

Overview of Air Quality in the Borough

Slides to accompany officer's report

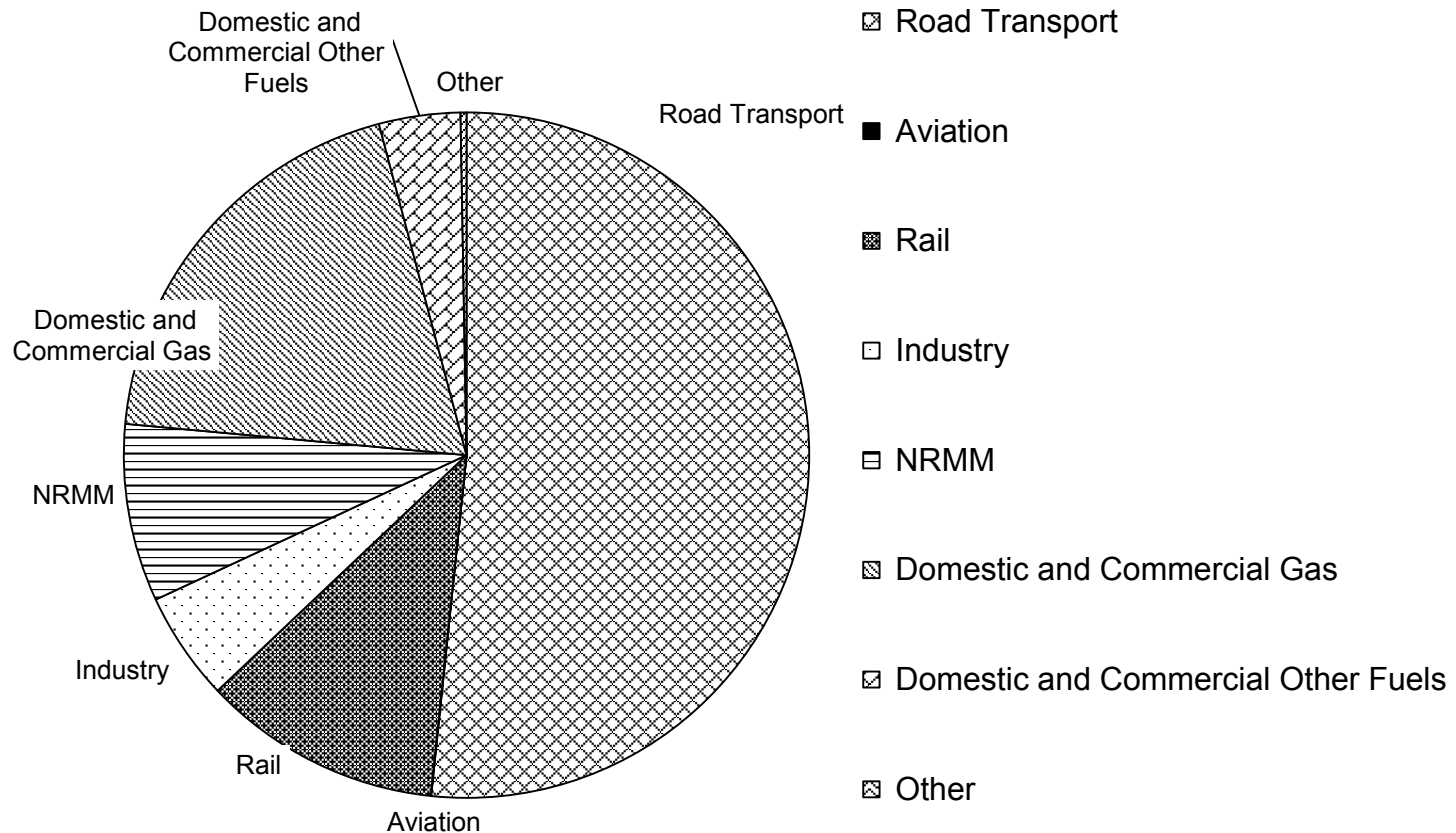
Scrutiny Review Panel 3: Air Quality

Ealing Town Hall 19 July 2018

REGENERATION & HOUSING

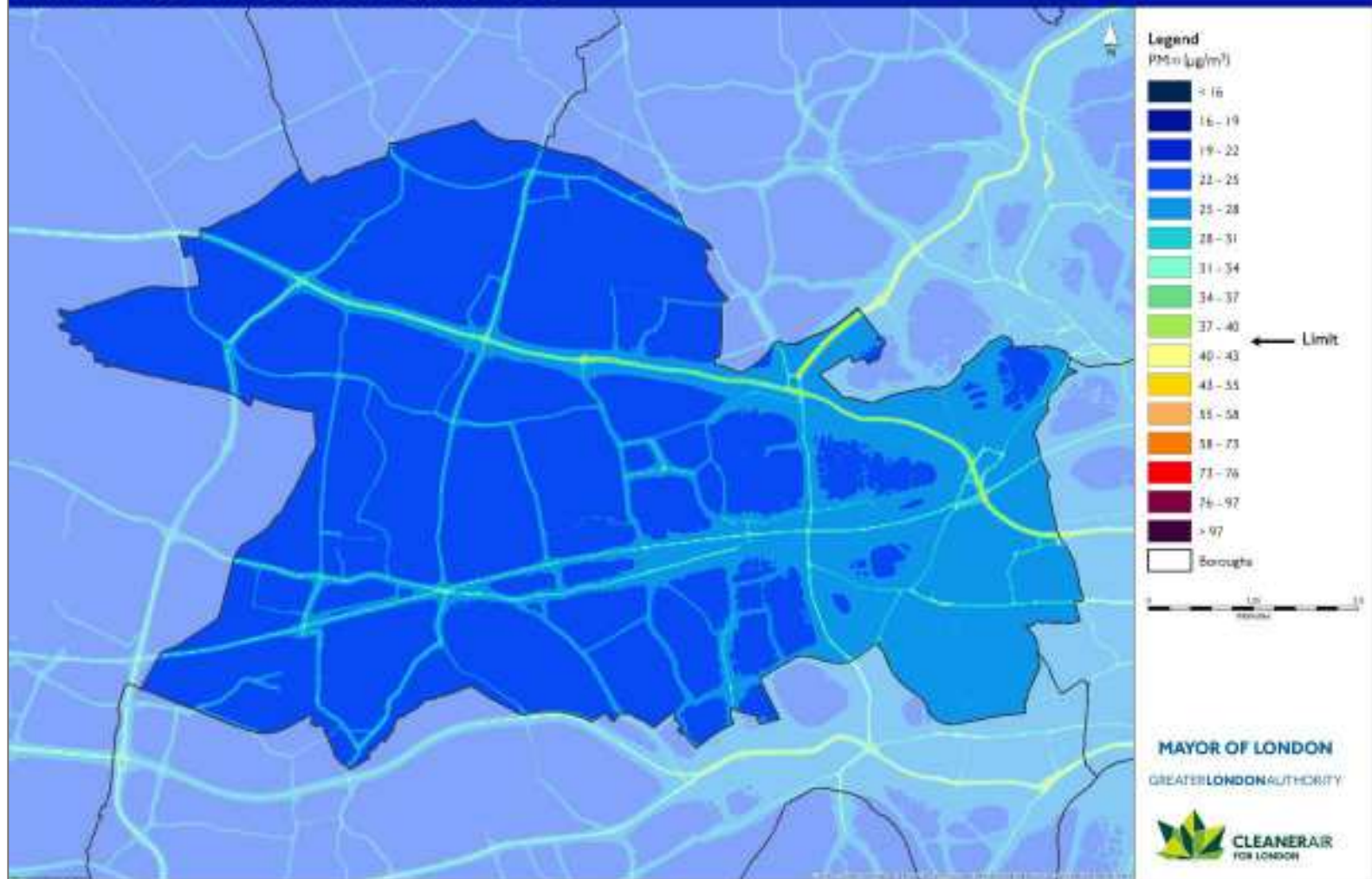


Sources of emissions of nitrogen oxides (NO_x) in the London Borough of Ealing

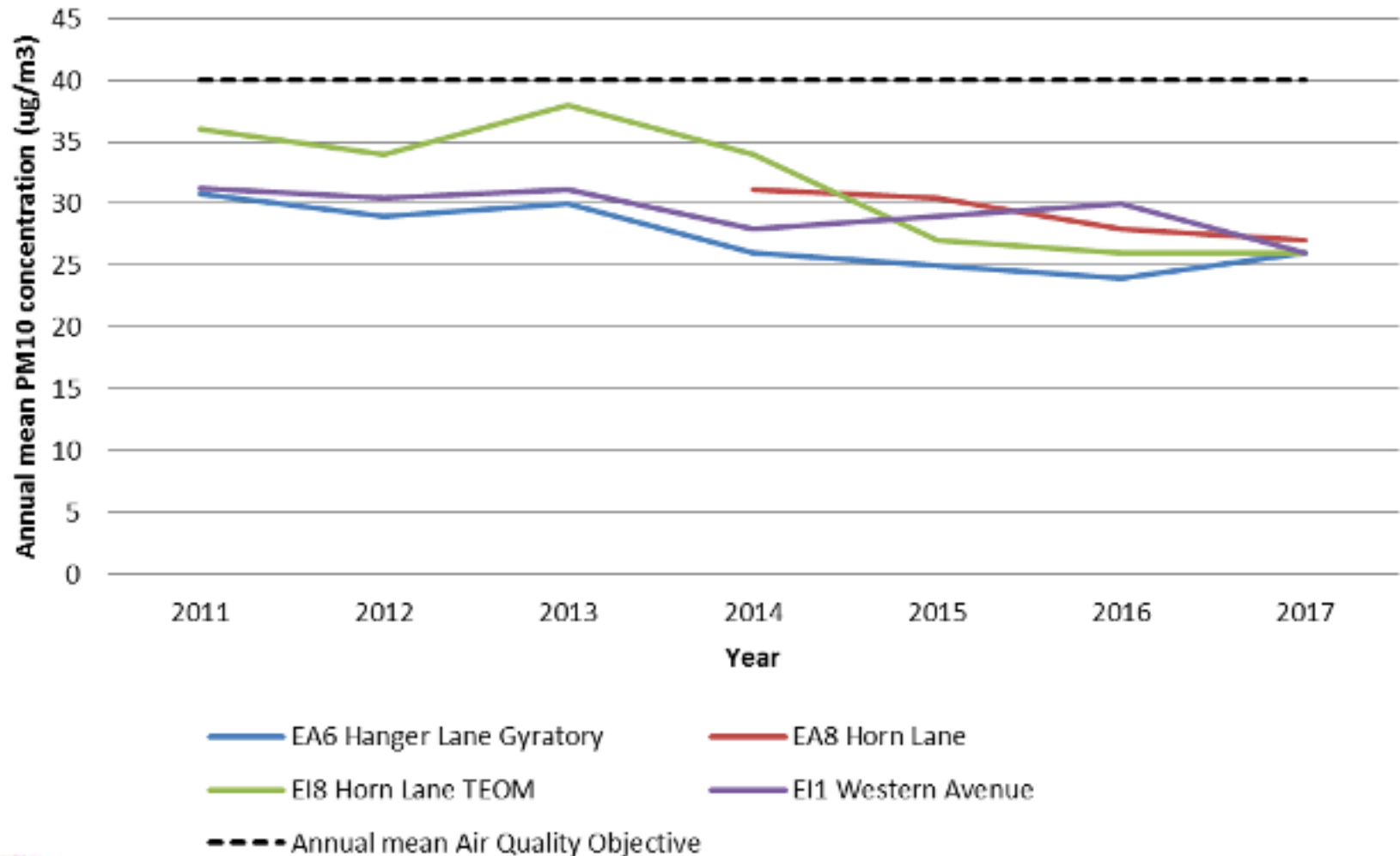


London Borough of Ealing Annual Mean PM₁₀ concentrations 2013

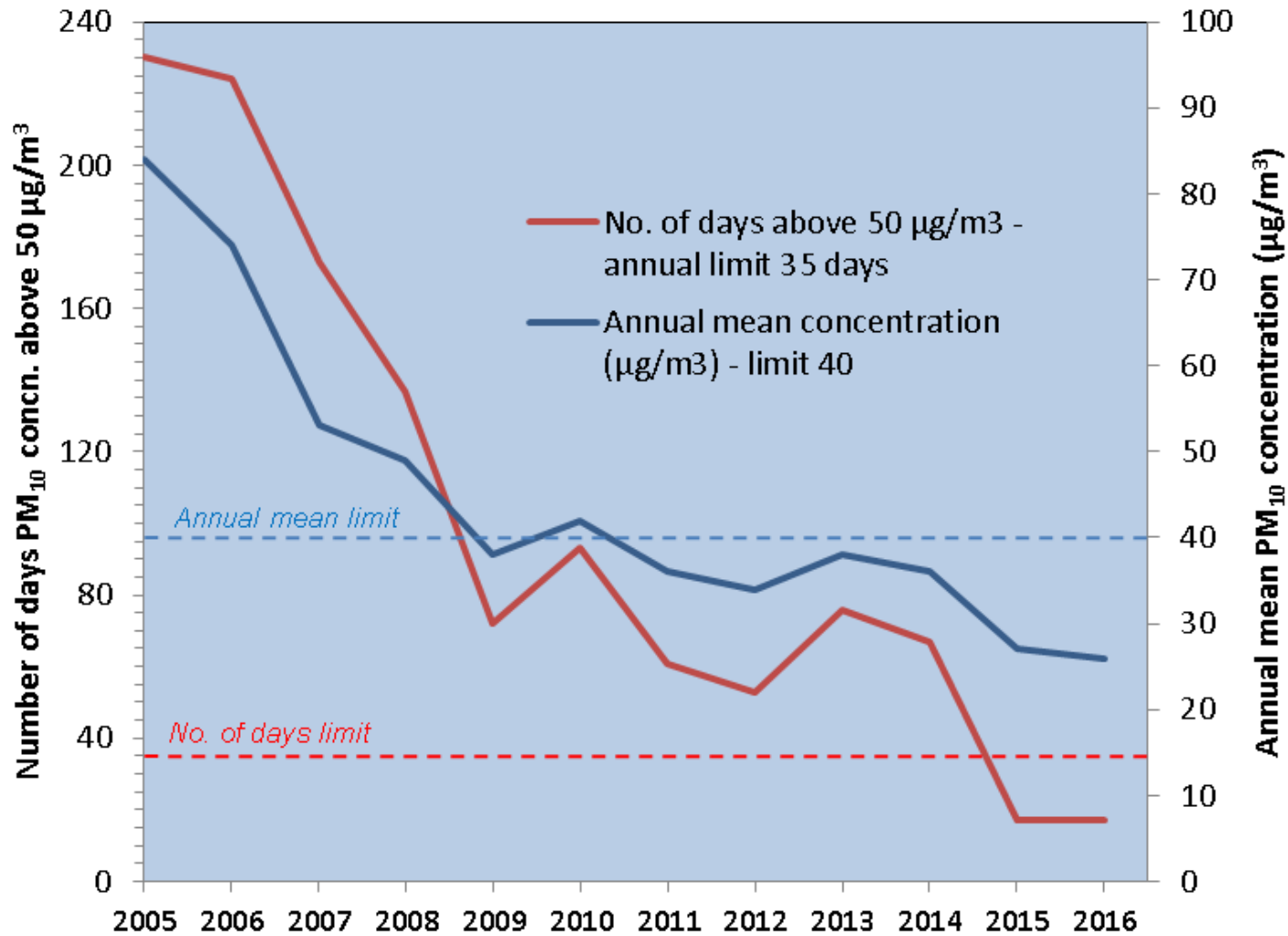
LAEI 2013



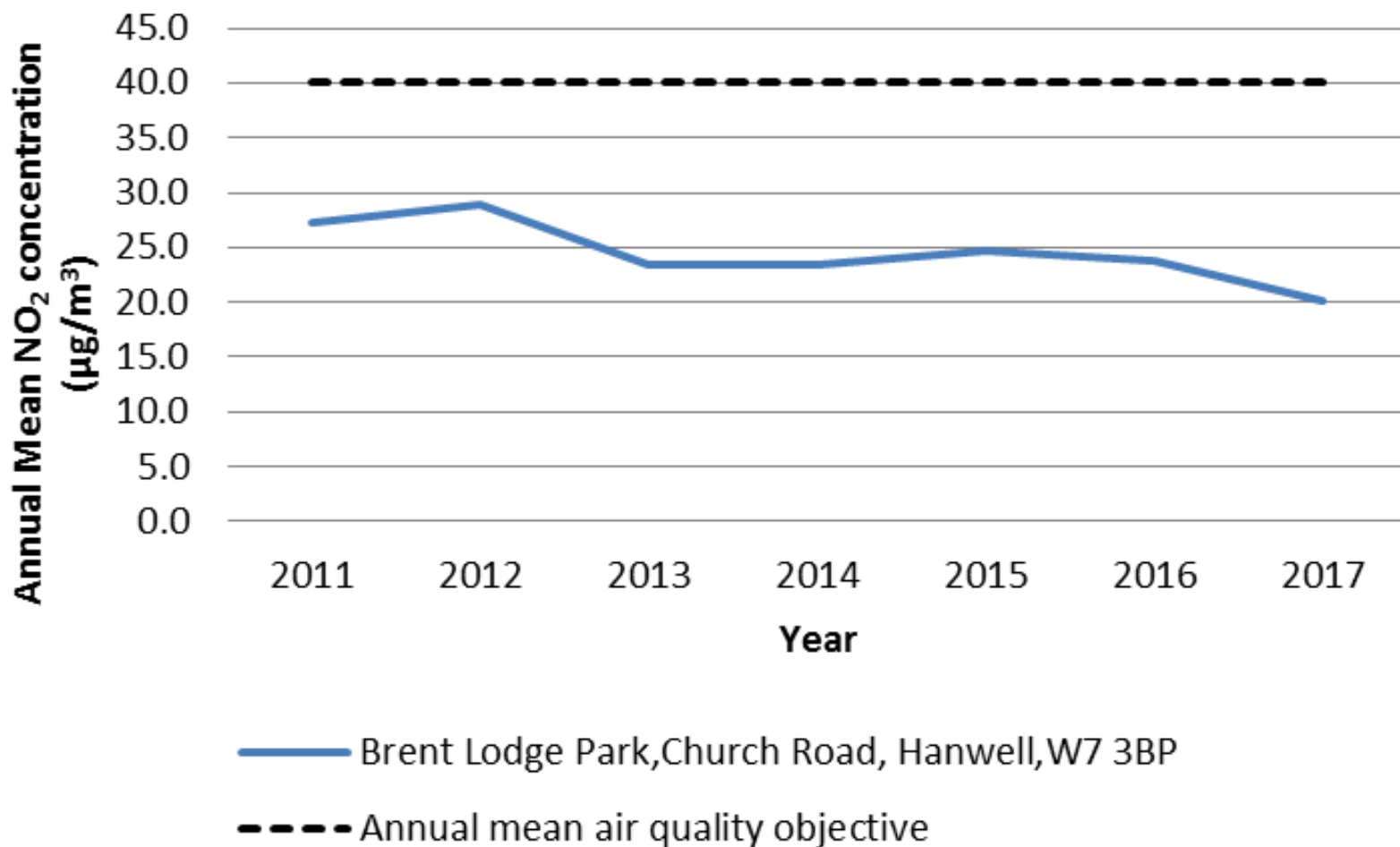
Trends in annual mean PM₁₀ concentrations at the borough's automatic monitoring stations



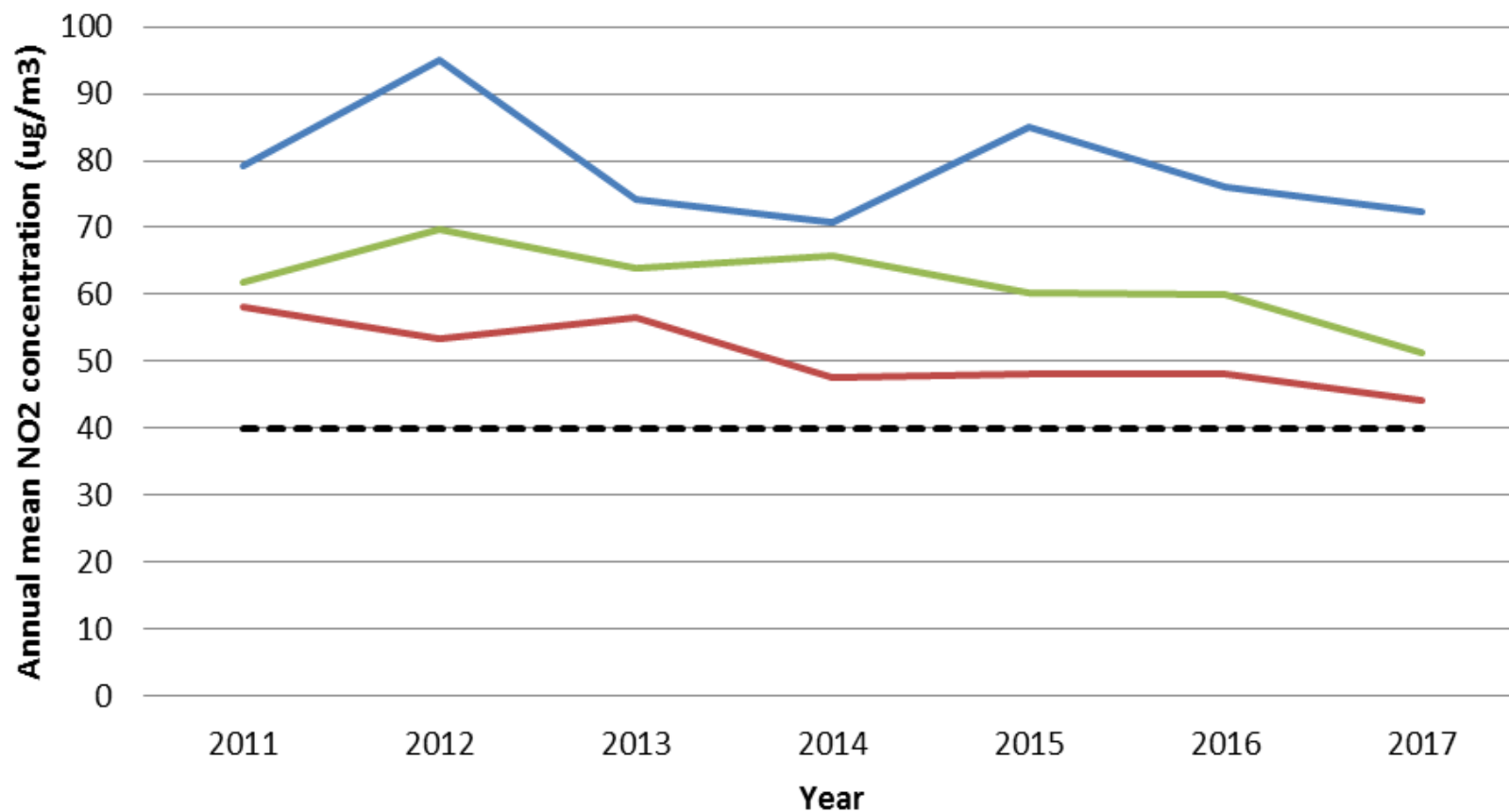
Long-term trend in particulate matter (PM₁₀) at Horn Lane monitoring station 2005-2016



Trend in annual mean nitrogen dioxide concentration at an urban background location



Trends in annual mean nitrogen dioxide concentrations at automatic monitoring stations



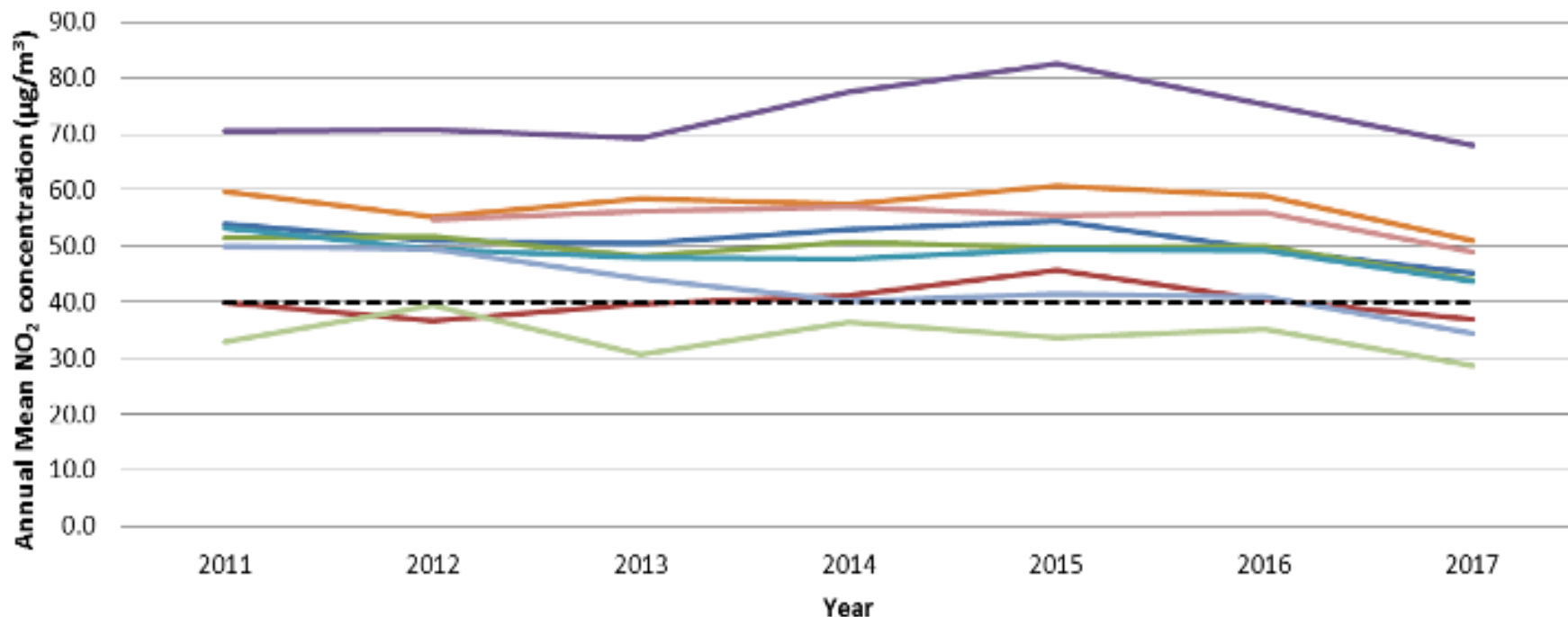
EA6 Hanger Lane Gyratory

EA8 Horn Lane

EI Western Avenue

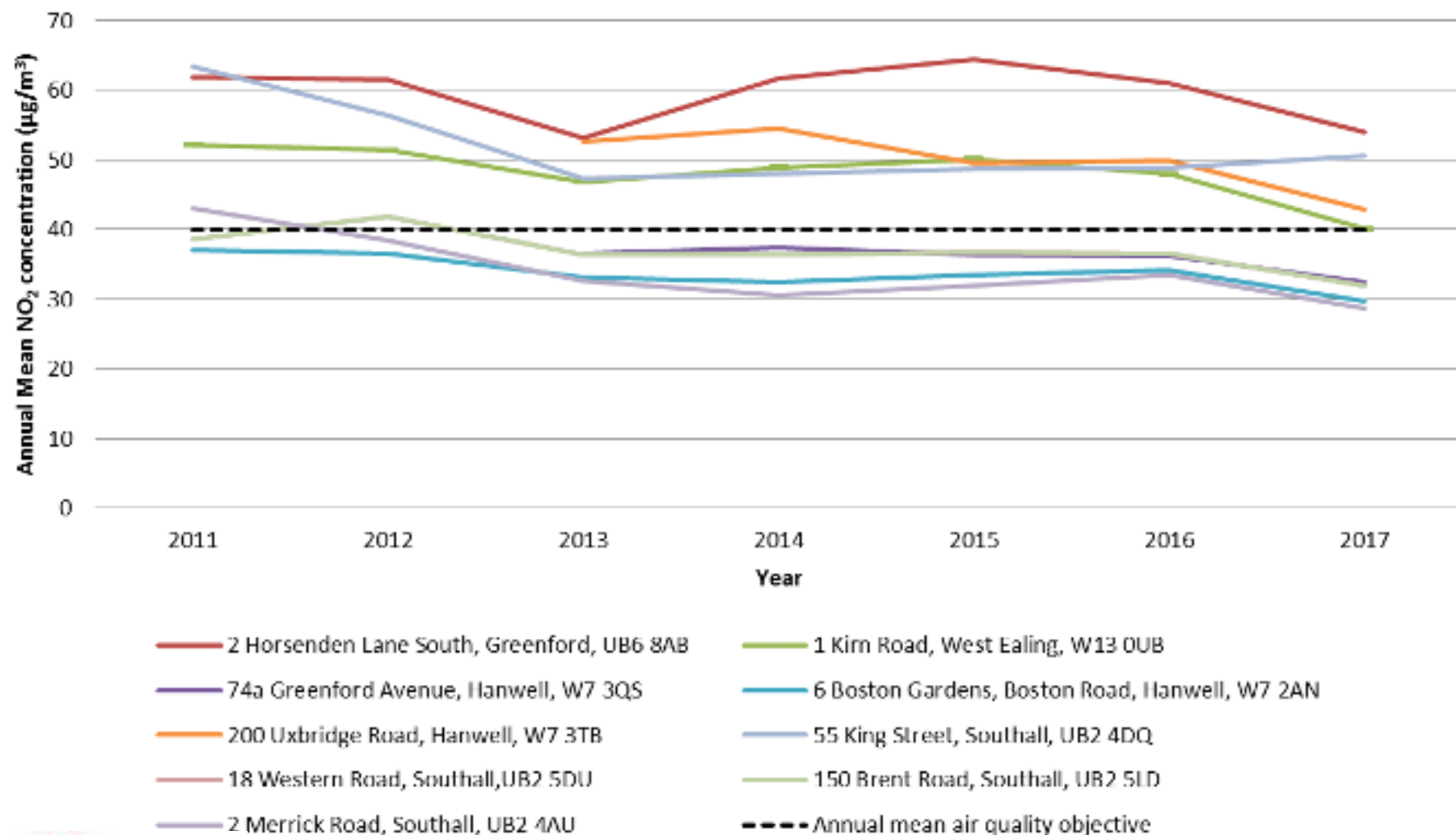
Annual Mean Air Quality Objective

Trends in roadside nitrogen dioxide concentrations in the east of the borough (diffusion tubes)



- 39 Old Oak Lane, Park Royal, NW10 6EJ
- 98 Western Avenue, Acton, W3 7TZ
- 71 Old Oak Common Lane (PO), Acton, W3 7DD
- 17 The Vale, Acton, W3 75H
- 15a Church Road, Acton, W3 8QE
- 165 Wells House Road, Park Royal, NW10 6EA
- 6 Western Avenue, Acton, W3 7UD
- 205 Old Oak Road, Acton, W3 7HH
- 88 High Street, Acton, W3 6QX
- Annual mean air quality objective

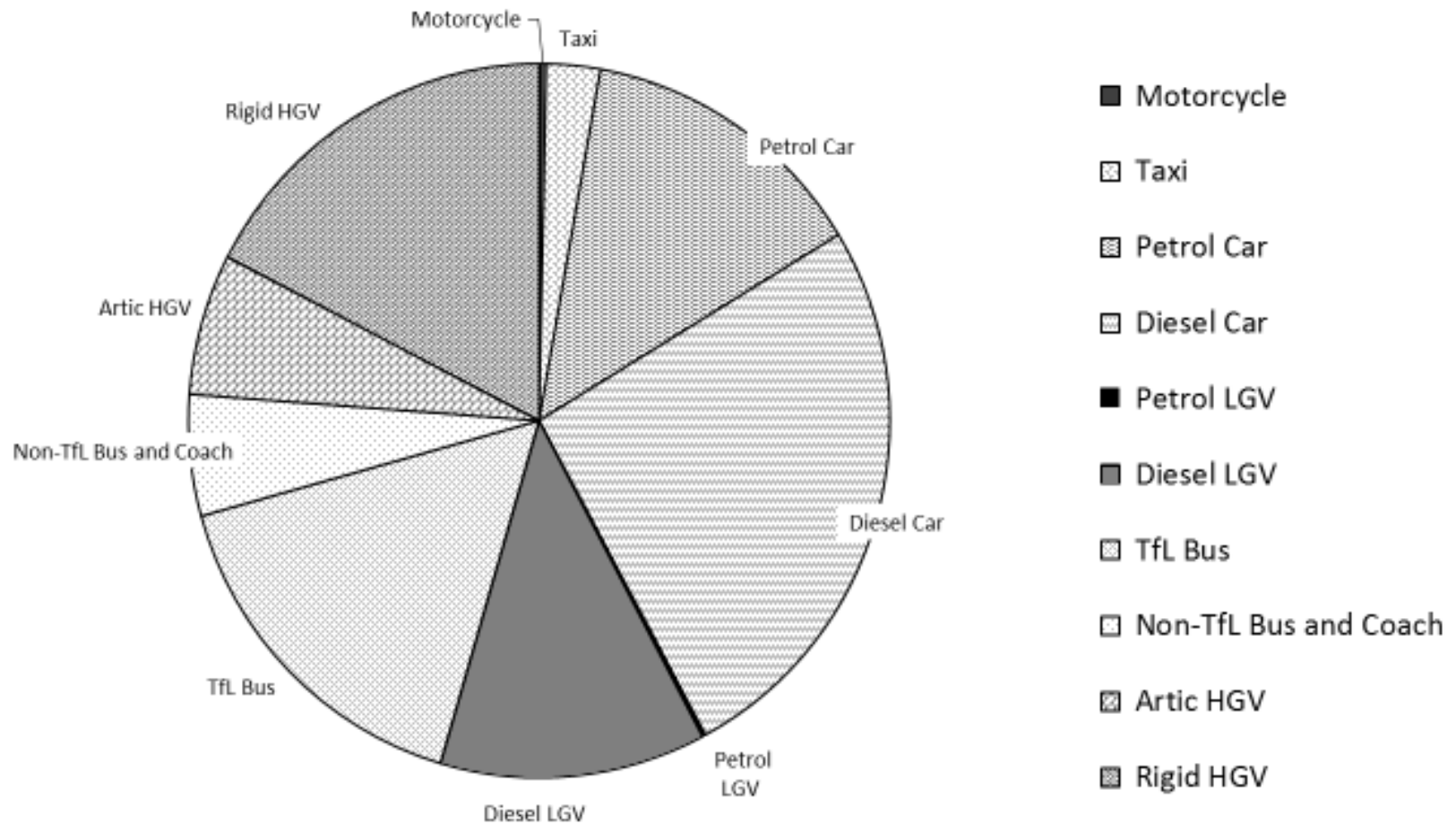
Trends in roadside nitrogen dioxide concentrations in the west of the borough (diffusion tubes)



Focus Areas LAEI 2013 in Ealing



Nitrogen oxides (NO_x) emissions by vehicle class in the London Borough of Ealing



Currently available technology options for cleaning up road transport

	Time to deployment	Decarbonisation potential	Air quality potential	Consumer cost	Infrastructure requirements
Conventional vehicles (inc. non plug in hybrids)	Fast	Medium	Medium	Low	Low
Battery electric vehicles & plug in hybrids	Medium	High	High	Medium	High
Hydrogen fuel cell electric vehicles	Slow	High	High	High	High
Biofuels	Medium	Low	Low	Low	Low
Gaseous fuels	Fast	Low	High	Low	Low
Modal shift	Varies	Medium	High	Low	Varies
Mobility as a service (e.g. car sharing)	Fast	Medium	Medium	Low	Low
Autonomous vehicles	Slow	Uncertain	Uncertain	High	High

(Reproduced from *Driving Down Emissions: How to clean up road transport?*
Policy Exchange, London, 2017)

Review of the London Borough of Ealing's Air Quality Action Plan (AQAP)

- The whole borough declared as an Air Quality Management Area for nitrogen dioxide and PM₁₀ in 2000.
- Public consultation in May 2017 on a draft Air Quality Action Plan to replace the original AQAP issued in 2003.
- 43 actions to improve air quality, many of which are ongoing, received broad public support
- Final draft prepared in early 2018 for internal sign-off and submission to the GLA for approval
- AQAP on hold pending a new action matrix from the GLA

Actions to improve air quality

- Emissions from developments and buildings
- Public health and awareness raising
- Delivery servicing and freight
- Borough fleet actions
- Localised solutions (green infrastructure)
- Cleaner transport
- Air Quality Focus Areas
- Regional integration
- Reducing exposure
- Air Quality Monitoring

For further information please contact

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