30	1	1	Day: General site works Night: Vent shaft construction	1	A	T	-	-	-	-	-	

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Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact	Mitigation effect	
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610740	Cemetery Lodge (Offices), Market Close, Crewe ²⁴	61/65	49/50	5	-	Day: General site works Night: Vent shaft construction	1	A4	T	H	-	D10	-	-	MA01-C-N5
610741	Weston Road, Crewe	32/37	-/-	-	-	Day: Auto transformer station GSM-R civil works	1	A4	T	-	-	-	-	-	
610802	CLS Care Services (Care Home), Elm Drive, Crewe	45/48	30/34	4	1	Day: General site works Night: Vent shaft construction	1	A5	T	-	-	-	-	-	

²⁴ Cemetery Lodge includes residential accommodation at ground floor with offices at first floor. In this case, the criteria for first floor office accommodation is more onerous than for the residential component and therefore only the results for the office accommodation are reported here. For an assessment at an equivalent residential location on Market Close, see assessment location ref. 610037 in Table 5.

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Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610803	The Weston Centre (Business Hub), Weston Road, Crewe	42/46	31/32	1	-	Day: Auto transformer station GSM-R civil works Night: Vent shaft construction	1	A4	T	H	-	-	-	-	
610804	Connect House (Offices), Third Avenue, Crewe	50/55	39/39	3	1	Day: Auto transformer station GSM-R civil works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610805	Wrights Food Group (Lower Sensitivity Offices), Weston Road, Crewe	58/62	45/46	5	1	Day: General site works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610810	KLF Graphics Solutions (Offices), Weston Road, Crewe	51/56	38/38	3	-	Day: General site works Night: Vent	1	A4	T	-	-	-	-	-	

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Assessment location		Impact criteria				Significance criteria								Significant effect	
Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
						shaft construction									
610811	Holdcroft Car Dealership (Offices), Weston Road, Crewe	49/55	37/37	1	-	Day: Highway works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610812	Volkswagen Crewe (Offices), Weston Road, Crewe	53/57	41/42	3	1	Day: General site works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610813	Blue Bell Crewe BMW (Offices), Weston Road, Crewe	43/47	30/31	-	-	Day: General site works Night: Vent shaft construction	1	A4	T	-	-	-	-	-	
610822	Middlewich Street Dental Practice, Middlewich Street, Crewe	56/59	45/46	-	-	Day: General site works Night: Vent shaft construction	1	A3	T	H	-	-	-	-	\$

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Assessment location		Impact criteria				Significance criteria								Significant effect	
Reference	Area represented	Typical/highest monthly outdoor L _{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Number of Properties represented	Type of receptor	Receptor design	Existing environment	Unique feature	Impact duration (months)	Combined impact		Mitigation effect
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00										
610872	Moat House Farm (Offices), Middlewich Road, Minshull Vernon and committed development (Map Book ref.: MA01/188)	52/57	40/40	6	1	Day: Earthworks Night: Bored tunnel works	1	A4	T	-	-	-	-	-	
610878	Oxleys Funeral Services (Offices), Badger Avenue, Crewe and committed development (Map Book ref.: MA01/207)	43/46	32/33	-	-	Day: Vent shaft construction Night: Vent shaft construction	1	A4	T	H	-	-	-	-	

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 for a given road has been predicted. Data have 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 8.
- 4.2.11 Explanation of the information within Table 8 is provided in Volume 5, Appendix SV- 001-00000, with the following additional notes in Table 7.

Table 7: 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.
	Yellow denotes a minor impact – a change is of $\geq 3\text{dB} - <5\text{dB}$, or $\geq 1\text{dB} - <3\text{dB}$ where a high existing sound level is identified.
	Orange denotes a moderate impact – a change is of $\geq 5\text{dB} - <10\text{dB}$, or $\geq 3\text{dB} - <5\text{dB}$ where a high existing sound level is identified.
	Red denotes a major impact – a change is of $\geq 10\text{dB}$, or $\geq 5\text{dB}$ where a high existing sound level is identified.
~	When considered under the significance criteria set out in Volume 5: Appendix SV-001-00000, Annex A, Section 1.3, these adverse effects are not considered to be significant on a community basis.
*	For non-residential receptors this indicates the predicted noise levels are above screening criteria which, based upon further qualitative receptor information, (see footnote) does not give rise to a significant effect.
O, CT, V	Combined Impact: If noise or vibration impacts from other construction activities occur at this location: onsite activities (O), off-site construction traffic activities (CT), or construction vibration (V).
R, NR	Number of properties affected (approx.) – identified by type of receptor: R: total number of residential (total number of residential in community). NR: total number of non-residential.

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Table 8: Assessment of construction traffic noise levels

Road name	Portion of road affected	Number of properties affected (approx.)	Daytime traffic sound levels $L_{Aeq,16hr}$ dB			Change compared to current traffic sound level (dB)		Combined impact	Significant effect
			Without the Proposed Scheme (2030)	Typical month during construction	Peak month during construction	Typical month during construction	Peak month during construction		
Casey Lane	Between Hough and Casey Bridge	R: 8 (0)	55.6	57.1	59.7	1.5	4.1	-	~
A500	Shavington, west of Rope Lane	R: 4 (0)	71.4	72.0	72.4	0.6	1.0	-	~
A530 Middlewich Road	Between Alvaston Cottages and Wistaston Green Road	R: 19 (19)	68.1	69.1	70.0	1.0	1.9	-	~
A530 Middlewich Road	Between A532 and railway overbridge	R: 2 (0)	65.5	67.0	67.1	1.5	1.6	-	~
A530 Middlewich Road	Between railway overbridge and Leighton Hospital	R: 10 (0)	66.4	68.1	68.4	1.7	2.0	-	~
Sydney Road	Between Crewe Green Roundabout and railway overbridge	R: 25 (25)	65.2	66.3	66.8	1.1	1.6	-	MA01-C-C5
Lands-downe Road	Between Sydney Road and Coleridge Way	R: 100 (100)	48.5	49.1	52.8	0.6	4.3	-	MA01-C-C6
Limetree Avenue	Between Elm Drive and Acer Avenue	R: 67 (67)	49.8	52.2	58.6	2.4	8.8	-	MA01-C-C7

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Road name	Portion of road affected	Number of properties affected (approx.)	Daytime traffic sound levels $L_{Aeq,16hr}$ dB			Change compared to current traffic sound level (dB)		Combined impact	Significant effect
			Without the Proposed Scheme (2030)	Typical month during construction	Peak month during construction	Typical month during construction	Peak month during construction		
B5076 North Street	Between Middlewich Street and Broughton Road	R: 40 (40)	66.1	66.8	67.3	0.7	1.2	-	~25
B5076 Bradfield Road	Between Broughton Road and Mablins Lane	R: 57 (57)	65.7	66.5	67.4	0.8	1.7	-	~25
B5076 Bradfield Road	Between Parkers Road and Manor Farm Drive	R: 15 (0) ²⁶	66.6	67.1	67.9	0.5	1.3	-	~
Grobby Road	Between Foxes Hollow and Stoneley Road	R: 47 (47)	58.9	60.8	61.9	1.9	3.0	-	~25
Broughton Road	Between 99 Broughton Road and Warmingham Road	R: 69 (69) ²⁷	57.9	58.5	61.2	0.6	3.3	O,V ²⁸	MA01-C-C8
Warmingham Road	Between Broughton Road and Groby Road	R: 51 (51)	65.1	65.9	66.3	0.8	1.2	-	~25

²⁵ Duration of peak impact less than six months and therefore considered to be not significant on a community basis.

²⁶ Includes six properties associated with committed development Planning ref.15/2910N.

²⁷ Includes 11 properties associated with committed development Planning ref. 19/3356N.

²⁸ Approximately 20 properties within this community predicted to experience a combined impact.

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Road name	Portion of road affected	Number of properties affected (approx.)	Daytime traffic sound levels $L_{Aeq,16hr}$ dB			Change compared to current traffic sound level (dB)		Combined impact	Significant effect
			Without the Proposed Scheme (2030)	Typical month during construction	Peak month during construction	Typical month during construction	Peak month during construction		
A530 Middlewich Road	Between B5076 Flowers Lane Bradfield Road and St Peter's Church	R: 27 (27)	62.8	65.5	66.9	2.7	4.1	-	MA01-C-C9
A530 Middlewich Road	Between Four Crofts and Walley's Green	R: 13 (0)	66.1	68.6	68.7	2.5	2.6	-	~

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- 4.2.12 There are no non-residential properties that are likely to be affected by changes in traffic noise.

Airborne sound levels used in other assessments

- 4.2.13 The construction sound results contained in this document have been used by other disciplines, namely agriculture, historic environment, landscape and visual, communities and socio economics, in their assessments. This includes the information in Table 5 and Table 6. Locations of interest to these other disciplines which may not appear in Table 5 or Table 6 are presented in Table 9.

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Table 9: Construction airborne sound levels for use in cross discipline assessments

Assessment location ID		Impact information				Discipline						
Reference	Area represented	Typical/highest monthly outdoor L_{pAeq} [dB] at the façade		Change during month with highest noise level		Construction activity resulting in highest forecast noise levels	Agriculture	Communities	Socio-economic	Ecology	Heritage	Landscape
		Day 07:00 – 19:00	Night 23:00 – 07:00	Day 07:00 – 19:00	Night 23:00 – 07:00							
610071	Coppenhall Working Mens Club & Institute (Social Club), North Street, Crewe	58/63	51/51	4	1	Day: Bored tunnel works Night: General site works	-	Y	-	-	Y	-
610130	Oakfield Lodge School, Warmingham Road, Crewe	53/57	39/40	5	1	Day: Earthworks Night: General site works	-	Y	-	-	Y	-
610143	A G Building & Joinery, Five Oaks Farm (Lower Sensitivity Offices), Drury Lane, Crewe (MA01_0109)	56/61	43/43	18	5	Day: Retaining walls construction Night: Bored tunnel works	-	-	-	-	Y	-
610148	Parkfield Farm, Middlewich Road, Minshull Vernon (MA01/18)	67/74	50/50	8	0	Day: Earthworks Night: Bored tunnel works	Y	-	-	-	-	-
610160	Nantwich Road, Minshull Vernon (MA01_0112)	53/58	42/42	9	2	Day: Rolling stock depot construction Night: Bored tunnel works	-	-	-	-	Y	-
610529	Crewe Cemetery and Crematorium (Place Of Worship), Market Close, Crewe	61/65	49/50	4	0	Day: General site works Night: Vent shaft construction	-	Y	-	-	-	-

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