



Air Quality Strategy & Action Plan

November 2016

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1 - Introduction

This Air Quality Strategy & Action Plan replaces the preceding Southwark Council Air Quality Strategy and Air Quality Action Plan 2012-17. Since the last air quality action plan was developed there has been an increase understanding in respect of the impacts of Nitrogen Dioxide (NO₂), fine particles (PM₁₀) and very fine particles (PM_{2.5}) on the health of the population.

King's College London published "Understanding the Health Impacts of Air Pollution in London" in July 2015. This estimated the health burden from exposure to NO₂ and Particulate Matter (PM_{2.5}) in the London area. There are statistical uncertainties within the evidence so the result of the study gives approximate figures.

"52,500 life-years lost, equivalent to 3,500 deaths at typical ages for PM_{2.5}, 88,000 life-years lost, equivalent to 5,900 deaths at typical ages for NO₂ accounting for overlap with PM_{2.5} and together up to as much as 141,000 life-years lost, equivalent to 9,500 deaths at typical ages (assuming a 30% overlap between the effects of PM_{2.5} and NO₂ and comparing with a zero concentration of NO₂)."

A recent study has found that, for children living and going to school near main roads, their lung development is impaired by up to 10%. In some areas the concentrations of NO₂ are more than double the health-based national air quality objective.

Studies have shown that local air quality can be impacted by climate change and conversely climate change can impact local air quality. Pollutants impacting on climate change and local air quality share many common sources.

Southwark is committed to integrating our Air Quality and Climate Change policies to protect the health of all; including residents, visitors and those working in the borough, and to address associated issues and actions in a cost effective way.

As part of the UK National Air Quality Strategy, The Environment Act 1995 requires Local Authorities to have an Air Quality Strategy, to declare Air Quality Management Areas at locations where air quality does not meet the objective limits for certain pollutants, and, where an Air Quality Management Area has been declared, have a consulted and approved Air Quality Action Plan to reduce the relevant atmospheric pollutant/s within that area so that, at some point in the future, the area will meet the national air quality objective limits.

Poor air quality has numerous negative health effects proven by scientific study. These include impairing the development of lung function in infants and young children and negatively impacting on those who; have compromised lung function such as Chronic Obstructive Pulmonary Disorder; asthma; high blood pressure; and, are at risk of stroke or heart attack. Also some airborne particles are carcinogenic. Poor air quality disproportionately affects the young, old, ill and poor. In Southwark cardiovascular disease and cancer account for more than half of local deaths and drugs to treat respiratory illness are one of the most significant areas of expenditure for the local Primary Care Trust. Several academic studies show that there is a spike in emergency admissions to hospital several days after episodes of high levels of atmospheric pollution.

Poor air quality has an impact on biodiversity and buildings. Sensitive plants, including commercial food plant species are unable to thrive and fish and insect populations, and the species that rely on them in the biosphere, dwindle. The external surfaces of buildings become soiled by particles and soot and may be unduly weathered by aggressive chemicals caused by pollutants dissolving in rainwater as it falls.

The economic cost of the damage caused by poor air quality is very significant and that cost falls disproportionately on those who live and spend their time in atmospherically polluted areas and on the National Health Service. Poor air quality directly causes over 9,400 early deaths in London every year. Central London and areas adjacent to the capital's main road network continue to not comply with the air quality objectives, despite all time limits for compliance having elapsed.

The national government has been criticised for its lack of action with regard to air quality and is currently under threat of legal action in both national and European courts due to the continued lack of compliance of many UK towns, cities and conurbations with the air quality objective limits. S.48 and S.52 of the Localism Act 2011 make provision for government ministers to require public authorities, such as local and regional government, to make payments in respect of any sanction levied against them for non-compliance with the EU Directives.

Sources of atmospheric pollution in Southwark

The main atmospheric pollutants of concern in Southwark are Nitrogen Dioxide (NO₂) and Particulates, both PM₁₀ (breathable) & PM_{2.5} (able to pass into blood stream). Locally the main source of both pollutants is road transport emissions, with large scale combustion plants and heating systems, construction site plant and domestic heating emissions also significantly contributing to poor air quality.

Due to air quality objectives being exceeded for Nitrogen Dioxide in a large portion of the borough and Particulates in some key locations, Southwark has declared an Air Quality Management Area. The following information can be found in Appendices 3 & 4 attached to this document:

- map of the Air Quality Management Area,
- map of the modelled emissions of Nitrogen Dioxide
- map of the modelled emissions of Particulates (PM₁₀ & PM_{2.5}), and
- the source apportionment (what is causing the air pollution)

2 – Air Quality Strategy

The Air Quality Strategy

The Southwark Air Quality Strategy aims to:

- 1) Ensure compliance with the following legislation:-
 - EU Directives 1996/62/EC, 1999/30/EC, 2000/69/EC, 2002/3/EC, 2004/107/EC and 2008/50/EC
 - The Environment Act 1995
 - The Environmental Protection Act 1990
 - The Clean Air Act 1993
 - The Air Quality Standards Regulations 2010 & 2011
- 2) Comply with the GLA London Local Air Quality Management Framework by:-
 - Having a valid and relevant Air Quality Strategy
 - Regularly reviewing the area covered by our Air Quality Management Area
 - Having an Air Quality Action Plan containing actions on:-
 - ✓ Air quality management within Southwark
 - ✓ Reducing emissions from buildings
 - ✓ Increasing public awareness of local air quality & related public health issues
 - ✓ Reducing emissions from road traffic
 - ✓ Reducing carbon emissions that contribute to poor local air quality
 - ✓ Regulation within the borough using enforcement powers to protect local air quality
 - Delivering the Air Quality Action Plan
 - Monitoring local air quality by maintaining our monitoring network and improving it where and when resources permit
 - Providing an Annual Status Report giving the detail of the results of local air quality monitoring and our progress against the Air Quality Action Plan
 - Providing an Annual Status Summary Report to accompany the Annual Status Report
- 3) Support the GLA's air quality objectives by:-
 - Retaining Southwark's Cleaner Air Borough Status
 - Supporting, where possible and appropriate, the Mayor of London's air quality policies, objectives and actions
 - Bidding for funds from the Mayor's Air Quality Fund, Defra's Air Quality Fund and any other organisation offering relevant bidding opportunities to resource air quality improvement actions and projects within Southwark
 - Working with the Mayor of London's office to promote good environmental awareness and practice to business, commerce, road users and the general public

- Being mindful of the content of the London Plan and relevant Special Planning Guidance
 - Lobbying for clean air for Londoners
- 4) Support action on local Public Health objectives by:-
- Maintaining local air quality as a local public health priority
 - Ensuring a cohesive suite of policies by co-ordinating local air quality policy with other service areas in the production of relevant local policy documents, for example:-
 - ✓ Local Development Framework – The Southwark Plan & Core Strategy
 - ✓ Local planning policies and special planning guidance
 - ✓ Transport Plan
 - ✓ Kerbside Strategy
 - ✓ Sustainability Strategy
 - ✓ Carbon Reduction Action Plan
 - ✓ Housing & Modernisation programme
 - ✓ Tree Planting, Parks & Green Space Strategies

3 – Strategic Air Quality Action Plan

Strategic Aims	Objectives	Action number
Management of Air Quality	Monitor local air quality	1.1 - 1.3
	Comply with the requirements of the London Local Air Quality Management Framework	1.4 - 1.6
	Devise a communication plan for air quality	1.7
Reduce Emissions from Buildings	Provide technical guidance on air quality assessment & mitigation	2.1
	Use planning process to reduce emissions from new and refurbished developments and to implement the highest environmental standards for emissions to air	2.2
	Raise awareness regarding fuel economy	2.3
Public Health and Awareness	Encourage active travel including walking & cycling	3.1 - 3.4
	Publicise air-text air quality forecasts and cleaner routes for active travel	3.5
	Ensure web-based information and guidance on air quality is available and up to date	3.7
	Run communication campaigns on personal and business behaviour change to improve air quality	3.8
	Work with clinicians to ensure information on the health impact of air quality is passed to relevant patients e.g. those with COPD, asthma, heart conditions, at risk of stroke, etc.	3.9
Cleaner Transport	Promote the provision of electric and alternative fuels infrastructure	4.1
	Promote freight consolidation	4.2 - 4.6
	Encourage logistics fleets operation in the borough to get FORS scheme Silver accreditation	4.4
	Reduce emissions from Southwark vehicle fleets	4.7 & 4.8
	Ensure Southwark Council's travel plan is up to date	4.9 & 4.10
	Lobby to improve the public transport infrastructure in Southwark	4.11, 4.15 & 4.16
	Lobby to reduce emissions from buses & taxis	4.13 & 4.14
	Support the extension of ULEZ to south circular	4.15
	Take part in anti-idling campaigns	4.17

Strategic Aims	Objectives	Action number
Reducing Carbon Emissions	Promote reduced fuel/energy consumption from buildings	5.1 - 5.7
	Improve the energy efficiency of Buildings managed by Southwark Council	5.8 - 5.12
	Install renewable energy technologies to Southwark Council buildings	5.13
	Use planning policy to reduce local atmospheric emissions	5.14 - 5.16
	Increase the no. of council homes using renewable energy from SELCHP	5.17
Regulation & Enforcement	Actively discourage & prevent the burning of unauthorised fuels in Southwark's Smoke Control Zone	6.1 & 6.2
	Ensure all Part B EPA'90 processes in the borough maintain compliance with their permits	6.3
	Ensure construction sites are regulated to the highest standard	6.4 - 6.6
	Discourage and prevent bonfires and open burning	6.8
Support the GLA Air Quality Aims	Take air quality improvement actions within designated GLA Air Quality Focus Areas	7.1
	Retain Southwark's Cleaner Air Borough status	7.2
	Support the extension of the ULEZ to the south circular	7.3
	Support the GLA's planning policy	7.4
	Support and lobby for cleaner air for Londoners	7.6
Support Public Health	Include local air quality in Southwark's Joint Strategic Needs Assessment	8.1
	Retain local air quality as a public health priority	8.2
	Ensure local air quality is considered in all relevant policy documents	8.3
	Devise a local cascade for poor air quality alerts	8.4
	Bid for funds from the Mayor's Air Quality Action Fund and other sources to improve local air quality and thus public health	8.5

Appendix 1 – Air Quality Action Plan Workstreams

Section 1 – Management of Air Quality

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team
1 – 1	Monitoring Air Quality	Maintain the two continuous Air Quality Monitoring Stations in the Borough	Ensure that the Air Quality Monitoring Stations at the Elephant & Castle and the Old Kent Road are maintained, serviced and calibrated to current guidance	90 per cent data capture.	To inform air quality policy	Environment & Leisure	Environmental Protection
1 – 2		Maintain the Nitrogen Dioxide Diffusion Tube survey in the Borough	Ensure that the Nitrogen Dioxide Diffusion tube monitoring is maintained in accordance with current guidance	The collection and deployment of diffusion tubes is carried out on 100% of the dates set by Defra.	To inform air quality policy	Environment & Leisure	Environmental Protection
				100% of the tubes collected analysed. Results to be regularly displayed on the Southwark web pages	To inform air quality policy	Environment & Leisure	Environmental Protection

Section 1 – Management of Air Quality

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
1 – 3	Monitoring Quality Air	Review the use of low - cost sensor technology to enable roadside monitoring in order to underpin the air quality modelling in the Borough	Use of low-cost sensors on area surveys for proposed road projects	Pilot 3 road projects to use low – cost sensor technology.	To inform air quality policy	Chief Executive	Transport Policy
1 – 4	London Local Air Quality Management Framework	Prepare and produce all London Local Air Quality Management Framework reports as required	Ensure that all reports required by the London Local Air Quality Management Framework are produced	Reports produced and submitted to Defra and GLA when required	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
1 – 5		Respond to all appropriate air quality consultations	Review all air quality consultation requests and respond to them where appropriate.	100% of the appropriate air quality consultation reports are submitted by the consultation deadline	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
1- 6		Ensure that the air quality action plan is current	Review the Authority's local air quality action plan to ensure it is clear and up to date.	Review Air Quality Action Plan annually	NO ₂ & PM	Environment & Leisure	Environmental Protection
1 – 7		Have a communication plan for air quality	Devise a communication plan for air quality	Review the air quality communication every quarter	NO ₂ , PM & CO ₂	Chief Executive	Environmental Protection & Comms

Section 2- Reduce Emissions

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
2 – 1	Local Air Quality Assessments	Ensure that local air quality technical guidance provides the latest advice on air quality assessment and mitigation	Devise air quality technical guidance	Review technical guidance annually	NO ₂ & PM	Environment & Leisure	Environmental Protection
2 – 2	Environmental Standards	Planning applications assessed to ensure that all applications will meet the aim of measure 2-1	Assessment of all relevant planning applications	100% of relevant planning applications assessed	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
2 – 3	Increase the awareness of residents, businesses & visitors of need to reduce emissions to atmosphere	To promote the reduction of total emissions to ensure the protection of public health and the natural environment	Raise awareness to reduce emissions to the atmosphere to protect public health and the local environment	Initiate annual, season-relevant campaign on fuel type and fuel economy	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection & Comms

Section 3- Public Health Education and Awareness

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
3 – 1	Encourage residents and those working in the borough to walk and cycle	Encourage children to walk or cycle to school	Promote School Travel Plans & increase the number of schools attaining Silver and Gold accreditation each year until 2020	Increase the number of schools with Silver accreditation each year	NO ₂ , PM & CO ₂	Environment & Leisure	Sustainable Travel & Road Safety
				Increase the number of schools with Gold accreditation each year	NO ₂ , PM & CO ₂	Environment & Leisure	Sustainable Travel & Road Safety
Encourage Southwark staff to walk or cycle in the Borough		Promote the Authority's Travel Plan encouraging staff to walk or cycle in the Borough & provide access to cycles for staff	Increase the number of staff walking or cycling each year	NO ₂ , PM & CO ₂	Chief Executive	Facilities Management	
Encourage employees of businesses in Southwark to commute by foot or cycle		Encourage a employees of businesses in Southwark walk or cycle through the promotion of business specific Travel Plans	The result of the annual survey shows an increase in the number of people walking or cycling for their commute	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy	
Encourage residents to walk or cycle in the Borough		Promote active travel through relevant public health work streams and services including physical activity and healthy weight	Measures to increase active travel included in all relevant new public health strategies, action plans and events	NO ₂ , PM & CO ₂	Children and Adults Services	Public Health	

Section 3- Public Health Education and Awareness

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
3 – 5	Increase public awareness of air quality forecasting and avoidance of high levels of pollutants	Public aware of how to access airTEXT and Walk it apps	Promotion of availability of airTEXT and Walkit apps	Plan for awareness raising programme to be devised by April 2018	Protect individual health	Children and Adults Services	Public Health
3 – 6	Health Intelligence	Actions to reduce the health impact of poor air quality are evidence based and in line with national and regional policy	Public Health to provide expertise and intelligence relating to the health impacts of poor air quality in the Borough	Public Health involved in planning all air quality projects and initiatives.	Protect individual health	Children and Adults Services	Public Health
3 – 7	Web information on air quality	Southwark website has comprehensive information and appropriate guidance on air quality issues	Keep web-based information accurate and up to date	Annual review of air quality webpages content	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection & Public Health
3 – 8	Increase awareness of air quality issues	Public and businesses aware of the impact of their actions on air quality	Communication campaign on personal and business behaviour change to improve air quality	Initiate annual season-relevant campaign	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection, Public Health & Comms

Section 3- Public Health Education and Awareness

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team
3 – 9	Protect vulnerable groups from poor air quality	Ensure vulnerable persons get comprehensive advice on reducing personal exposure to atmospheric pollutants	Work with clinicians via Breathlessness Group of CCG to ensure GPs have access to appropriate prompts, advice and information for use in surgery	GPs have access to appropriate prompts, advice and information for use in surgery	Protect individual health	Environment & Leisure	Environmental Protection & Public Health

Section 4 – Cleaner Transport

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
4 – 1	Promote the use of alternative fuels	Increase the use of the alternative fuel infrastructure	Provision of alternative fuel infrastructure information on Southwark web-pages	To provide information and review it annually	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 2	Reducing Emissions from Delivery and Servicing	Develop a freight consolidation solution for Southwark	Carry out a joint feasibility study with Lambeth, Wandsworth and Croydon	Feasibility study to be completed by March 2017	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
			Providing the feasibility study is positive, implement the preferred solution	Monitor the development of any preferred solution	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
				Evaluate the preferred freight consolidation solution by March 2019	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
4 – 3		All Southwark Council suppliers to use the proposed freight consolidation solution where possible	Ensure in-contract documentation that all Southwark Council suppliers are required to use any implemented consolidation solution	100% of suppliers, that can use the approved freight consolidation solution, using it	NO ₂ , PM & CO ₂	Finance & Governance	Procurement

Section 4 – Cleaner Transport

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
4 – 4	Reducing Emissions from Delivery and Servicing	All non consolidation solution suppliers to the authority with a large fleet to join the Fleet Operator Recognition Scheme (FORS) and obtain Silver accreditation as a minimum	Within the contract documentation that all suppliers of large fleet are required to be Silver accreditation of the Fleet Operator Recognition Scheme (FORS) to be achieved within six months of the contract being signed.	100% of all suppliers to the authority	NO ₂ , PM & CO ₂	Finance & Governance	Procurement
4 – 5		To support sustainable logistical measures in the north of the Borough.	Work with TfL to promote the combination and rationalisation of deliveries using low & zero emission vehicles and local distribution hubs for final stage delivery in the Bankside, Borough and London Bridge areas	Reduced mileage delivery	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 6		Virtual Loading bays and priority loading by ultra-low emission delivery vehicles	Explore if virtual loading bays can be implemented within the Borough	Produce a feasibility report identifying where virtual loading bays could work	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
	Implement feasible virtual loading bays in the borough	NO ₂ , PM & CO ₂		Chief Executive	Transport Policy		

Section 4 – Cleaner Transport

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
4 – 7	Reducing Emissions from Delivery and Servicing	Reduce Southwark fleet emissions by reducing total mileage	Undertake an annual survey of the mileage of the fleet	Reduction in business mileage year on year.	NO ₂ , PM & CO ₂	Environment & Leisure	Fleet Services
			Produce mileage and efficiency guidance for services	Guidance to be produced by end of 2017	NO ₂ , PM & CO ₂	Environment & Leisure	Fleet Services
			Install telematics on commercial fleet	Telematics installed on 100% of fleet by 2020	NO ₂ , PM & CO ₂	Environment & Leisure	Fleet Services
4 – 8		Smarter Driver Training for drivers of all fleets used by the Authority	Introduce Smarter Driver training requirement for all fleet drivers	All current staff to undertake Smarter Driver training by December 2018	NO ₂ , PM & CO ₂	Environment & Leisure	Fleet Services
				All new staff to receive the training within six months of commencement of their employment	PM & CO ₂	Environment & Leisure	Fleet Services
4 – 9	Travel Planning	Maintain an up to date Council Travel Plan consistent with the aims of the air quality action plan	Undertake survey of staff travel arrangements	Undertake a staff survey in respect of the Authority's Travel Plan bi-annually	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy

Section 4 – Cleaner Transport

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
4 – 10	Travel Planning	Maintain an up to date Council Travel Plan which is consistent with the aims of the air quality action plan	Review the Authority's Travel Plan	Undertake a bi-annual review of the Authority's Travel Plan	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 11	Reducing emissions from Taxies & Private Hire Vehicles	Lobby TfL to promote Smarter Driver Training for drivers of all taxis and private hire vehicles.	Lobby the GLA and TfL to introduce a requirement that all PCO licences include an Smarter Driver training element	Smarter Driver Training element is introduced and GLA / TfL have produced a target for existing and new drivers to be trained.	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 12	Reducing vehicle emissions	Work with TfL to reduce emissions from buses in the borough	Engage with TfL and GLA to promote the use of low emission buses on all routes in the Borough	Increase percentage of routes with low emission vehicles year on year	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 13		Work with TfL and other London Boroughs to review the extension of the Ultra-Low Emission Zone to the South Circular	Engage with TfL and GLA on the potential air quality benefits of extending the ULEZ to the south circular	Annual review	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy

Section 4 – Cleaner Transport

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
4 – 14	Reducing Vehicle Emissions	Work with the appropriate industries to reduce fine particle emissions from tyre, brake and clutch components	Engage with the appropriate universities and industries to reduce fine particle emissions from tyre, brake and clutch components	3 articles published in trade or academic press	PM	Environment & Leisure	Environmental Protection
4 – 15	Increase public transport facilities in the Borough	To increase public transport links in the Borough	Attendance at all relevant meetings with TfL, maintain record of discussions/minutes of meetings	Increased no. of buses, bus routes and underground stations. 100% of meeting minutes recorded	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 16	Extension of the Bakerloo Line in the Borough	To extend Bakerloo line to Lewisham	Attendance at all relevant meetings with TfL, maintain record of discussions/minutes of meetings	Increased no. of underground stations. 100% of meeting minutes recorded	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
4 – 17	Anti-idling campaign	Vehicle compliance with the Road Traffic Act anti idling provisions	Ensure all sectors of the population in the Borough have awareness of the anti-idling legislation	Annual campaign	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection & Comms
4 – 18	Emissions of vehicles	Enforcement of the provisions of the Road Traffic Act	Use of the vehicle idling powers	Train all JET officers in Road Traffic Act anti-idling enforcement	NO ₂ , PM & CO ₂	Environment & Leisure	Joint Enforcement Teams

Section 5 – Reducing Carbon

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team
5 – 1	Reduction of carbon emissions	Require developers to contribute to reducing atmospheric emissions	Achieve minimum 35% regulated carbon emissions reduction on Part L of 2013 Building regulations on all new major developments	100% of relevant major planning applications meet policy target	PM & CO ₂	Chief Executive	Development Management
5 – 2			Any of the 35% minimum CO ₂ reduction not achieved on-site to be secured through S106 for the “Green Fund” (carbon off-setting projects) for the equivalent remaining regulated carbon emission savings	100% of major planning applications not meeting the 35% minimum CO ₂ reduction on-site to address remaining emissions through off-setting funds secured through S106	PM & CO ₂	Chief Executive	Development Management
5 – 3			New homes on all major developments to be zero carbon as per London Plan policy 5.2, achieved either on-site or via financial contributions for off-setting	100% of money secured allocated to carbon off-setting projects	PM & CO ₂	Chief Executive	Development Management
5 – 4			All major developments to achieve Air Quality Neutral Standards onsite	100% of major developments to achieve Air Quality Neutral standards	NO ₂ , PM & CO ₂	Chief Executive	Development Management

Section 5 – Reducing Carbon

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
5 – 5	Reduction of carbon emissions	Require developers to contribute to reducing atmospheric emissions	Where Air Quality Neutral standards not achieved on-site, off-setting funds secured through section 106 which meets the equivalent air quality neutral standard	100% of major planning applications not meeting the on-site Air Quality Neutral standard secure remaining requirement through off-setting funds through S106	NO ₂ , PM & CO ₂	Chief Executive	Development Management
5 – 6			Commit and spend all offsetting funds on carbon offsetting projects	All monies secured for carbon off-setting purposes is monitored and reported	PM & CO ₂	Chief Executive	Development Management
5 – 7	Improve the energy efficiency in Southwark homes	Promote reduced energy consumption and bills	Promote low cost energy efficiency measures	2 articles per year promoting energy reduction measures	NO ₂ , PM & CO ₂	Housing	Major projects
5 – 8		Maximise funding streams available to improve energy efficiency	Bid for funding where funding will be beneficial to energy efficiency and fit in with the overall council objectives	Report on funding received and utilised	NO ₂ & CO ₂	Housing	Major Projects
5 – 9		Install ultra-low NO _x boilers in council & TMO housing	Install ultra-low NO ₂ boilers when boilers are replaced in council and TMO housing	Install 1600 ultra-low NO ₂ boilers/year	NO ₂ & CO ₂	Housing	Major Projects

Section 5 – Reducing Carbon

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team
5 – 10	Improve the energy efficiency in Southwark homes	Develop a strategy for communal boiler upgrades and renewals within council housing	Implement the strategy for communal boiler upgrades and renewals	Strategy approval and subsequent progress	NO ₂ & CO ₂	Housing	Major Projects
5 – 11		Monitor the effect of energy efficiency improvements in the Council's social housing planned renewal programme	Implement improvement programme in the social housing planned works programme	Baseline SAP score in 2017 /18 and monitor the changes through the investment programme annually	NO ₂ & CO ₂	Housing	Major Projects
5 – 12	Promoting the use of renewable energy and minimise the energy demand of Southwark estate	Reorganise the use of space in operational council buildings to reduce overall energy demand	Improve the use of Council buildings making them more sustainable, flexible, cost and space efficient	Baseline study in 2017 /18 and monitor the changes through the new Modernise Strategy annually	NO ₂ & CO ₂	Chief Executive	Facilities Management
5 – 13		Be aware of the energy used and generated by the Authority's operational buildings	Publish online information of the energy used and any generated by the Authority's operational buildings	Web based information available to public	N / A	Environment & Leisure	Service Development

Section 5 – Reducing Carbon

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team
5 – 14	Promote the use of renewable energy and minimise the energy demand of Southwark Housing	Explore the opportunity to install renewable energy technologies in Southwark housing (e.g. solar panels)	Through extra funding, explore the opportunity of installing renewable energy technologies and retrofitting insulation and energy efficiency measures	Explore all available opportunities	NO ₂ , PM & CO ₂	Housing	Major Projects
5 – 15	Ensuring new developments minimise their impact on local air quality and climate change	Develop robust planning policies on air quality	Develop robust planning policies in the New Southwark Plan (NSP) and Old Kent Road Area Action Plan (OKR AAP)	Adopt policies on air quality in NSP and OKR AAP	NO ₂ , PM & CO ₂	Chief Executive	Planning Policy
5 - 16		Highlight design guidance for best practice in reducing emissions to air	Develop a revised Sustainable Design and Construction SPD that includes up to date guidance on improving air quality	Revised Sustainable Design and Construction SPD is adopted	NO ₂ , PM & CO ₂	Chief Executive	Planning Policy
5 - 16	Increase number of Southwark Council Homes using renewable energy	Increase no of Southwark Council Homes using renewable energy from SELCHP	Connect more dwellings to SELCHP	Increase no. of homes connected to SELCHP by 50%	NO ₂ , PM & CO ₂	Housing	Major Projects

Section 6 – Regulation

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
6 - 1	Emissions from developments and premises	Enforcement of the Clean Air Acts.	Ensure that all retail premises selling wood and coal are aware that the whole of the Borough is a Smoke Control Area	An annual enforcement campaign	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
6 - 2	Smoke Control Zone	Discourage burning of logs and house coal in the Borough	A communication campaign during the Autumn to highlight pollution caused by using non-smokeless fuels	Campaign each year until 2022	PM & CO ₂	Environment & Leisure	Environmental Protection & Comms
6 - 3	Emissions from industrial premises known to emit emissions to air	Regulation of EPA Part B processes	All IPPC premises in the Borough inspected in accordance with their risk assessment	Annual inspection of 100% of all relevant premises	NO ₂ , PM & CO ₂	Environment & Leisure	Environment Protection
6 - 4	Emissions from development	Emissions from all construction work is minimised	Ensure that all strategic and major developments are aware of the Authority's Technical Guidance for Demolition & Construction	100% of all major & strategic planning applications made aware	NO ₂ & PM	Environment & Leisure	Environmental Protection

Section 6 – Regulation

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
6 - 5	Emissions from construction equipment	Ensure all Non Road Mobile Machinery complies with the GLA SPG construction criteria	Ensure that all strategic & major construction sites are on the on-line NRMM register	100% of all strategic and major construction sites on on-line NRMM register	NO ₂ & PM	Environment & Leisure	Environmental Protection
6 - 6			All strategic and major construction sites are inspected for NRMM compliance	100% compliance of all major & strategic construction sites	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
6 - 7	Emissions from developments and premises	Enforcement of the provisions of the Environment Protection and Clean Air Acts	Apply the provisions of Clean Air Act 1993 S.14 (chimney height.) to appropriate developments	100% of all relevant developments	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
6 - 8			Investigate reports of bonfires & open burning.	90% of reports investigated	NO ₂ , PM & CO ₂	Environment & Leisure	Noise & Nuisance
6 - 9			Ensure that there is public awareness that the Borough is a smoke control area	Annual communication campaign	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection & Comms

Section 7 – Support the GLA Air Quality Aims

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
7 - 1	GLA Air Quality Focus Areas	Target improvement of the air quality in the GLA Air Quality Focus Areas	Ensure that local air quality in the GLA Air Quality Focus Areas is monitored	100% of the Focus Areas are monitored	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
			Devise an air quality improvement project for each GLA Air Quality Focus Area	100% of the Focus Areas have an air quality improvement project	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection & Transport Policy
			Ensure that air quality projects in the GLA Air Quality Focus Areas are assessed	100% of projects are assessed	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
			Ensure that local air quality projects in the GLA Air Quality Focus Areas are adequately evaluated.	100% of the projects produce evaluation reports	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy
7 - 2	Cleaner Air Borough	Retain Cleaner Air Borough Status	Take all actions required by GLA to retain Cleaner Air Borough	Cleaner Air Borough status retained	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
7 - 3	The extension of the ULEZ	Support the GLA and TfL to extend the ULEZ to the South Circular	Respond to all consultations	100 % of responses made within consultation period	NO ₂ , PM & CO ₂	Chief Executive	Transport Policy

Section 7 – Support the GLA Air Quality Aims

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations/ benefit	Directorate	Delivered by Lead Service Area / Team
7 - 4	Support GLA planning policy with regard to air quality	Ensure full consideration of GLA air quality planning policy changes	Ensure GLA air quality policy is considered in all planning decisions	100% of all applications	NO ₂ , PM & CO ₂	Chief Executive	Development Management
7 - 5	Mayor's Air Quality Action Fund	Identify projects suitable for Mayor's Air Quality funding	Review the Mayor's Air Quality funding guidance	Maximise All funding opportunities to deliver projects to improve local air quality	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
7 - 6	Clean air for Londoners	Work with the GLA & TfL and other organisations towards meeting the national air quality objectives	Review all external opportunities to participate in air quality improvement projects	All appropriate external opportunities are maximised	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection

Section 8 – Support Public Health Objectives

Action Number	Theme / Aim	Objective	Action	Target	Expected emissions/ concentrations benefit	Directorate	Delivered by Lead Service Area / Team
8 - 1	Joint Strategic Needs Assessment	The JSNA includes Air Quality and has up to date information on health impacts	Draft the air quality section of the JSNA	JSNA section is prepared by April 2017	NO ₂ , PM & CO ₂	Children and Adults Services	Public Health
			Produce the air quality section of the JSNA	JSNA section is ratified by June 2017	NO ₂ , PM & CO ₂	Children and Adults Services	Public Health
			Review the air quality section of the JSNA bi-annually	JSNA air quality section updated bi-annually	NO ₂ , PM & CO ₂	Children and Adults Services	Public Health
8 - 2	Air Quality & Public Health	Retain local air quality as a public health priority	Provide up to date information in connection with air quality	Provide updates to the lead member and Health and Well-being board	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection
8 - 3	Embedding Air Quality Policy	Ensure that Air Quality is considered within all relevant complementary council policy developments	All relevant new policies to incorporate air quality aims	All new policies include relevant air quality aims	NO ₂ , PM & CO ₂	Chief Executive	Relevant operational service areas
8 - 4	Air Quality Alerts	Provide air quality alert information to Southwark's vulnerable persons and those caring for them	Staff cascade for air quality alerts and advice	Implement by April 2017	NO ₂ & PM	Environment & Leisure	Environmental Protection
8 - 5	Air Quality Projects in the Borough	To identify external funding and deliver projects to improve air quality in Borough	Review all external funding opportunities to fund air quality improvement projects	All appropriate external funding opportunities are maximised	NO ₂ , PM & CO ₂	Environment & Leisure	Environmental Protection, Public Health & Transport Policy

Technical Appendices

The appendices are in a separate document accessible on the Southwark website at www.southwark.gov.uk/airquality . Below is the list of technical appendices available.

Appendix 1 – Air Quality Objectives

Appendix 2 – Health Impacts of Air Pollution

Appendix 3 – Air Quality Monitoring & Modelling Results

Appendix 4 – Emission Sources / Source Apportionment

Appendix 5 – Glossary

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