

Air Quality Management Area Revision 2020

Presentation for O&S / Cabinet
Report January 2020

Local Air Quality Management v. Climate Change

	Local Air Quality	Climate Change
Limit / Target	40ug/m ³ NO ₂	Zero carbon by 2030
Extent of effect	20-30m	Global
Measurement	Monitoring	Calculated emissions
Management	Local, with national guidance / legislation	National, with local action
Solution	Very similar: Fewer private cars, fewer diesels , more cycling, walking and public transport. Cleaner energy production and reduced consumption at home and work.	

What we are required to do – the law

Law: Environment Act 1995 says we have to assess a range of pollutants, all have a limit. Some are fairly unusual, and only arise from specific industries, others occur all over the country in varying quantities.

In Cheltenham the only one of concern is NO₂, but Particulates are also of increasing note.

NO₂ derives almost entirely from traffic, particularly diesel vehicles.

Measured using NOx tubes at 29 locations around the town and AQ station at St. George's St.

Particulates come from a wider range of sources, measured by mesh pods – not close to (current) limits.

9 Mesh pods at key points around town.

History of previous AQMAs

- 2008 Bath Rd / High Street
- 2011 Borough-wide AQMA. Why? Integrated 5 failure areas. Single over-arching plan. Avoids displacing problem from one area to the next.
- What has that achieved?

Some up to date results – measured against these limits:

Pollutant	Annual Average	Short-term Limit
NO ₂	40ug/m ³	200ug/m ³ , measured over 1 hr, not to be exceeded more than 18x per year
PM10	40ug/m ³	200ug/m ³ , measured over 24 hrs, not to be exceeded more than 35x per year

2019 Results

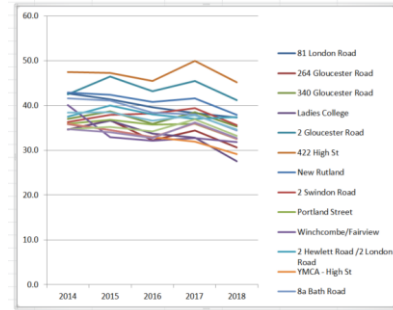
Non-legal adjusted data - should not be used before fine adjustment completed

Station	NO ₂ (ug/m ³)	PM10 (ug/m ³)	NO ₂ (ug/m ³)	PM10 (ug/m ³)	NO ₂ (ug/m ³)	PM10 (ug/m ³)	NO ₂ (ug/m ³)	PM10 (ug/m ³)	NO ₂ (ug/m ³)	PM10 (ug/m ³)	NO ₂ (ug/m ³)	PM10 (ug/m ³)	NO ₂ (ug/m ³)	PM10 (ug/m ³)
St George's St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
Bath Rd	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
High Street	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St James St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Andrew St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St John St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Peter St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Paul St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Mary St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Elizabeth St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St George's St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St James St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Andrew St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St John St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Peter St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Paul St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Mary St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Elizabeth St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St George's St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St James St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St John St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Peter St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Paul St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St Elizabeth St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St George's St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St Peter St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Paul St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Mary St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Elizabeth St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St George's St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St James St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St Peter St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St Mary St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St Elizabeth St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St James St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
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St Andrew St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St John St	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45	25.53	24.45
St Peter St	25.53	24.45	25.53	24.45	25.53									

Monitoring Locations



Longer term graph shows slow change



Process now:

- Outline approved by DEFRA in 2018/19 reports.
- Detailed Assessment completed.
- Confirms need to re-define AQMA.
- Will revoke existing Whole Borough AQMA.
- Simultaneously declare new, smaller AQMA.

New AQMA

- Will cover a “sausage”.
- From Gloucester Rd / Tewkesbury Rd, Poole Way, Swindon Rd to St.George’s Street.
- Will include all properties with a façade onto the roads.
- 29 Commercial, 79 Residential
- 120 Residents (approx)

New AQMA



Follow up:

- New AQ Action Plan.
- Outline ideas: Stagecoach, Royal Mail, Works to traffic lights already in pipeline.
- Depends on GCC involvement – GCC £1M fund for Climate Change Action.
- Will have to be implemented – not optional.
- Considerable overlap with CBC Climate Emergency (back to slide 1).