

M54 to M6 Link Road
TR010054
Volume 6
6.3 Environmental Statement
Appendices
Appendix 4.5 Changes to Scope and
Methodology

Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

July 2020



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M54 to M6 Link Road

Development Consent Order 202[]

6.3 Environmental Statement Appendices Appendix 4.5 Changes to Scope and Methodology

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1 Appendix 4.5 Changes to Scope and Methodology

1.1 Background

1.1.1 Since the submission of the Scoping Report to the Inspectorate on 11 January 2019 the Design Manual for Roads and Bridges environmental standards have been updated. Where possible these new standards have been utilised in undertaking the EIA. Table 1 below outlines the changes in scope and methodology since the submission of the Scoping Report in January 2019.



Table 1: Changes to scope and methodology

ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
Chapter 4:	DMRB V11, S2, P5: HA205/08	DMRB, LA 104	Environmental Value of Receptors	No change
Environmental Assessment	Assessment and Management of	Environmental assessment and	Magnitude of Impact	No change
Methodology	Environmental Effects	monitoring	Significance of Effect Matrix	No change
		Due to the timing of	Construction dust assessment	No change to assessment methodology
		publication of DMRB LA 105 the assessment has been undertaken in line with the scoping opinion and a sensitivity test has been undertaken. For details of the sensitivity testing completed, refer to application document 'DMRB Updates and the Impact on the DCO	Local air quality assessment	No change to assessment methodology
	IAN 170/12 v3 IAN 174/13		Designated ecosystem assessment	No change to assessment methodology
Chapter F. Air	IAN 175/13 Defra's Local Air Quality Management		Local air quality compliance risk assessment	No change to assessment methodology
Chapter 5: Air Quality	Technical Guidance TG16. Latest Transport Analysis Guidance		Local air quality plan level WebTAG appraisal	Assessment of PM2.5 instead of PM10 in line with updated WebTAG guidance.
	as provided by the	Application'	Regional Assessment	No change to assessment methodology.
	Department for Transport	[TR010054/APP/8.2]. Latest Transport Analysis Guidance as provided by the Department for	Aspects scoped in	Assessment of changes to PM _{2.5} added to the scope of the local and regional assessment in addition to NOx and PM ₁₀ following comments from Public Health England. Concentrations of PM _{2.5} have been calculated based on the modelled PM ₁₀ concentrations.
		Transport	Aspects scoped out	No new aspects scoped out of the assessment.



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
			Chapter title	No change
			Archaeological assets	No change to study area.
Chapter 6:	DMRB, V11, S3, P2:	DMRB, LA 106 Cultural Heritage	Built heritage	Receptor sensitivity/ value and magnitude of impact criteria updated in line with LA 106 and LA 104.
Cultural Heritage	HA208/07 Cultural Heritage	DMRB, LA 104 Environmental assessment and	Historic landscapes	No change to significance of effect matrix compliant with LA 104.
		monitoring	Aspects scoped in	No additional aspects scoped in for assessment.
			Aspects scoped out	No new aspects scoped out of the assessment.
	DMRB, LA 107 Landscape and Visual	DMRB, LA 107 Landscape and Visual	Chapter title	No change.
	DMRB V11, S3, P5: Landscape Effects.	DMRB, LA 104 Environmental assessment and monitoring	Landscape assessment	No change to study area.
	Interim Advice Note 135/10, Landscape		assessment	Receptor sensitivity/ value and magnitude of impact criteria updated in line with LA 107.
Chapter 7:	and Visual Effects	Guidelines for Landscape and Visual	Visual assessment	Significance of effects matrix updated in line with LA 104.
and Visual G	Assessment. Guidelines for Landscape and	Impact Assessment (Third Edition)		Viewpoint photography figures updated in line with Landscape Institute TGN 06/19.
	Visual Impact Assessment (Third	(GLVIA3) Landscape Institute TGN 06/19 Visual	Aspects scoped in	Night time views scoped in, in response to consultation response.
		Representation of development proposals	Aspects scoped out	No new aspects of the LVIA have been scoped out.



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
			Chapter title	No change.
	DMRB, V11, S3, P4: Ecology and Nature Conservation.		International nature conservation designations	No change to 30 km study area for SAC designated for bats. Study area reduced from 10 km to 2 km or within 200 m of the affected road network for other international statutory nature conservation designations Internationally designates sites. Change of scope agreed with Natural England.
	DMRB, V10 S4: Nature Conservation		doolghallone	Receptor importance, level of impact and significance matrix criteria updated in line with LA108.
	IAN 130/10: Ecology and Nature Conservation: Criteria for Impact Assessment. Biodiversity Guidelines of			Terminology changes but no change to impact assessment.
		ervation: ria for Impact ssment. elines of ogical Impact ssment in the nd Ireland rtered Institute ology and onmental agement, nd Edition	National statutory nature conservation designations	No change to study area. Receptor importance, level of impact and significance matrix criteria updated in line with LA108. Terminology changes but no change to impact assessment.
	Assessment in the UK and Ireland (Chartered Institute of Ecology and Environmental		Non-statutory nature conservation designations	No change to study area. Receptor importance, level of impact and significance matrix criteria updated in line with LA108. Terminology changes but no change to impact assessment.
Se	Management, Second Edition 2016)		Protected Species	A number of the study areas for protected species have been revised since the scoping opinion. These changes were updated in the PEI Report and reviewed by the County Ecologist and Natural England.
				Receptor importance, level of impact and significance matrix criteria updated in line with LA108.
				Terminology changes but no change to impact assessment. Changes to the study areas are as follows:



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
				Desk study area for Barn Owl increased from 2 km to 5 km.
				The following survey study areas have change
				Badger - Increased from 50 m to 250 m from the Scheme boundary.
				Barn Owl - Increased from 250 m to 500 m from the Scheme boundary.
				Bats trees and structures - Increased tree inspections from 50 m to 100 m from the Scheme boundary.
				Bat Transects - Reduced from 100m from the Scheme boundary to adjacent to the Scheme boundary.
				Bat Crossing point surveys - surveys undertaken following scoping response.
				Breeding and wintering birds - Increased from 100 m to 250 m from the Scheme boundary
				Otter and water vole - Increased from 250 m upstream and downstream of crossing points to 100 m from the Scheme boundary.
				Terrestrial Invertebrates reduced from 100 m from the Scheme boundary to the Scheme boundary.
				White-clawed crayfish - Increased from 250 m upstream and downstream of crossing points to the Scheme boundary.
			Aspects scoped in	Assessment of impacts on barn owl, great crested newt, otter and water vole were scoped back in to the EIA following issue of Scoping Report due to changes in the Scheme boundary.
			Aspects scoped out	Dormouse scoped out of the assessment in agreement with the County Ecologist.



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
			Chapter title	No change.
			Geology and	No change to study area for geologically designated sites. Geology study area increased to match the geologically designated sites, from Scheme boundary to a 250 m study area.
			geologically designated sites	Receptor sensitivity and magnitude of impact criteria have been updated in line with LA 109.
				Significance matrix updated in line with LA104.
				No change to study area.
	Geology and P11: Geology and	DMRB, LA 109 Geology and Soils	Contamination (Human Health)	Receptor sensitivity and magnitude of impact criteria have been updated in line with LA 109.
				Significance matrix updated in line with LA104.
Chapter 9: Geology and Soils			Controlled Waters (Contamination)	Study area for contamination of controlled waters (now referred to instead as surface water and groundwater) increased to 1 km from 500 m.
				Receptor sensitivity and magnitude of impact criteria have been updated in line with LA 109 and LA 113.
				Significance matrix updated in line with LA104.
				No change to study area.
			Agricultural land	Receptor sensitivity and magnitude of impact criteria have been updated in line with LA 109.
				Significance matrix updated in line with LA104.
			Aspects scoped in	No additional aspects scoped in for assessment
			Aspects scoped out	No new aspects scoped out of the assessment.
				Impacts on agricultural land holdings are now reported in Chapter 12: Population and Human Health.



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
			Chapter title	No change
Chapter 10:			Impact on the existing capacity of landfill	Prediction and assessment methodology fundamentally unchanged, no change to assessment outcome.
Material Assets and Waste	IAN 153/11	DMRB, LA 110 Material Assets and Waste	Impacts on the use of primary material resources	Prediction and assessment methodology fundamentally unchanged, no change to assessment outcome.
			Aspects scoped in	No change
			Aspects scoped out	No change
	Chapter 11: Noise and Vibration DMRB V11, S3, P7 HD 213/11 Noise and Vibration, IAN 185/15¹ DMRB V11, S3, P7 HD 213/11 Noise and Vibration, IAN 185/15¹ DMRB V11, S3, P7 HD 213/11 Noise and Vibration, IAN 185/15¹ DMRB V11, S3, P7 HD 213/11 Noise and Vibration, in line with the 2011 version of the DMRB as set out in the scoping report. Version 2 of the Noise and Vibration assessment was submitted to the Planning Inspectorate	publication of the revision to the DMRB LA 111 Noise and Vibration, the original assessment [APP-	Chapter title	No change
			Construction noise and vibration impacts	No effective change to the study area. No change to the scope or prediction methodology. New magnitude of impact criteria have been adopted in line with LA 111, though this does not affect the methodology for the identification of potentially significant effects
Noise and		Construction traffic noise impacts	With the exception of night time diversion routes (see below), no change to the construction traffic noise study area. No change to the prediction methodology. With the exception of night time diversion routes (see below), no change to the magnitude of impact criteria or identification of potentially significant effects as already in line with LA 111. Scope extended to include the new explicit requirement in LA 111 to assess the impacts from night-time diversion routes using a	

¹ In addition to DMRB the Noise and Vibration assessment utilises a wide range of guidance and standards, as detailed in Section 11.3 'Assessment methodology' of the ES and listed in Section 11.11 'References'. These are unchanged from the Scoping stage and are therefore not listed in the table.



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
		in July 2020. The assessment presented in this revision as undertaken in line with		study area of 25 m from any existing roads affected by night-time diversions (23:00-07:00), due to the closure of an existing road.
		LA 111 Noise and Vibration.	Vibration. No other changes to relevant guidance or standards have occurred since	Study area updated as follows: the revised DMRB LA 111 adopts the same two operational traffic noise assessment methodologies as the previous 2011 DMRB:
		No other changes to relevant guidance or standards have occurred since Scoping.		 noise modelling (calculations of noise level changes at specific receptors using 3D noise modelling software); and changes in Basic Noise Level (BNL) (calculations based on the source level of the road rather than the level at each individual receptor).
				LA 111 sets the area of operational traffic noise modelling (the calculation area) at 600 m from the Scheme and existing routes bypassed by the Scheme (i.e. A460 Cannock Road). The requirement in the previous DMRB to also include areas within 600 m of 'affected routes', up to a maximum of 1 km from the Scheme and routes bypassed by the Scheme, has been removed. In both the revised and previous DMRB affected routes outside the calculation area are assessed using the change in the BNL and a 50 m study area, unless this indicates a specific need for detailed modelling.
				The traffic speed data used in the traffic noise predictions has been updated to use pivoted rather than banded speeds. No other changes to the prediction methodology.
				Minor changes to the factors which are considered in identifying significant effects.
			Operational annoyance impacts	Operational traffic vibration impacts now scoped out of the assessment, in line with LA 111.



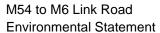
ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
			due to airborne vibration	
			Aspects scoped in	Inclusion of the new explicit requirement in LA 111 to assess the impacts from night-time diversion routes during construction.
			Aspects scoped out	Operational traffic vibration impacts and operational traffic noise annoyance impacts scoped out as no longer required by the revised DMRB LA 111.
			Chapter title	Updated to 'Population and <u>Human</u> Health' from 'Population and Health' in line with LA112.
Chapter 12:	Population and DMRB V11, S3, P9: Environmental Impact	Non-motorised user (NMUs)	NMUS are now referred to as Walkers, Cyclists and Horse-riders (WCH). No change to study area. WCH are considered under the wider heading of 'Land use and access'. Receptor sensitivity and magnitude of impact criteria and significance effect matrix have been updated in line with LA 112 and LA104.	
Health		for a Proportionate Approach. London Healthy Urban Development Unit (2019) HUDU Planning	Motorised users	Views from the road' and 'driver stress' are no longer required to be assessed under the current DMRB standards. It is considered that aspects such as vehicle journey times, congestion and safety are considered in other aspects of the DCO application. These aspects have not been assessed as part of the Population and Human Health Assessment.
		Private assets and development land	These aspects are considered under the wider heading of 'Land use and access' which considers the impacts of the Scheme on 'Businesses and development land', 'Private property and	



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
				housing', 'Community land and assets', 'agricultural land holdings' and 'WCH'.
				The study area has been extended to include receptors up to 500 m from the Scheme boundary.
				Receptor sensitivity and magnitude of impact criteria and significance effect matrix have been updated in line with LA 112 and LA104.
			Community severance	Community severance is now considered under the 'Land use and access' assessment which assesses the change in impact on accessibility restrictions/ severance within the following aspects of the assessment 'community land and assets', 'development land and business' and 'agricultural land holdings'.
				Receptor sensitivity and magnitude of impact criteria and significance effect matrix have been updated in line with LA 112 and LA104.
			Human Health	No change to study area or methodology.
			Aspects seeped in	Community land was previously scoped out of the assessment. Though there are no areas of community land within the new study area the topic of 'Community land and assets' is scoped into the assessment and reported in the ES to consider any changes to access or severance of community assets (e.g. village halls and health care facilities).
			Aspects scoped in	Impacts on Agricultural Land Holdings was previously scoped in as part of Chapter 9: Geology and Soils. This aspect is now assessed in Chapter 12: Population and Human Health. No change to study area. Receptor sensitivity and magnitude of impact criteria and significance effect matrix have been updated in line with LA 112 and LA104.
			Aspects scoped out	No new aspects have been scoped out of the assessment.



ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
Chapter 13: Road Drainage and the Water Environment	V11, S3, P10: HD45/09 Road Drainage and the Water Environment	LA113 Road Drainage and the Water Environment	Chapter Title	No change.
			Groundwater	No change to study area. Receptor sensitivity/ value and magnitude of impact criteria updated in line with LA 113. Significance of effects matrix updated in line with LA 113 and LA 104.
			Surface Water	
			Morphology	
			Flood Risk	
			Aspects scoped in	No additional aspects scoped in for assessment.
			Aspects scoped out	No new aspects have been scoped out of the assessment.
Chapter 14: Climate	HA 207/07: Air Quality IAN 114/08: Highways Agency carbon calculations and reporting requirements	LA114 Climate	Chapter Title	No change.
			Greenhouse gas impact assessment	No change to study area. GHG emissions as a result of loss of carbon sink/ land use change now considered in the assessment.
			Climate change resilience assessment	No change to study area. Minor changes to the significance matrix in line with LA 114.
			In-combination climate impacts assessment	No change to study area. No change to methodology compliant with LA 114.
			Aspects scoped in	No additional aspects scoped in for assessment.
			Aspects scoped out	No new aspects have been scoped out of the assessment.
Chapter 15: Assessment of Cumulative Effects	DMRB V11, S2, P5: HA 205/08 Assessment and Management of Environmental Effects.	LA104 Environmental assessment and monitoring. Planning Inspectorate (2019) Advice Note 17	Chapter title	No change
			Assessment of combined effects	No change to scope or methodology compliant with LA 104.





ES Chapter	Guidance Scoping	Guidance ES	Environmental Aspect	Change to Scope or Methodology since Scoping Opinion
	Planning Inspectorate (2015) Advice Note 17 Cumulative Effects Assessment.	Cumulative Effects Assessment.	Assessment of cumulative effects	No change to scope or methodology compliant with LA 104.