

Objectives

- -To raise air quality as a big issue in Norwood
- -To understand the risks around poor air quality
- To consider potential solutions
- –To agree a way forward:
 - Projects
 - Campaigns
 - Policies including Norwood Green Town Plan

Why?





Air pollution in London costs our Healthcare systems as much as £3.7billion a year



802 Schools

802 out of 3261 nurseries, schools and colleges in London are within 150 metres of nitrogen dioxide pollution levels that exceeds the EU legal limit

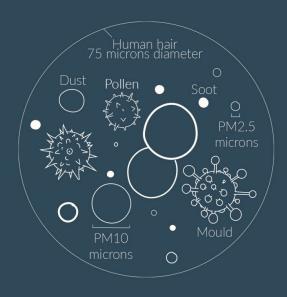


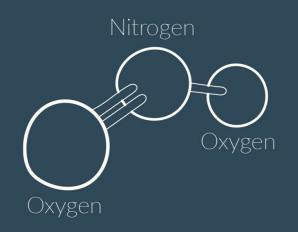
9,400 Deaths

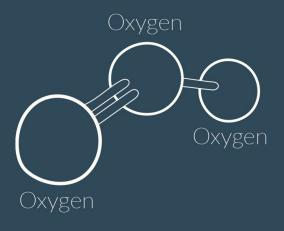
Air Pollution contributes to 9,400 premature deaths in London

What are the types of air pollution?

We're most concerned about three types of air pollutant that cause environmental and health problems:







Particulate matter (PMs). The most dangerous tiny particles of air pollution worsen heart and lung disease.

Nitrogen dioxide (NO2). High levels of NO2 can cause a flare-up of asthma or symptoms such as coughing and difficulty breathing.

Ground level ozone (O3). Ground level ozone can irritates the eyes, nose and throat.

Impacts of Air Pollution on Children

Asthma

According to Asthma UK:

- -Children and young adults with asthma are more at risk from the effects of pollution because they have faster breathing rates and their lungs are still developing.
- Children living in areas with high pollution are more likely to have reduced lung function as adults.
- Long-term exposure to high concentrations of air pollution may cause asthma in children.

Impacts of Air Pollution on Children: Friends of the Earth

Lung development

- -Children aged between 8-10 years old, who lived in highly polluted parts of cities, had up to 10% less lung capacity than normal.
- Dr Ian Mudway, a leading expert on the air pollution impacts on child health, suggests this reduced lung function may never be reversed.

Impacts of Air Pollution on Children: Friends of the Earth

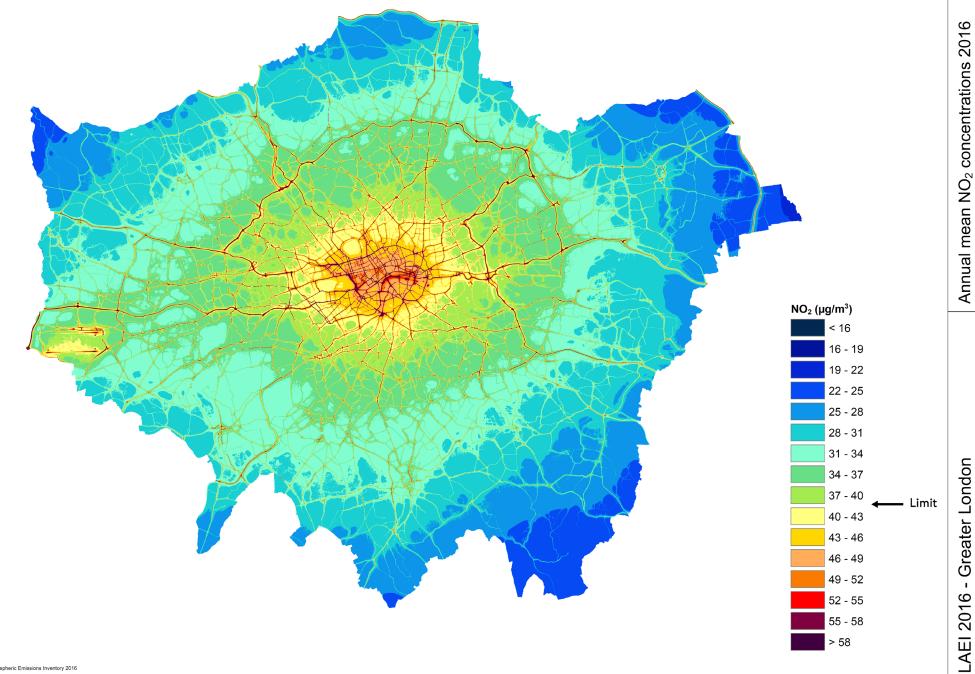
Brain development

 Air pollution exposure in pregnant women was found to harm brain development and contribute to behavioral and cognitive problems later in childhood.

Impacts of Air Pollution on Children: Friends of the Earth

Obesity and diabetes

-It's possible that air pollution can be a catalyst for obesity and diabetes in young children. A recent study of children aged 8 to 15 who were exposed to higher levels of air pollution were also found to have a lower insulin sensitivity. As well as a decline in beta-cell function and a higher body mass index (BMI) at age 18.





Air Quality Monitoring – May 2019 The legal level is 40 mg/m3*

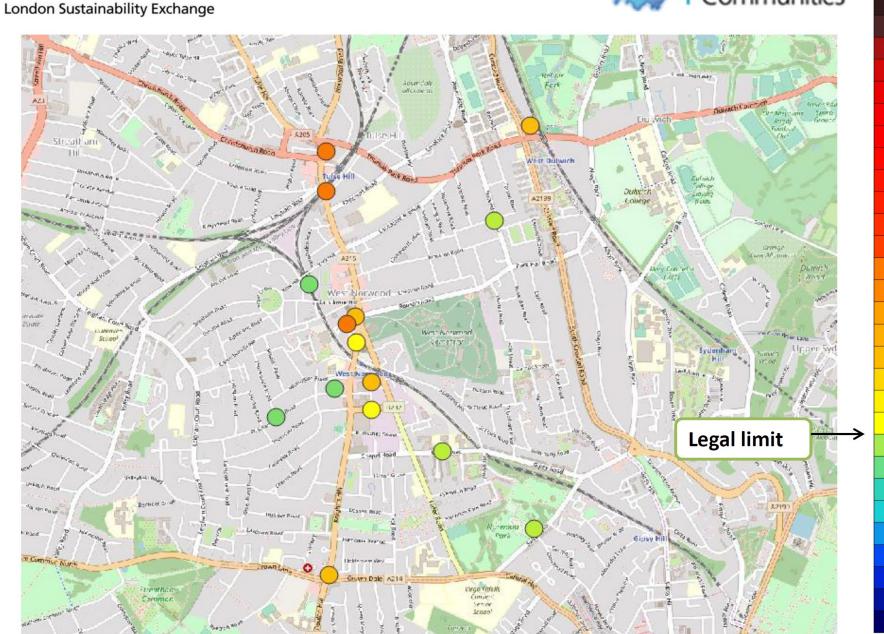
	Sample	Exposu	re Data				μg NO ₂
Location	Number	Date On	Date Off	Time (hr.)	mg/m³ *	ppb *	on tube
Norwood Park, 51°25'29" N 0°5'32"W	1349775	08/05/2019	22/05/2019	336.00	30.59	15.97	0.75
Knights Hill, 51.4325321 0.103826	1349776	08/05/2019	22/05/2019	335.92	46.00	24.01	1.12
The Hope +51.430902 -0.102872	<mark>1349777</mark>	<mark>08/05/2019</mark>	<mark>22/05/2019</mark>	<mark>336.00</mark>	<mark>52.37</mark>	<mark>27.34</mark>	<mark>1.28</mark>
Bus Garage (Ernest Anvenue) +51.429731 -0.102872	<mark>1349778</mark>	<mark>08/05/2019</mark>	<mark>22/05/2019</mark>	<mark>336.00</mark>	<mark>47.79</mark>	<mark>24.94</mark>	<mark>1.17</mark>
Gipsy Road (Park Academy) +51.427996 -0.098230	1349779	08/05/2019	22/05/2019	336.00	31.90	16.65	0.78
Julians Farm School +51.430619 -0.105287	1349780	08/05/2019	22/05/2019	336.00	27.68	14.45	0.68
Julians Farm Road/ Thurleston Road +51.429430 -0.109135	1349781	08/05/2019	22/05/2019	336.00	28.91	15.09	0.71
Crown Point +51.422800 -0.105623	<mark>1349782</mark>	<mark>08/05/2019</mark>	<mark>08/05/2019</mark>	<mark>337.75</mark>	<mark>55.12</mark>	<mark>28.77</mark>	<mark>1.35</mark>
West Dulwich Shops 51.437644 -0.094827	1349783	09/05/2019	22/05/2019	322.32	36.84	19.23	0.86
South Circular/Croxted Road 51.441621 -0.092453	<mark>1349784</mark>	<mark>09/05/2019</mark>	<mark>22/05/2019</mark>	<mark>322.20</mark>	<mark>56.62</mark>	<mark>29.55</mark>	<mark>1.33</mark>
Norwood Road/Robson Road 51°26'1"N 0°6'14"W	<mark>1349785</mark>	<mark>08/05/2019</mark>	<mark>22/05/2019</mark>	<mark>337.75</mark>	<mark>57.28</mark>	<mark>29.89</mark>	<mark>1.41</mark>
Landsowne Hill 51°26'6"N 0°6'25"W	1349772	08/05/2019	22/05/2019	336.00	29.36	15.32	0.72
Lancaster Ave/Norwood Road 51°26'0"N 0°6'16"W	<mark>1349773</mark>	<mark>08/05/2019</mark>	<mark>22/05/2019</mark>	<mark>337.42</mark>	<mark>68.14</mark>	<mark>35.56</mark>	<mark>1.67</mark>
Tulse Hill - Avenue Park Road 51°26'20"N 0°6'21"W	<mark>1349774</mark>	<mark>08/05/2019</mark>	<mark>22/05/2019</mark>	<mark>336.00</mark>	<mark>63.68</mark>	<mark>33.23</mark>	<mark>1.56</mark>
Tulse Hill - Perran Road 51°26'26"N 0°6'21"W	<mark>1349786</mark>	08/05/2019	22/05/2019	<mark>336.00</mark>	<mark>65.40</mark>	<mark>34.13</mark>	<mark>1.60</mark>

NORWOOD PLANNING ASSEMBLY

^{*}This should be the annual average – our experiment provides a two week snapshot and more monitoring is required to be more accurate







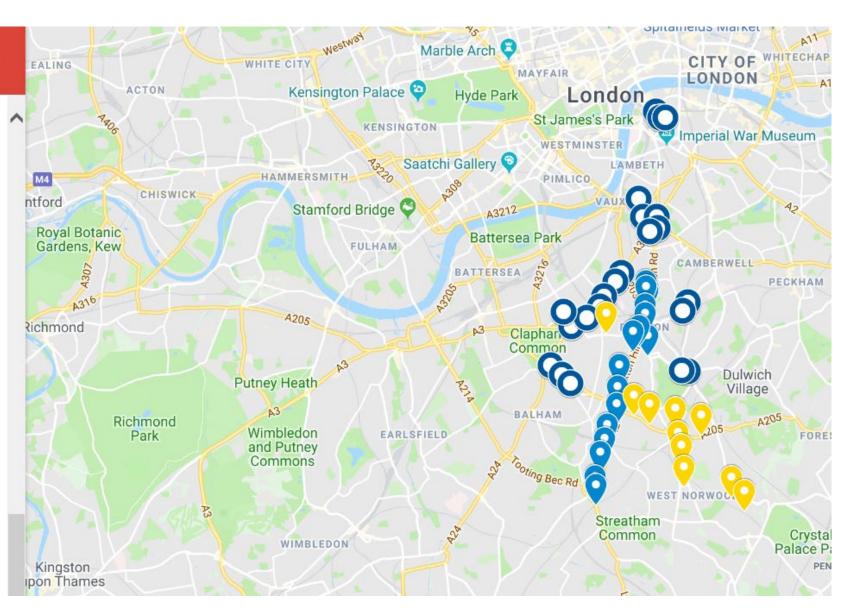
NORWOOD PLANNING
ASSEMBLY

Local planning by local people

LB Lambeth Air Quality Monitoring - 2018

Diffusion tube locations Q :

- V DT3T Z43A Streatnam Hill (bus stop opp...
- DT32 Clapham High Street (Clapham Lib...
- O DT33 Clapham, Old Town, by Francis Be...
- DT34 South Circular between 3-5 Cave...
- O DT35 South Circular Hawkesworth Hou...
- DT36 South Circular outside Poynders...
- DT37 South Circular Christchurch Rd/R...
- DT38 South Circular Fenstanton Primary
- 💡 DT39 South Circular Tulse Hill/Norwoo...
- DT40 South Circular Lords Close
- DT41 Norwood Road/York Hill
- OT42 380 Norwood Road (O'Girasol Café)
- DT43 West Norwood bus station
- OT44 223-225 Gipsy Road
- 💡 DT45 Gipsy Hill Station



LB Lambeth Air Quality Monitoring - 2018

									Annual	Mean NO	?					
Site ID	Valid data capture for monitoring period % ^a	capture	Jan	Feb	March	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Annual mean – raw data ^c	Annual mean – bias adjusted
DT38	N/A	91.6%	58.32	68.53	60.21	61.47	68.88	55.67	68.82	55.02	tube missing	67.69	50.38	58.00	61.18	56.90
DT39	N/A	100%	59.12	64.58	55.55	50.46	57.64	51.20	61.69	50.51	56.21	60.04	57.90	53.69	56.55	52.59
DT40	N/A	100%	66.71	67.59	57.70	56.46	59.09	57.34	56.93	42.26	59.54	60.17	55.65	56.71	58.01	53.95
DT41	N/A	100%	53.33	71.03	58.61	58.42	56.25	48.77	55.73	45.78	50.04	60.25	57.73	49.88	55.48	51.60
DT42	N/A	100%	65.68	66.10	60.47	66.14	64.56	52.92	62.04	46.94	55.65	58.18	54.17	59.23	59.34	55.19
DT43	N/A	100%	47.23	54.13	46.42	47.92	40.42	34.53	38.16	41.39	41.68	40.34	48.64	46.53	43.95	40.87
DT44	N/A	100%	41.24	45.66	34.99	36.65	41.44	37.41	38.32	28.89	37.17	42.02	31.14	40.82	37.98	35.32
DT45	N/A	83.3%	tube missing	40.19	33.41	<0.51	60.42	29.35	31.83	26.54	28.36	39.49	41.75	36.78	33.51	31.17
										tube	tube			tube		
DT46	IN/A	75%	45.18	54.94	46.91	49.69	44.92	30.61	66.04	missing	missing	45.69	49.05	missing	48.11	44./5
DT47	N/A	75%	0.40	118.94	56.10	34.96	65.66	55.67	30.50	47.00	46.93	tube missing	55.64	53.36	40.53	37.69
DT48	N/A	91.6%	59.02	47.37	52.40	59.55	38.72	37.84	49.96	52.30	56.55	57.91	56.11	tube missing	51.61	48.00

Our Speakers

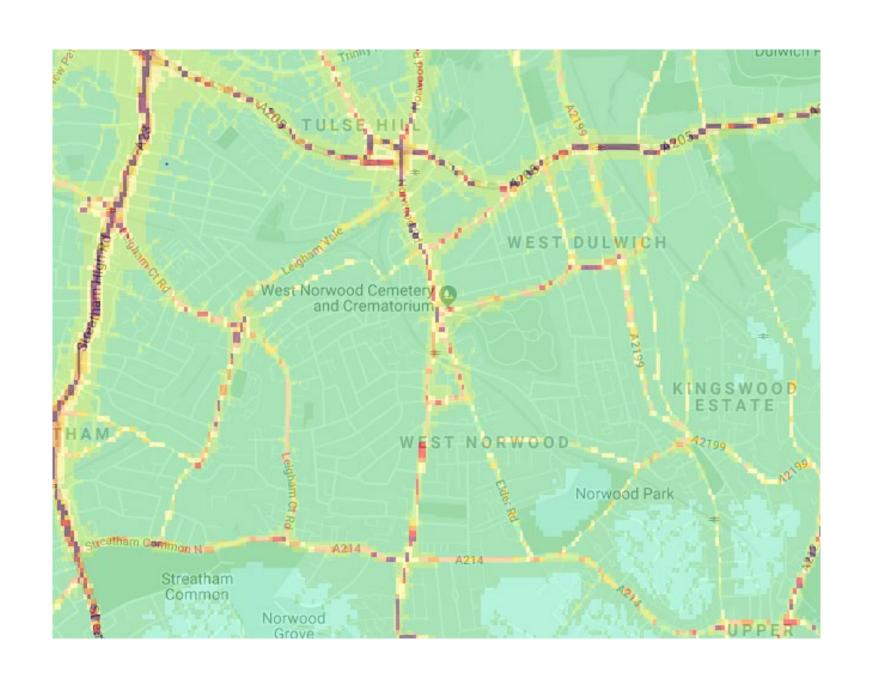
- -Florence Eshalomi, AM, Chair Transport Committee, GLA
- -Cllr Jackie Meldrum, Knights Hill Ward, Deputy Cabinet Member for Residents Services
- -Cllr Pete Elliott, Gipsy Hill Ward, The Green Party
- -Thomas Denhof, Chair, Open Orchard

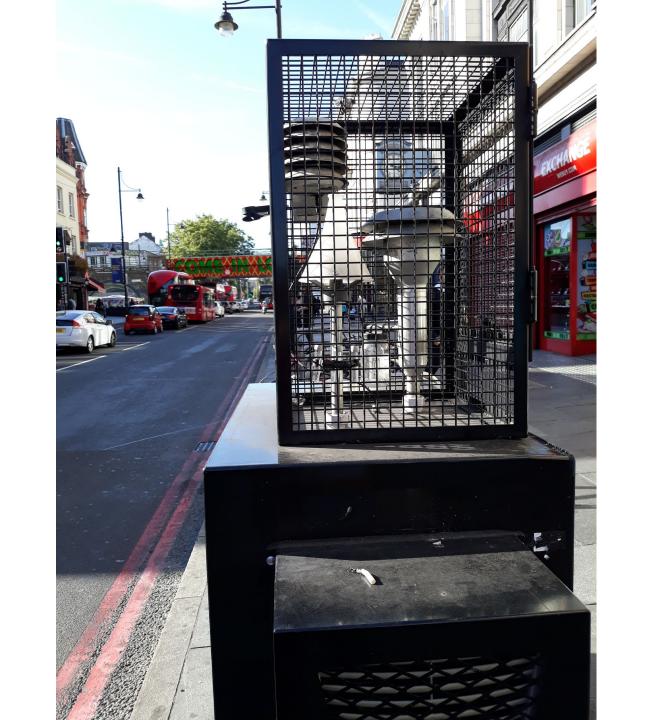




Air Quality in West Norwood

Cllr Jackie Meldrum 24/9/19







<u>Lambeth Air Quality Annual Status Report for 2018</u> <u>Date of publication: 3 July 2019</u>



This report provides a detailed overview of air quality in Lambeth during 2018. It has been produced to meet the requirements of the London Local Air Quality Management statutory process¹.

For more information regarding this report, please contact sustainability@lambeth.gov.uk.

Online Air Quality Guide

- 1. How do we assess air quality?
- 2. Why do we measure air quality?
- 3. What are the main causes of pollution?
- 4. What are we doing to improve air quality?
- 5. What can I do to help improve air quality in my local area?
- 6. Where can I get more information?

Sign up: love.lambeth.gov.uk/sign-up-for-updates/ Climate action, cleaner transport and sustainability for Lambeth Council.



Cleaner Streets in Lambeth

Cllr Pete Elliott

24 September 2019

Contents

- Current Situation in Lambeth Monitoring
- Future Monitoring
- Reporting
- Key Contributions
 - Developments
 - Air Travel
 - Domestic Burning of Fuel
 - ► Traffic
- Climate Emergency
- What Next?
- Safer Streets in West Norwood

Current Situation in Lambeth Monitoring

- Information is sketchy with only 3 Live monitoring stations across the whole of the borough:
 - Brixton Road
 - Bondway Interchange
 - Streatham (Background monitoring only)
- The monitoring stations measure:
 - Nitrogen Dioxide
 - PM10 particles
 - Sulphur Dioxide (Bondway Interchange Only)
- Also 50 diffusion tubes across the borough which have limited value (not live and only measure Nitrogen Dioxide)
- Currently no PM2.5 is being monitored in the borough potentially the most dangerous due to its size.











Annual Air Quality Report for Lambeth - Brixton Road (22/09/2018 to 22/09/2019)

Air Quality Objective values

Objective	Result	Objective Achieved?
Nitrogen Dioxide		
200 ug/m3 as a 1 hour mean, not to be exceeded more than 18 times a year	0	YES
40 ug/m3 as an annual mean	63	NO
PM10 Particulate		
40 ug/m3 as an annual mean	26	YES
50 ug/m3 as a 24 hour mean, not to be exceeded more than 35 times a year	10	YES

Capture Rates

Pollutant	Valid Data	>75% Threshold?
Nitrogen Dioxide	39 %	NO
PM10 Particulate	49 %	NO

Air Quality Index values

Microsoft OLE DB Provider for ODBC Drivers error '80040e07'

[Microsoft][ODBC SQL Server Driver][SQL Server]Error converting data type varchar to smalldatetime.

/weeklysitereport/asrstats.asp, line 242

Pollutant	Air Pollution Band	Index Value	Number of days
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Annual Air Quality Report for Lambeth - Bondway Interchange (22/09/2018 to 22/09/2019)

Air Quality Objective values

Objective	Result	Objective Achieved?
Nitrogen Dioxide		,
200 ug/m3 as a 1 hour mean, not to be exceeded more than 18 times a year	0	YES
40 ug/m3 as an annual mean	50	NO
PM10 Particulate		,
40 ug/m3 as an annual mean	40	YES
50 ug/m3 as a 24 hour mean, not to be exceeded more than 35 times a year	87	NO
Sulphur Dioxide		
125 ug/m3 as a 24 hour mean, not to be exceeded more than 3 times a year	0	YES
266 ug/m3 as a 15 minute mean, not to be exceeded more than 35 times a year	0	YES
350 ug/m3 as a 1 hour mean, not to be exceeded more than 24 times a year	0	YES

Capture Rates

Pollutant	Valid Data	>75% Threshold?
Nitrogen Dioxide	98 %	YES
PM10 Particulate	98 %	YES
Sulphur Dioxide	98 %	YES

Air Quality Index values

Microsoft OLE DB Provider for ODBC Drivers error '80040e07'

[Microsoft][ODBC SQL Server Driver][SQL Server]Error converting data type varchar to smalldatetime.

/weeklysitereport/asrstats.asp, line 242

Pollutant	Air Pollution Band	Index Value	Number of days
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Monitoring in the Future

- ▶ In October 2018 air monitors were requested for West Norwood
- ► The response from Lambeth's Cabinet Member was that 2 x £5000 monitors were being trialled
- As of last week we were still awaiting results of the trial and approval for use
- Council officers have requested locations for us to select for the new monitors
- Still no dates for roll out but the wards whose request was submitted on time should be prioritised. Gipsy Hill was definitely one of those.
- ► These monitors will monitor PM2.5 and won't come too soon as the success of any measures the council take, can not be verified.

Air Pollution Reporting

- Kings College's Air Quality Network website comprehensive pan-London reporting
- Lambeth Council produce an annual report which has limited value due to the limited monitoring.
- Annual Report for 2018 is dated July 2019 but has not been published formally to the council.
- ▶ No ongoing involvement of the public or opposition councillors
- ► The action plan is nowhere near bold enough and the report is nowhere near critical enough of the limited actions taken.

Key Contributors to Air Pollution - Developments





Key Contributors to Air Pollution - Air Traffic

Heathrow Consultation Hub

Welcome to the Heathrow Airport Consultation Hub. This site will help you locate and participate in consultations that may interest or affect you. Our consultations are an opportunity to have your say to help shape any emerging proposals which we may be developing, so that we may take account of your feedback.



Heathrow Airport Expansion Consultation - now closed

The Airport Expansion Consultation ran from 18th June until 13th September 2019 and gave you the opportunity to provide feedback on Heathrow's proposals for the future layout of the airport, including the new runway and other airport infrastructure such as terminals and road access.

It gave people the chance to have their say on plans to manage the environmental impacts of expansion, including a proposed Heathrow Ultra Low Emissions Zone, Heathrow Vehicle Access Charge and a proposed 6.5-hour ban on scheduled night flights.

→ <u>Visit website</u>

Key Contributors to Air Pollution

- Domestic burning of coal, oil, wood etc.



Key Contributors to Air Pollution - Road Traffic



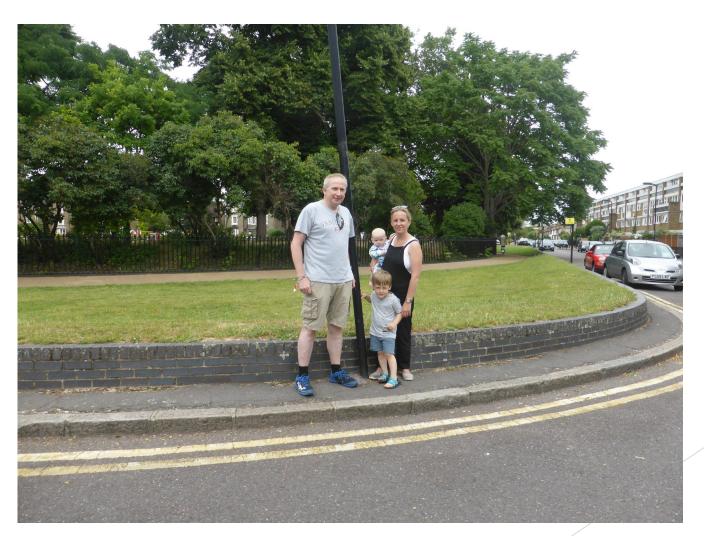
Climate Emergency Declared

- Contributors to Air Pollution are also massive contributors to our climate crisis
 - Developments
 - ► Air Traffic
 - Domestic burning of coal etc.
 - ► Road Traffic
- Tough and bold action on these areas will help us address the climate emergency

What next?

- ▶ Be bold and get involved with climate and air pollution groups e.g. XR and Mums for Lungs
- ► Lobby your MPs and Councillors to do more especially focusing on the areas that I've mentioned
- Support the school streets scheme (closing roads down at school start and finish times)
- Come along to The Hope in West Norwood on 24 October for a discussion on restricting through traffic in the northern part of Gipsy Hill Ward

Could West Norwood turn into something like De Beauvoir Town, Hackney



Could West Norwood turn into something like De Beauvoir Town, Hackney









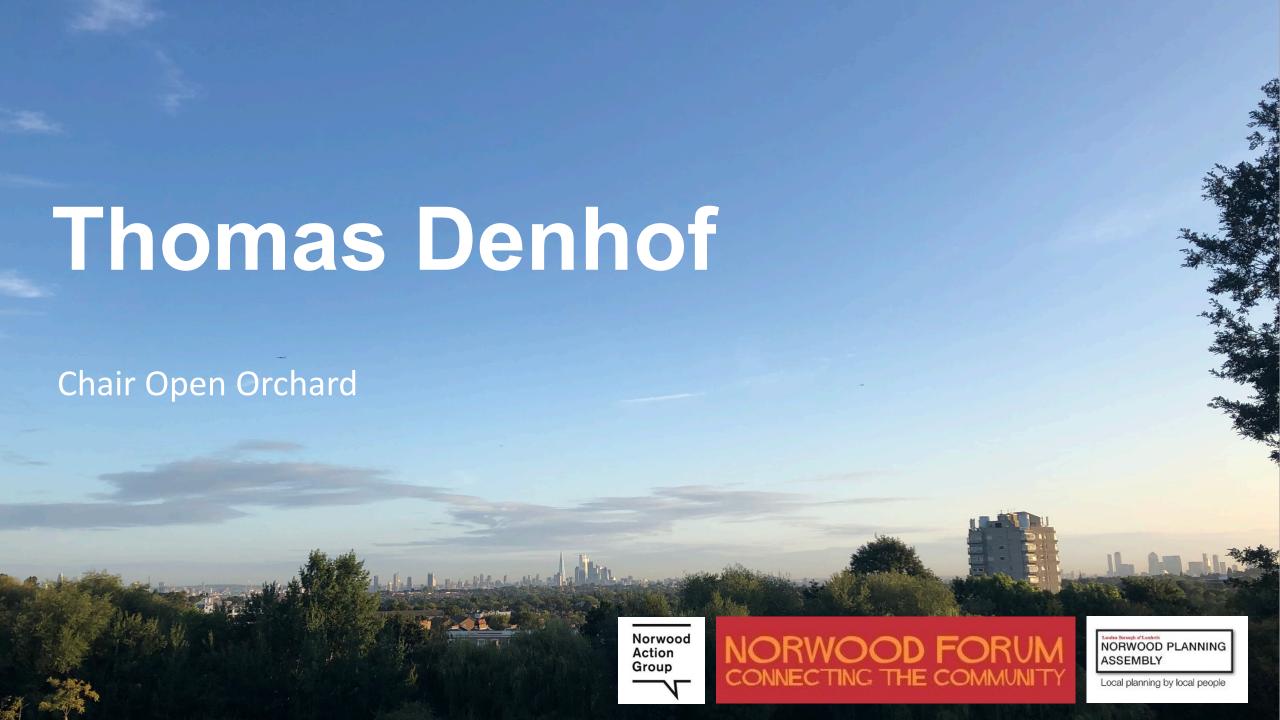




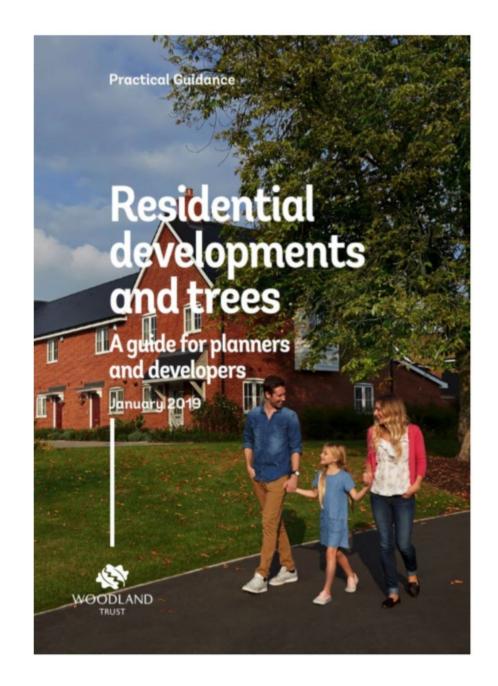


Could West Norwood turn into something like De Beauvoir Town, Hackney









Improved air quality

In the UK alone, air pollution is estimated to cost around 29,000 lives a year and is expected to reduce the life expectancy of everyone in the UK by six months on average, at a cost of £16 billion per year.

Trees are effective at mitigating the effects of air pollution by trapping particulate matter on leaf surfaces and directly absorbing gasses.

Trees can remove particulate matter (PM), gases like oxides of nitrogen, sulphur dioxide and ground level ozone.



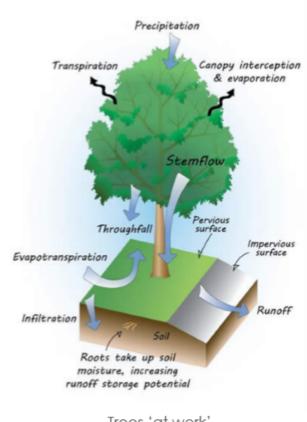
The consequences of 'Business as usual'

Reducing the risk of flooding

The high proportion of sealed-off surfaces in urban areas increases the speed and volume of water runoff which can quickly overwhelm drains.

Trees help to reduce flooding particular in areas of high levels of impenetrable surfaces where drains easily come to their limits with the increasingly heavy rainfalls.

Urban flooding as a result of drainage systems being overwhelmed is estimated to be costing £270 million a year.



Trees 'at work'

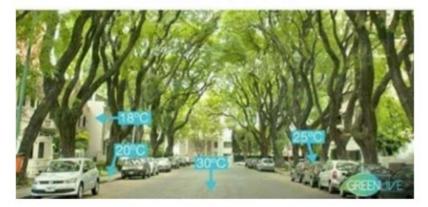
Mitigating the urban heat island effect

There can be as much as a 9°C difference between residential centres and the surrounding area, which can contribute to heat-related stress, a cause of premature death.

Without Trees...



With Trees!



Spot the difference



Concrete vandalism in Gypsy Road

Noise reduction

According to the WHO, after air pollution, noise is the second largest environmental health risk in Western Europe. Trees and hedges can help reducing noise moderately.

Biodiversity

Urban trees provide food resources, shelter and nest sites for wildlife in urban areas.

Trees and hedges within urban areas provide important connectivity between isolated pockets of fragmented habitats, mitigating the negative effects of urbanisation for species such as bats.



House sparrows (female and male)



Tackling the housing crisis

Social value

Health and wellbeing - reducing health care costs

The provision of green space can benefit both physical and mental health, reduce health inequalities and reduce the wider costs of health care for the NHS.

Benefits to physical health

The closer people live to green space the more likely they are to be physically active and have a lower tendency to be overweight or obese.

Amenity and recreation value

The presence of trees indicated a more cared for surrounding making us feel safer.

Road safety

Trees can create an environment in which road and hazard awareness of road users is improved by suitable designing trees into the road scene.

Education

Learning outdoors has a number of benefits for child development, boosting confidence and self-esteem and helping with team building. Children who are connected with nature are more likely to engage with nature as adults.

Economic value to development

Provision of green space has both direct and indirect benefits to developments.

Several studies have also shown investing in green space and tree planting increases property and land values and encourages further investment.



The importance of outdoor space as a distributor to human health

Well managed nearby green space was estimated to increase property values between 2.6-11.3%. A London case study found a 1% increase in green space was associated with a 0.5% increase in the average house price.



Engineered solutions of air purification for our High Street?

Individual car traffic – the epitome of personal freedom

There are more than 2.5 million cars licensed in London alone.

Cars have turned urban spaces and the public domain into inhospitable toxic stressful zones drowned in noise and pollution.

While urbanism has been designed around car traffic rather than around humans, cars have eaten away swaths of public spaces no longer available for other use.



The SUV loved by polar bears

The Dieselgate in Germany in 2015 was best proof of the unlimited power of corporations. **Volkswagen** cheated regulators and misled customers by using software to suppress emissions of nitrogen oxide during vehicle tests.



Looking to boost your school gate credibility? Our Tiguan has been voted one of the coolest cars for Dads on the school run.



How best to poison my kids

Oil companies devoid of any morals

Exxon mobile the biggest fossil fuel company in the world knew about climate change since the late 1970's.

They conducted their own research programs by employing top scientists to look into the effects of mass extraction of fossil fuel, the consequent rise of greenhouse gases and global warming.

Not only have they denied the threat of climate change, they have spent huge sums of money to spread misinformation.

Exxon helped to prevent the US government from signing the Kyoto Protocol in 1998.



Your plan B to the climate breakdown





The 1%'s MEDIA ARE BLOCKING

CLIMATE ACTION What will it take?

Britain's Corporations must stop funding climate sceptic propaganda with the advertising they buy in the Mail, Sun, Times, Star, Express and Telegraph. These papers are currently the biggest threat to Britain's future.

#DeAdvertise Advertising Action on Climate Project

Think long-term



A society grows great when old men plant trees whose shade they know they shall never sit in.

Greek Proverb

Recommendations to the council

- Adopt urgent action on Climate Change including tackling air pollution.
- Work with the OpenOrchard to establish planting potential for trees in West Norwood and Tulse Hill.
- Change the current policy of charging the removal of green matter as it sends the wrong incentives by 'penalising' those
 whose gardening efforts necessitate help with the removal of green manner.
- Stop the use of Glyphosate on highways and on council estate land with immediate effect as it's an extremely harmful
 herbicide potentially carcinogenic to humans causing havoc to local ecosystems.



Ecocide carried out by one of Lambeths' 'maintenance' companies



This is what it could look like

Your planet needs you!

Maximising shareholders profit has been the mantra of the late 20th Century. It's still the prevailing driver in the name of 'progress'.

Let's bebunk the tale of **unlimited growth** for what it is - a **neoliberal fairytale** that will result in climate breakdown and ecological mayhem depriving the young people of this world of a dignified future.

Let's put people and the planet before profit.



Global climate strike – London 20 September 2019





Norwood Green own Plan

The Neighbourhood Plan for Norwood Emerging thinking....



Local planning by local people

The story so far... for the past two years we have been talking to our neighbours...



We have held a series of workshops and events to discuss what local people want...











Local planning by local people

Our vision

By 2030 Norwood will be London's Greenest Town*

*This will involve a greener physical environment, as well as taking measures to reduce our impacts on the planet and in turn improving the overall health, wellbeing, quality of life and prosperity of our community.



The Green Town Charter



Ten objectives:

1. We want to see **zero carbon emissions** in all new developments by 2030 and a place to live, work and enjoy that is **resilient** to the climate emergency that we face.

2. We want significant improvements to **air quality** across our area, tackling high levels of pollution along Norwood Road and other main thoroughfares.

- 3. We want Norwood to have buildings and spaces that are **well designed**, with the necessary infrastructure and that are sympathetic to the existing character. This should respect existing building heights and work with the varied topography and spectacular views that our neighbourhood benefits from.
- 4. We want to ensure that **new development** provides economic, cultural and community facilities, and equal opportunities for all. This must go beyond immediate profits and instead be long-term investment.

- 5. We want to ensure our **local services** are able to expand and adapt to keep abreast of the demands from the rising local population, and there is a focus on the improved health and wellbeing of our population along with ensuring everyone can access the education and training they need to succeed.
- 6. We want a town that is **full of art, culture, creativity and sport** making the most of new opportunities and the existing assets such as the South London Theatre, West Norwood Library & Picturehouse, West Norwood Health & Leisure Centre, venues, pubs, cafes and restaurants, places of worship, and supporting the numerous local artists and creatives that are based here.

7. We want to make Norwood's **environment greener** through increased planting, creating new areas and improving access to all our green spaces. We want our allotments and own gardens to be greener.

8. We want to support a **vibrant and viable local economy** with new and better spaces for a variety of businesses that are affordable and are good neighbours and which create secure good jobs for local people. We want **a thriving** West Norwood town centre and local parades with limited vacancies and a range of businesses to support our day-to-day needs.

9. We want to reduce travel by car and make it easier to walk and cycle and use public transport.

10. We want to ensure a supply of local **affordable housing** and a **mix of homes** to meet the varied demands of local people.

Get involved

Sign up for updates: admin@norwoodplaning.org
www.norwoodplanning.org



Local planning by local people