## **Audit Summary Report**

									IN PH	ASE 3	
PCM Link	26047 <b>F</b>		Road/Location		M56, Manchester				Area	NW	
PCM predictions	of NO	<sub>2</sub> con	centrati	ons (µg/m³)	)						
Year		2018	3 201	9 2020	2021	2022	2023	2024	2025	2026	
PCM Modelled NC concentration (µg/		26	25	24	23	21	20	19	18	17	
Monitoring NO₂ Concentration* (μ	onitoring NO <sub>2</sub> oncentration* (µg/m³) 55		60	57	54	51	48	46	43	41	
Qualifying Featur	·e								1	1	
Satellite imagery in	ndicate	s Pub	olic Acce	ss and Sen	sitive Red	ceptors v	within 15	im from th	ne PCM lir	nk.	
Air Quality Monit	oring?	•									
Yes											
Is the Air Quality	Monit	oring	within '	10m, to sup	port Pha	ase 1 de	cision?				
No											
Air quality monitor receptors over rec annual mean NO <sub>2</sub>	ent yea	ars. D	Distance	corrected n	nonitored	NO <sub>2</sub> cor	ncentrati	ons were		e	
Mitigation require	ed?										
Yes – verified air o 40µg/m³ beyond 2		mode	lling sho	ws exceeda	ances of t	he annu	al mean	NO <sub>2</sub> limit	value of		
Possible Mitigation	on Opt	tions									
KEY:		× - Not possibl		sible	✓ - Pos		ssible ? - I		More research require		
Option	ption Feasible to bring compliance forward?			Summary							
Source – reducin	g emis	ssion	s from t	he SRN							

	T	
Electric Towns and Cities Initiative (ETCI)	*	Interim criteria (outlined below) have been established to determine whether the ETCI initiative could be successfully delivered at locations along the SRN.  Is there a limit value exceedance after 2026? Are there more than 10,000 vans on this route? Is the section of SRN in or close to an economic catchment area?  Based on these criteria, ETCI would not be appropriate for this SRN PCM link as it is predicted to become compliant with the annual mean NO <sub>2</sub> limit value by 2026.
Traffic Management	*	There are no possible reasonable traffic management solutions for this PCM link.
Speed Management of 60mph	*	The existing speed limit along the M56 is 70mph. However, WebTRIS data has identified the daily average speed of vehicles travelling along this section of the M60 are already approximately 60mph. Consequently, speed management would not be appropriate for this part of the network.
Bus Retrofit	×	It has been agreed with JAQU that given the incredibly small number of bus journeys on the motorway network this mitigation will result in no discernible reduction in NOx emissions along this link and therefore, this measure is not being progressed.
HGV Retrofit	*	A review of traffic data for this PCM link has identified approximately 6,670 HGVs travelling along this link. Theoretically, a HGV retrofit scheme could reduce annual mean $NO_2$ concentrations by $1.0\mu g/m^3$ . However, no accredited retrofit system is currently available for HGVs nor is it known the mechanism for delivery. As such, it is anticipated that this measure would require a Government led scheme for delivery and National Highways is not able to progress this measure at this time.
Local Authority Clean Air Zone (CAZ)	?	At the time of preparing the Audit Report for this link (September 2023), Greater Manchester Authorities (GMA) have proposed significant changes to their charging CAZ. It is, therefore, is not known what type of CAZ nor the interventions GMA are proposing to bring forward. Consequently, it is not possible to confirm the level of change in NO <sub>2</sub> concentrations attributed to the Greater Manchester CAZ.
Pathway – preve	enting the emission	ns reaching receptors
9.5m high barrier	×	Emerging evidence based on air quality monitoring research undertaken by National Highways indicates a 2 – 5µg/m³ reduction in annual mean NO₂ concentrations behind a 9.5m overhanging barrier.
		This PCM link has been reviewed and construction of a barrier has been dismissed due to physical constraints. In any case,

		would not deliver compliance in a shorter timescale.
Tunnels / canopies, Bypass	×	The current programme to build a tunnel / canopy or a bypass is estimated to be at least between 5 – 10 years. This means that none of these measures could be delivered earlier than the reported compliance date set out in the PCM model.
Receptor – dealing	g with concent	trations at the affected receptors
Any other local measures	?	Public Access  Footpaths are located within 15m of this PCM link. A review of the existing footpaths has identified that there could be potential for an alternative route for these footpaths and a feasibility study is required.
Summary		
qualifying for the develop • There is powill be requ	eature along the ement of mitigate tential for the for	tified an exceedance in 2019 when distance corrected to the closest e PCM link. Therefore, this PCM Link has been taken forward for tion measures.  potpaths located within 15m to be relocated, but a feasibility study ne how viable this is.
Recommendation		
		ompleted for the Phase 3 assessment has concluded that there are ong PCM link 26047 up to and including the year 2026.
measures to support	rt compliance ir	this SRN PCM link, National Highways has considered a range of the shortest possible timeframe. These measures have included licted to bring forward compliance with the limit value by one year,
•		d the Greater Manchester CAZ has been reached the Audit e taking into account the impacts attributed to the CAZ.
Currently further v		sed to establish whether the footpaths within 15m of the SRN s locality.
Supporting Activit	ies	

## Notes:

\*Distance corrected monitored concentration (14\_M56\_J4-3\_NB\_N) in 2019 and projected annual mean  $NO_2$  concentrations using Defra's Roadside  $NO_2$  projections (LAQM.TG(16))