

Sandwell Metropolitan Borough Council

Air Quality Action Plan

In fulfilment of Part IV of the Environment Act 1995, as amended by the Environment Act 2021

Local Air Quality Management

June 2025

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Executive Summary

This Air Quality Action Plan (AQAP) has been produced as part of our statutory duties required by the Local Air Quality Management framework. It outlines the actions we will take to improve air quality in Sandwell Council between 2025 and 2030. The AQAP sets out how the local authority will exercise its functions in order to secure the achievement of the air quality objectives.

This action plan is a draft version and will be adopted from 2025 (date tbc). Implementation of the outlined measures will result in revocation of the AQMA being attained in 2027.

The relevant Air Quality Management Areas (AQMAs) addressed by this action plan are outlined below:

 Sandwell Air Quality Management Area, declared for exceedances of the annual mean NO₂ objective in 2005.

This action plan replaces the previous action plan which ran from 2020 to 2025. Projects delivered through the past action plan include:

- Working with Faith Centres across the Borough to reduce local air pollution by encouraging behavioural change using low-cost air quality monitors and a web based AQ dashboard and AQ toolkit.
- Town Centre Active Travel Interventions completed in Blackheath and Wednesbury.
- Protected cycle lane constructed along A4123 between Burnt Tree and Tipton Road junctions.
- Bus lane enforcement cameras introduced on three bus lanes which led to improvements in bus service timetabling reliability.
- Modelling of the impact on air quality of a 40 mph to 30 mph speed reduction on All Saints Way, West Bromwich.
- The creation and launch of Sandwell's 'Auntie Duck Children's Air Quality Education Programme'.

- Collaboration with the WMCA to enable the deployment of 13 air quality monitoring 'Zephyrs' in Sandwell in 2024, contributing to the broader West Midlands Clean Air website and data-sharing platform.
- Installation of signage at nine boundary crossing points along Sandwell's canals to inform boaters that they are entering a Smoke Control Area.
- Delivery of Sandwell's 2024/2025 Bikeability programme, funded by a Department for Transport grant.
- Successfully completed and formally exited the government's 'Third Wave'
 NO₂ monitoring programme in July 2024.

Air pollution is associated with a number of adverse health impacts. It is recognised as a contributing factor in the onset of heart disease and cancer. Additionally, air pollution particularly affects the most vulnerable in society: children and older people, and those with heart and lung conditions. There is also often a strong correlation with equalities issues because areas with poor air quality are also often less affluent^{1,2}.

The UK Health Security Agency (formally Public Health England) has estimated that the costs of air pollution in England to health and social care services could reach between £5.3 and £18.6 billion between 2018 and 2035 ³. Sandwell Council is committed to reducing the exposure of people in Sandwell to poor air quality in order to improve health.

We have developed 21 actions that can be considered under seven broad topics:

- Environmental permits
- Policy guidance and development control
- Promoting travel alternatives
- Public information

¹ Environmental equity, air quality, socioeconomic status and respiratory health, 2010

² Air quality and social deprivation in the UK: an environmental inequalities analysis, 2006

³ Public Health England. Estimation of costs to the NHS and social care due to the health impacts of air pollution: summary report, May 2018

- · Transport planning and infrastructure
- Traffic management
- Vehicle fleet efficiency

Our priorities are to protect the health of children and young people within the Borough and drive forward behaviour change with respect to travel choices, particularly focused on the adoption of active travel.

In this AQAP, we outline how we plan to effectively tackle air quality issues within our control. However, we recognise that there are a large number of air quality policy areas that are outside of our influence (such as vehicle emissions standards) but for which we may have useful evidence, and so we will continue to work with regional and central government on policies and issues beyond Sandwell Council's direct influence.

Responsibilities and Commitment

This AQAP was prepared by the Pollution Control Team of Sandwell Council with the support and agreement of the following officers and departments:

- Alison Bishop
- Becky Willson
- Carl Mercer
- Claire Hammond
- Ellen Blakey
- Fiona Gee
- Hayley Insley
- Keith Allcock
- Liann Brookes Smith
- Lina Martino
- Louise Bodlovic
- Margaret Gardiner

- Phil Kingston
- Shane Middleton
- Sharon Lang
- Suzy Street-Hall
- Tina Okewale

This AQAP has been approved by:

<insert details of high level Council members who have approved the AQAP (This could also include support from County Councils or from National Highways where appropriate) e.g. Head of Transport Planning, Head of Public Health, with esignature>.

<Amend as appropriate This AQAP has/has not been signed off by a Director of Public Health. Specify which body has signed off the AQAP>

The following Air Quality Partners / stakeholders have contributed to the development of the AQAP and will be committed to delivery of actions:

- Black Country Transport;
- · British Cycling;
- Living Streets;
- National Highways;
- NHS Black Country Integrated Care Board;
- Sandwell and West Birmingham Hospitals NHS Trust;
- Transport for West Midlands; and
- West Midlands Combined Authority.

This AQAP will be subject to an annual review, appraisal of progress and <reporting to the relevant Council Committee (specify, if relevant)>. Progress each year will be reported in the Annual Status Reports (ASRs) produced by Sandwell Council, as part of our statutory Local Air Quality Management duties.

If you have any comments on this AQAP please send them to Pollution Control Team at:

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1 Introduction

This report outlines the actions that Sandwell Council will deliver between 2025 and 2030 in order to reduce concentrations of air pollutants and exposure to air pollution; thereby positively impacting on the health and quality of life of residents and visitors to Sandwell. The purpose of the report is to set out how the local authority will exercise its functions in order to achieve the relevant air quality objectives. This action plan is a draft version.

It has been developed in recognition of the legal requirement on the local authority to achieve and maintain Air Quality Objectives under Part IV of the Environment Act 1995, as amended by the Environment Act 2021, and to meet the requirements of the Local Air Quality Management (LAQM) statutory process.

This Plan will be reviewed every five years at the latest and progress on measures set out within this Plan will be reported on annually within Sandwell Council's air quality ASR.

2 Summary of Current Air Quality in Sandwell

2.1 Air Quality Management Areas

The relevant Air Quality Management Areas (AQMAs) addressed by this AQAP are outlined below.

One Air Quality Management Area (AQMA) has been declared by Sandwell Council for exceedances of the annual mean objective for nitrogen dioxide (NO₂) in 2005. This AQMA covers the entire Borough.

Table 2-1 – Relevant Declared Air Quality Management Areas

AQMA Name	Date of Declaration	Pollutants and Air Quality Objectives	One Line Description	Is air quality within the AQMA influenced by National Highways roads?	Level of Exceedance: Declaration	Level of Exceedance: Current Year	Number of Years Compliant with Air Quality Objective
Sandwell Air Quality Management Area	Sandwell AQMA Order 2005	NO ₂ Annual Mean	An area encompassing the whole Borough of Sandwell.	YES	58.5 μg/m³	34.7 μg/m³	2 years (up to 2023)

2.2 Public Exposure

Sandwell has an estimated population of 347,551⁴ living within the Borough-wide AQMA; however, not all are expected to be exposed to NO₂ in exceedance of the air quality objective. Sandwell is characterised by large industrial areas and a road network featuring major arterial roads including the M5 motorway which bisects the Borough and the M6 which runs along the eastern edge of the Borough. A summary of the current air quality (2023) in the Borough is provided below.

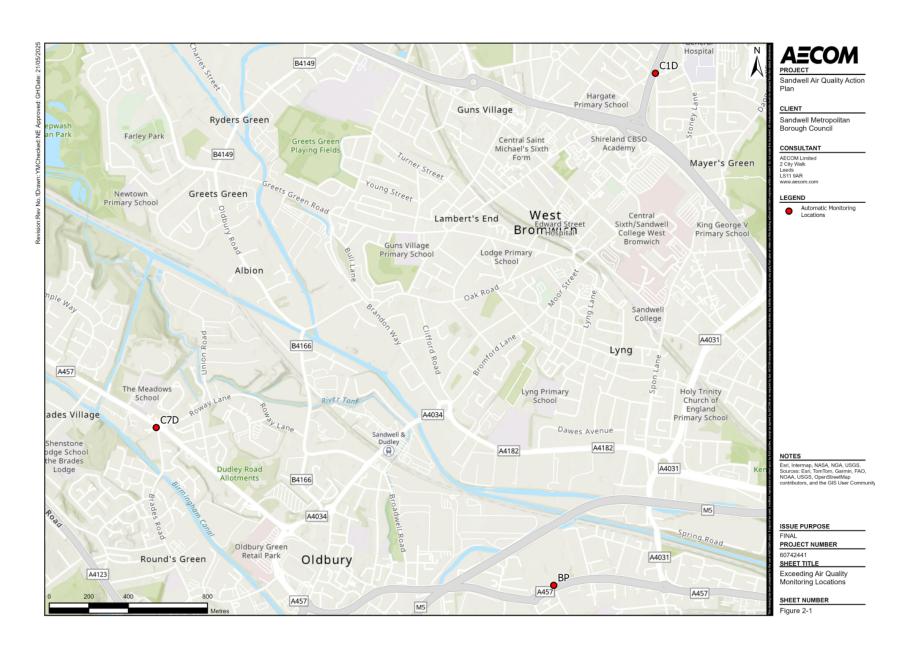
Sandwell operates a monitoring network comprising of five automatic monitoring analysers monitoring nitrogen dioxide (NO_2), particulate matter (PM_{10} and $PM_{2.5}$) and ozone (O_3) as well as 119 passive diffusion tube monitoring sites across the Borough. Additionally, Sandwell use non-reference grade, low cost-air quality monitors, such as Zephyrs, to monitor potential air pollution hotspots and air quality at a more granular scale.

In 2023, there were two diffusion tubes (BP and C1D) which monitored NO_2 concentrations above the annual mean objective for NO_2 of 40 μ g/m³, and a further diffusion tube (C7D) within 10% of the annual mean objective for NO_2 . Details of these three sites are provided in Table 2-2 below and they are shown in **Error! Reference source not found.**

Table 2-2 – Exceeding Air Quality Monitoring Locations

Location	ID	х	Υ	Annual mean NO ₂ concentration (µg/m³)				
2000000				2019	2020	2021	2022	2023
Telegraph Pole Birmingham Road B69 4EH	BP	400149	289424	34.3	30.3	36.2	44.5	44.0
Crossing Point near JB Stores Grafton Road B71 4EB	C1D	400664	292020	36.8	30.3	31.9	37.8	41.4
Downpipe Dudley Road East Oldbury B69 3EB	C7D	398136	290226	29.2	28.9	35.7	36.9	36.3
Bold text denotes exceed	dance	of annual	mean ob	jective				

 $^{{}^{4}\,\}underline{\text{https://www.ons.gov.uk/people population}} and community/population and migration/population estimates$



In all three cases, the monitoring sites were located in roadside locations, where the monitors were closer to the emissions source (the road) than the relevant exposure (the roadside residences). Once the concentrations have been distance-corrected to the nearest location relevant for exposure, none of these monitoring sites record a concentration that is considered an exceedance – above or within 10% of the annual mean objective for NO₂.

An error was present in the 2023 and 2024 Annual Status Reports for the calculated concentration representative of relevant exposure for the monitoring site BP. This error has been rectified, and the correct concentrations are shown in Table 2-3 below. In the reporting years of 2022 and 2023, BP was the only monitoring site in Sandwell in exceedance of the air quality objective at relevant exposure, however based on the concentrations in Table 2-3, Sandwell AQMA has been compliant with the Air Quality Objective in 2022 and 2023. Early indications are that compliance continues in 2024.

Table 2-3 - Corrected "fall off with distance" calculations for BP

Year	Raw Annual Mean	Bias Adjusted Mean	Predicted at receptor following "fall off with distance" calculation	Incorrect "fall off with distance" value previously reported
2022	54.4	44.5	33.3	40.2
2023	53.1	44.0	32.7	39.8

From 2019 to 2023, Sandwell followed the UK downward trend in annual mean NO₂ concentrations, with an average reduction of 19.5% at roadside sites and 20.0% at urban background locations, as shown in Figure 2-2.

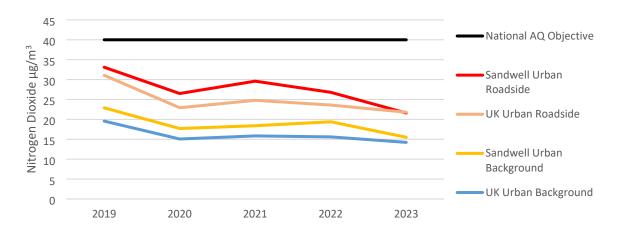


Figure 2-2 – Annual Mean NO₂ Concentration Trends at all Monitoring Sites in Sandwell 2019 – 2023

Since 2019, only six of the 119 diffusion tube monitoring sites in Sandwell have not followed the UK trend and have observed increases in annual mean NO₂ concentrations, in 2023, three of these sites remain above or within 10% of the national objective prior to distance correction to representative locations. These are BP, C1D and C7D which are located on a dual carriageway close to a roundabout, by a dual carriageway with pedestrian controlled traffic lights and by a busy roundabout on the A457 Dudley Road respectively, these are locations which have significant amounts of braking and acceleration which contributes to the elevated concentrations. The remaining 95% of sites demonstrate decreases in NO₂ concentration since 2019.

Within the AQMA, the monitored PM $_{10}$ concentrations at four automatic monitors range from 10.2 $\mu g/m^3$ to 19 $\mu g/m^3$ from 2019 to 2023, as shown in Figure 2-3, this is well below the annual mean PM $_{10}$ objective of 40 $\mu g/m^3$. Similarly, the monitored PM $_{2.5}$ concentrations range from 6.1 $\mu g/m^3$ to 9.0 $\mu g/m^3$ across the same time period, as shown in Figure 2-4, these concentrations are also below the annual mean PM $_{2.5}$ target value of 10 $\mu g/m^3$ by 2040. However, it is widely recognised that there is no safe level of particulate pollution and health impacts are expected even below these values.

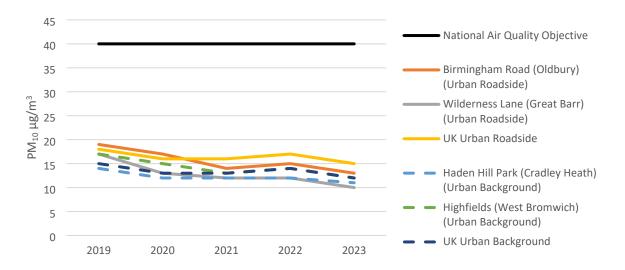


Figure 2-3 – Annual Mean PM_{10} Concentration Trends at all Monitoring Sites in Sandwell 2019 – 2023

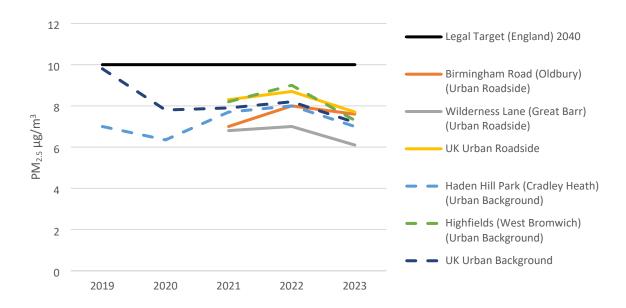


Figure 2-4 – Annual Mean $PM_{2.5}$ Concentration Trends at all Monitoring Sites in Sandwell 2019 – 2023

Overall, from 2019 to 2023, Sandwell followed the UK downward trend in annual mean PM₁₀ concentrations, with an average reduction of 10.3% at roadside sites and 6.8% at urban background locations, as shown in Figure 2-3. PM₁₀ concentrations in Sandwell have continued to track below the average UK PM₁₀ concentrations at all monitoring locations since 2021.

Overall, from 2021 to 2023, Sandwell followed the UK downward trend in annual mean PM_{2.5} concentrations, with an average reduction of 0.2% at roadside site, and

an average reduction of 1% at urban background sites between 2019 and 2023, as shown in Figure 2-4. PM_{2.5} concentrations in Sandwell have continued to track below the average UK PM_{2.5} concentrations at both of the Urban Roadside monitoring locations. The annual urban background PM_{2.5} concentrations recorded at the monitor at Haden Hill Park have been below the UK national average for the last five years. The monitor at Highfields has been recording annual mean PM_{2.5} concentrations above the UK national average since installation, however, the PM_{2.5} concentrations follow the trend of the UK national average by increasing slightly from 2021 to 2022 and then decreasing again from 2022 to 2023.

In addition to diffusion tube and reference grade automatic monitoring, Sandwell also deploys a network of 21 low-cost, Zephyr sensors which provide near real time air pollution monitoring at a more granular level. In 2023, all Zephyr sensors were compliant with the current annual mean national objectives for NO₂, PM₁₀ and PM_{2.5}. The highest reported NO₂ concentrations were 29.6 and 29.4 μ g/m³ at Z931 (Holy Trinity Church, Smethwick) and Z931 (Guru Har Rai Sahib Ji, West Bromwich) respectively. The highest reported PM₁₀ concentrations were 14.5 and 13.4 μ g/m³ at Z778 (Gospel Oak Road, Tipton) and Z1289 (Bull Street, West Bromwich) respectively. The highest reported PM_{2.5} concentration was 7.5 μ g/m³ at Z778 and Z916 (Cradley Heath Community Link, Cradley Heath). These provide further evidence for concentrations below the relevant objectives and targets.

2.3 Comparison to Wider Region

On 1st June 2021, Birmingham City Council launched a Class D Clean Air Zone (CAZ).⁵ A CAZ is an area where targeted action is taken to improve air quality, by discouraging the most polluting vehicles from entering. Birmingham's Class D CAZ operates within the A4540 Middleway, but not on the ring road itself, for 24 hours a day, 365 days a year and vehicles that do not meet the following emissions standards are charged a daily fee:

Euro 4 or higher for petrol cars or vans

⁵ Birmingham City Council Clean Air Zone Air Quality and Road Traffic Update Report 2023

- Euro 6 or higher for diesel cars and vans
- Euro VI or higher for lorries, buses and coaches.

The southeast of Sandwell Borough is located less than 2 km from the northeastern edge of the CAZ.

Prior to the launch of the CAZ, there was concern in Sandwell that there would be a "displacement" of vehicles from within the city centre to the ring road⁶ and beyond into the West Midlands thereby increasing through traffic passing through Sandwell. However based on the vehicle numbers observed, this risk does not appear to have occurred as there has been no increase in vehicle numbers on the ring road⁷.

Additionally, concerns were raised about the potential impact on Sandwell's air quality.⁸ Figure 2-5 shows the comparison between all monitoring sites across Sandwell Borough and Birmingham City from 2019 through 2023. No sizeable increase was seen in the Sandwell monitoring concentrations following the implementation of the CAZ in June 2021 and the rate of change in concentrations broadly matches that seen in the Birmingham monitoring sites for both automatic and diffusion tube monitoring sites. On average, Sandwell concentrations at diffusion tube monitoring sites reduced by 17.5% from 2019 to 2023 (range from 28.3% increase to 40.5% decrease) and Birmingham concentrations reduced by 17.0% in the same time period (range from 17.6% increase to 31.0% reduction). At the automatic sites, Sandwell concentrations reduced by an average 25.8% from 2019 to 2023 (range of 15.2% - 34.0% decreases) and Birmingham concentrations reduced by an average of 26.6% (range of 6.3% - 37.4% reductions).

Figure 2-6 shows the concentrations at just the roadside sites in Sandwell and Birmingham (excluding background and other site types). Both areas show broadly the same trends with reductions of approximately $6-10~\mu g/m^3$ from 2019 to 2023. There was an average reduction of 16.8% across roadside sites in Sandwell from

 $^{^6\} https://sandwell.moderngov.co.uk/Data/Health\%20 and \%20 Adult\%20 Social\%20 Care\%20 Scrutiny\%20 Board/201901211730/Agenda/05a\%20-60 https://sandwell.moderngov.co.uk/Data/Health%20 and \%20 Adult\%20 Social\%20 Care\%20 Scrutiny\%20 Board/201901211730/Agenda/05a\%20-60 https://sandwell.moderngov.co.uk/Data/Health%20 and \%20 Adult%20 Social\%20 Care\%20 Scrutiny\%20 Board/201901211730/Agenda/05a\%20 https://sandwell.moderngov.co.uk/Data/Health%20 and \%20 Adult%20 Scrutiny\%20 Board/201901211730/Agenda/05a\%20 https://sandwell.moderngov.co.uk/Data/Health%20 Adult%20 Scrutiny\%20 Board/201901211730/Agenda/05a\%20 https://sandwell.moderngov.co.uk/Data/Health%20 Board/201901211730/Agenda$

⁷ Birmingham CAZ report 2023

⁸ https://sandwell.moderngov.co.uk/Data/Health%20and%20Adult%20Social%20Care%20Scrutiny%20Board/201901211730/Agenda/05a%20-%20Air%20Quality%20Scrutiny%20Panel%20presentation.pdf

2019 to 2023 and 16.9% in Birmingham. These two figures show that the CAZ does not appear to have had a negative impact on air quality in Sandwell.

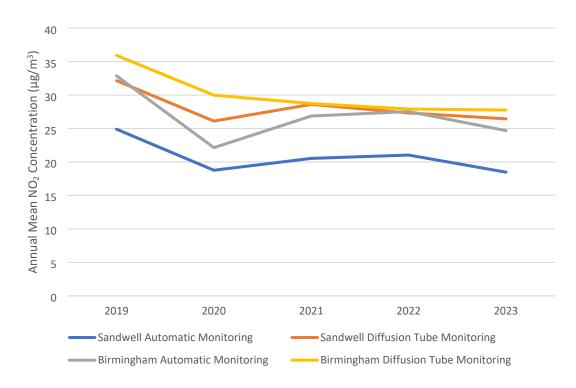


Figure 2-5 – Annual Mean NO₂ Concentrations at All Monitoring Sites in Sandwell and Birmingham from 2019 to 2023 (μg/m³)

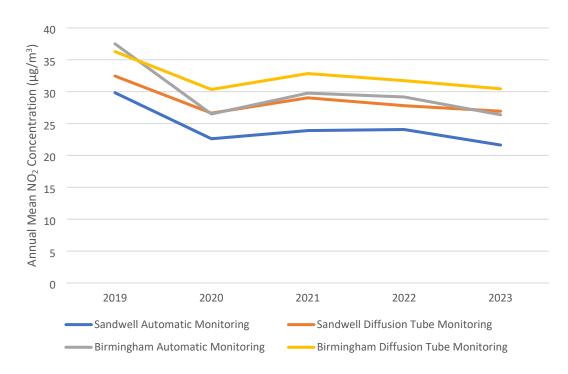


Figure 2-6 – Annual Mean NO₂ Concentrations at Roadside Monitoring Sites in Sandwell and Birmingham from 2019 to 2023 (μg/m³)

2.4 Smoke Control Areas

Sandwell has one smoke control area covering the whole Borough⁹ which was declared in October 2022 and came into operation on 1st July 2024. A smoke control area is an area where people and businesses must not emit smoke from a chimney or buy or sell unauthorised fuel for use in a smoke control area unless it is used in an 'exempt' appliance (an appliance which has been approved for use in a smoke control area)¹⁰.

2.5 Industrial Emissions

Within Sandwell there are 39 installations operating under Part A1 (Environment Agency regulated) Environmental Permit¹¹ and 98 installations operating under Part

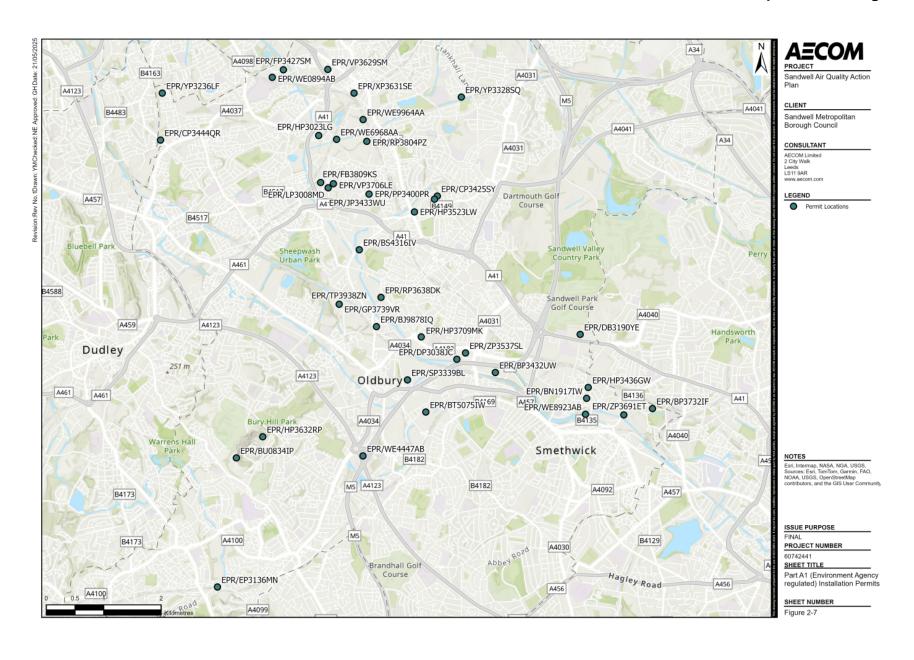
⁹The Borough Council of Sandwell Smoke Control Order 2022

¹⁰ https://uk-air.defra.gov.uk/sca/

¹¹ https://environment.data.gov.uk/public-register/industrial-installations/registration?easting=&northing=&name-search=&number-search=&local-authority=Sandwell&address-search=& postcode=&dist=1

A2 or Part B (locally regulated) Environmental Permit. These include industries such as food, power, metals, chemicals, and waste disposal. Permit holders must comply with the terms of their environmental permit. This may cover elements such as the design of the facility (to avoid and control emissions using best available techniques), carrying out a risk assessment to identify potential emissions, operating a management system to minimise the identified risks of pollution, and enacting appropriate measures based upon the type of activity (for example the use of particular equipment or monitoring strategies).

Figure 2-7 shows the regional distribution of the 39 installations operating under Part A1 (Environment Agency regulated) Environmental Permits. In comparison to the rest of the Black Country and the West Midlands, Sandwell has a much higher number of regulated activities. There are 45 installations operating under Part A1 Environmental Permits across the rest of the Black Country along with 47 in Birmingham, five in Solihull and 12 in Coventry.



3 Sandwell Council's Air Quality Priorities

3.1 Public Health Context

Air pollution is the largest environmental risk to public health in the UK¹² and can cause and worsen health effects, particularly in the most vulnerable groups of society including children, the elderly, individuals with existing cardiovascular or respiratory diseases, pregnant women and low-income communities.

The Public Health Outcomes Framework includes $PM_{2.5}$ as a key indicator of mortality, this is the mortality burden associated with long term exposure to particulate matter and is expressed as a percentage of annual deaths from all causes in the population over 30 years of age. The fraction of mortality attributable to particulate air pollution in Sandwell in 2023 was 5.9%. This is slightly higher than the average for English local authorities of 5.2%. Sandwell has the highest mortality fraction due to particulate ($PM_{2.5}$) air pollution in the West Midlands, tied with Walsall, and so is above the average for the region of 5.6%.

Sandwell has an estimated population of $347,551^{13}$ living within the Borough and the AQMA in mid-2023. 22% of the population is estimated to be aged 0-15, which is higher than the England and West Midlands averages of 18% and 19% respectively. Whereas the proportion of the population estimated to be over 65 is 15%, which is lower than the proportions for England and the West Midlands of 19%. These are two of the most vulnerable population groups where air pollution can cause and worsen health effects. 14

Hospital admissions during 2021/22 for asthma in children and young people under 19 years old were notably higher in Sandwell than in England and the West Midlands. There were 207.4 admissions per 100,000 in 2021/22 in Sandwell compared to 165.6 for West Midlands and 131.5 for England. The higher admission

¹² https://www.gov.uk/government/publications/air-pollution-applying-all-our-health/air-pollution-applying-all-our-health

¹³ https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationestimates

¹⁴ https://www.gov.uk/government/publications/air-pollution-applying-all-our-health/air-pollution-applying-all-our-health

 $^{^{15}\} https://www.sandwelltrends.info/wp-content/uploads/sites/5/2024/09/JSNA-Chapter-2b-Grow-Well-Apr-24.pdf$

rate for children in Sandwell may reflect the larger proportion of children ages 0-15 in Sandwell compared to England and the West Midlands as well as the air pollution burden in Sandwell.

Indices of Multiple Deprivation (IMD) 2019 shows Sandwell's average deprivation score ranked as the 12th most deprived local authority (LA) in England, out of 317 LAs. 186 of England's 32,844 Lower Super Output Areas (LSOA) are located in Sandwell and 20% of these LSOAs fell into the most deprived 10% nationally in 2019 and a further 40% fell into the most deprived 10-20%. Overall, 60% of Sandwell's LSOAs fell into the worst 20% nationally, and only 3% into the 40% least deprived nationally. The high levels of deprivation prevalent across large parts of the Borough may indicate increased vulnerability to the effects of air pollution. Figure 3-1 shows the distribution of IMD indices in Sandwell. The sandwell in the sandwell

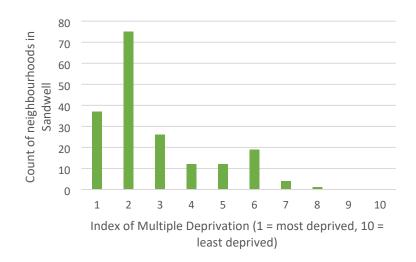
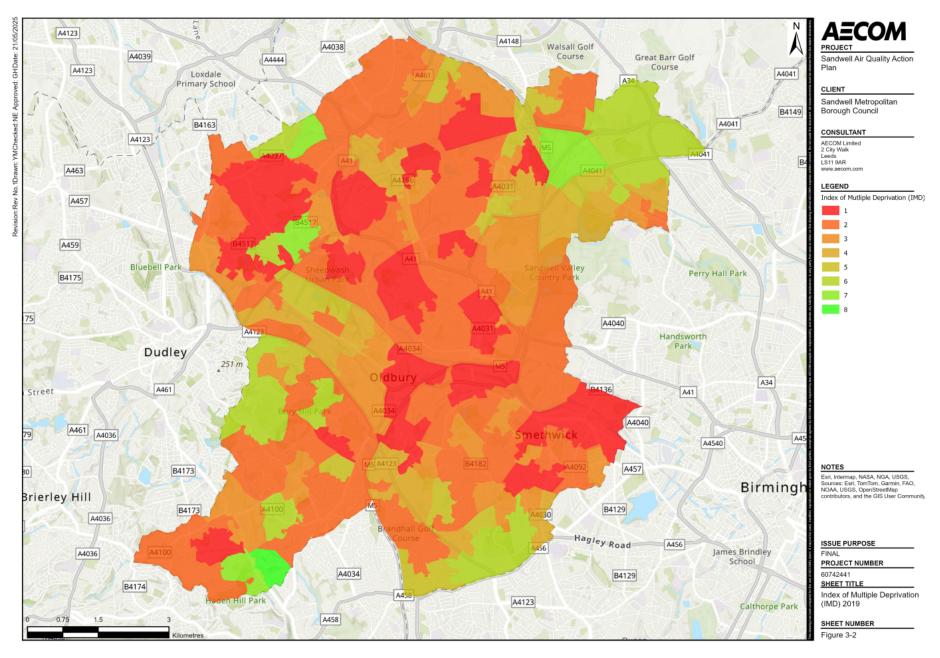


Figure 3-1 – Distribution of Lower Super Output Areas in Sandwell across the Indices of Multiple Deprivation

¹⁶ https://www.sandwelltrends.info/deprivation_west_midlands_context/ accessed 13/03/2025

¹⁷ https://www.gov.uk/government/statistics/english-indices-of-deprivation-2019 File 1: Index of multiple deprivation



Nationally, the least deprived decile experienced on average 44 - 57% less median annual NO_X emissions compared to most deprived decile, not just for road transport¹⁸. Figure 3-3 shows the change in emissions by deprivation decile for different source sectors, it shows that all source sectors shown decrease by at least 25% when going from the most to least deprived deciles. It is estimated that at least 66% of counties or Unitary Authorities in England have significant deprivation-based inequality in NO_X emissions and more deprived regions are more likely to experience higher pollutant emissions.

Road transport and domestic wood burning have been identified as the two UK sectors which contribute most significantly to the PM_{2.5} exposure differentials in England when evaluated using the IMD, as their contributions increase in more deprived areas.¹⁹

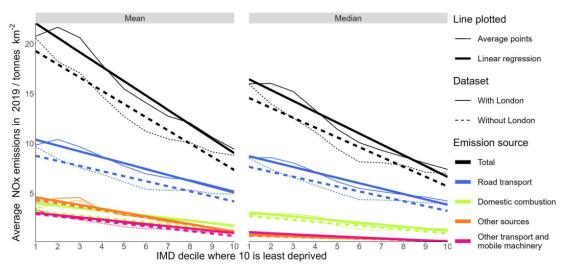


Figure 3-3 – The mean and median emissions of NO_X by LSOA across England for major source sectors.

¹⁸ https://uk-air.defra.gov.uk/assets/documents/reports/cat05/2503251005 AQEG Differentials clean 280824.pdf

¹⁹ https://uk-air.defra.gov.uk/assets/documents/reports/cat05/2503251005_AQEG_Differentials_clean_280824.pdf (this point is refencing Woodward et al (2024) in the defra report - Woodward, H., Oxley, T., Holland, M., Mehlig, D., and ApSimon, H.: Assessing PM2.5 exposure bias towards deprived areas in England using a new indicator. Environmental Advances, 16, 100529, 2024. doi.org/10.1016/j.envadv.2024.100529

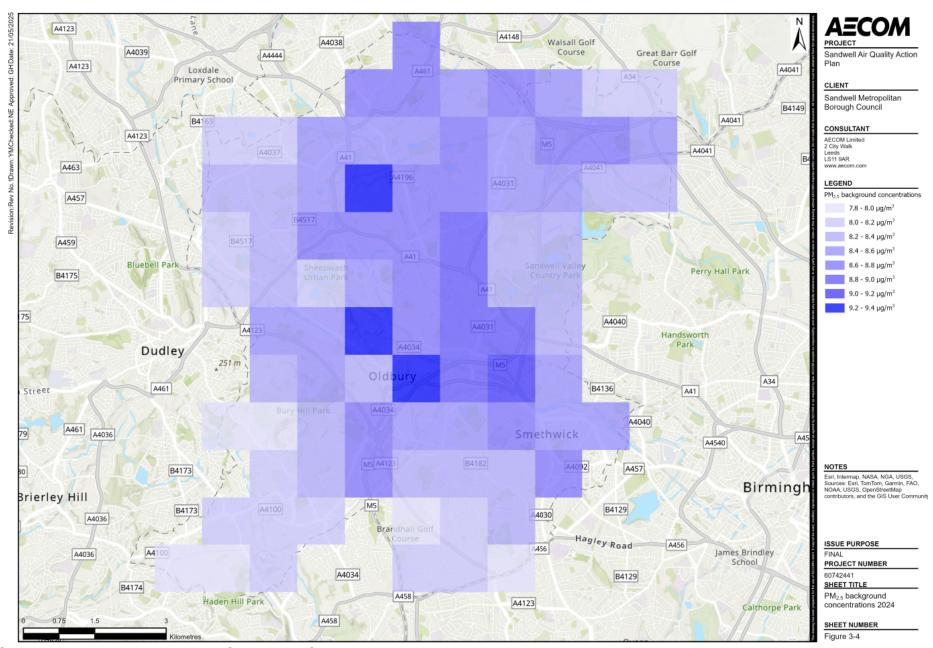


Figure 3-4 – Background PM_{2.5} Concentrations in Sandwell

*The category "Other sources" is the combination of the source sectors: agricultural; energy production; industrial combustion; solvents; natural and point sources.²⁰

Data from the Active Lives Survey and National Travel Survey have been utilised to compile a data set on walking and cycling in England. Data from 2020 to 2023 shows the percentage of the population who walked for over 10 minutes or cycled any length or distance for any reason in different time periods. Figure 3-5 shows the averages across all four years for England, the West Midlands and Sandwell. Across all four time periods considered, the proportion of the population of Sandwell who walked or cycled is 19 - 35% lower than the whole of England, and 9 - 18% lower than the West Midlands.

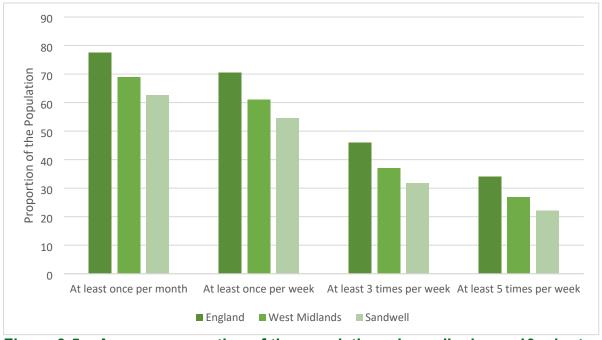


Figure 3-5 – Average proportion of the population who walked over 10 minutes

²⁰ Gray et al 2023 https://pubs.rsc.org/en/content/articlelanding/2023/va/d3va00054k

 $^{^{21} \, \}underline{\text{https://www.gov.uk/government/statistical-data-sets/walking-and-cycling-statistics-cw}} \, \, (\text{from tab CW0307})$

or cycled any length or duration across different time periods, from 2020 – 2023.²²

The 2021 census found that over 50% of all Sandwell residents in employment travel to work by car or van (52.9%).²³ However, these data were taken during the COVID-19 pandemic which may affect uptake of public transport or active travel or the proportion of the population travelling to work compared to working from home. Therefore, these statistics are indicative only.

In 2021, 29.2% of Sandwell households do not have access to a car or van, this is higher than the average for England and Wales of 23.3% in 2021. However, it is lower than the value of 33.9% for Sandwell in the 2011 census, indicating increasing car ownership over time. In West Bromwich Central and Soho & Victoria wards, the car ownership rate falls below 60%.²⁴

3.2 Planning and Policy Context

The air quality action plan exists within a comprehensive network of planning and policy documents on a local, regional, and national scale, which work together to contribute towards improvements in air quality in Sandwell. A list of relevant policy is provided in Table 3-1 below, considering air quality specific policy, planning policy, transport policy (which has a key impact on air quality due to the sector's contribution to emissions), and climate policy (which often has co-benefits for air quality as actions to reduce CO_2 emissions also reduce NO_2 and PM emissions).

Table 3-1 - Summary of Relevant Policy

Topic	Local Policy	Regional Policy	National Policy
Air Quality	Sandwell AQAP (this document)	West Midlands Combined Authority (WMCA) Air Quality Framework and Implementation Plan	Environment Act 2021 Clean Air Strategy (2019) Air Quality Strategy (2023)

²² https://www.gov.uk/government/statistical-data-sets/walking-and-cycling-statistics-cw accessed 31/3/25

²³ https://www.sandwelltrends.info/education-and-economic-activity/ accessed 24/4/25

 $^{^{24}\ \}underline{\text{https://www.sandwelltrends.info/wp-content/uploads/sites/5/2023/04/Sandwell-Census-Profile-2021.pdf}\ accessed\ 24/4/25$

Planning	Emerging Sandwell Local Plan	Black Country Core Strategy (to be superseded by Emerging Sandwell Local Plan) Black Country Air Quality Supplementary Planning Document WMCA Good Practice Air Quality Planning Guidance	National Planning Policy Framework (2025)
Transport	Sandwell Cycling and Walking Infrastructure Plan Sustainable Modes of Travel Strategy for Schools in Sandwell	West Midlands Strategic Transport Plan (to be superseded by Emerging West Midlands Local Transport Plan) Emerging West Midlands Local Transport Plan Black Country Ultra Low Emission Vehicle (ULEV) Programme Black Country Walking and Cycling Strategy and Implementation Plan West Midlands Local Cycling and Walking Infrastructure Plan	Emerging Integrated National Transport Strategy
Climate	Sandwell Climate Change Strategy Sandwell Corporate Climate Change Strategy	West Midlands Net Zero 5 Year Plan	Net Zero Strategy: Build Back Greener (2021)

All policies described in Table 3 1 are described in detail in **Appendix D**. Some items of particular note are:

• The West Midlands Combined Authority Air Quality Framework. Sandwell is a key member of several working groups looking to push forward air quality in the region under this Framework. Sandwell is geographically embedded in the West Midlands, and efforts to improve air quality regionally are naturally expected to contribute to improvements in air quality in Sandwell itself. The Air Quality Framework has been a key resource in identifying actions for this AQAP.

- The Sandwell Local Plan, which is currently in draft. The local plan includes Policy SHW3: Air Quality, which aims to address poor air quality across the borough. A range of measures are described to achieve this aim are included. The Policy requires Air Quality Assessments to be carried out where development is proposed in areas where air quality does not meet objectives, or where significant air quality impacts are likely to be generated from the proposed development; and for all development, holistic measures will be taken to ensure good air quality including the integration of cycling, walking, public transport and electric charging points; promoting modal shift from cars to alternatives, measures related to energy generation, and the provision of green spaces.
- The Local Transport Plan is currently emerging. The Local Transport Plan describes six thematic areas for action: behaviour change; accessible and inclusive places; walk, wheel, cycle and scoot; public transport and shared mobility; a safe efficient, and reliable transport network; and a green transport revolution. Many of these thematic areas are closely associated with air quality improvements, by way of a modal shift from cars to alternatives. The Black Country Area Strategy (a sub-strategy of the LTP) has not yet been published.

3.3 Source Apportionment

The AQAP measures presented in this report are intended to be targeted towards the predominant sources of emissions within Sandwell Council's area.

A source apportionment exercise was carried out by Sandwell Council in 2025.

NO₂ source apportionment was carried out following LAQM.TG(22) guidance at the location with the highest NO₂ concentration in the Borough (monitoring site BP) using traffic count data for the Birmingham Road for 2023 and ANPR fleet analysis data, alongside background pollutant concentration data from Defra.

Additionally, source apportionment was carried out for PM_{10} and $PM_{2.5}$ at the Birmingham Road (Oldbury) continuous monitoring site. This site measured the highest concentrations of PM_{10} and $PM_{2.5}$ in the Borough in 2023.

Full details of the source apportionment exercise and its outcomes are summarised below.

3.3.1 Automatic Number Plate Recognition Analysis

An Automatic Number Plate Recognition (ANPR) survey was undertaken on All Saints Way, Sandwell, in November 2022 to inform an air quality assessment on the impacts of speed limit changes on that road²⁵. These data were cross-referenced with the DVLA database to obtain the fleet breakdown by Euro classification. The Euro classification is based on the vehicle age and reflects compliance with increasingly stringent emissions standards in newer vehicles and is therefore directly related to the emissions produced by the fleet.

For the source apportionment study for this AQAP, this ANPR study has been assumed to be representative of the wider vehicle fleet in Sandwell in 2022. Where the ANPR records did not include counts of specific vehicles, such as taxis, hybrid buses and conventional/hybrid coaches, then the Euro classification for these vehicle types was based on the default data in DEFRA's Emissions Factors Toolkit (EFT) v13²⁶, which is the standard tool for emissions modelling in the UK. EFT v13 also contains a fleet projection tool which was used to project the 2022 ANPR-derived fleet to 2023.

The 2022 ANPR-derived fleet is compared to the default EFT v13 fleet in Figure 3-6 and Figure 3-7 below. It can be seen that that the percentage of Euro 6 cars is lagging behind the national fleet, with only 43.6% of petrol cars being Euro 6 (against a national 56.2%) and only 38.9% of diesel cars (against a national 48.8%). The difference is made up with larger proportions of the more polluting Euro 3, 4, and 5 cars. This is likely to reflect the relatively deprived population within Sandwell, choosing to keep older cars running rather than replacing them with newer models for cost reasons.

Similarly, LGVs and rigid HGVs are noticeable older than the national fleet, with only 56.2% of petrol cars being Euro 6 (against a national 66.8%) and only 65.3% of rigid HGVs (against a national 78.5%). The articulated fleet is more consistent with the

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²⁵ A4031 All Saints Way Vissim Modelling. Available at: https://www.sandwell.gov.uk/downloads/file/2595/all-saints-way-a4031-modelled-impact-of-speed-reduction-on-air-quality

²⁶ https://laqm.defra.gov.uk/air-quality/air-quality-assessment/emissions-factors-toolkit/

national distribution, which may be expected as these tend to operate overall larger distances and on the strategic road network.

The local bus fleet is expected to differ from the national fleet published in the EFT as it will be subject to unique commercial operating constraints. However, when compared to the EFT it is clear the local fleet recorded in the counts is older due to a significantly higher proportion of Euro III and Euro IV classifications.

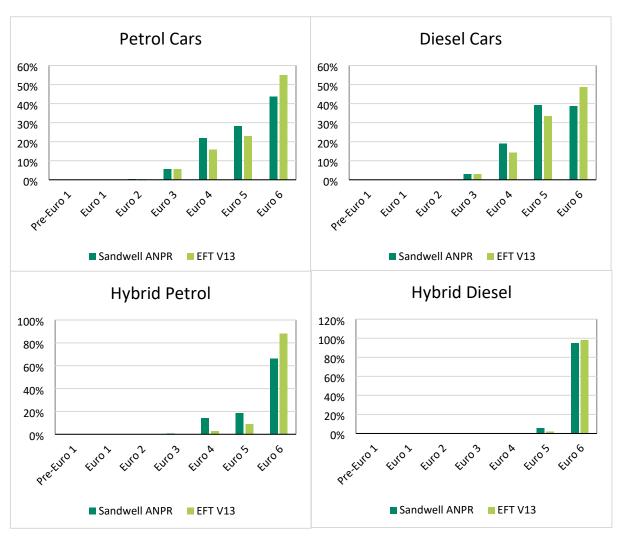


Figure 3-6 - Car Euro Classification, ANPR and EFTv13, 2022

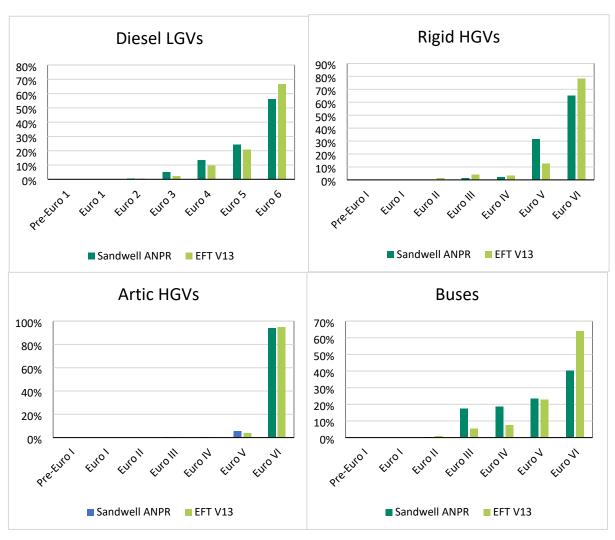


Figure 3-7 – LGV, HGV and Bus Euro Classification, ANPR and EFTv13, 2022

3.3.2 Road Traffic Data

There is a network of VivaCity²⁷ traffic sensors across the West Midlands which provides traffic counts. This network has been interrogated to identify count locations representative of the locations of greatest air quality concern (measuring concentrations of >36 μ g/m³ in 2023) as shown in Table 2-2. Suitable sensor locations have been identified in each case and the vehicle fleet makeup is presented in Table 3-2 below.

²⁷ https://dashboard.vivacitylabs.com/

Table 3-2 – Fleet Composition at Relevant Monitoring Locations

VivaCity Sensor	Road Link	Representative of Monitor	Car %	LGV %	Bus %	HGV %	Motor- bike %
268	Birmingham Road	BP, and Birmingham Road (Oldbury)	80.0	13.9	1.0	4.7	0.4
199	All Saints Way	C1D	85.7	10.0	2.6	1.4	0.3
266	Dudley Road East	C7D	80.4	13.7	1.8	3.7	0.4
267	Dudley Road	C7D	83.3	12.0	1.3	3.0	0.3

The fleet breakdowns are quite similar across all three locations, with 80.0-85.7% cars, 10.0-13.9% LGVs, 1.4-4.7% HGVs, and 1.0-2.6% buses. Source apportionment has been carried out at monitoring site BP (NO₂) and Birmingham Road (Oldbury) (PM₁₀ and PM_{2.5}) using Sensor 268 data as these are the locations of highest concentration. However, a similar source apportionment could be expected at the other locations due to the similarities in fleet profile.

VivaCity point 268 represents the eastbound flow along Birmingham Road. The westbound data was compiled by applying a factor derived from the estimated DfT traffic data for count point 17142. Firstly, a comparison was undertaken between the eastbound DfT traffic count data with the VivaCity data to ensure these were in line with each other. Following this confirmation, factors were calculated for each vehicle type between 2023 eastbound and westbound data, which were applied to the VivaCity data in order to calculate comparable westbound data.

3.3.3 Road Traffic Data Source Apportionment NO₂

Analysis of emissions along Birmingham Road has been undertaken using the EFT v13.0 and local fleet data for 2023 to determine the main vehicle contributions of NO_X . Figure 3-8 shows that total road traffic accounts for 56% (24.8 μ g/m³) of total average NO_2 with diesel cars and LGVs representing the largest proportions, 24%

(10.4 μ g/m³) and 15% (6.4 μ g/m³) of total NO₂ (measured concentration, not adjusted for relevant exposure) respectively. Regional background, pollution transported into an area by the wind from further away, accounts for 21% (9.2 μ g/m³) while local background accounts for 23% (10.0 μ g/m³) of total NO₂.

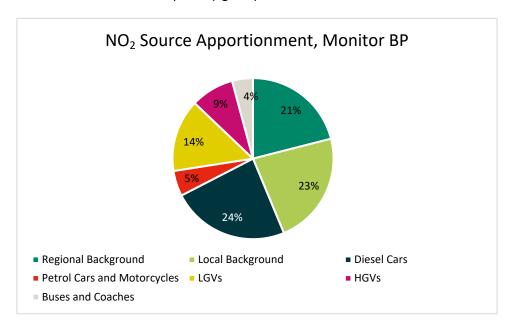


Figure 3-8 – Total NO₂ Source Apportionment at Monitor BP

Based on the Defra background maps, the regional and local background contributions at monitor BP are still predominantly dominated by road emissions (43%), as shown in Figure 3-9.

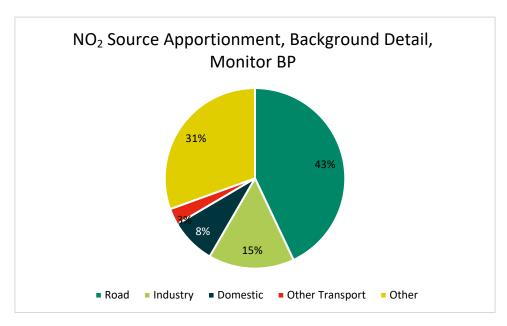


Figure 3-9 – NO₂ Source Apportionment at Monitor BP - Background Contribution Detail

This indicates that actions targeted towards reducing emissions from road vehicles, particularly from diesel cars, are likely to be most effective to reducing NO₂ concentrations in Sandwell.

For PM₁₀ and PM_{2.5}, the source apportionment for the proportions of particulate matter along Birmingham Road attributable to road traffic emissions have been considered separately to the background concentrations, due to the fact that the Defra background maps report higher concentrations than the roadside modelling.

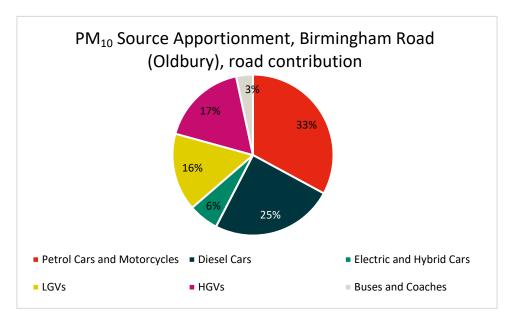
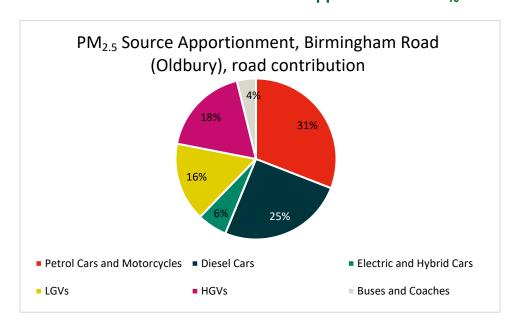


Figure 3-10 Road Traffic Contribution Source Apportionment PM₁₀



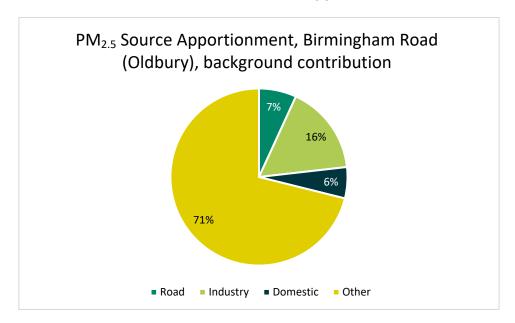


Figure 3-11 Road Traffic Contribution Source Apportionment PM_{2.5}

Figure 3-12 – Background Contribution Source Apportionment PM₁₀

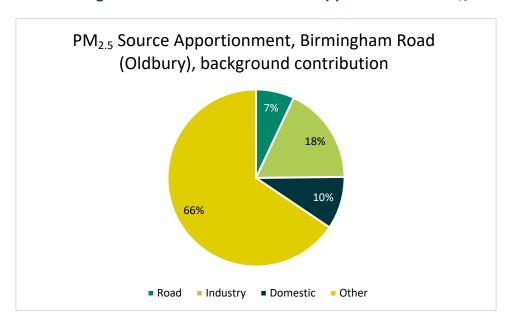


Figure 3-13 – Background Contribution Source Apportionment PM_{2.5}

Figure 3-10 shows the PM_{10} road contribution and Figure 3-13 shows the $PM_{2.5}$ road contribution. Unlike NO_2 , the largest contributors of particulate matter are HGVs with 33% of road PM_{10} and 31% of road $PM_{2.5}$, followed by diesel cars, petrol cars and motorcycles and LGVs. Similarly to the source apportionment for NO_2 , buses and coaches contribute the smallest proportion of particulate matter.

Figure 3-12**Error! Reference source not found.** shows the breakdown of PM₁₀ background contributions along Birmingham Road from Defra background maps and

Figure 3-13**Error! Reference source not found.** shows the same breakdown for PM_{2.5}. Unfortunately, 71% of background PM₁₀ concentrations and 66% of background PM_{2.5} concentrations are categorised as "Other". Of the three defined sources, road traffic contributes only 7% of background PM₁₀ and PM_{2.5} concentrations, this is much lower than the 43% of the NO₂ background concentration. Industry remains approximately constant with NO₂, at 16% of background PM₁₀ 18% of background PM_{2.5} compared to 15% of background NO₂. Domestic also remains comparable with NO₂, with 6% of PM₁₀, 10% of PM_{2.5} and 8% of NO₂.

A 2025 study looked at sources of PM_{2.5} at urban background locations in Birmingham²⁸. The results are shown in Combined Source Apportionment (c) in Figure 3-14 below and given the proximity of Sandwell to Birmingham, it can be assumed the results of this study are broadly applicable across Sandwell.

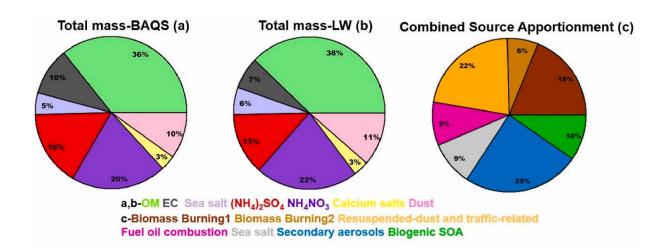


Figure 3-14 – The contribution of different $PM_{2.5}$ components to total mass from the mass closure model (a,b); The average percentage contribution of sources to the total $PM_{2.5}$ mass at both sites from PMF (c)²⁹

These results provide a greater indication of the source apportionment of PM₁₀ and PM_{2.5} than Figure 3-12**Error! Reference source not found.** and Figure 3-13**Error! Reference source not found.** by avoiding the "Other" category. Approximately 25%

²⁸ Srivastava et al (2025). Comparative receptor modelling for the sources of fine particulate matter (PM_{2.5}) at urban sites in the UK

²⁹ Srivastava et al (2025). Comparative receptor modelling for the sources of fine particulate matter (PM_{2.5}) at urban sites in the UK

are attributable to biomass burning from sources such as log burners, garden waste burning, barbecues and biomass boilers, 25% to secondary aerosols as a function of atmospheric chemistry, 22% to resuspended dust and traffic related PM from exhaust emissions or brake and tyre wear, 10% to biogenic secondary organic aerosols and 9% to both sea salt and fuel oil combustion, including industrial processes. This indicates that biomass burning is a key source to target actions to reduce PM, and actions related to transportation taken for NO₂ are likely to have co-benefits for PM also.

3.4 Future Baselining

No required reduction in emissions has been calculated as Sandwell AQMA is currently in compliance with the relevant objectives, and therefore the required reduction is zero. Instead, a future baselining exercise has been undertaken to explore how air quality may change over the lifetime of the AQAP.

Multiple methods have been considered to assess the potential changes in future concentrations at the monitoring site BP, as a representative worst case within the Borough (although noting that this site does not exceed at relevant exposure). Potential future emissions along Birmingham Road have been identified across the duration of the Air Quality Action Plan.

3.4.1 Extrapolating the current rate of change

The change in monitored concentration at BP from 2022 to 2023 was calculated for both the monitoring site and is shown in Table 3-3. This change was applied for subsequent years until 2030 to predict future concentrations if the current rate of change continued. Air quality monitoring is highly variable year-on-year so this method is likely to be overly simplistic.

Table 3-3 – NO_2 Concentrations ($\mu g/m^3$) at BP based on 2022 and 2023 concentrations

Year	2022	2023	2024	2025	2026	2027	2028	2029	2030

At monitoring	44.5	44.0	43.5	43.0	42.5	42.0	41.5	41.0	40.5
site	µg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³	μg/m³
	Measured		Projected						

3.4.2 Applying Defra Roadside NO₂ Projection Factors

Table 3-4 shows annual mean NO_2 concentrations at monitoring site BP based on Roadside NO_2 Projection Factors³⁰ shown in Table 3-5 which were applied to the 2023 concentration at the monitoring site. The "Rest of UK (HDV =< 10%)" factors were used as the traffic data showed buses and HGVs comprised 5.7% of the fleet along Birmingham Road. Using Defra's roadside projection factors for NO_2 , a faster rate of improvement was expected than extrapolating the current rate of change.

Table 3-4 – NO_2 Concentrations ($\mu g/m^3$) at BP based on Roadside NO_2 Projection Factors

Year	2023	2024	2025	2026	2027	2028	2029	2030
At monitoring site	44.0 µg/m³	41.5 μg/m³	39.0 μg/m³	36.8 μg/m³	34.5 μg/m³	32.1 μg/m³	29.8 μg/m³	27.1 μg/m³
	Measured			I	Projected	d		

Table 3-5 – Defra Roadside NO₂ Projection Factors

Year	Factor
2024	0.942184154
2025	0.886509636
2026	0.837259101
2027	0.784796574
2028	0.730192719
2029	0.676659529
2030	0.615631692

³⁰ https://laqm.defra.gov.uk/air-quality/air-quality-assessment/roadside-no2-projection-factors/ accessed 22/04/2025

3.4.3 Using TEMPro and the Emissions Factor Toolkit

TEMPro (Trip End Model Presentation Program) is software supplied by the Department for Transport which is used to view the NTEM (National Trip End Model) dataset which provides forecasts of growth in vehicle journeys. The Model data can be downloaded for a range of geographical scales from the whole country down to individual LSOAs, for 2011 to 2051 and multiple vehicle types. For this assessment, v8.0 core scenario data for Sandwell from 2023 to 2030 for car journeys on A Roads were used to calculate Adjusted Local Growth Factors for each future year based on a base year of 2023. The Local Growth Factors are shown in Table 3-6 alongside the two-direction traffic flow following the application of the relevant factor. A limitation of this methodology is that the TEMPro Growth Factors are only based on car journeys however these factors have been applied to the total traffic flow. It's noted that these factors do not consider the effects of any specific future schemes. A list of CRSTS funded schemes in Sandwell that may affect air quality are provided in Appendix C.

Table 3-6 – Local Traffic Growth Factors from TEMPro

Year	Local Growth Factor	Two direction traffic flow on Birmingham Road
2023	-	26227
2024	1.00542501	26369
2025	1.01084071	26511
2026	1.02152991	26791
2027	1.03192434	27064
2028	1.04227268	27335
2029	1.05267433	27608

³¹ https://www.gov.uk/government/publications/tempro-downloads accessed 15/4/25

The Emissions Factors Toolkit v13.0 (EFT) was run for each year between 2024 and 2030 for two scenarios. Firstly, a "default fleet turnover" using the updated traffic data with bespoke euro fleet and fleet data from the ANPR study projected to the relevant year, representing national expectations of fleet turnover (the removal of older vehicles and replacement with newer vehicles, including electric vehicles). Secondly, a "no fleet turnover" scenario was run using the updated traffic data from Table 3-6 with a 2023 baseline. These two sets of results are presented in Table 3-7 and shown in Figure 3-15 along with a "slow fleet turnover" scenario which represents a mid-point between the two other scenarios.

Table 3-7 – NO_X Emissions for three Scenarios

	NO _X emissions from EFT						
Year	Default fleet turnover	Slow fleet turnover	No fleet turnover				
2023		0.08191					
2024	0.07420	0.07826	0.08235				
2025	0.06693	0.07486	0.08279				
2026	0.06032	0.07199	0.08367				
2027	0.05427	0.069340	0.08452				
2028	0.04843	0.06690	0.08537				
2029	0.04306	0.06464	0.08622				
2030	0.03795	0.06251	0.08707				

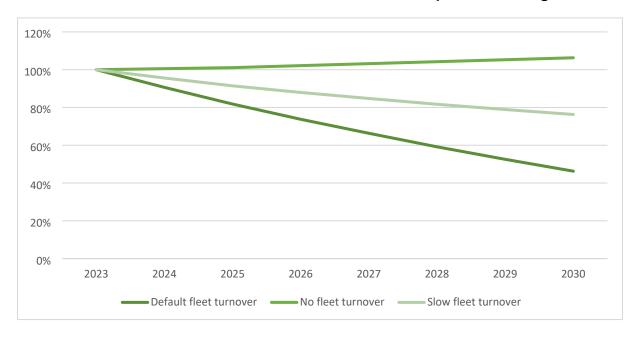


Figure 3-15 – Percentage of emissions with different rates of fleet turnover

Table 3-7 and Figure 3-15 show that with no fleet turnover, the emissions are predicted to increase by approximately 5% from 2023 to 2030 due to increased traffic flows, as shown in Table 3-6. The other two scenarios show reductions in emissions from 2023, for the default fleet turnover, the emissions could reduce by over 50% by 2030. The slow fleet turnover scenario shows reductions in emissions of just over 20% between 2023 and 2030, this scenario may be more representative of expected fleet turnover in Sandwell as the ANPR data in Section 3.3.1 indicates that the fleet is currently lagging behind the national fleet, so it is a reasonable assumption that the same factors causing this will also cause a slower fleet turnover than expected nationally.

A School Street is a road outside a school with

suitable locations (not all schools may be viable

candidates) and in the most beneficial way, for

example, by identifying opportunities to engage

with parents, staff, and other stakeholders to

increase access to walking and cycling.

3.5 Key Priorities

Priority areas for the lifetime of this AQAP are shown below. **Table 5-2 – Detailed Descriptions of all Short-Listed Air Quality Action Plan Measures**

School Streets Children a temporary restriction on motorised traffic at school drop-off and pick-up times. The restriction applies to school traffic and through traffic. A School Streets trial was held at Ferndale Primary School and now there is an existing funding allocation for implementation and enforcement of further School Streets. Additionally, the Council have recently acquired powers to enforce some moving traffic contraventions, meaning this could be enforced by a portable camera and would not rely on school staff using barriers. This temporary restriction will specifically benefit children at the school by reducing overall traffic and idling near schools and disrupt overall journeys to incentivise non-car use for school journeys, while also making roads safer in these specific locations. Early engagement with Highways to ensure School Streets are implemented in

2	Speed	Fleet	Reducing speed limits in key locations. An air
	restrictions	Technology	quality assessment for All Saints Way, West
		and	Bromwich, indicates possible benefits to local
		Behaviour	air quality through decreased acceleration in
			stop-start conditions, but this may not be
			suitable in all locations (for example where
			more constant speeds are observed). Speed
			reductions are planned for other roads in
			Sandwell in the short term, including on the
			A457 Birmingham Road (from 40 mph to 30
			mph), which is a key location for air quality. In
			this location acceleration out of a junction is
			likely to contribute to high concentrations
			meaning that reducing the speed limit here may
			benefit air quality. Other speed reductions are
			planned on the A456 Hagley Road West,
			A4041 Queslett Road, Londonderry Road and
			Londonderry Lane, and a road safety budget is
			allocated for the introduction of further 20 mph
			zones in the medium term, although the areas
			that will be affected have not yet been
			identified. The outcomes include co-benefits in
			terms of road safety (reduced road casualties),
			encouraging active travel and for the climate.
3	Active travel	- Active	Increasing active travel uptake can best be
	planning	Travel	achieved through Sandwell Council's
			commitment to maintaining a dedicated Active
			Travel Officer who is responsible for engaging
			with schools and businesses to develop
			sustainable commuting strategies, with

progress being recorded and recognised through the Modeshift STARS platform. To achieve improvements associated with active travel and lower pollution levels, workplace and school travel plans must be prioritised as they promote walking, cycling and public transport as viable alternatives to car use. This aligns with the National Planning Policy Framework, Local Cycling and Walking Infrastructure Plans and Sandwell Council's transport and environmental strategies. In line with our priority to protect children's health, and to maximise benefits of the School Streets Initiative, it is hoped that 75% of schools will have an Active Travel Plan, recognised and accredited by Modeshift STARS, in place by 2030. Produce Planning A new Local Plan for Sandwell has been updated drafted and is anticipated to be adopted in late 2025/early 2026. The emerging local plan guidance for air quality to contains an air quality policy (SHW3) that support the support a diverse approach to addressing the new Local Planl issue of poor air quality which refers to supporting documentation (including primarily the 2016 Black Country Air Quality Supplementary Planning Document (SPD)) in terms of technical aspects, such as the nature of air quality assessment required. This document is now 9 years old and does not reflect more recent national policy and guidance, and local ambition. The expected

revocation of the AQMA in 2027 risks air quality losing some of its visibility within the planning process. Therefore, it is considered that an update to this document to better support the new local plan and the current position is required. However, it is understood that SPDs are likely to be abolished pursuant to the Levelling Up & Regeneration Act 2023 and it is not yet clear what alternative documentation could take its place in this instance. The situation is set out in the local plan as follows:

"The approach to air quality set out in the joint document will need to be revisited, considering new national legislation, regulations and targets, and regional and sub-regional developments regarding air quality, and in light of the abolition of supplementary planning guidance and documents."

Therefore, this action is proposed to identify how best to support the aims of the local plan with respect to air quality, and the details of implementation are not yet known but will be reporting on in subsequent ASRs. In addition, the WMCA is at an early stage of considering developing air quality guidance for planning and this is expected to be a positive avenue to influence planning policy into the future.

Promotion of walking and cycling via awareness campaigns with schools, businesses and communities, showcasing new

Active travel Active promotion Travel

			and existing cycle paths and walkways,
			production of local maps and advice on how
			residents can use green space for active travel
			and canal paths to reduce pollution exposure.
			This is likely to only be a small direct benefit but
			is an essential enabling measure to
			complement other measures. This measure is
			likely to include an annual awareness campaign
			and will also benefit from the continued
			employment of an Active Travel Officer as
			detailed in Measure 3.
6	Auntie Duck	Children	Implementation and regional expansion of the
			Auntie Duck educational engagement
			programme. Auntie Duck already has a lot of
			support (including from the WMCA) and
			Sandwell is a leader in this area of education.
			This is unlikely to achieve a significant, direct
			air quality impact, however it is a significant
			public engagement tool with a good response
			from the existing investment. It is hoped that
			rollout to all primary schools within Sandwell is
			achieved by 2030.
7	Accredited	Children	Contribute to the West Midlands Combined
	education		Authority PH4 measure of introducing an
	scheme for		accredited education scheme for all schools.
	schools		Sandwell is well placed to lead on delivery of
			this as it complements the existing Auntie Duck
			programme. However, there is uncertainty
	•	_	

			regarding tangible direct impacts to emissions and air quality.
8	Smoke control	PM	Pro-active implementation of the Smoke Control Order via engagement with relevant businesses and residents. This is implementation of an existing Council service. This is likely to primary affect particulate matter pollution, much less so for NO ₂ . Enforcement actions will be reported on annually (e.g. number of warning letters issued, financial penalties issued, and penalty payments received).
	Planning application support and review	Planning	Air quality specialists to provide pre-application advice and to review planning applications once submitted to ensure that the relevant national and local plan policies are adhered to. Sandwell have a team in place to continue to facilitate this. Implementation will continue both before and after the adoption of the new local plan and any supporting guidance produced as part of Measure 4.
10	Targeted public engagement	Engagemen	tWorking with existing public health channels and healthcare professionals to deliver consistent, targeted messaging to vulnerable residents. This complements wider health and education messaging, and particularly engagement with the NHS.

1	1	Investment in	Active	Working towards construction of new high
		new cycle	Travel	quality cycle tracks and other cycle
		infrastructure		infrastructure in accordance with West
				Midlands cycle network planning, including links
				between key developments and key services to
				promote mode shift from car. This will
				contribute to modal shift and may also increase
				the distance between receptors and emissions
				to reduce exposure. For example, an
				optioneering study is underway for
				implementing a cycle lane and associated road
				layout changes between Oldbury to Galton
				Bridge Station (Cycle Route 6 from the plan).
1	2	Solid fuel	PM	To raise awareness among businesses,
		burning		residents and landlords of specific air quality
				issues and potential solutions associated with
				the use of log burners and indoor and outdoor
				burning. This will sit alongside the smoke
				control area work but with a wider remit, e.g.
				including outdoor burning (bonfires). This is
				likely to primary affect particulate matter
				pollution, much less so for NO_2 . It is understood
				that a motion to ban bonfires is to be put before
				cabinet which will influence the development of
				this measure if adopted.
1	3	Partnership	Regional	Open route for communication and co-
		with WMCA on		ordination between communication teams at
		l implementation		the West Midlands Combined Authority and
		of the West		local authorities to effectively co-ordinate and
		•	-	

	Midlands Air		deliver air quality communications including via
	Quality		their centralised regional air quality website.
	Framework		Sandwell is a part of the wider Black Country
			and WMCA region, which is recognised by the
			WMCA Air Quality Planning Guidance Task and
			Finish Group. This primarily enables wider co-
			operation and benefits rather than being a
			stand-alone action. It is important to recognise
			that transboundary pollutants and cross-border
			travel contribute to air quality across the whole
			region and cannot be managed independently
			at a strategic level therefore co-operation and
			co-ordination of actions, measures and
			adoption/development of policy and guidance
			will achieve much greater benefit.
14	Local	Regional	Oversight and stakeholder engagement by
	Transport Plan		Pollution Control Team could ensure co-
			benefits to air quality are realised. Opportunity
			to understand how traffic growth and mode shift
			are being implemented at a strategic level to
			ensure consistency with the AQAP.
15	Work with	Engagemen	tBuilding on successful work carried out with
	trusted		faith groups in Sandwell. It's the role of early
	community		engagement to build reassurance and trust
	advisors to		within the wider community and encourage
	deliver AQ		individual awareness and responsibility to
	messaging		support community ownership of proposed
			measures which may be perceived as
			restrictions, e.g. school streets, whilst also
			ensuring that valid concerns and risks are

			properly recognised and adopted at early design stages.
16	CIL / S106	Planning	Use of damage cost contributions via the Community Infrastructure Levy or Section 106 funding to effectively improve the environment, air quality and green infrastructure around new schemes. A system exists to reclaim damage costs but it may be difficult to spend the funds so its important to develop a clear strategy.
17	Industrial permitting	Industry	Pro-actively engaging with permit holders to ensure compliance with terms of their permits for part A2/B permits. Sandwell Council have a team in place to facilitate this.
18	A1 permitting	Industry	Increase co-working with the Environment Agency to enforce A1 permits. Sandwell Council have a team in place to facilitate this.
19	Council zero- emission fleet	Fleet Technology and Behaviour	Continuing upgrade of the Sandwell Council vehicle fleet to zero or low-emission vehicles. Costs are unlikely to be significantly greater than organic fleet turnover, in line with central government mandate for the end of sales of ICE. The air quality impact will be small as council vehicles make up only a small part of the fleet but is an important demonstration of leading by example.
20	Health partnership	Engagemen	tPartnership working with NHS health professionals including school nurses and asthma specialists. This partnership is already

in place although the exact nature of the partnership may evolve and therefore the scope is yet to be defined. Benefits are likely to be primarily to public health rather than air quality unless there is a behaviour change element. 21 Maintenance EngagementThe website already exists and is increasingly of the existing used as a primary source of information for Air Quality residents to engage with the local authority and council website is already used as a repository for mandated air to provide quality reporting. It is important to consider how information on this existing resource can be leveraged to host air quality additional information and support measures matters adopted in the AQAP. The website has a negligible direct impact on air quality as it only provides information.

Table 5-3 provides details of all measures proposed to achieve these priorities.

- Priority 1 To achieve five continuous years of compliance with the NO₂
 annual mean objective within the AQMA to enable revocation.
- Priority 2 To protect the health of young people within the Borough by measures targeted to schools in line with Sandwell's goal to be a UNICEF Child Friendly Borough.
- Priority 3 To drive forward behaviour change with respect to travel choices, particularly focused on the adoption of active travel in the context of the low baseline.
- Priority 4 To collaborate with the West Midlands Combined Authority and others to achieve regional air quality goals.
- Priority 5 Pro-actively raise awareness of and enforce the smoke control area among residents and relevant businesses to reduce PM emissions from biomass burning.
- Priority 6 Pro-actively work with permitted installations on best practice.
- Priority 7 Ensure that air quality considerations are taken into account with new developments through the planning process.

4 Development and Implementation of Sandwell Council AQAP

4.1 Consultation and Stakeholder Engagement

In developing/updating this AQAP, we have worked with other local authorities, agencies, businesses and the local community to improve local air quality. Schedule 11 of the Environment Act 1995, as amended by the Environment Act (2021), requires local authorities to consult the bodies listed in Table 4-1. <insert text here, e.g. In addition, we have undertaken the following stakeholder engagement:

- Website
- Articles in local newspaper
- Questionnaires distributed directly to households along major roads
- Etc.>

The response to our consultation stakeholder engagement is given in Appendix A: Response to Consultation.

Table 4-1 - Consultation Undertaken

Consultee	Consultation Undertaken
The Secretary of State	<yes no=""></yes>
The Environment Agency	<yes no=""></yes>
National Highways	<yes no=""></yes>
All neighbouring local authorities	<yes no=""></yes>
Any National Park authority as appropriate	<yes no=""></yes>
The County Councils (if a District Council)	<yes no=""></yes>

Consultee	Consultation Undertaken
Other public authorities as appropriate, such as Public Health officials	<yes no=""></yes>
Bodies representing local business interests and other organisations as appropriate	<yes no=""></yes>

4.2 Steering Group

A Steering Group was established in February 2025 for the development of the AQAP and the first meeting took place on 27th February 2025. The aim of the group was to understand local issues relating to air pollution that affected Sandwell as well as the current focuses of Sandwell Council.

The steering group is comprised mainly of Sandwell Council officers from Environmental Health, Planning, Public Health, Energy, Pollution Control, as well as external members from West Midlands Combined Authority, Transport for West Midlands, Black Country Transport, National Highways, Living Streets, British Cycling, the NHS and AECOM as external consultants.

A further steering group meeting took place on 8th April 2025 where a full understanding of the baseline was presented and a long list of potential actions was discussed. The final steering group meeting in the development of this AQAP was held on 2nd June where the short list of measures was discussed.

The minutes of the steering group meetings are presented in Appendix E.

It was agreed to hold steering group meetings every six months over the course of the implementation of the AQAP to report on progress and to continue to drive for the delivery of actions to improve air quality.

5 AQAP Measures

Table 5-3, later in this section, summarises the Sandwell Council AQAP measures. It contains:

- A list of the actions that form part of the plan;
- The departments/organisations responsible for delivering this action;
- Estimated cost of implementing each action;
- Expected benefit in terms of pollutant emission and/or concentration reduction;
- The timescale for implementation; and
- How progress will be monitored.

NB: Please see future Annual Status Reports (ASRs) for regular annual updates on implementation of these measures.

Further information on the cost-benefit analysis of these measures and greater detail of the measures is provided in Section 5.1 and 5.2 respectively.

5.1 Long List and Cost Benefit Analysis

A long list of potential measures was drawn up based upon the key priorities, previous work undertaken by the Council, the priorities of Steering Group members, and a consideration of the relevant aspects of the West Midlands Combined Authority Air Quality Framework.

A cost benefit analysis was carried out for a long-list of actions as part of the process for defining a short-list. Four aspects were considered in this analysis:

- The feasibility of carrying out the action, i.e. is there likely to be public or internal support, is there an available funding source;
- The air quality impact of the action, i.e. how large of an impact could this
 measure have on concentrations of pollutants on a local and/or regional level.
 This is based on professional judgement and a review of available literature
 where possible;
- Any co-benefits arising from this action, i.e. are there also benefits for public health, active travel, climate, the economy, or society more widely; and

High level assessment of the cost of this action.

Each aspect was rated from 1 to 3, where 1 is low and 3 is high and then the following equation was applied to calculate a total score for each measure:

Score = (feasibility + (2 * air quality impact) + co-benefits) * cost

The air quality impact of the action was double rated compared to feasibility and cobenefits as this is the primary focus of the AQAP.

For the scoring of the cost, the following categories were used: less than £10,000, between £10,000 and £100,000, and greater than £100,000.

Alongside the score for each measure, professional judgement was applied in order to finalise a short list as the scores do not always capture the whole picture. For example, measures involving promotion of active travel or public engagement scored poorly for the air quality impact, however public engagement and support is vital for the success of other measures.

The long list measures, their scores, and their shortlisting outcome are presented in Table 5-1. Detailed information on the shortlisted measures is provided in Section 5.2 and further information on the measures not taken forward and the reasoning for that are provided in Appendix B.

Table 5-1 - Shortlisting Exercise

Number	Measure	Feasibility	AQ impact	Co benefit	Score	Cost	Cost Score	Shortlisted
1	School Streets	3	3	3	12	2	24	Y
2	Speed restrictions	2	3	3	11	1	11	Υ
3	Active travel planning	3	2	3	10	2	20	Y
4	Update planning guidance for air quality	2	3	2	10	2	20	Y

Number	Measure	Feasibility	AQ impact	Co benefit	Score	Cost	Cost Score	Shortlisted
5	Active travel promotion	3	2	3	10	2	20	Y
-	Cycling and Walking Infrastructure Plan	3	2	3	10	2	20	N
-	Low Traffic Neighbourhoods	1	3	3	10	1	10	N
6	Auntie Duck	3	2	2	9	2	18	Υ
7	Accredited education scheme for schools	3	2	2	9	2	18	Y
8	Smoke control	3	2	2	9	2	18	Υ
9	Planning application support and review	3	2	2	9	2	18	Y
10	Targeted public engagement	3	2	2	9	2	18	Υ
11	Investment in new cycle infrastructure	2	2	3	9	1	9	Υ
12	Solid fuel burning	2	2	2	8	2	16	Y
13	Partnership with WMCA	3	2	1	8	2	16	Υ
14	Local Transport Plan	2	2	2	8	2	16	Υ

Number	Measure	Feasibility	AQ impact	Co benefit	Score	Cost	Cost Score	Shortlisted
15	Work with trusted community advisors to deliver AQ messaging	3	2	1	8	2	16	Υ
16	CIL / S106	2	2	2	8	2	16	Υ
17	Industrial permitting	3	2	1	8	2	16	Y
18	A1 permitting	3	2	1	8	2	16	Υ
19	Council zero-emission fleet	2	2	2	8	2	16	Y
-	Clean Air Zone	1	3	1	8	1	8	N
20	Health partnership	3	1	2	7	2	14	Y
-	Bus Lane Enforcement	3	1	2	7	2	14	N
-	Taxi / licensed vehicle policy	1	2	2	7	2	14	N
-	Home energy efficiency	2	1	3	7	1	7	N
21	Maintenance of Air Quality council website	3	1	1	6	3	18	Υ
-	Green infrastructure	1	1	2	5	2	10	N

5.2 Short-list of measures

Detailed commentary of all short-listed measures are included in Table 5-2 below. Three measures have been identified as the 'top three' air quality actions due to their highest potential for impact as identified by the shortlisting procedure, and these actions are prioritised for further detailed information in Sections 5.3 and 6. All actions are presented in order of descending score (before cost considerations) from shortlisting. Additionally, the actions are assigned themes which correspond to the key priorities identified above, in Section 3.5.

Table 5-2 – Detailed Descriptions of all Short-Listed Air Quality Action Plan Measures

Measure No.	Measure Name	Theme	Description
1	School Streets	Children	A School Street is a road outside a school with a temporary restriction on motorised traffic at school drop-off and pick-up times. The restriction applies to school traffic and through traffic. A School Streets trial was held at Ferndale Primary School and now there is an existing funding allocation for implementation and enforcement of further School Streets. Additionally, the Council have recently acquired powers to enforce some moving traffic contraventions, meaning this could be enforced by a portable camera and would not rely on school staff using barriers. This temporary restriction will specifically benefit children at the school by reducing overall traffic and idling near schools and disrupt overall journeys to incentivise non-car use for school journeys, while also making roads safer in these specific locations. Early engagement with Highways to ensure School Streets are implemented in suitable locations (not all schools may be viable candidates) and in the most beneficial way, for example, by identifying opportunities to engage with parents, staff, and other stakeholders to increase access to walking and cycling.
2	Speed restrictions	Fleet Technology and Behaviour	Reducing speed limits in key locations. An air quality assessment for All Saints Way, West Bromwich, indicates possible benefits to local air quality through decreased acceleration in stop-start conditions, but this may not be suitable in all locations (for example where more constant speeds are observed). Speed reductions are planned for other roads in Sandwell in the short term, including on the A457 Birmingham Road (from 40 mph to 30 mph), which is a key location for air quality. In this location acceleration out of a junction is likely to contribute to high concentrations meaning that reducing the speed limit here may benefit air quality. Other speed reductions are planned on the A456 Hagley Road West, A4041 Queslett Road, Londonderry Road and Londonderry Lane, and a road safety budget is allocated for the introduction of further 20 mph zones in the medium term, although the areas that will be affected have not yet been identified. The outcomes include co-benefits in terms of road safety (reduced road casualties), encouraging active travel and for the climate.
3	Active travel planning	Active Travel	Increasing active travel uptake can best be achieved through Sandwell Council's commitment to maintaining a dedicated Active Travel Officer who is responsible for engaging with schools and businesses to develop sustainable commuting strategies, with progress being recorded and recognised through the Modeshift STARS platform. To achieve improvements associated with active travel and lower pollution levels, workplace and school travel plans must be prioritised as they promote walking, cycling and public transport as viable alternatives to car use. This aligns with the National Planning Policy Framework, Local Cycling and Walking Infrastructure Plans and Sandwell Council's transport and environmental strategies. In line with our priority to protect children's health, and to maximise benefits of the School Streets Initiative, it is hoped that 75% of schools will have an Active Travel Plan, recognised and accredited by Modeshift STARS, in place by 2030.
4	Produce updated guidance for air	Planning	A new Local Plan for Sandwell has been drafted and is anticipated to be adopted in late 2025/early 2026. The emerging local plan contains an air quality policy (SHW3) that support a diverse approach to addressing the issue of poor air quality which refers to supporting documentation (including primarily the 2016 Black Country Air Quality Supplementary Planning Document (SPD)) in terms of technical aspects, such as the nature of air

Measure No.	Measure Name	Theme	Description
	quality to support the new Local Plan		quality assessment required. This document is now 9 years old and does not reflect more recent national policy and guidance, and local ambition. The expected revocation of the AQMA in 2027 risks air quality losing some of its visibility within the planning process. Therefore, it is considered that an update to this document to better support the new local plan and the current position is required. However, it is understood that SPDs are likely to be abolished pursuant to the Levelling Up & Regeneration Act 2023 and it is not yet clear what alternative documentation could take its place in this instance. The situation is set out in the local plan as follows:
			"The approach to air quality set out in the joint document will need to be revisited, considering new national legislation, regulations and targets, and regional and sub-regional developments regarding air quality, and in light of the abolition of supplementary planning guidance and documents." Therefore, this action is proposed to identify how best to support the aims of the local plan with respect to air quality, and the details of implementation are not yet known but will be reporting on in subsequent ASRs. In addition, the WMCA is at an early stage of considering developing air quality guidance for planning and this is expected to be a positive avenue to influence planning policy into the future.
5	Active travel promotion	Active Travel	Promotion of walking and cycling via awareness campaigns with schools, businesses and communities, showcasing new and existing cycle paths and walkways, production of local maps and advice on how residents can use green space for active travel and canal paths to reduce pollution exposure. This is likely to only be a small direct benefit but is an essential enabling measure to complement other measures. This measure is likely to include an annual awareness campaign and will also benefit from the continued employment of an Active Travel Officer as detailed in Measure 3.
6	Auntie Duck	Children	Implementation and regional expansion of the Auntie Duck educational engagement programme. Auntie Duck already has a lot of support (including from the WMCA) and Sandwell is a leader in this area of education. This is unlikely to achieve a significant, direct air quality impact, however it is a significant public engagement tool with a good response from the existing investment. It is hoped that rollout to all primary schools within Sandwell is achieved by 2030.
7	Accredited education scheme for schools	Children	Contribute to the West Midlands Combined Authority PH4 measure of introducing an accredited education scheme for all schools. Sandwell is well placed to lead on delivery of this as it complements the existing Auntie Duck programme. However, there is uncertainty regarding tangible direct impacts to emissions and air quality.
8	Smoke control	PM	Pro-active implementation of the Smoke Control Order via engagement with relevant businesses and residents. This is implementation of an existing Council service. This is likely to primary affect particulate matter pollution, much less so for NO ₂ . Enforcement actions will be reported on annually (e.g. number of warning letters issued, financial penalties issued, and penalty payments received).

Measure No.	Measure Name	Theme	Description
9	Planning application support and review	Planning	Air quality specialists to provide pre-application advice and to review planning applications once submitted to ensure that the relevant national and local plan policies are adhered to. Sandwell have a team in place to continue to facilitate this. Implementation will continue both before and after the adoption of the new local plan and any supporting guidance produced as part of Measure 4.
10	Targeted public engagement	Engagement	Working with existing public health channels and healthcare professionals to deliver consistent, targeted messaging to vulnerable residents. This complements wider health and education messaging, and particularly engagement with the NHS.
11	Investment in new cycle infrastructure	Active Travel	Working towards construction of new high quality cycle tracks and other cycle infrastructure in accordance with West Midlands cycle network planning, including links between key developments and key services to promote mode shift from car. This will contribute to modal shift and may also increase the distance between receptors and emissions to reduce exposure. For example, an optioneering study is underway for implementing a cycle lane and associated road layout changes between Oldbury to Galton Bridge Station (Cycle Route 6 from the plan).
12	Solid fuel burning	PM	To raise awareness among businesses, residents and landlords of specific air quality issues and potential solutions associated with the use of log burners and indoor and outdoor burning. This will sit alongside the smoke control area work but with a wider remit, e.g. including outdoor burning (bonfires). This is likely to primary affect particulate matter pollution, much less so for NO ₂ . It is understood that a motion to ban bonfires is to be put before cabinet which will influence the development of this measure if adopted.
13	Partnership with WMCA on implementation of the West Midlands Air Quality Framework	Regional	Open route for communication and co-ordination between communication teams at the West Midlands Combined Authority and local authorities to effectively co-ordinate and deliver air quality communications including via their centralised regional air quality website. Sandwell is a part of the wider Black Country and WMCA region, which is recognised by the WMCA Air Quality Planning Guidance Task and Finish Group. This primarily enables wider co-operation and benefits rather than being a stand-alone action. It is important to recognise that transboundary pollutants and cross-border travel contribute to air quality across the whole region and cannot be managed independently at a strategic level therefore co-operation and co-ordination of actions, measures and adoption/development of policy and guidance will achieve much greater benefit.
14	Local Transport Plan	Regional	Oversight and stakeholder engagement by Pollution Control Team could ensure co-benefits to air quality are realised. Opportunity to understand how traffic growth and mode shift are being implemented at a strategic level to ensure consistency with the AQAP.
15	Work with trusted community advisors to deliver AQ messaging	Engagement	Building on successful work carried out with faith groups in Sandwell. It's the role of early engagement to build reassurance and trust within the wider community and encourage individual awareness and responsibility to support community ownership of proposed measures which may be perceived as restrictions, e.g. school streets, whilst also ensuring that valid concerns and risks are properly recognised and adopted at early design stages.

Measure No.	Measure Name	Theme	Description
16	CIL / S106	Planning	Use of damage cost contributions via the Community Infrastructure Levy or Section 106 funding to effectively improve the environment, air quality and green infrastructure around new schemes. A system exists to reclaim damage costs but it may be difficult to spend the funds so its important to develop a clear strategy.
17	Industrial permitting	Industry	Pro-actively engaging with permit holders to ensure compliance with terms of their permits for part A2/B permits. Sandwell Council have a team in place to facilitate this.
18	A1 permitting	Industry	Increase co-working with the Environment Agency to enforce A1 permits. Sandwell Council have a team in place to facilitate this.
19	Council zero- emission fleet	Fleet Technology and Behaviour	Continuing upgrade of the Sandwell Council vehicle fleet to zero or low-emission vehicles. Costs are unlikely to be significantly greater than organic fleet turnover, in line with central government mandate for the end of sales of ICE. The air quality impact will be small as council vehicles make up only a small part of the fleet but is an important demonstration of leading by example.
20	Health partnership	Engagement	Partnership working with NHS health professionals including school nurses and asthma specialists. This partnership is already in place although the exact nature of the partnership may evolve and therefore the scope is yet to be defined. Benefits are likely to be primarily to public health rather than air quality unless there is a behaviour change element.
21	Maintenance of the existing Air Quality council website to provide information on air quality matters	Engagement	The website already exists and is increasingly used as a primary source of information for residents to engage with the local authority and is already used as a repository for mandated air quality reporting. It is important to consider how this existing resource can be leveraged to host additional information and support measures adopted in the AQAP. The website has a negligible direct impact on air quality as it only provides information.

Table 5-3 – Air Quality Action Plan Measures

Measure No.	Measure	Category	Classification	Estimated Year Measure to be Introduced	Estimated / Actual Completio n Date	Organisations Involved	Funding Source	Defra AQ Grant Funding	Funding Status	Estimated Cost of Measure	Measure Status	Target Reduction in Pollutant / Emission from Measure	Key Performance Indicator	Progress to Date	Comments/Potenti al Barriers to Implementation
1	School Streets	Traffic Management	Other	2026	2030	Sandwell Highways Team	DfT, Sandwell Council	No	Partially Funded	TBC	Planning	Daily average NO2 by up to 0.4 µg/m3 at key locations where scheme is implemented, & 18% reduction in car trips for school travel	Measured concentration of NO2, & reduced trips by car	A trial was carried out at Ferndale Primary School.	Locations must be chosen to ensure feasible implementation route, to avoid unintended consequences, and to ensure stakeholder engagement (e.g. parents)
2	Speed restrictio ns	Traffic Management	UTC, Congestion management, traffic reduction	2025	2030	Sandwell Highways Team	Sandwell Council	No	Fully Funded	TBC	Planning	Speed management may reduce annual mean NO2 between 0.1 - 1.6 µg/m³	Reduced roadside annual mean NO2	-	Road safety is the key driver but ideally locations should be appraised to identify the air quality impacts
3	Council active travel planning officer	Promoting Travel Alternatives	School Travel Plans	2025	2030	Sandwell Pollution Control Team	Sandwell Council	No	Partially Funded	TBC	Implementa tion	Daily average NO2 by up to 0.2 µg/m3 at key locations where active travel plans are implemented, & 10% reduction in car trips for school travel, however, the potential magnitude of the outcome would be subject to the number of trips affected	Number of active travel plans in place. Reduced car trips across District and increased mode shift to active and public transport	The Council employs an active travel officer and it is intended the position will become permanently attached to the pollution control team	
4	Produce guidanc e in support of emergin g local plan	Policy Guidance and Development Control	Air Quality Planning and Policy Guidance	2027	2030	Sandwell Pollution Control Team & Sandwell Planning Team	Sandwell Council	No	Partially Funded	TBC	Planning	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions in the development	Publication of guidance in support of local plan representing an update to the 2016 SPD (exact nature unknown)	-	It is currently unknown what mechanism or document type will best replace the current SPD in light of the expected abolition of SPDs.

Measure No.	Measure	Category	Classification	Estimated Year Measure to be Introduced	Estimated / Actual Completio n Date	Organisations Involved	Funding Source	Defra AQ Grant Funding	Funding Status	Estimated Cost of Measure	Measure Status	Target Reduction in Pollutant / Emission from Measure	Key Performance Indicator	Progress to Date	Comments/Potenti al Barriers to Implementation
												planning sector			
5	Active travel promotio n	Promoting Travel Alternatives	Other	2025	-	Sandwell Pollution Control Team	Sandwell Council	No	Partially Funded	TBC	Implementa tion	0.2% overall emissions reduction, however, the potential magnitude of the outcome would be subject to the number of trips affected	Annual awareness campaign. Reduced car trips across District and increased mode shift to active and public transport	The Council employs an active travel officer and it is intended the position will become permanently attached to the pollution control team	Further evidence is required to determine the extent of trips that may be captured
6	Auntie Duck	Public Information	Via other mechanisms	2025	2030	Sandwell Pollution Control Team	Sandwell Council, WMCA	No	Fully Funded	TBC	Implementa tion	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions via engagement and education	Number of primary schools enrolled in Auntie Duck	Auntie Duck launched in June 2024 and events have been held at 10 primary schools and has been received successfully	
7	Accredit ed educatio n scheme for schools	Public Information	Other	unknown	2030	WMCA & Sandwell Pollution Control Team	WMCA	No	Partially Funded	TBC	Planning	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions via engagement and education	Production of education scheme	-	
8	Smoke control	Other	Other	2025	-	Sandwell Pollution Control Team	Sandwell Council	No	Partially Funded	TBC	Implementa tion		Number of complaints and enforcement notices issued	Smoke Control Area was consolidated to cover the whole Borough in July 2024	
9	Planning applicati on support and review	Policy Guidance and Development Control	Air Quality Planning and Policy Guidance	2025	-	Sandwell Pollution Control Team & Sandwell Planning Team	Sandwell Council	No	Partially Funded	TBC	Implementa tion	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions by ensuring new development	Air quality responses to planning applications	Ongoing	

Measure No.	Measure	Category	Classification	Estimated Year Measure to be Introduced	Estimated / Actual Completio n Date	Organisations Involved	Funding Source	Defra AQ Grant Funding	Funding Status	Estimated Cost of Measure	Measure Status	Target Reduction in Pollutant / Emission from Measure	Key Performance Indicator	Progress to Date	Comments/Potenti al Barriers to Implementation
												s follow best practice			
10	Targeted public engage ment	Public Information	Via other mechanisms	2025	-	Sandwell Pollution Control Team	Sandwell Council	No	Partially Funded	TBC	Planning	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions via engagement and education	Annual engagement program. Targeted engagement alongside other actions.	-	
11	Investm ent in new cycle infrastru cture	Transport Planning and Infrastructure	Cycle network	2028	2030	Sandwell Transport Planning Team	?	No	Partially Funded	TBC	Planning	A potential 25% mode shift may be achievable on a given route dependent on the targeted investment	km of new cycleway	-	
12	Solid fuel burning	Public Information	Other	2025	-	Sandwell Pollution Control Team	Sandwell Council	No	Not Funded	TBC	Planning	ТВС	Survey of properties to determine the number of solid-wood burners in- use	-	
13	Partners hip with WMCA on impleme ntation of the West Midlands Air Quality Framew ork	Policy Guidance and Development Control	Regional Groups Co- ordinating programmes to develop Area wide Strategies to reduce emissions and improve air quality	2025	-	WMCA & Sandwell Pollution Control Team	Sandwell Council WMCA	No	Partially Funded	TBC	Implementa tion	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions	Attendance of regional group meetings and input into WMCA programs and documents	Ongoing	
14	Local Transpor t Plan	Transport Planning and Infrastructure	Other	?	?	Black Country Transport		No	Not Funded	TBC	Planning	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions	TBC	-	
15	Work with trusted	Public Information	Via other mechanisms	Unknown	Unknown	Sandwell Pollution	Unknown	No	Not Funded	TBC	Planning	Direct LAQ benefit not quantifiable,	ТВС	16 faith centres took part in a project funded by a Defra Air	

Measure No.	Measure	Category	Classification	Estimated Year Measure to be Introduced	Estimated / Actual Completio n Date	Organisations Involved	Funding Source	Defra AQ Grant Funding	Funding Status	Estimated Cost of Measure	Measure Status	Target Reduction in Pollutant / Emission from Measure	Key Performance Indicator	Progress to Date	Comments/Potenti al Barriers to Implementation
	commun ity advisors to deliver AQ messagi ng					Control Team						as measure complements and enables other Actions via engagement and education		Quality Grant between 2022 and 2023	
16	CIL / S106	Policy Guidance and Development Control	Air Quality Planning and Policy Guidance	2025	-	Sandwell Pollution Control Team, Sandwell Planning Team	CIL / S106	No	Fully Funded	TBC	Planning	TBC	Use of funds on air quality related projects	-	
17	Industria I permittin g	Environmenta I Permits	Other measure through permit systems and economic instruments	2025	i	Sandwell Pollution Control Team	Sandwell Council	No	Fully Funded	ТВС	Planning	TBC	Number of permits reviewed and successfully engaged with	-	
18	A1 permittin g	Environmenta I Permits	Other measure through permit systems and economic instruments	2025	ı	Sandwell Pollution Control Team Environment Agency	Sandwell Council	No	Fully Funded	ТВС	Planning	TBC	Number of permits reviewed and successfully engaged with	-	
19	Council zero- emission fleet	Vehicle Fleet Efficiency	Fleet efficiency and recognition schemes	2025	2030	?	Sandwell Council	No	Partially Funded	TBC	Planning	1.1t NOX annual emissions per ICE car replaced with ZEV	Number and class of vehicles replaced with low or zero-emissions, and equivalent emissions saved	TBC	Fleet will be replaced organically but additional funding may be required to enable ICE to replaced with BEV, specifically specialist vehicles
20	Health partners hip	Public Information	Other	2025	ı	Sandwell Pollution Control Team & NHS	Sandwell Council	No	Partially Funded	TBC	Implementa tion	Direct LAQ benefit not quantifiable, as measure complements and enables other Actions	ТВС	Existing partnership already in place.	
21	Air Quality council website	Public Information	Via the Internet	2025	-	Sandwell Pollution Control Team	Sandwell Council	No	Partially Funded	TBC	Implementa tion	Direct LAQ benefit not quantifiable, as measure complements	Reporting on user access, and tracking functionality.	Existing AQ page hosted on Council website	

Measure No.	Measure	Category	Classification	Estimated Year Measure to be Introduced	Estimated / Actual Completio n Date	Organisations Involved	Funding Source	Defra AQ Grant Funding	Funding Status	Estimated Cost of Measure	Measure Status	Target Reduction in Pollutant / Emission from Measure	Key Performance Indicator	Progress to Date	Comments/Potenti al Barriers to Implementation
												and enables other Actions via engagement and education			

5.3 Timescales of the AQAP Measures

Many of the measures set out in Table 5-3 are in the planning phase with a few already in progress. Timescales are provided in Table 5-3. Further timescale information for the top three actions is provided here.

For measure 1 – School Streets, the full timescale is currently unknown and will be defined as the measure progresses. Over the course of 2025 meetings will be held between the Pollution Control Team and the Highways Team to develop an implementation plan (including which schools the measure will be adopted at, and a strategy for consultation). It is expected that rollout will then begin in 2026 / 2027 with feedback obtained thereafter.

For measure 2 – Speed Restrictions, the following measures are planned and implementation is expected by 2026:

- A457 Oldbury between Rood End Road to Spon Lane South. Revoking the existing 40 mph limit and reducing to 30 mph.
- A456 Hagley Road West and Hagley Road from Dudley Borough boundary to Birmingham borough boundary. Revoking the existing 40 mph limit and reducing to 30 mph.
- A4041 Queslett Road, Greta Barr. Revoking the existing 40 mph limit and reducing to 30 mph.
- Londonderry Road and Londonderry Lane, Warley. Reduction from 30 mph to 20 mph.

Additionally, a prioritisation process for the introduction of 20 mph zones in town centres and residential areas is expected to be completed by 2026, with implementation of the speed limits anticipated by 2030.

Finally, for measure 3 – Active Travel Planning, the first milestone is making the Active Travel Planning Officer role permanent, which is expected in 2025. The production of active travels plans will continue from now throughout the lifetime of the AQAP. The final milestone is the target of the measure for 75% of schools to have travel plans by 2030.

5.4 Air Quality Partners

Sandwell Council is collaborating with the West Midlands Combined Authority on the below actions:

- Accredited education scheme for schools
- Partnership with WMCA on implementation of the West Midlands Air Quality
 Framework

Sandwell Council is collaborating with the NHS on the below actions:

Health partnership

5.5 Maintaining Safe Air Quality

Sandwell Council will continue to monitor local air quality throughout the Borough and review and report annually within the ASRs as required by LAQM regulations to ensure the objectives are maintained in the future. If new areas of concern arise, for example due to new development, or worsening congestion, additional monitoring will be installed to monitor these changes.

All new developments which have the potential to result in significant air quality impacts on or off-site will require an air quality assessment in line with the emerging local plan. Additionally, industrial developments which result in emissions to air will be subject to the Permitting Regulations. Together, the planning and permitting regimes will ensure that new developments are consistent with the maintenance of air quality standards.

Following five years of compliance with the AQO and the revocation of the AQMA, an Air Quality Strategy (AQS) will be produced and implemented to continue improving air quality and public health after the objectives have been achieved.

6 Quantification of Measures

6.1 Measure 1 - School Streets

A School Streets trial was carried out at Ferndale Primary School from July 2023 for 18 months. The trial was considered successful in terms of reduced complaints regarding parking and obstruction, however manual pedestrian counts did not reveal a significant difference before and after implementation, and further data was not collected.

Evidence for the air quality benefits of Measure 1 - School Streets have been identified by consulting a study on this issue. Morning closures typically coincided with the peak traffic period, while afternoon does not, occurring well before 5 pm. Therefore, it is reasonable to expect the afternoon road closures to have less effect on pollutant concentrations than those in the morning. Average reduction in NO₂ during the school drop off period is estimated to be up to 6 μ g/m³ (23%) and expected to have reduced daily average NO₂ by up to -0.4 μ g/m³ (2%). 18% of parents reported driving to school less; 27% of parents reported walking to school more; and 6% of parents reported cycling to school more.

6.2 Measure 2 - Speed Reductions

The effect of reducing speed limits on air quality is not straightforward. On Birmingham Road, where monitor BP is situated, and where a speed limit reduction from 40 mph to 30 mph is proposed, re-calculating the emissions for the slower speed using Defra's EFT results in an increase in NO_X emissions of 15%. However, the EFT is a simple tool and assumes a constant speed, whereas in reality, driving in urban areas is frequently characterised by stop-start driving behaviour. This may be caused by congestion, junctions, or pedestrian crossings, for example. In these cases, it is particularly the acceleration phase which may disproportionately influence

³² https://www.london.gov.uk/programmes-and-strategies/environment-and-climate-change/environment-publications/school-streets-air-quality-study

air quality. Lower speed limits may therefore have a positive effect on air quality, by reducing the time and distance spent accelerating.

Evidence from Wales,³³ where a default 20 mph in urban areas was introduced, suggest that the changes between 30 mph and 20 mph ranged from +0.5 μg/m³ to -5.6 μg/m³, showing the potential for these improvements to be quite substantial.

More locally, a study within Sandwell for a proposed reduction in speed limit from 40 mph to 30mph on All Saints Way³⁴ using microsimulation modelling that more accurately takes into account individual speed and acceleration behaviours than standard air quality modelling was undertaken in 2023. This showed that in this case, the total predicted (regional) NOx emissions at 30 mph were 13% lower than those at 40 mph, corresponding locally with small reductions of roadside NO₂ concentrations between -0.1 and -1.6 µg/m³.

It is likely therefore that reductions in speed limits elsewhere in the Borough (as planned) similarly correspond to small improvements in air quality of about this magnitude. However, as the changes are highly dependent on the exact characteristics of the individual road, it is not possible to predict the effect exactly.

6.3 Measure 3 – Active Travel Planning

Were each current car commuter (for work or school) to share a journey or choose active or public transport one-way once a week it would achieve a 10% reduction in car journeys to these sites each week. Assuming that 26%³⁵ of car journeys have a work or school destination within the Borough (in line with national statistics), this would be equivalent to a potential 2.6% reduction in total car journeys with this level of mode shift across all work and school car journeys.

This action targets 75% of schools in the Borough. As school related journeys make up 8% of car journeys, following the assumptions set out above this measure may more realistically be expected to bring about an 0.6% reduction in total car journeys.

³³ https://tfw.wales/about-us/transparency/publications/default-20mph-speed-limit/may-2024

³⁴ https://www.sandwell.gov.uk/downloads/file/2595/all-saints-way-a4031-modelled-impact-of-speed-reduction-on-air-quality

³⁵ https://www.gov.uk/government/statistics/transport-statistics-great-britain-2023/transport-statistics-great-britain-2022-domestic-travel

Car emissions made up 29% of the source apportionment of NO_2 in Sandwell therefore this may translate to a -0.2 μ g/m³ reduction in NO_2 concentrations.

No discrete goal is set for Active Travel Plans for businesses. The uncertainty of the quantification of this measure with respect to Active Travel Plans for businesses is raised following the adoption of different working patterns as a result of COVID-19. Therefore, further work to collect data on travel patterns and the number of car trips destined within the Borough may be a useful exercise to target these Plans where the impact will be largest.

Overall Quantification

The annual mean NO_2 objective was first achieved in 2022. Sandwell Council aims that the implementation of the outlined measures will result in continued compliance with the annual mean NO_2 objective and revocation of the Sandwell AQMA being carried out in 2027.

Appendix A: Response to Consultation

Table A.1 – Summary of Responses to Consultation and Stakeholder Engagement on the AQAP

Consultee	Category	Response
<pre><insert chamber="" commerce="" consultee="" e.g.="" of=""></insert></pre>	<insert business="" category="" e.g.=""></insert>	<insert and="" buses="" business="" consider="" cycles;="" disagree="" e.g.="" favour="" harm="" high="" in="" it="" members="" of="" on="" parking="" plan="" remove="" street="" text="" to="" will="" with=""></insert>

Appendix B: Reasons for Not Pursuing Action Plan Measures

Table B.1 – Action Plan Measures Not Pursued and the Reasons for that Decision

Action category	Action description	Reason action is not being pursued (including Stakeholder views)
Traffic Management	Low Traffic Neighbourhoods	This measure would be expensive and is likely to lack in public support. Traffic restriction will already be implemented in key locations at key times through the School Streets measure (Action 1).
Promoting Low Emission Transport	Clean Air Zone	This measure would very expensive and little public support would be expected. Due to the compliance of the AQMA with the AQO, there is no mechanism to win national government funding. The measure would disproportionately affect those with non-compliant vehicles who are more likely to be socially deprived and therefore the measure may have negative social impacts.

Other	Home energy efficiency/installation	The source apportionment undertaken shows that domestic emissions are not a large source of emissions, unless houses with solid fuel burning were specifically targeted. However, this will be covered by the Solid Fuel Burning measure (Action 16). No local funding source has been identified to implement such a measure.
Other	Green infrastructure	Tree planting may have either positive or negative effects on air quality. It is uncertain what mechanism would be used to ensure that the plantings would be beneficial to air quality. The benefits of trees in a wider sense are recognised but this is better considered outside the context of the AQAP.
Alternatives to private vehicle use/Promoting Travel Alternatives	Bus lane enforcement	This may help buses move throughout the network more effectively which may encourage greater uptake of public transport however any benefits to air quality arising from this measure would likely be very marginal.

Promoting Travel Alternatives	Cycling and Walking Infrastructure Plan	The Plan has been updated and is due to be updated imminently therefore there is no opportunity to further influence it.
Vehicle Fleet Efficiency	Taxi/licensed vehicle policy	This measure requires regional collaboration as firstly, introducing a policy in Sandwell alone may result in taxis registering elsewhere while still operating in Sandwell without improving their vehicle emission standards, and secondly, there is a large amount of cross-border movement of taxis within the Black Country. Currently, no regional policy is being discussed and therefore this measure is not currently feasible. Recognising that taxis may make up a disproportionately large percentage of emissions from cars due to the large distances travelled, this measure may be revisited at such a future time if the feasibility increases.

Appendix C: CRSTS Funded Schemes in Sandwell

Table C.1 – City Region Sustainable Transport Settlements (CRSTS) Funded Schemes in Sandwell

CRSTS Funded Scheme	Brief Description	Potential Impact on Air Quality
Cross City Bus Route Dudley – Birmingham – Druids Heath	Developing cross-city bus routes to improve bus services reliability and journey times, to be completed by 2027. Including a network for greater bus priority.	Increased public transport capacity through the centre of the Borough, through Oldbury and Smethwick along Birmingham Road.
Black Country Walking and Cycling Package	A Black Country wide package of walking and cycling interventions including improved provision of pedestrian and cycle infrastructure and crossing improvements.	A Borough-wide focus on improving and increasing active travel.
A461 Sandwell Walk, Cycle and Bus Corridor	Improving conditions for active travel through the provision of high-quality walking and cycling improvement. Improvements in bus journey time reliability.	Encourage modal shift away from private car use. Impact focused along Burnt Tree, Dudley Port, Horseley Heath and Great Western Way to Navigation Roundabout from Dudley.

CRSTS Funded Scheme	Brief Description	Potential Impact on Air Quality
A4123 Walk, Cycle and Bus Corridor	Improving active travel provisions with a two-way segregated cycle route spanning the whole length of the A4123 as well as bus priority infrastructure.	Encouraging modal shift away from private car usage along New Birmingham Road & Wolverhampton Road from Dudley to the A456.
Cross City Bus Routes Package West Bromwich – Birmingham – Chelmsley Wood	Developing cross-city bus routes to improve bus services reliability and journey times, including a network for greater bus priority.	Increased public transport capacity in the east of the Borough, starting in West Bromwich and going through Smethwick towards Birmingham.
Dudley Port Interchange	Improvements to public realm and accessibility of the Dudley Port station.	Encourage or facilitate use of public transport in the Dudley Port area.
Hagley Road Rapid Transit	Delivery of bus priority measures and improvements for walking and cycling. Improving connectivity to the existing Metro network. Including integration with the A4123 walk, cycle and bus corridor scheme.	Encourage the use of public transport in the south stretch of the Borough close to Hagley Road.

CRSTS Funded Scheme	Brief Description	Potential Impact on Air Quality	
Sandwell's Local Network Improvement Plan	Minor programme of walking, cycling and public transport improvements and junction and highway resilience measures.	Improved traffic reliability across the whole Borough.	
Smethwick – Birmingham Inclusive Growth Corridor	Walking and cycling infrastructure including two-way segregated cycle route. Bus priority infrastructure.	Encouraging modal shift around the Grove Lane/Cranford Street Housing Zone adjacent to new Midland Metropolitan University Hospital in Smethwick	
Sprint Bus Rapid Transit Phase 2 A34	Bus priority measures, with the provision of cycling enhancements, pedestrian crossings, and traffic signal optimisation.	Increased public transport capacity in the northeast of the Borough around Great Barr, Newton, Yew Tree and Hamstead.	
Metro Tram Extension Wednesbury – Dudley	11 km extension of the current West Midlands Metro line from Wednesbury to Dudley, opening in 2025.	Increased public transport provision to encourage modal shift across the northwest of the Borough from Wednesbury to Dudley.	

CRSTS Funded Scheme	Brief Description	Potential Impact on Air Quality
Merry Hill Construction for Metro Tram Extension	Second phase of the Metro extension to Merry Hill in Brierley, likely opening in 2027.	

Appendix D: Planning and Policy Detail

D1 National Planning and Policy Context

D1.1 Environment Act (2021)

The Environment Act 2021 amends the Environment Act 1995 and sets a new course for the UK's environmental policy post-Brexit. It includes provisions to establish a set of statutory environmental principles to guide future legislation and policy decisions and ensure environmental governance through an environmental watchdog, the Office for Environmental Protection (OEP).

Under Part IV of the Act, the government is mandated to develop a National Air Quality Strategy (AQS) which contains clear standards, objectives, and measures to improve ambient air quality, and to publish a report reviewing the AQS every five years (as a minimum and with yearly updates to Parliament), in the form of the Environmental Improvement Plan.

The Environment Act 2021 includes a proposal that the government set a range of new environmental targets including an annual mean concentration target and a population exposure reduction target for PM_{2.5}. Following through on these requirements, the Environmental Targets (Fine Particulate Matter) (England) Regulations 2023 came into effect, introducing the two targets described above. These legislative targets must be met at relevant monitoring stations by December 31, 2040. Full guidance on how target values should be considered in development control and local air quality control is not yet available. Interim Planning Guidance was published in October 2024. The guidance moves away from an exceedance-based approach and towards a minimisation of pollution approach. It recommends key sources of air pollution schemes submitted for planning applications are identified, and appropriate action to minimise emissions of PM_{2.5} and its precursors are implemented as far as is reasonably practicable. If quantitative evidence is not available, a qualitative approach can be taken.

D1.2 Clean Air Strategy

In 2019, the UK government introduced the Clean Air Strategy 2019, a major component of its broader 25 Year Environment Plan, and the government's primary strategy for air quality. This strategy underscored a renewed governmental commitment to air quality improvements and also laid the groundwork for the development of more recent legislative changes as described above.

In recent years, air quality management has primarily focused on nitrogen dioxide (NO_2) , and its principal source in the UK i.e. road traffic. However, the Clean Air Strategy broadens the focus to other areas. This shift in emphasis is part of a longer-term goal to reduce the levels of $PM_{2.5}$ in ambient air. It outlined comprehensive measures to combat air pollution, from reducing emissions across various sectors to enhancing the country's monitoring and analytics capabilities. Recognizing that air pollution is a complex problem influenced by a range of factors, including industrial activity, agriculture, and domestic heating, the strategy advocated for a holistic approach to ensure cleaner air.

D1.3 Air Quality Strategy 2023

Functioning as a framework for local authority delivery of the above plans, a new Air Quality Strategy (AQS) was published in April 2023. This updated strategy is action-oriented, outlining specific roles for local authorities in support of achieving the new national PM_{2.5} targets and other long-term air quality goals. It specifies that local authorities are expected to take action by controlling emissions from sources within their jurisdiction.

The AQS outlines proposals to tackle emissions from a range of sources. This includes providing clear and effective guidance on how an Air Quality Management Areas (AQMAs), Clean Air Zones (CAZs) and Smoke Control Areas interrelate and how they can be used by local government to tackle pollution.

D1.4 National Planning Policy Framework (2025)

The National Planning Policy Framework (NPPF) sets out the Government's environmental, economic and social policies and principles for land use planning in England and how these are expected to be applied, providing a framework within which locally-prepared plans for development can be produced. The National Planning Policy Framework was first published in March 2012, and was last updated in December 2024.

Paragraphs 110, 187, and 199 and 224 of the NPPF provide advice on when air quality should be a material consideration in development management decisions.

Paragraph 192 states that:

"Planning policies and decisions should sustain and contribute towards compliance with relevant limit values or national objectives for pollutants, taking into account the presence of Air Quality Management Areas and Clean Air Zones, and the cumulative impacts from individual sites in local areas. Opportunities to improve air quality or mitigate impacts should be identified, Opportunities to improve air quality or mitigate impacts should be identified, such as through traffic and travel management, and green infrastructure provision and enhancement. So far as possible these opportunities should be considered at the plan-making stage, to ensure a strategic approach and limit the need for issues to be reconsidered when determining individual applications. Planning decisions should ensure that any new development in Air Quality Management Areas and Clean Air Zones is consistent with the local air quality action plan."

D1.5 Integrated National Transport Strategy (emerging)

The Department for Transport is developing a strategy which will set the high-level direction for how transport should be designed, built and operated in England over the next 10 years.³⁶ It will set out a single national vision which will³⁷:

- Put people who use transport and their needs at its heart; and
- Empower local leaders to deliver integrated transport solutions that meet the needs of their local communities.

A call for evidence ran from 28th November 2024 to 20th February 2025. A series of regional roadshows were held in February and March 2025 for the government to listen to ideas on how the strategy can support better integrated public transport and improve transport in rural areas, learning from successful integrated systems such as the Bee Network, as well as considering how cycling and walking can become the best choice for shorter journeys³⁸.

D1.6 Net Zero Strategy: Build Back Greener (2021)

The Net Zero Strategy – Build Back Greener was published in October 2021³⁹. It sets out policies and proposals for decarbonising all sectors of the UK economy to meet the net zero target by 2050. This strategy builds on the 10-point plan for a green industrial revolution⁴⁰ which lays the foundations for a green economic recovery from the impacts of Covid-19. It aims to keep the UK on track for the carbon budgets, the 2030 Nationally Determined Contribution, and net zero by 2050. Key policies in relation to air quality are:

³⁶ https://www.gov.uk/government/calls-for-evidence/integrated-national-transport-strategy-a-call-for-ideas (accessed 14/04/2025)

³⁷ https://www.gov.uk/government/calls-for-evidence/integrated-national-transport-strategy-a-call-for-ideas/integrated-national-transport-st

³⁸ https://www.gov.uk/government/news/transport-minister-kicks-off-regional-tour-with-communities-to-shape-the-future-of-integrated-transport (accessed 14/04/2025)

³⁹ https://assets.publishing.service.gov.uk/media/6194dfa4d3bf7f0555071b1b/net-zero-strategy-beis.pdf (accessed 15/04/2025)

⁴⁰ https://www.gov.uk/government/publications/the-ten-point-plan-for-a-green-industrial-revolution (accessed 15/04/2025)

"By 2035 the UK will be powered entirely by clean electricity, subject to security of supply." p. 19

"An ambition that by 2035, no new gas boilers will be sold." p. 22

- "[...] [the] 2030 commitment to end the sale of new petrol and diesel cars, and 2035 commitment that all cars must be fully zero emissions capable." p.24
- "[...] enable [that] half of journeys in towns and cities to be cycled or walked by 2030." p. 25
- "[...] a net zero rail network by 2050, with the ambition to remove all diesel-only trains by 2040." p. 25

D2 Regional Planning and Policy Context

D2.1 West Midlands Combined Authority Air Quality Framework and Implementation Plan

The West Midlands Combined Authority (WMCA) Air Quality Framework comprises a list of 145 potential 'options' to address poor air quality and the inequality of exposure. These options cover: Engagement and behaviour change; Domestic emissions and indoor air quality; Transport; Natural and built environment; Commercial, industrial and agriculture; Public health; Planning, policy, governance and mechanisms for change; Monitoring and digital; and Climate and Net Zero Considerations.

The West Midlands Combined Authority (WMCA) Air Quality Framework Implementation Plan summarises the priority measures from the WMCA Air Quality Framework which will be progressed or delivered between 2024 and 2026. The delivery of this Framework Implementation Plan requires collaboration across the region, including local authorities, and this plan complements existing progress being delivered by Transport for West Midlands and local authorities.

D2.2 Black Country Core Strategy (2011)

The Black Country Core Strategy sets out the planning policies to achieve three major directions of change: Sustainable Communities, Environmental Transformation, and Economic Prosperity⁴¹. The scale of growth proposed in the Black Country Core Strategy will have impacts upon the local environment, including levels of air pollutants. New developments may have specific and/or cumulative impacts on air quality which require mitigation in order to make the development acceptable.

Policy ENV8 (Air Quality) sets out the policy framework for addressing air quality through the planning system:

ENV8: "New residential or other sensitive development, such as schools, hospitals and care facilities, should, wherever possible, be located where air quality meets national air quality objectives.

Where development is proposed in areas where air quality does not meet (or is unlikely to meet) air quality objectives or where significant air quality impacts are likely to be generated by the development, an appropriate air quality assessment will be required. The assessment must take into account any potential cumulative impacts as a result of known proposals in the vicinity of the proposed development site, and should consider pollutant emissions generated by the development.

If an assessment which is acceptable to the local authority indicates that a proposal will result in exposure to pollutant concentrations that exceed national air quality objectives, adequate and satisfactory mitigation measures which are capable of implementation must be secured before planning permission is granted."

Policy TRAN2 sets out the policy framework for managing transport impacts of new developments:

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⁴¹ https://blackcountryplan.dudley.gov.uk/t1/p2/ (accessed 15/04/2025)

TRAN2: "Planning permission will not be granted for development proposals that are likely to have significant transport implications unless applications are accompanied by proposals to provide an acceptable level of accessibility and safety by all modes of transport to and from all parts of a development including, in particular, access by walking, cycling, public transport and car sharing. These proposals should be in accordance with an agreed Transport Assessment, where required, and include implementation of measures to promote and improve such sustainable transport facilities through agreed Travel Plans and similar measures."

D2.3 West Midlands Good Practice Air Quality Planning Guidance (2014)

In response to changes in the assessment of air quality impacts and the consideration of cumulative impacts, the West Midlands Good Practice Air Quality Planning Guidance was developed as part of the West Midlands Low Emissions Towns & Cities Programme⁴². The guidance aims to set out:

- A clear and consistent approach to assessment of planning applications, mitigation and compensation, thus defining what is meant by 'sustainable' in air quality terms;
- Provision of a simplified approach, reducing the requirements for Air Quality assessment while promoting the integration of mitigation into scheme design;
 and
- Examples of existing West Midlands development schemes incorporating low emission initiatives.

²

 $[\]frac{\text{https://www.bing.com/ck/a?!\&\&p=50c5a895a52c0b8351d8495030bfd3e620b6bd75069ee2c04f6decfda99dcf2eJmltdHM9MTc0NDY3NTlwMA\&ptn}{=3\&ver=2\&hsh=4\&fclid=27ebbfeb-571d-60da-03e2-}$

aa7d563a61b1&psq=West+Midlands+Good+Practice+Air+Quality+Planning+Guidance+(2014)&u=a1aHR0cHM6Ly93d3cuYmlybWluZ2hhbS5nb3
YudWsvZG93bmxvYWQvZG93bmxvYWRzL2lkLzE2ODMyL2ViZDEzX2xldGNfZ29vZF9wcmFjdGljZV9haXJfcXVhbGl0eV9wbGFubmluZ19ndWlk
YW5jZV9tYXlfMjAxNC5wZGY&ntb=1 (accessed 15/04/2025)

D2.4 Black Country Air Quality Supplementary Planning Document (SPD)

The SPD was adopted in October 2016 and covers all four local authority areas: Dudley, Sandwell, Walsall and Wolverhampton⁴³. It sets out guidance for dealing with air quality and is aimed at all those involved in the submission and determination of planning applications where air quality needs to be addressed. This is to encourage more sustainable development and to ensure future improvements in air quality.

The SPD supplements Policy ENV8 (Air Quality) of the adopted Back Country Core Strategy (2011) and embraces the West Midlands Good Practice Air Quality Planning Guidance (2014).

In summary the SPD is designed to:

- Explain why air quality is important in the Black Country and describe the existing policy framework;
- Incorporate air quality mitigation measures within new developments to offset the incremental creep in pollutant emissions;
- Present the method for identifying development proposals where an air quality assessment will be required, and the processes involved;
- Propose various options for site specific mitigation to protect future occupiers
 from poor air and how such measures will be secured and delivered; and
- Confirm where a damage calculation is required and payment made to the local authority where mitigation is not appropriate.

D2.5 Movement for Growth: The West Midlands Strategic Transport Plan

The Strategic Transport Plan sets out the vision, priorities, approach and commitment to building a sustainable infrastructure system over a 20-year period⁴⁴. The transport policies cover economic growth and economic inclusion, population

⁴³ https://www.sandwell.gov.uk/downloads/file/797/black-country-air-quality-spd (accessed 15/04/2025)

⁴⁴ https://www.tfwm.org.uk/media/3ukj3yw0/movement-for-growth.pdf (accessed 15/04/2025)

growth and housing development, environment, public health and social well-being. The policies related to air quality are:

ENV2: "To help tackle climate change by ensuring large decreases in greenhouse gas emissions from the West Midlands Metropolitan Area [the Metropolitan Area includes Birmingham, Coventry, Sandwell, Solihull, Walsall and Wolverhampton.]"

PUBH1: "To significantly increase the amount of active travel in the West Midlands Metropolitan Area."

The strategic transport plan is currently being updated, as described below.

D2.6 West Midlands Local Transport Plan (emerging)

The Local Transport Plan is currently emerging⁴⁵. It will comprise a Core Strategy, six Big Moves (detailed policies across six thematic areas for action), four area strategies (including one for the Black Country), and an Implementation Plan. Once all elements of the new plan are agreed, the new Transport Plan will be formally adopted, replacing the current version as the region's statutory plan. The core strategy has already been agreed on for the new Transport Plan.⁴⁶ It proposes a new vision for travel in the West Midlands where people can thrive without having to drive or own a car. To get there the Core Strategy sets out the need for actions to help us improve accessibility, reduce traffic, and electrify transport.

The Big Move documents have been drafted and are currently undergoing consultation⁴⁷. They are:

- Behaviour Change
- Accessible and inclusive places
- Walk, wheel, cycle and scoot

⁴⁵ https://www.tfwm.org.uk/who-we-are/our-strategy/local-transport-plan/ (accessed 15/04/2025)

⁴⁶ https://www.tfwm.org.uk/media/1p4ccrwt/wm-ltp-2023-core-strategy-v2-1.pdf (accessed 15/04/2025)

⁴⁷ https://www.tfwm.org.uk/media/uuuhqpb4/big-moves-summary.pdf (accessed 15/04/2025)

- Public Transport and Shared Mobility
- · A Safe Efficient, and Reliable transport network
- A green transport revolution

The Black Country Area Strategy and Implementation Plan have not yet been published.

D2.5 Black Country Ultra-Low Emission Vehicle (ULEV) Programme

The Back Country ULEV Programme delivers the aims of the Black Country ULEV Strategy⁴⁸. It involves the installation of public charge points on and off highway of varying charging speeds, initially through the Office for Zero Emission Vehicles (OZEV) On-Street Residential Charge Point Scheme (ORCS).

The Black Country ULEV Strategy⁴⁹, published in May 2020, aims to accelerate the update of ULEVs across the area in anticipation of a nationwide 2025 ban on the sale of petrol and diesel vehicles. The Government's proposed ban is aimed at combating the environmental and public health implications of transport emissions. The strategy recommends the infrastructure and policies required across the Black Country to support the transition.

For Sandwell, the strategy recommends the following strategic infrastructure locations for installing charge points:

- Oldbury;
- Oldbury Roundabout; and
- Blackheath.

⁴⁸ https://www.blackcountrytransport.org.uk/projects/ultra-low-emission-vehicle-programme.html (accessed 15/04/2025)

⁴⁹ https://www.blackcountrytransport.org.uk/downloads/key-documents/final-report-ulev-strategy-black-country.pdf (accessed 15/04/2025)

Active travel was recognised to be lagging across the whole area, and suggestions such as promoting bike schemes, developing dedicated lines for cyclists and public engagement with individual transport advice were made to improve active travel.

D2.6 Black Country Walking and Cycling Strategy and Implementation Plan

The Black Country Walking and Cycling Strategy and Implementation Plan was published in 2016⁵⁰. The plan brings together a list of prioritised infrastructure investment schemes that support active travel to become more attractive.

The aims of the cycle strategy are to:

- Make cycling inviting and attractive to everyone;
- Make cycling safe and secure;
- Make cycling easy and intuitive; and
- Normalise cycling to reduce inequalities.

The aims of the walking strategy are to:

- Provide safe, pleasant-to-use route infrastructure;
- Provide high-quality networks with access from neighbourhoods and transport hubs;
- Have an inviting and engaging urban environment;
- Ensure access for all users;
- Rebalance the environment to make it calm and safe for all;
- Provide attractive local streets and spaces;
- Provide access to information to enable clear way-finding; and
- Promote walking as inclusive and health transport mode.

 $[\]frac{50}{2020} \\ \underline{\text{https://go.walsall.gov.uk/sites/default/files/2022-07/Black\%20Country\%20cycling\%20and\%20walking\%20strategy.pdf} \\ \underline{\text{(accessed 17/04/2025)}} \\ \underline{\text{(accessed 17/04/2025)}} \\ \underline{\text{(bold the first of the first$

The plan identified a walking focus area at Sandwell General Hospital due to multiple metro stops and the bus interchange, and a cycling focus area in West Bromwich.

D2.7 West Midlands Local Cycling and Walking Infrastructure Plan

Published August 2018, the West Midlands Local Cycling and Walking Infrastructure Plan (LCWIP) has identified cycling and walking improvements required at a local level to enable a long-term approach to developing local cycling and walking networks. The West Midlands LCWIP aims to identify key opportunities within each local authority as well as coordinate plans across the local authorities to ensure a consistent and aligned approach to delivery and ensuring these plans are integrated into policies, strategies and delivery plans in the West Midlands.

D2.8 West Midlands Net Zero 5 Year Plan

In March 2021, the Net Zero 5 Year Plan was adopted and it sets out how to create the right conditions for accelerating delivery and raising ambition to position the West Midlands as a leader in addressing climate change and future proofing the region⁵¹. It considers 15 goals with the ambition to achieve a 33% reduction in emissions by 2026, in line to achieve net zero emissions by 2041. The top five decarbonisation priorities are:

- Domestic energy efficiency measures and heating retrofitting;
- Commercial energy efficiency measures;
- Modal shift towards active travel measures;
- Increased uptake of electric vehicles; and
- Planting trees and enhancing natural capital.

⁵¹ https://www.wmca.org.uk/documents/environment-energy/home-of-the-green-industrial-revolution/introduction/wm2041-five-year-plan/#:~:text=In%20March%202021%20the%20West%20Midlands%20Combined%20Authority,in%20addressing%20climate%20change%20and%20futureproofing%20the%20region. (accessed 17/04/2025)

To achieve these emissions reductions Sandwell Council has set the target to become carbon neutral as an organisation by 2030, and as a borough by 2041⁵². Furthermore, they are currently working on the West Bromwich town centre heat network which is currently at Commercialisation stage with the first consumers connecting in late 2027 at the earliest.

D3 Local Planning and Policy Context

D3.1 Sandwell Local Plan (emerging)

The Sandwell Local Plan was submitted to the Secretary of State in December 2024 and is currently undergoing examination⁵³. The Local Plan is Sandwell Council's strategy for the period 2024 – 2041. It sets out 52 policies which fall into the following categories:

- Framework Policies
- Natural and Historic Environment
- Climate Change
- Health and Wellbeing
- Housing
- Economy
- Sandwell's Centres

Policy SHW3, under Health and Wellbeing, relates to Air Quality. Under this policy, the Local Plan requires development and other land use proposals to promote integration of cycling, walking, public transport and electric charging points as part of their transport provision; promoting and supporting a modal shift from private motorised vehicles to the use of public transport, cycling and walking; appropriate Air

⁵² https://www.wmca.org.uk/media/wumiikpt/wm-net-zero-fyp-summary-tech-report.pdf (accessed 17/04/2025)

⁵³ https://www.sandwell.gov.uk/downloads/file/3260/sandwell-local-plan-reg-19-publication-version-september-2024- (accessed 17/04/2025)

Quality Assessments where significant air quality impacts are likely to be generated from proposed developments; and siting residential or other sensitive developments in areas of existing, or achievable, compliance with air quality objectives.

There are also a number of policies anticipated to affect air quality more indirectly, including:

- Policy STR5 Creating Coherent Networks for Cycling and Walking (to encourage safe active travel)
- Policy STR6 Influencing the Demand for Travel and Travel Choices (to reduce demand for car usage)
- Policy STR8 Parking Management (to balance economic development with encouragement of alternative measures)
- Policy STR9 Planning for Low Emission Vehicles (including facilitation of charging points)
- Policy SCC1 Energy Infrastructure and Policy SCC2 Reducing operational carbon in new build non-residential development (specifically, the use of fossil fuels and connections to the gas grid will not be considered acceptable)

D3.2 Sandwell Climate Change Strategy 2020 - 2041

In March 2020 Sandwell Council declared a Climate emergency and, therefore, has adopted the goal to become carbon neutral as an organisation by 2030, and as a borough by 2041⁵⁴. The Climate Change Strategy represent a high-level strategy for meeting targets that will enable Sandwell to make a fair contribution to reducing UK emissions. This strategy is accompanied by the Corporate Climate Change Action Plan 2022 – 2025.

⁵⁴ https://www.sandwell.gov.uk/downloads/file/39/climate-change-strategy (accessed 17/04/2025)

D3.3 Sandwell Corporate Climate Change Action Plan 2022 – 2025

The Corporate Climate Change Action Plan was put together to set out the Council's priorities and proposed actions to meet the 2030 and 2041 targets for reaching net zero as described in the Climate Change Strategy⁵⁵. The Action Plan covers six key themes:

- Council estate and operations;
- The built environment;
- Transport;
- Waste;
- Adaptation; and
- Natural Capital

The objectives related to air quality include Error! Bookmark not defined.:

- 1.5 "Reduce carbon emissions from fleet vehicles and business milage";
- 1.7 "Support staff in reducing emissions through behavioural change";
- 2.2 "Reduce emissions from businesses";
- **3.1** "Promotion of sustainable travel";
- **3.3** "Establish planning policies that encourage developers to promote sustainable transport choices".

The Council recognises that air quality is an important issue in Sandwell, and improving air quality does not only benefit public health but also climate change.

D3.4 Sandwell Cycling and Walking Infrastructure Plan

Sandwell Cycling and Walking Infrastructure Plan (SCWIP) was published in January 2020 and work is currently underway on the 2nd iteration. This Plan builds on work

⁵⁵ https://www.sandwell.gov.uk/downloads/file/40/climate-change-action-plan (accessed 17/04/2025)

already done as part of the West Midlands LCWIP at a regional level. The SCWIP aims to:

- Assist the implementation of the West Midlands Strategic Cycle Network
- Identify the local networks within Sandwell with a prioritised plan for delivery
- Coordinate the plan with existing plans for the Black Country and the West
 Midlands to ensure a consistent and aligned approach to delivery
- Integrate this plan into a clear planning and transport policy document and delivery plan, taking into consideration the overarching West Midlands strategies for planning and transport.

D3.5 Sustainable Modes of Travel Strategy for Schools in Sandwell (SMOTS)⁵⁶

The SMOTS was updated in 2019, it reviews the travel needs of pupils and students in Sandwell, what provision is already available and sets out how Sandwell will promote sustainable travel to and from schools and colleges. This Strategy includes three specific objectives: ensuring all schools have School Travel Plans which are regularly monitored, reviewed and updated; ensuring all young people and parents are aware of the travel options; and ensure that Sandwell builds on its achievements to date and reduces the number of pupils travelling to and from school by car.

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 $^{^{\}rm 56}$ Sustainable Modes of Travel Strategy for Schools in Sandwell (2019)

Appendix E: Minutes from Steering Group Meetings

E1 Steering Group Meeting 1

Meeting Name	Subject	Attendees
Steering Group Meeting	Sandwell Air Quality Action Plan Steering Group Meeting	Alison Bishop (Sandwell Council), Andrew Bean (National Highways), Becky Willson (Sandwell Council), Christopher Henderson (National Highways), Duncan Urquhart (AECOM), Ed Wicks (Living Streets),
Meeting Date	Time	Elizabeth Stevens (Sandwell Council), Ellis Langdon (AECOM), Fiona Gee (Sandwell Council), Izzy Reeves
27 February 2025	14:30 – 15:30	(AECOM), Jackie Taylor (Sandwell), Jake Thrush (Transport for West Midlands), Jenny Chidley (Sandwell Council), Keith Allcock (Sandwell Council), Liann Brookes Smith (Sandwell Council), Lina Martino (Sandwell Council), Margaret Gardiner (Sandwell Council), Nichola Egan (AECOM), Paul Meadows (Sandwell Council), Phil Kingston (Sandwell Council), Sarah Redfern (National Highways), Shane Middleton (Sandwell Council), Stephen Brown (British Cycling), Suzy Street-Hall (Sandwell Council), Vivienne Marsh (NHS)

Agenda

- Introductions
- Outline of the Air Quality Action Plan Process
- Open discussion:
 - o Current understanding of the air quality issues in Sandwell.
 - What work are you currently doing/which policies are currently in place that support air quality improvements in Sandwell.
 - o What barriers exist to improving air quality?

- What should Sandwell's priorities be over the lifetime of the AQAP to reduce emissions and improve local air quality?
- Any other business
- Next steps

Actions Summary

Action	Assigned to
Meeting minutes to be written and circulated	AECOM & Elizabeth Stephens
Providing any information that would be useful about schemes funded by Cross One for 2022 – 2027	Jake Thrush
Discussion about PRISM traffic models	AECOM & Jake Thrush
Providing the Sandwell cycling and walking infrastructure plan	Becky Willson
Review outcomes and issues raised	AECOM
Providing climate change policies	Phil Kingston
Providing relevant documents as discussed in meeting	All attendees

Minutes

Topic	Comments
AQAP Process	 Further steering group meetings are proposed for w/c 7th April and mid June Step 1 – Baseline (mid-February to late March). This stage involves demonstrating a good understanding of current baseline air quality including technical analysis of emissions, and policy and public health context. Step 2 – Longlist (late March – April). A long list of potential actions will be identified, proportionate to the scale of the problem, across a range of policy areas. Step 3 – Short list (mid-April – mid May). Not all of the long-list actions will be viable. A short list will be produced for the top 3 – 5 measures that provide the most significant impact on emissions, and this impact will be quantified. Step 4 – AECOM will draft an AQAP using Defra's standard template, produced at the start of June. Step 5 – Statutory consultation and initial appraisal by Defra of Draft AQAP. Step 6 – Final AQAP is produced incorporating appraisal and consultation comments.
Current Baseline	 In the 2023 Annual Status Report, one diffusion tube is "non-compliant" in terms of revoking an AQMA as it was less than 10% below the relevant objective – 39.8 μg/m³ This diffusion tube is located on A457 Birmingham Road – in "zone 3"

Topic	Comments
	 National Highways raised that from previous experience, it would be difficult to obtain Government funding where the monitored concentration is below 40 µg/m³ and the exceedance is marginal, as in this case. There is a Clean Air Zone in Birmingham – it was queried what impacts had made been achieved in Birmingham? It was queried what is the impact from local businesses and industry on air quality and what are they doing to minimise their impacts?
Children & Schools	 Implementation of school streets/Walking streets – a pilot was carried out at Ferndale Primary at the end of last year which was anecdotally very successful Living Streets are carrying out school route audits Raise awareness of the issues associated with idling Encouraging children to cycle to school There is a relationship between air pollution and children's health, in particular asthma Raising awareness and understanding with healthcare professionals to support patients
Active Travel	 Sandwell cycling and walking infrastructure Low baseline for a cycle network in Sandwell Having a good cycle network is a way to get people out of their cars and encourage modal shift Use of canal towpaths for cyclists or pedestrians
Current fleet and transition to electric vehicles	 Sandwell has low car ownership relative to the UK Electrification of the bus fleet and council vehicles/waste vehicles Rolling programme for fleet electrification as leases and licences end, chargers have been/will be installed Assisting Serco transitioning their waste vehicles to EV by putting in chargers Electric vehicles are unlikely to be the solution as they still have emissions from brake wear and causing congestion as those vehicles are still on the road
Public Transport	 Electrification of the bus fleet CRSTS programme – five year capital programme of transport schemes from 2022 – 2027, with another five year scheme starting in 2027. The schemes will promote public transport, cycling and walking. For example, the Cross City bus route 82/87.
Bonfires	Highlighted as a potentially significant source of particulate matter
Hot spots/focus area	Noted the AQAP should specifically target where it's going to benefit children and the most vulnerable people, for example healthcare settings, rather than pollution hotspots
Domestic emissions	 Heat network gone to commercialisation Devolved funding will help support roll outs of improving insulation and increasing EPC ratings of resident houses which will help reduce emissions from boilers

Documents provided:

• https://www.ncmd.info/publications/child-deaths-asthma-anaphylaxis-allergy/

- https://www.asthmaandlung.org.uk/living-with/air-pollution
- https://blackcountry.icb.nhs.uk/your-health/health-advice/asthma/asthma-friendly-schools

E2 Steering Group Meeting 2

Meeting Name	Subject	Attendees
Steering Group	Sandwell Air	Alison Bishop (Sandwell Council), Andy Thorpe
Meeting 2	Quality Action	(Sandwell Council), Carl Mercer (Sandwell Council),
	Plan Steering	Claire Hammond (Sandwell Council), Claire Williams
	Group Meeting 2	(West Midlands Combined Authority), David Gallagher
		(Transport for West Midlands), Ed Wicks (Living
Meeting Date	Time	Streets), Elizabeth Stephens (Sandwell Council), Ellen
8 April 2025	09:30 - 11:30	Blakey (Sandwell Council), Fiona Gee (Sandwell
		Council), Jake Thrush (Transport for West Midlands),
		Jenny Chidley (Sandwell Council), Lina Martino
		(Sandwell Council), Louise Bodlovic (Sandwell
		Council), Luke Hadlow (Black Country Transport),
		Margaret Gardiner (Sandwell Council), Matthew Pain
		(Black Country Transport), Nichola Egan (AECOM),
		Paul Meadows (Sandwell Council), Phil Kingston
		(Sandwell Council), Sarah Redfern (National
		Highways), Shane Middleton (Sandwell Council), Suzy
		Street-Hall (Sandwell Council), Tina Okewale
		(Sandwell Council)

Agenda

- Introductions
- West Midlands Combined Authority behaviour change update
- Outline baseline assessment findings
- Outline baseline assessment discussion
- Air quality priorities discussion
- Long list of measures targeted measures

- Long list of measures strategic measures
- Open discussion
- Any other business
- Next steps

Actions Summary

Action	Assigned to
Meeting minutes to be written and circulated	Izzy Reeves & Elizabeth Stephens
Discuss the feasibility targeted measure 1 and 2 with the highways team	Nichola Egan, Elizabeth Stephens & Andy Thorpe
Provide a baseline of how many people do own cars, how many two car households	Nichola Egan
Reduce the long list based on options raised in this meeting and undergo a filtering process to get a short list	Nichola Egan, Elizabeth Stephens & Andy Thorpe
Quantify the short list actions in terms of impact on air quality	Nichola Egan & Izzy Reeves
Finish first draft of AQAP	Nichola Egan & Izzy Reeves

Minutes

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Topic	Comments
IUDIC	COMMITTERILS

Behaviour change update (West Midlands Combined Authority)

- Behaviour change hub at Transport for West Midlands
- Three main strands to work being done:
 - Network mitigations. Identifying programmes of significant travel disruption, task forces come up with mitigation of different ways for communities to continue to travel sustainably during that disruption.
 - Travel demand management. Looking at whenever the transport network is disrupted, how can the demands of the community still be met. Mainly this revolves around communication and messaging that is specific to different areas and communities.
 - Behaviour change project delivery. Delivering activities and incentives across the region. Current priorities are: areas of travel disruption, areas of deprivation, workplace and education engagement, work with job seekers, work with large troop generators such as football clubs.
- In Sandwell, there is also the innovation team arm which works closely with WMCA and looks at research and new projects that are coming out that could help in this area.

Topic

Comments

- Air quality specific material will become part of moving on workshop for year 6's. WMCA are keen to get that into as many Sandwell schools within priority areas as possible.
- Run Transport Skills Academy which is about upskilling local authority officers workforce, apprentice or new people looking to enter the transport workforce.

Baseline

- Nitrogen dioxide is primarily from road traffic and is the pollutant that Sandwell has declared an air quality management area for.
 - Concentrations have been broadly reducing over time.
 - In Sandwell concentrations are a little bit higher than in the UK
 - There are three monitoring sites which have particularly high NO_2 concentrations. BP is the highest monitor, this is on Birmingham Road. When we adjust the concentration to reflect the nearest houses (rather than the street furniture that the diffusion tube is located on), only BP remains within 10% of 40 μ g/m³, the other two sites fall below 10% below 40 μ g/m³.
- \bullet Particulate matter PM_{10} and $PM_{2.5},$ is an increasing focus due to known health risks.
 - PM_{2.5} contributes to 5.9% of annual deaths from all causes in Sandwell. This is higher than West Midlands and England.
- BP monitoring site is still considered non-compliant for Defra purposes, it represents maybe 10 15 properties.
 - This site is not following the trend of a reduction from 2019 to 2023.
 The 2022 and 2023 concentrations are higher than 2019.
 - We think this is caused by a change in the road. At the start of the pandemic, parking used to be on the road and so the first lane of the dual carriageway couldn't be used by traffic. However, there was a chance to move the parking onto the pavement and therefore the first lane is now open for traffic so the exhaust emissions from the traffic are physically closer to the houses than they used to be.
- A very close correlation between how the air quality is improving in Birmingham and how the air quality is improving in Sandwell following the implementation of the Clean Air Zone in Birmingham.
- Borough wide Smoke Control Area where there were limitations on smoke emitted from chimneys have to be an exempt appliance and approved for use based on comparative cleanness. This came into force in 2024.
- 38 industrial permits from the Environment Agency and 98 local industrial permits. These cover a range of industries including food, power, metals, chemicals and waste disposal.
- Air quality is the largest environmental risk to public health in the UK. It can have particular impacts on vulnerable groups of society including children, the elderly and those with existing health conditions.
 - Sandwell has a very young population with significantly more children aged under 15 than England and West Midlands.
 - Higher hospital admission numbers for asthma in children and young people in Sandwell than in the country as a whole.
 - Less elderly people over the age of 65 than England and West Midlands.
- Sandwell has an above average level of deprivation considering indices of multiple deprivation, it is the 12th most deprived local authority in England.

Topic

Comments

- Deprivation is associated with poor air quality, air quality outcomes, rates associated with poor health, its associated with greater exposure.
 - This is important to consider when thinking about the measures to enact.
- Active travel up take in Sandwell is low compared to region and England.
- Policies surrounding transport, active travel, climate, domestic emissions, industrial emissions are all interlinked with air quality.

Discussion of baseline

• The 40 µg/m³ legal limit is for chronic exposure (I.e. over a year), there are other objectives set for short-term exposures which would be relevant to pedestrians on the footpath where the diffusion tube is located. These limits are considerably higher and are at no risk of exceedance at this monitoring site.

Baseline air quality assessment

- Referenced an automatic number plate recognition survey carried out for All Saints Way to understand a fleet breakdown for Sandwell based on vehicle type and euro classifications.
 - In general, the fleet in Sandwell is older than the national fleet
 - This is not surprising in the context of Sandwell being a deprived area, people are holding onto their cars for longer and not replacing them as frequently as other areas of the country.
 - Only a small proportion, but largely in line with the national fleet, of electric hybrids
- We looked at the type of vehicles using Birmingham Road based on data obtained from Viva City and from the Department for Transport traffic counts.
 - -80% cars in this area with some buses and some heavier vehicles.
 - However, buses and heavy good vehicles are more polluting than an individual car so even though they are a small proportion of the fleet on this road, they have an outsize contribution on emissions
- Looking at the breakdown of emissions for NO₂
 - Largest contribution is from diesel cars (22%)
 - 5% from petrol cars
 - Buses and HDV are larger than the fleet percentage, their contribution is proportionally more
 - Buses are 4% of emissions and 1% of fleet
 - HGVs are 8% of emission and 4.7% of fleet
 - Approximately 50% from background sources
 - · For background concentrations:
 - Road comprises 43%
 - Industry comprises 31%
 - Domestic comprises 8%
 - Other transport comprises 3%
 - · Remaining 31% was "Other"
 - Source apportionment for PM₁₀
 - 33% of road contribution from petrol cars
 - 26% of road contribution from diesel cars
 - 16% of road contribution from LGVs
 - 17% of road contribution from HGVs
 - Background contributions are assessed separately
 - 71% was "other"
- Source apportionment for PM_{2.5}

- 31% of road contribution from petrol cars
- 25% of road contribution from diesel cars
- 16% of road contribution from LGVs
- 18% of road contribution from HGVs
 - Background contributions are assessed separately
 - · 66% from "other"
 - There was a study of sources of PM_{2.5} at urban sites done by Birmingham University this year
 - Approximately 25% assigned to biomass burning – like log burners, bonfires
 - Approximately 22% assigned to roads exhaust emissions, brake, tyre and road wear
 - Approximately 23% was secondary pollution whereby other pollutants are emitted to the air and then particulate matter is formed as a secondary feature as a function of atmospheric chemistry
 - This shows that what we do to improve exhaust emissions to help reduce NO₂ will also improve particulate matter, but the bigger area of focus is biomass burning for particulate matter.
- When we're considering the measures to improve air quality, we need to consider the percentage of the total emissions that each vehicle type contributes
- A reduction of 21.8% NO_X emissions is required at monitor BP for Sandwell to be Defra compliant,
- Between 2022 and 2023, there was only a very small decrease in the amount of NO_2 at the site, if this rate of improvements were to continue, Sandwell would still not be compliant in 2030 at the end of the lifespan of this AQAP.
 - Therefore targeted measures are required as natural fleet turnover is not guaranteed to get the concentration below 36 μg/m³ by 2030

Priorities

- Priority is achieving compliance with the annual mean NO₂ objective within the AQMA by reducing the concentrations at the BP monitor
- Protecting the health of young people within the borough by measures targeted to schools in line with Sandwell's goal to be a UNICEF child friendly borough
- Driving behaviour change, particularly focusing on active travel
- Collaborating with the West Midlands Combined Authority because of the regional contribution to the air pollution
- \bullet Raising awareness and enforcement of the smoke control area as this is an effective way to bring down $PM_{2.5}$
- Working with Sandwell's industrial area/permitted installations on best practice and emission reductions
- Ensuring air quality is properly considered throughout the planning process

Discussion of priorities

- Driving behaviour change, particularly focusing on active travel
 - This is not as straightforward as it sounds as very few people can walk to work or all the way to where they need to go, often they make connections on public transport. You need confidence to ride a bike as well as regular maintenance.
 - There are important elements to active travel:

- Having safe infrastructure for active travel and connections to public transport
- Behaviour change getting people to change their behaviour and adopt that
- This will have co benefits for public health and climate
- The Bikeability programme is key for teaching children to cycle in schools
- There is a west midlands cycle hire scheme across the region which is good for connecting public transport

Targeted measures – measures focused on the exceeding monitoring site

- The reversal of TRO (Experimental) Order 2017 to revert back to on-road parking
 - Parking will be in the first lane, similar to the situation on the other side of the Rood End Road Roundabout. This will move the emissions source physically further away from residences.
- Cycle lane route 6 Oldbury to Galton Bridge Station
 - Encourage modal shift from cars to active travel. May also assist in creating distance between residences and emissions
- Cross City Bus Route Dudley Birmingham Druids Heath
 - Increased public transport capacity through Oldbury and Smethwick.
 Encourage modal shift from cars to public transport

Discussion of targeted measures

• Increasing the distance from the pollutant source (i.e. by moving cars further from the pavement) is important. Children experience worse emissions than an adult as they are shorter and closer to the emission source.

Strategic measures – preliminary long list

- Implementation and regional expansion of the 'Auntie Duck' educational engagement programme
 - $-\,\text{A}$ flagship educational programme spearheaded by Sandwell, launched in 2024
- Contribute to the introduction of an accredited education scheme for schools (tied to PH4 schools accreditation of WMCA framework)
 - Can build on the success of the Auntie Duck programme
 - Introduction of an accredited education scheme for secondary schools, Auntie Duck is focused on primary schools
- School Streets (tied to PPG14 school streets of WMCA framework)
 - Following pilot at Ferndale School, enforcement using cameras of the 'School Streets' initiative – temporary restriction on cars at pickup and drop off. Potential for expansion of locations?
 - Ferndale pilot ended up being a success in terms of road safety but not much difference was seen in terms of air quality as the road that was closed was a small, narrow cul-de-sac.
- Promotion of active and sustainable travel in schools
 - e.g. walking and cycling to school. Bikeability provision of bicycle skills /road safety teaching with primary school aged children
- Partnership working with NHS health professionals including school nurses and asthma specialists
 - To ensure that air pollution actions are directly tied to public health outcomes
- Partnership working on production and implementation of new Sandwell Cycling and Walking Infrastructure Plan to highlight opportunities for co-benefits and further leverage active travel campaigns

- Cycling and walking infrastructure plan is due to be updated this year, therefore there appears to be scope to include opportunities for air quality to be involved in conversations about prioritisation.
- Working towards the construction of new high quality cycle tracks and other cycle infrastructure in accord with West Midlands cycle network planning, including links between key developments and key services to promote mode shift from car.
 - Dedicated infrastructure is important for making people feel safe walking and cycling
- Promotion of walking and cycling via awareness campaigns with schools, businesses and communities, showcasing new and existing cycle paths and walkways, production of local maps, advice on how residents can use green spaces for active travel/canal paths to reduce pollution exposure.
- Partnership working with WMCA on the implementation of the West Midlands Air Quality Framework open route for communication and co-ordination between communication teams at the WMCA and local authorities to effectively co-ordinate and deliver air quality communications including via their centralised regional air quality website.
 - This is important as consistency in messaging across the West Midlands is important
- Pro-active implementation of the Smoke Control Order via engagement with relevant businesses and residents
- To raise awareness among businesses, residents and landlords of specific air quality issues and potential solutions associated with the use of log burners (e.g. ensure the correct fuels are used), and indoor and outdoor burning.
- Reduce fuel combustion by improving home energy efficiency / Support landlords and homeowners in accessing grants to retrofit / Support the transition from gas central heating.
 - Limited opportunity for local authority funding for this collaboration with planners/climate – promotion of national schemes?
- Pro-actively engage with permit holders to ensure compliance with the terms of their permits
- Increase co-working with the Environment Agency to enforce A1 permits.
- · Consult on new planning applications for impact on local air quality
 - Continue to consider air quality issues for new planning applications in line with the agreed planning protocol
- Provide air quality guidance to land/property developers prior to planning application submission
- Use the planning process to restrict the installation of new solid fuel and promote the transition from gas central heating
 - For discussion with planners
- Reduce parking for new developments where possible and, where local services are not available, ensure that transport needs are addressed and are improved in the local area.
 - For discussion with planners
- Use damage cost contributions /S106 funding to effectively improve the environment, air quality and green infrastructure around new schemes.
 - More flexible use of the money
- Work with existing public health channels and healthcare professionals to deliver consistent, targeted messaging to vulnerable residents

- · Work with trusted community advisors to deliver AQ messaging
 - e.g. Project working with Faith Centres across Sandwell to reduce local air pollution by encouraging behavioural change using low-cost air quality monitors and a web based AQ dashboard and AQ toolkit
- Bus Lane Enforcement
 - More cameras to enforce bus lanes to improve reliability of buses and make them a more attractive option. Any further information?
- Continuing upgrade of Sandwell's vehicle fleet to zero or low-emission vehicles
- Sufficient assessment/integration transport plans into AQ
 - For discussion? Transport hubs not just roads
- Creation of a taxi hire / private hire emissions policy
 - Licencing Officer raises issue of Wolverhampton licencing something to incentivise?
- Work with the highways team on Street Trees to understand the provision and replacement of trees along highways.
 - Need to understand whether this is reported upon/measurable
- Maintenance of the existing Air Quality council website to provide information on air quality matters
- A Clean Air Zone for Sandwell
 - This has been previously tabled and not taken forward previously.
 - There are likely to be significant barriers to implementation and it is unlikely that national funding would be available.
- Traffic management to improve air quality (speed limits? LTNs?)

Discussion of strategic measures – preliminary long list

- Ferndale was piloted as a school street with volunteers, Sandwell is now in a position to do camera enforcement for future school streets which would be more robust and less labour intensive.
- Once people have invested in a car, they can be reluctant to use active travel/cycling/public transport as they see it as "paying twice". Important to shift the mindset that we're trying to get people to stop using cars for very short journeys and either walk or cycle for these journeys and use the car for longer journeys when its more feasible. Or that a train could be more cost effective. Important to highlight that it's a "rather" than an "either or".
 - It's about getting people to use the transport options available to them in the most efficient and cost-effective way for them.
 - Important to work out what people's current choices are and why. May not just be cost, but also time based or based on safety, for example school children on buses.
- More controversial measures may be needed to really produce modal shift. To really reduce cars, LTNs are required, or changes in speed and school streets. It's necessary to physically reduce the amount of space for driving and make it quicker to cycle to places rather than to drive.

Results of polls

- Most favoured strategic measures
 - School streets
 - Promotion of active and sustainable travel in schools
 - Auntie Duck education programme
 - Traffic management measures to improve air quality and adjusting speed limits and low traffic neighbourhoods
 - Accredited education scheme for schools

- Least favourite strategic measures
 - Engaging with permit holders
 - Clean Air Zone for Sandwell
 - Creation of a taxi hire and private hire emissions policy
 - Continuing upgrade of Sandwell MBC's fleet
 - Reduce parking for new developments where possible

E3 Steering Group Meeting 3

Meeting Name	Subject	Attendees
Steering Group	Sandwell Air	Andy Thorpe (Sandwell Council), Becky Wilson
Meeting 3	Quality Action	(Sandwell Council), Cerys O'Shea (Transport for West
	Plan Steering	Midlands), David Gallagher (Transport for West
	Group Meeting 3	Midlands), Duncan Urquhart (AECOM), Ed Wicks
		(Living Streets), Elizabeth Stephens (Sandwell
Meeting Date	Time	Council), Elle Winning (West Midlands Combined
2 June 2025	10:00 – 12:00	Authority), Fiona Gee (Sandwell Council), Francesca
		Silcocks (Sandwell and West Birmingham Hospitals
		NHS Trust), Hayley Insley (Sandwell Council), Howard
		Ford (NHS Black Country ICB), Jake Thrush
		(Transport for West Midlands), Jenny Chidley
		(Sandwell Council), Luke Hadlow (Black Country
		Transport), Margaret Gardiner (Sandwell Council),
		Nicky Egan (AECOM), Paul Meadows (Sandwell
		Council), Phil Kingston (Sandwell Council), Shane
		Middleton (Sandwell Council), Sharon Lang (Sandwell
		Council), Stephen Brown (British Cycling), Suzy Street-
		Hall (Sandwell Council), Tina Okewale (Sandwell
		Council)

Agenda

- Introductions
- Birmingham Road, Oldbury update
- Midland Metropolitan University Hospital
- Shortlisting process and three key actions
- Short list of measures

- Open discussion
- · Any other business
- Next steps

Actions Summary

Action	Assigned to
Meeting minutes to be written and circulated	Izzy Reeves & Elizabeth Stephens
Sharing information from a presentation about school streets from Derby City Council	Jake Thrush
Finish first draft of AQAP	Nichola Egan & Izzy Reeves

Minutes

Topic	Comments
Birmingham	Previously it was understood this was the one remaining

Birmingham Road, Oldbury

- Previously it was understood this was the one remaining area of non-compliance in Sandwell as the concentration calculated at the closest receptors (houses on Birmingham Road) was $39.8 \mu g/m^3$ in 2023.
- However, there was a mistake in calculating the correction to account for the distance between the monitoring site and the closest houses to the road
- Therefore, concentrations were actually lower than originally thought in 2022 and 2023 and so the AQMA has been compliant in 2022 and 2023 and it looks likely to be compliant again in 2024.
- Defra advises that revocation of an AQMA can be considered following three years of compliance. For Sandwell, it has been agreed with Defra that the AQMA will remain in place for another two years and revoke it after five years of compliance.
- Once the AQMA has been revoked, an AQAP is no longer required and will be replaced with an Air Quality Strategy.

Midland Metropolitan University Hospital

- This is a specific area of concern partly due to the new Hospital opening and the ongoing major redevelopment in the area.
- A large number of relatively small developments are going ahead or are planned to go ahead, individually these would not be an issue but combining the potential cumulative effects and the revocation of the AQMA (which currently triggers more stringent criteria for carrying out an air quality assessment), there is a reasonable risk that it could lead to significant impacts.
- This is almost a case study in identifying an area of potential concern due to current or future issues.
- We want to lean into actions which relate to planning policy and planning guidance to ensure that Sandwell has the tools to recognise and mitigate potential impacts before they become an issue.
- Need to ensure that everything is appraised effectively individually, but that cumulative overlap of impacts is also considered.

Topic Comments

Short listing process

- Four aspects considered
 - Feasibility of carrying out the action, i.e. is there likely to be public support, or internal support, available funding sources.
 - Air quality impact, i.e. how large an impact could this measure have on concentrations of pollutants on a local basis, but also regionally.
 - Co-benefits, i.e. are there also benefits for public health, active travel, climate, economic impacts, potential social impacts.
 - High level assessment of cost, is the measure likely to cost less than £10,000, less than £100,000 or more than £100,000.
- Air quality was double rated compared to feasibility or co-benefits as this is the aim of the AQAP.
- Each aspect scored from 1 to 3, where 1 is low and 3 is high.

Key actions

- Three actions considered key actions. These are considered the most impactful actions and targeted.
- School Streets (score 24, cost <£100,000, timescale is unknown, owner is Sandwell Highways Team)
 - Action early engagement with Highways to ensure School Streets are implemented in the most beneficial way – in consultation with highways, planning, education and school representatives to ensure implementation is robust and evidence-based.
 - School Streets may achieve a 2% reduction in annual mean concentrations (but this is targeted at the times children are most likely to be exposed) and a 18% of parents reporting that they drive to school less often.
 - There is existing funding from the Department for Transport that the Sandwell Highways team are looking to implement.
 - This will be happening, therefore the feasibility is high.
 - This has a large impact on air quality as it has potential to touch upon many of our priority areas – health of children, active travel, public travel – by reducing overall traffic and idling near schools and disrupt overall journeys to incentivise non-car use, while also making roads safer in these specific locations.
 - Heavily linked to active travel as when the ability for parents to park at certain areas, it leads to the potential for them to rethink the journey to school and whether they could walk, cycle or take a bus instead. This may enhance opportunities to engage with stakeholders to increase access to walking and cycling as alternatives to private car travel.
- Active Travel Planning (score 20, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team)
 - Action increasing active travel uptake can be best achieved through Sandwell Council's commitment to maintaining a dedicated Active Travel Officer who is responsible for engaging with schools and businesses to develop sustainable commuting strategies, with progress being <u>recorded</u> and recognised through the Modeshift STARS platform.
 - Workplace and school travel plans must be prioritised to achieve improvements associated with active travel and lower pollution levels as they promote walking, cycling and public transport as viable alternatives to car use
 - Active travel delivers social, environmental, and health benefits while supporting national and local transport policies. It aligns with the

National Planning Policy Framework, Local Cycling and Walking Infrastructure Plans and Sandwell Council's transport and environmental strategies.

- Active travel plays an important role in reducing traffic congestion and improving air quality in an urban area like Sandwell.
- Pushing forward with the work that's currently being done through the Modeshift STARS platform on active travel planning, especially in schools.
- Benefits of targeting schools is ensuring young children consider active travel instead of just cars.
- Goal is for 75% of schools to have an active travel plan by 2030. This is not a goal of 100% as there are existing difficulties in terms of engagement with schools so 100% is considered unrealistic.
- Large crossover with the School Streets action.
- Responsibilities and reporting may be quantified to evidence the extent and magnitude of benefits that are achieved, and to identify risks and opportunities to enhance the outcomes.
- Produce Supplementary Planning Document for Air Quality (score 22, cost <£100,000, timescale is 2027, owner is Sandwell Pollution Control Team & Sandwell Planning Team)
 - Action the development and outline of an SPD that recognises the specific concerns and opportunities in Sandwell Council as reflected in the Local Plan and ensure there are no gaps or ambiguity in the development planning process.
 - WMCA are developing an overarching document to support development planning across the region, it is important that Sandwell understands and influences the regional position.
 - The SPD should specifically state the ambition of Sandwell Council to reduce emissions and achieve the best possible local air quality that prioritises reducing exposure for the most deprived and disengaged social groups.
 - Specific items to include may be:
 - Continuous improvement in air quality, going beyond compliance with current limits, i.e. once the AQMA is revoked;
 - Use the planning process to restrict the installation of new solid fuel and promote transition from gas central heating;
 - Reduce parking for new developments where possible and, where local services are not available, ensure that transport needs are addressed and improved in the local area.
 - The requirement for mitigation, and requirement and potential uses for damage costs.
 - The aim of the SPD is to ensure that new developments are appropriately assessed for air quality, even when there is no remaining air quality management area.

Discussion of key • School Streets actions — Feedba

— Feedback from the trail at Ferndale Primary School was that compliance wasn't very good. Initially the school were putting barriers out to prevent motorists from getting into the cul-de-sac but quickly the school realised they didn't have the resources to do that everyday.

- The restrictions were in place from 8:15 9:00 and 14:45 15:30 permanently throughout the 18 month trial period as other trials across the country said not to make the timings too long.
- Other schools that were initially in discussion about school streets were worried about putting barriers out as they didn't want to cause conflict with parents
- From December 2024, Sandwell Council were granted powers to enforce moving traffic contraventions including school streets.
- Therefore, now portable cameras can be put up to ensure enforcement and avoid the school having conflict with parents.
- Each school needs to be assessed individually as school streets may not be suitable for all schools based on diversion routes etc.
- Consideration will be given to residents on school streets with permits, encouraging teachers to arrive before the 45 minute window and making provision for children with disabilities who needed to drive to the school within those 45 minutes.
- Schools may be less resistant now as it will be done through proper enforcement so parents won't complain to the school.
- The aim is to push people to start walking, and not just park on the next street over.
- School streets enforced with cameras have been really effective in Derby.
- $-20\,-25$ schools have signed up to a scheme called Eco Stars which has nine key objectives including healthy living and transport. These schools could be considered as the next phase of roll out as they have already put themselves forward as having a commitment towards climate change and have transport as a key objective.
- There is a link to the school travel plans put together by Suzy.

Active Travel Planning

- Currently there are 16 schools signed off for approved travel plans already.
- Its important for the Active Travel Officer post to be made permanent as there is a lot of ongoing work for schools to do with the Modeshift STARS platform so the post needs to be sustained to ensure this work doesn't disappear and the schools are supported.
- Guidance for new schools includes cycle parking but can't ask all schools to retrofit as no funding source.
- There are grants available to lots of schools, if they are supported to access this funding.
- The Active Travel Officer can share information on grants or funding and sign post and support schools in finding this information.

Produce Supplementary Planning Document for Air Quality

- WMCA are in the process of looking at developing an air quality planning guidance document, the format of this document is TBC partly as they don't have any statutory planning requirements. They want to ensure they develop something that all local authorities could go on and adopt themselves.
- There is a planner from Sandwell set in the WMCA task group so this will keep the communication going.
- The purpose of this document will be to plug a gap and ensure there are no potential gaps particularly after the revocation of the AQMA

Topic Comments Other short-listed • CIL/S106 (score 16, cost <£100,000, timescale is unknown, owner is actions unknown) **Planning** Use of the Community Infrastructure Levy or Section 106 funding which is where money has been assigned due to the environmental costs of a project. - How can we properly raise those levies and how can we properly use those funds for the benefits more widely. • Planning application support and review (score 18, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team & Sandwell Planning Team) Enforcement of the SPD or the current situation before the SPD whereby air quality specialists, through the planning team, will be providing pre application advice on developments and also reviewing actual planning applications too. Ongoing at the moment and will also carry forward after the adoption of the new local plan and the planned adoption of the SPD Discussion of - There's a policy which is being considered to require health impact other short-listed assessments for developments, considering eight or nine criteria. This would require a guidance document of some sort - potentially a checklist actions approach at pre-application. This has potential to be tied in to the Planning proposed SPD for air quality. • Accredited education scheme for schools (score 18, cost <£100,000, Other short-listed timescale is unknown, owner is Sandwell Pollution Control Team and West actions -Children Midlands Combined Authority) Contribute to the introduction of an accredited education scheme for schools. Highly feasible as it's a WMCA measure. This complements the existing Auntie Duck programme. - This is for all schools, not just primary schools. - Sandwell can take a lead with the experience from Auntie Duck. • Auntie Duck (score 18, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team) - Implementation and regional expansion of the Auntie Duck educational engagement programme. Unlikely to achieve a significant, direct air quality impact, but it's a significant public engagement tool with a good response from existing investment. - Aim is to roll out Auntie Duck to all primary schools by end of 2030. Discussion of Accredited education scheme for schools other short-listed Programme aligned to the national curriculum which can be utilised by actions local authorities. Children Auntie Duck - Theres a lot of overlap between Auntie Duck and road safety and

actions - Active Travel

Other short-listed • Active travel promotion (score 20, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team)

Funding to get a mascot costume made.

 Promotion of walking and cycling via awareness campaigns with schools, businesses and communities, showcasing new and existing cycle paths and walkways, production of local maps and advice on how

- Aim is for Auntie Duck to be the face of air pollution for Sandwell.

school streets.

residents can use green space for active travel/canal paths to reduce pollution exposure.

- Minimal direct benefit, but essential enabling measure to complement other measures.
- Likely to include an annual awareness campaign.
- This will closely benefit from the continued employment of an active travel officer.
- Investment in new cycle infrastructure (score 9, cost >£100,000, timescale is unknown, owner is unknown)
 - Working towards construction of new high quality cycle tracks and other cycle infrastructure in accordance with West Midlands cycle network planning.
 - Contribute to modal shift, may also enable increasing distance between receptors and emissions to reduce exposure.
 - Optioneering study/SOBC is underway for implementing a cycle lane and associated road layout changes between Oldbury to Galton Bridge Station (Cycle Route 6) along Birmingham Road where the BP monitoring site is located.

Discussion of other short-listed actions - Active Travel

Active travel promotion

- Sandwell Stride weekly walks that have taken place for last 25 years or more, nothing stopping this being done for cycling.
- If you can get people cycling for leisure first, they may think about using it for commuting and utility purposes afterwards.

actions -Education

Other short-listed • Maintenance of the existing Air Quality council website to provide information on air quality matters (score 24, cost <£10,000, timescale is Engagement and 2025, owner is Sandwell Pollution Control Team)

- Website already exists and increasingly used as a primary source of information for residents to engage with local authority.
- · Work with trusted community advisors to deliver air quality messaging (score 16, cost <£100,000, timescale is unknown, owner is unknown)
 - Builds on successful work carried out with faith groups across Sandwell.
 - Public engagement and support is vital for successful intervention. It's the role of early engagement to build reassurance and trust within the wider community and encourage individual awareness and responsibility to support community ownership of proposed measures which may be perceived as restrictions, e.g. school streets, whilst also ensuring that valid concerns and risks are properly recognised and adopted at early design stages.
- Targeted public engagement (score 18, cost <£100,000, timescale is unknown, owner is Sandwell Pollution Control Team)
 - More general engagement on air quality, health and education with respect to air quality is also likely to be vital for the success of other measures.
 - For example, for school streets, for the parents who feel inconvenienced, how are we going to bring them round and let them know that the air quality outcomes are good for their health and their kids and how important it is.
- Health Partnership (score 18, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team & NHS)

Topic

Comments

- Partnership working with NHS health professionals including school nurses and asthma specialists.
- Partnership already in place but the exact nature of partnership may evolve.
- Implementation may include pollution alerts, education etc.
- Benefits likely to be primarily to human health rather than air quality unless there is a behaviour change element but this is still important.

Other short-listed actions – Fleet Technology and Behaviour

• Traffic management, e.g. speed restriction (score 11, cost >£100,000, timescale is 2025, owner is unknown)

- Desk study for All Saints Way indicates potential benefits but acknowledges it may not be suitable in all locations. Study shows a 10 mph reduction would achieve a small reduction of roadside NO $_2$ concentrations between 0.1 0.6 $\mu g/m^3$
- Speed reductions not always associated with air quality improvements because emissions follow a U-shaped curve so emissions are very high at very slow speeds and very high at very fast speeds.
- Start stop behaviour is a key factor for ai quality impacts.
- The reduction on All Saints Way improved air quality not only because of the speed, but also because of the smoothing out of the start stop accelerating behaviour
- Outcomes include encouraging active travel and benefits for road safety and climate.
- Speed reductions planned for other roads in Sandwell A457
 Birmingham Road, A456 Hagley Road West, A4041 Queslett Road and Londonderry Road and Londonderry Lane
- Council zero-emission fleet (score 16, cost <£100,000, timescale is unknown, owner is Sandwell Pollution Control Team)
 - Continuing upgrade of Sandwell Council vehicle fleet to zero or lowemission vehicles
 - Costs unlikely to be significantly greater than organic fleet turnover
 - In line with central government mandate for the end of sales of ICE
 - Air quality impact will be small as council vehicles make up only a small part of the fleet but may be an important demonstration of leading by example.
- Taxi/licensed vehicle policy (score 14, cost <£100,000, timescale is unknown, owner is unknown)
 - Small part of fleet breakdown but may be disproportionately significant due to their very high annual mileage (60 k -100 k per year) and tending to operate in urban areas with lower average speeds and congestion
 - Implementation should include engagement with neighbouring
 Districts (e.g. Wolverhampton) and WMCA due to cross-border
 movement within Black Country and if only Sandwell publishes a policy,
 will this push taxi drivers to simply register their vehicles elsewhere

Discussion of other short-listed actions – Fleet Behaviour and Technology

· Traffic management, e.g. speed restriction

— There were concerns that the 20 mph speed limits in Wales would worsen air quality but they found the opposite, in general, as on urban congested streets with a 30 mph speed limit, as soon as drivers have a chance they accelerate up to 30 mph, treating it as a "target". And when the speed limit reduces to 20 mph, that acceleration is removed which often resulted in improving emissions.

- Needs to be looked at on a case by case basis, looking at what the speed limit is currently and what the proposal is.
- The areas of potential greatest benefit is areas that are busy with rapid changes in speed, braking and accelerating.
- The 20 mph speed restrictions in Wales have also led to a large drop off in the number of casualties, falling to the lowest numbers since records began, additionally, the average person saved £50 off their car insurance.

Taxi/licensed vehicle policy

- This has been discussed across the West Midlands and the authorities couldn't all agree
- Theres no point making a policy if it just results in taxis registering elsewhere while still operating in Sandwell and not actually improving their vehicle emission standards
- · For now, this measure is not feasible and should be moved to the "Measures not taken forward" section and removed from the short list

actions - PM_{2.5}, **Smoke Control** and Domestic **Emissions**

Other short-listed • Solid fuel burning (score 15, cost <£100,000, timescale is unknown, owner is Sandwell Pollution Control Team)

- To raise awareness among businesses, residents and landlords of specific air quality issues and potential solutions associated with the use of log burners and indoor and outdoor burning.
- Sits alongside the smoke control area work but with a wider remit (e.g. including outdoor burning)
- Likely to primarily affect PM pollution, much less so for NO₂

• Smoke control (score 18, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team)

- Pro-active implementation of the Smoke Control Order via engagement with relevant businesses and residents.
- Implementation of the existing Council service
- Likely to primarily affect PM pollution, much less so for NO₂

Discussion of other short-listed actions – $PM_{2.5}$, Smoke Control and Domestic **Emissions**

Solid fuel burning

- Including bonfires
- Domestic emissions are primarily PM rather than NO_x
- Gas boilers are a large source of NO_X

actions -Regional Collaboration

Other short-listed • Partnership with WMCA on implementation of the West Midlands Air Quality Framework (score 16, cost <£100,000, timescale is 2025, owner is Sandwell Pollution Control Team and West Midlands Combined Authority)

- Sandwell is a part of the wider Black Country and WMCA region. which is recognised by the WMCA Air Quality Planning Guidance Task and Finish Group.
- Transboundary pollutants and cross-border travel contribute to the air quality across the whole region and cannot be managed independently at a strategic level. Therefore, cooperation and coordination of actions, measures and adoption/development of policy and guidance will achieve much greater benefit
- Primarily enables wider cooperation and benefits rather than being a stand-alone action. Open route for communication and coordination

Topic

Comments

between teams at the WMCA and local authorities to effectively coordinate and deliver air quality communications.

• Local transport plan (score 16, cost <£100,000, timescale is unknown, owner is unknown)

- Oversight and stakeholder engagement by Pollution Control Team could ensure co-benefits to air quality are realised
- Opportunity to understand how traffic growth and mode shift are being implemented at a strategic level to ensure consistency with the AQAP

Other short-listed actions – Permitted Installations

Other short-listed actions – • Industrial permitting (score 16, cost <£100,000, timescale is unknown, owner is Sandwell Pollution Control Team)

- Pro-actively engaging with permit holders to ensure compliance with terms of their permits for part B permits.
- Sandwell have a team in place to facilitate this but have a relatively small number of permits.

• A1 permitting (score 16, cost <£100,000, timescale is unknown, owner is Sandwell Pollution Control Team)

- Increase co-working with the Environment Agency to enforce A1 permits.
- Sandwell have a team in place to facilitate this but have a relatively small number of permits.

Measures not taken forward

· Low traffic neighbourhoods

- Expensive and likely to lack in public support.
- Traffic restriction is already being implemented in key areas at key times through School Streets.

· Clean air zone

- Very expensive and very little public support expected.
- $\boldsymbol{-}$ No mechanism to win national government funding due to current compliance.

· Home energy efficiency/insulation

 Domestic emissions are not a large source of emissions, unless specifically targeted to houses with solid fuel burning.

Green infrastructure

 Not viable as uncertain what mechanism would have been used to ensure that the plantings would be beneficial to air quality.

· Bus lane enforcement

- Unlikely to have any air quality impact, therefore not correct avenue for implementation.
- May help buses move more effectively throughout the network which may encourage more use of public transport.

Cycling and walking infrastructure plan

 Plans are expected to be adopted imminently therefore we cannot influence this.

Discussion of measures not taken forward

· Low traffic neighbourhoods

— Transport planning team are researching into this, but nothing planned vet.

Green infrastructure

- If you put trees in the wrong place, it may worsen air quality

Topic Comments

Discussion of next steps

- Annual meetings of the Steering Group during AQAP implementation
 - It's recommended that the steering group stays in touch throughout the implementation stage too to ensure things are going to plan, see if the situation has changed, ensure that things are progressing in right direction.
 - Annual or 6 monthly meetings proposed
 - There's a lot of overlap between what different teams are doing so the steering group is a good way of connecting and making the work more efficient and effective
- AECOM are writing up everything that has been discussed into the Defra template so the AQAP can be submitted to Defra and go to consultation
 - This document will also be circulated around the steering group.

Glossary of Terms

Abbreviation	Description
ANPR	Automatic Number Plate Recognition
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the local authority intends to achieve air quality limit values'
AQF	Air Quality Framework
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
AQO	Air Quality Objectives
AQS	Air Quality Strategy
ASR	Air quality Annual Status Report
BEV	Battery Electric Vehicle
CAZ	Clean Air Zone
CIL	Community Infrastructure Levy
CRSTS	City Region Sustainable Transport Settlements
Defra	Department for Environment, Food and Rural Affairs
DfT	Department for Transport

EFT	Emissions Factor Toolkit
HGV	Heavy Goods Vehicles
ICE	Internal Combustion Engine
IMD	Indices of Multiple Deprivation
LAQM	Local Air Quality Management
LAQM.TG22	Local Air Quality Management Technical Guidance 2022
LA	Local Authority
LCWIP	Local Cycling & Walking Infrastructure Plan
LGV	Light Goods Vehicles
LSOA	Lower Super Output Area
LTN	Low Traffic Neighbourhood
NHS	National Health Service
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
NPPF	National Planning Policy Framework
NTEM	National Trip End Model
OEP	Office for Environmental Protection
ORCS	On-Street Residential Charge point Scheme
OZEV	Office for Zero Emission Vehicles

O ₃	Ozone
PM ₁₀	Airborne particulate matter with an aerodynamic diameter of 10μm (micrometres or microns) or less
PM _{2.5}	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
S106	Section 106
SCWIP	Sandwell Cycling & Walking Infrastructure Plan
SMOTS	Sustainable Modes of Travel Strategy for Schools in Sandwell
SO ₂	Sulphur Dioxide
SPD	Supplementary Planning Document
TEMPro	Trip End Model Presentation Programme
TRO	Traffic Regulation Order
ULEV	Ultra-Low Emission Vehicle
WHO	World Health Organization
WMCA	West Midlands Combined Authority
ZEV	Zero Emission Vehicle

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