

West Oxfordshire Air Quality



Why do we monitor

Part IV of the Environment Act (1995)

1. regularly review and assess air quality
2. determine whether or not the national air quality objectives are likely to be breached
3. Report annually to Defra
4. Make these reports available to the public

What Do We Monitor

- Nitrogen Dioxide
- The National Objectives are
 $40\mu\text{/m}^3$ monthly average
compiled annually



What is μ/m^3 or parts per billion

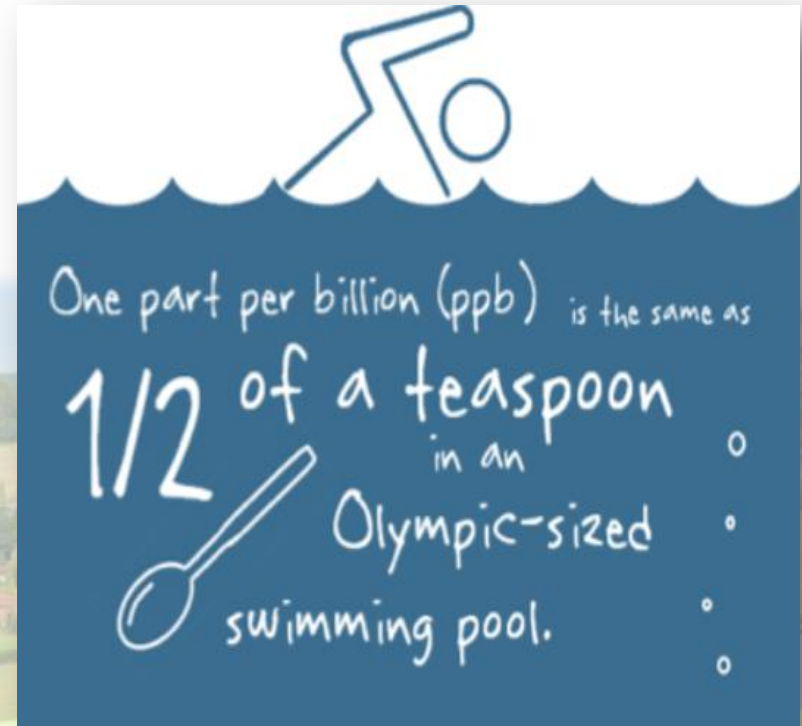
- One microgram per cubic meter of air is equivalent to 1 part per billion

Or

$$\frac{1}{1000000000}$$

Or

- $\frac{1}{2}$ teaspoon of salt dissolved in an Olympic sized swimming pool



How do we monitor

- **Diffusion Tubes**
- **Technical Guidance TG16 published by Defra**
- **They are**
 - **Low cost**
 - **Easy to deploy**
 - **Provides monthly data used to determine annual averages**



Where do we monitor

- **Areas where we suspect residential premises are likely to be affected by levels on Nitrogen Dioxide that may exceed national objectives**
- **Air Quality Management Areas where we have measured levels exceeding the annual national objectives**

Air Quality Management Areas

Bridge Street Witney



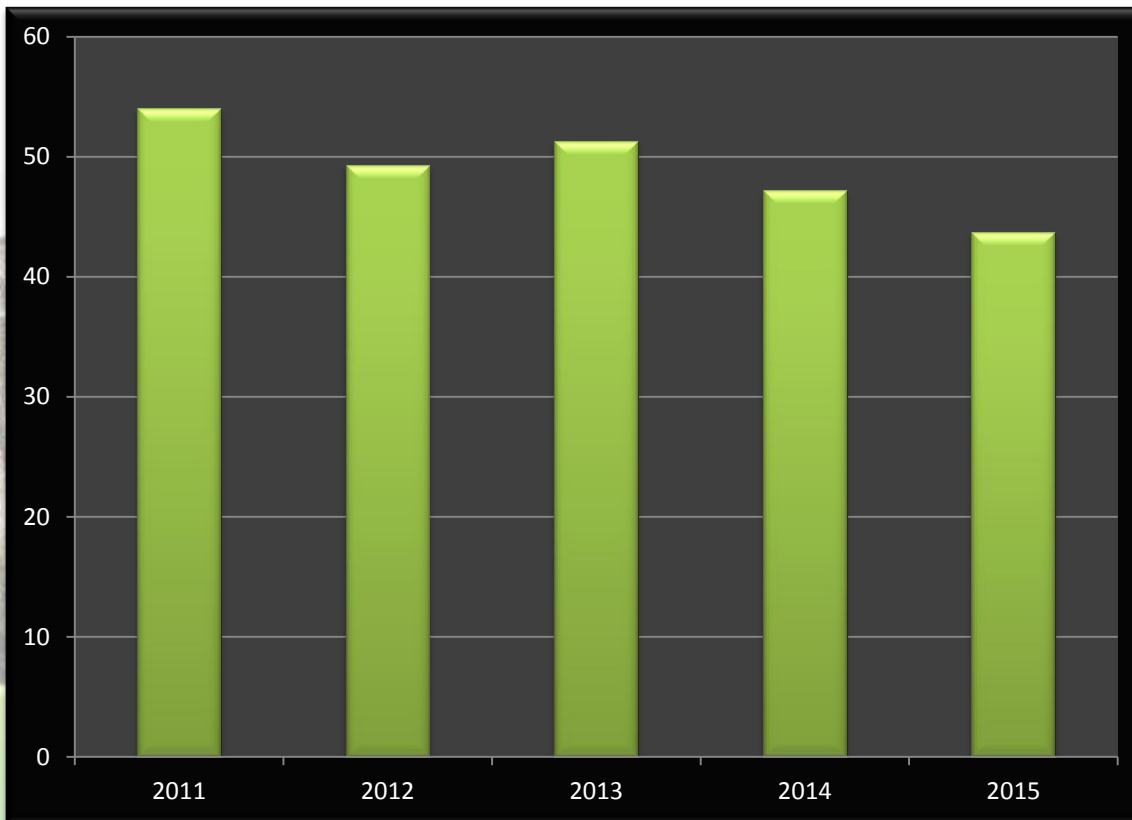
A44 Chipping Norton



What have we observed

Diffusion Tube Results

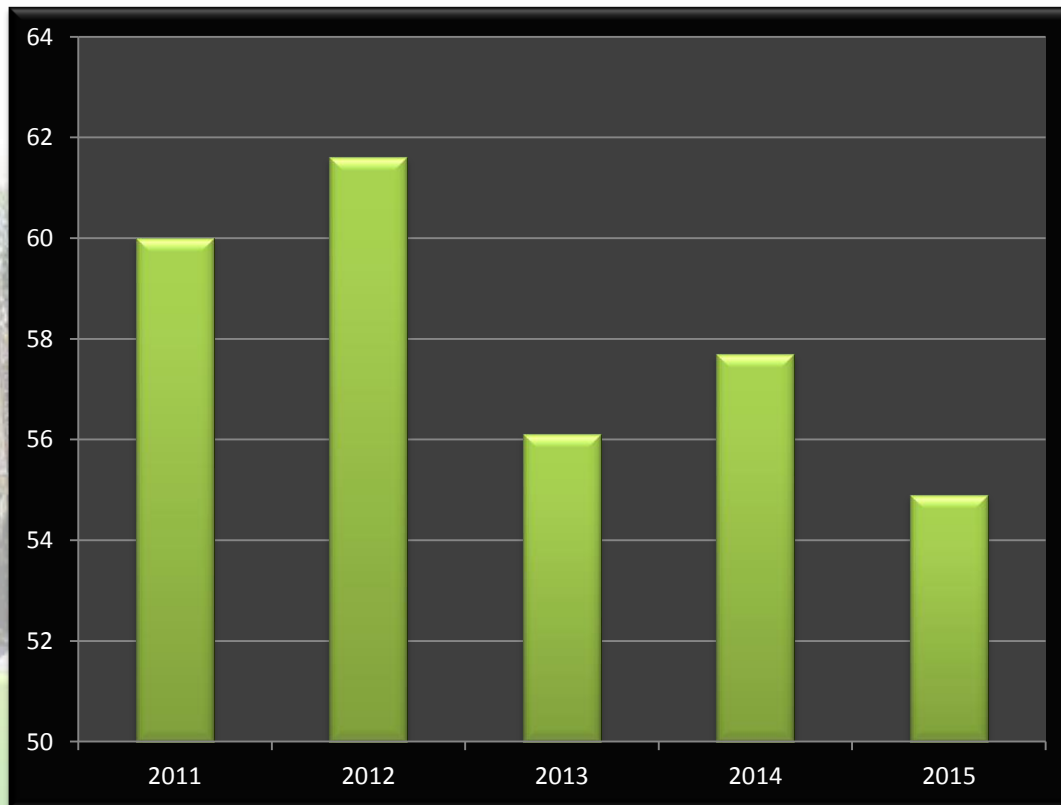
Bridge Street Witney



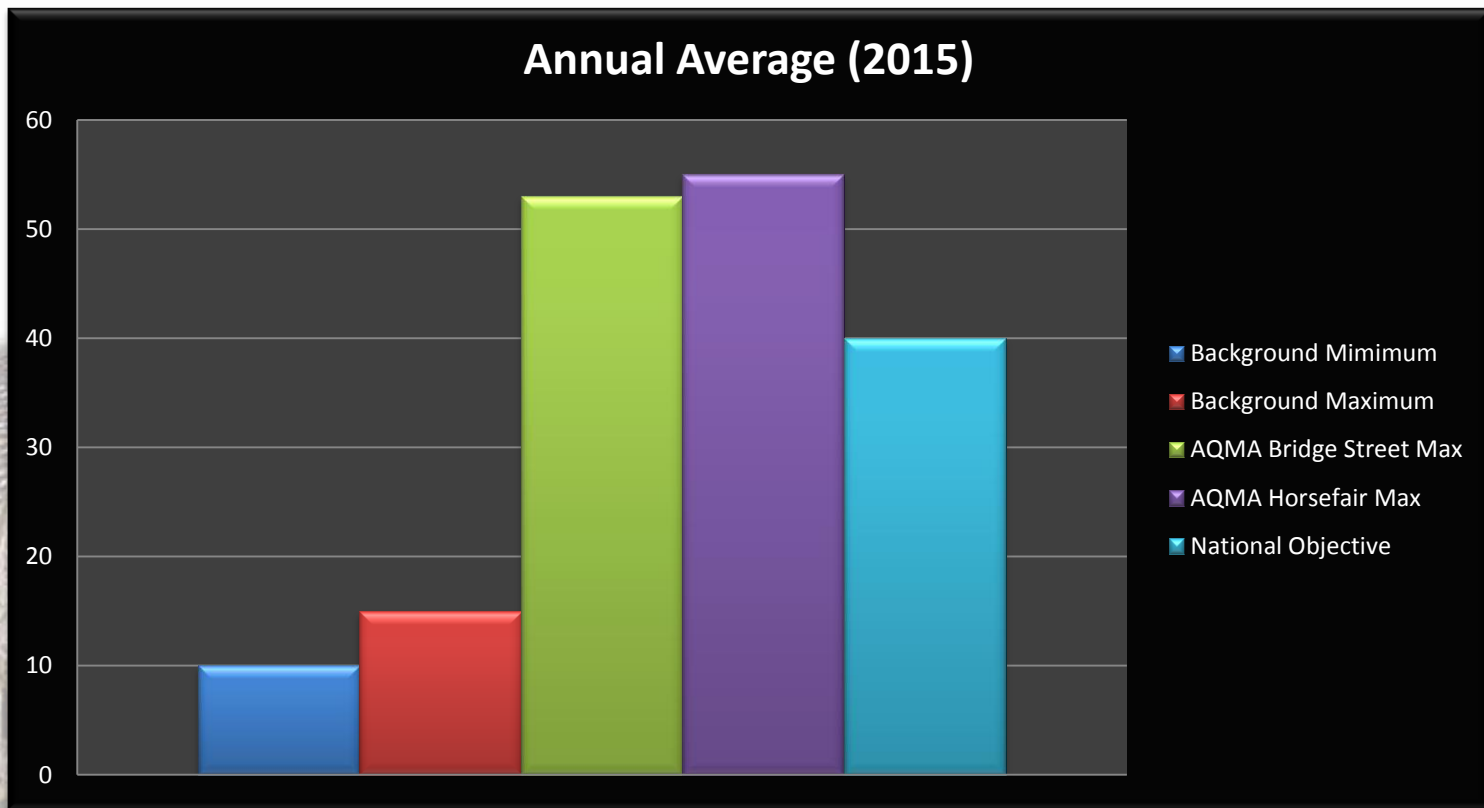
What have we observed

Diffusion Tube Results

Horsefair Chipping Norton

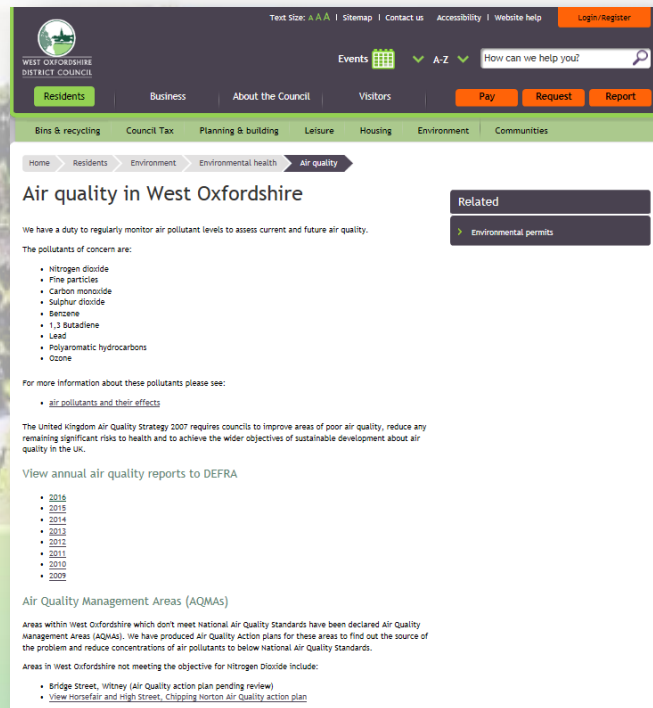


What have we observed rest of district compared to AQMA's



Detailed Information

- <http://www.westoxon.gov.uk/residents/environment/environmental-health/air-quality/>
- Reports are published every year once approved by Defra.



The screenshot shows the West Oxfordshire District Council website. The page title is "Air quality in West Oxfordshire". The navigation menu includes "Residents", "Business", "About the Council", "Visitors", "Pay", "Request", and "Report". The breadcrumb trail is "Home > Residents > Environment > Environmental health > Air quality". The main content area states: "We have a duty to regularly monitor air pollutant levels to assess current and future air quality. The pollutants of concern are: Nitrogen dioxide, Fine particles, Carbon monoxide, Sulphur dioxide, Benzene, 1,3 Butadiene, Lead, Polyaromatic hydrocarbons, and Ozone. For more information about these pollutants please see: air pollutants and their effects. The United Kingdom Air Quality Strategy 2007 requires councils to improve areas of poor air quality, reduce any remaining significant risks to health and to achieve the wider objectives of sustainable development about air quality in the UK. View annual air quality reports to DEFRA: 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009. Air Quality Management Areas (AQMAS) Areas within West Oxfordshire which don't meet National Air Quality Standards have been declared Air Quality Management Areas (AQMAS). We have produced Air Quality Action plans for these areas to find out the source of the problem and reduce concentrations of air pollutants to below National Air Quality Standards. Areas in West Oxfordshire not meeting the objective for Nitrogen Dioxide include: Bridge Street, Witney (Air Quality action plan pending review), View Horsefair and High Street, Chipping Norton Air Quality action plan.

