



**What you **NEED** to know  
about air quality in  
Cowfold**

**"Enough is enough!"**

Come along to a public meeting:  
**When:** Thursday 6th July at 7.30 p.m.  
**Where:** Village Hall, Cowfold



Understand the facts  
about traffic and the  
harmful emissions from  
vehicles that could  
be harming your health.




What has been done?      What should we do?


**Have your say,  
this impacts all of us.**

- Welcome
- Who are we?
- Why have we called this meeting?
- Format for this evening
- Objectives


# Fact or Myth?




Pollution levels  
have doubled  
in last 10 years




Pollution levels  
above  
recommended  
guidelines




It's the big  
lorries  
causing all  
the damage



Nothing is  
being done!



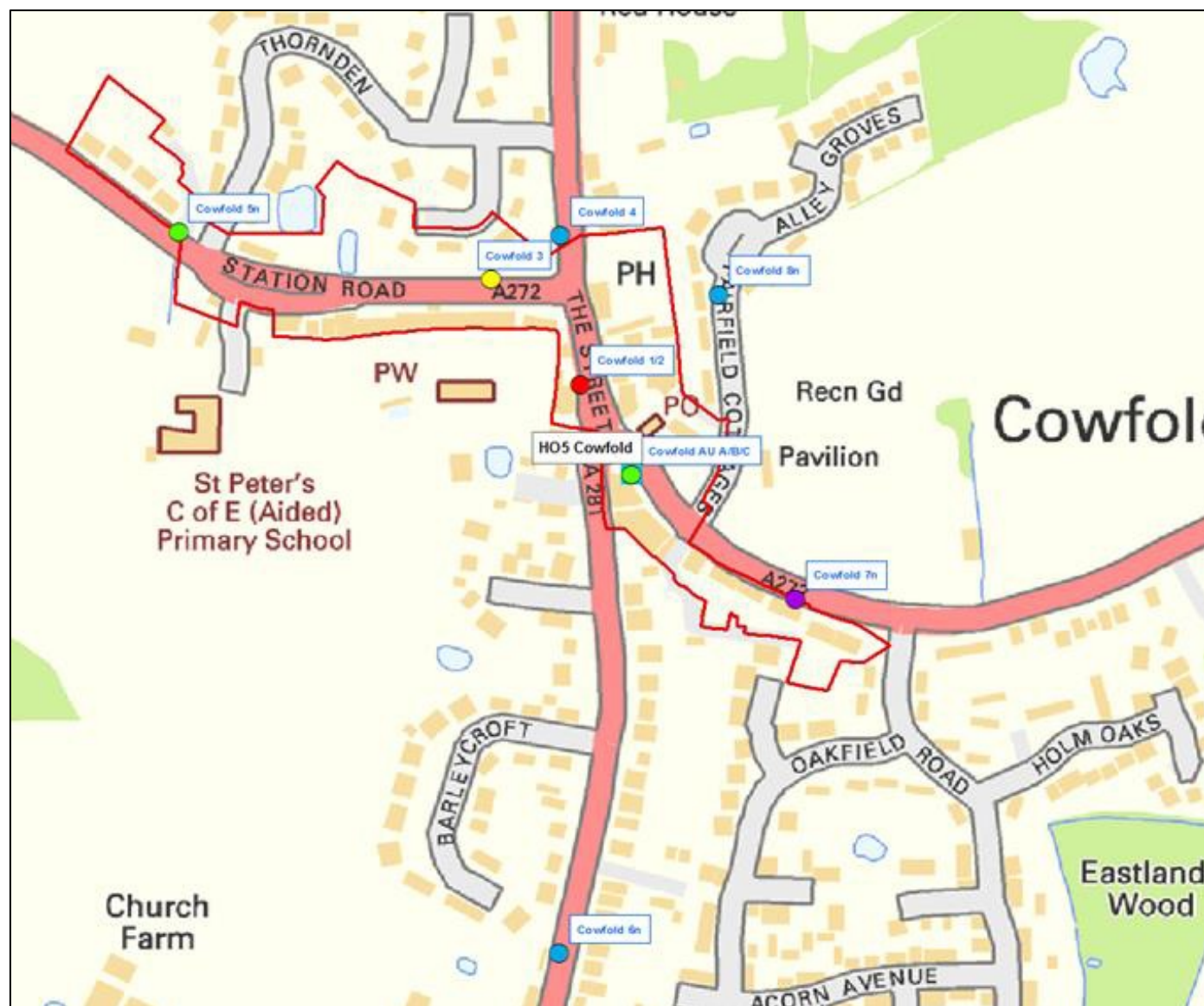
Asthma levels  
above  
national  
average



Nobody ever  
reads the air  
monitors

# Background

- The Environment Act 1995 places an obligation on all local authorities to regularly review and assess air quality in their areas
- Horsham District Council completed the first assessment in 2000
- In 2007/2008 Storrington and Cowfold were over the annual limit for Nitrogen Dioxide (40 microgrammes per cubic metre of air)
- 2009 and 2010 Progress Reports confirmed continued exceedance
- In October 2011 Cowfold was declared an Air Quality Management Area (AQMA)
- In six years no actual positive action has been taken to reduce pollution levels in Cowfold



## Legend

### Diffusion Tube Monitoring Site 2016 Concentration, $\mu\text{g}/\text{m}^3$

10.0 - 28.0

28.0 - 32.0

32.0 - 36.0

36.0 - 40.0

40.0 - 44.0

44.0 - 60.0

Continuous Monitoring Site

AQMA Boundary

# Annual Mean NO<sub>2</sub> Concentration Cowfold Trend 2008-2016

Annual Mean Concentration ( $\mu\text{g}/\text{m}^3$ )

50  
45  
40  
35  
30  
25  
20  
15  
10  
5  
0

Cowfold 1,2

Cowfold 3

Cowfold 4

Cowfold 5n

Cowfold 6n

Cowfold 7n

Cowfold 8n

Cowfold AU A/B/C

The Street

Margaret  
Cottages – A272

Trelawny  
House

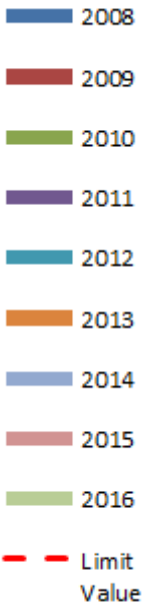
Station Road  
Thornden

Millers  
Cottage

Huntscroft  
Gardens – A272

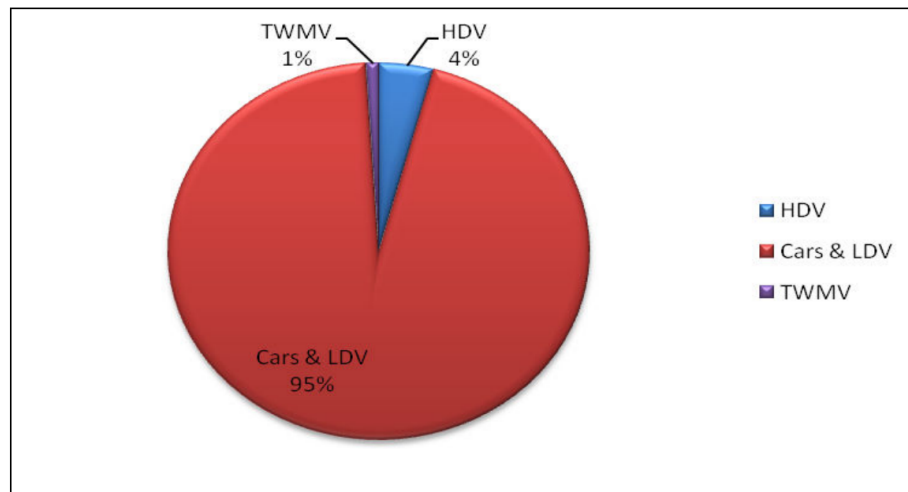
Village Hall

Fairfield  
Cottages



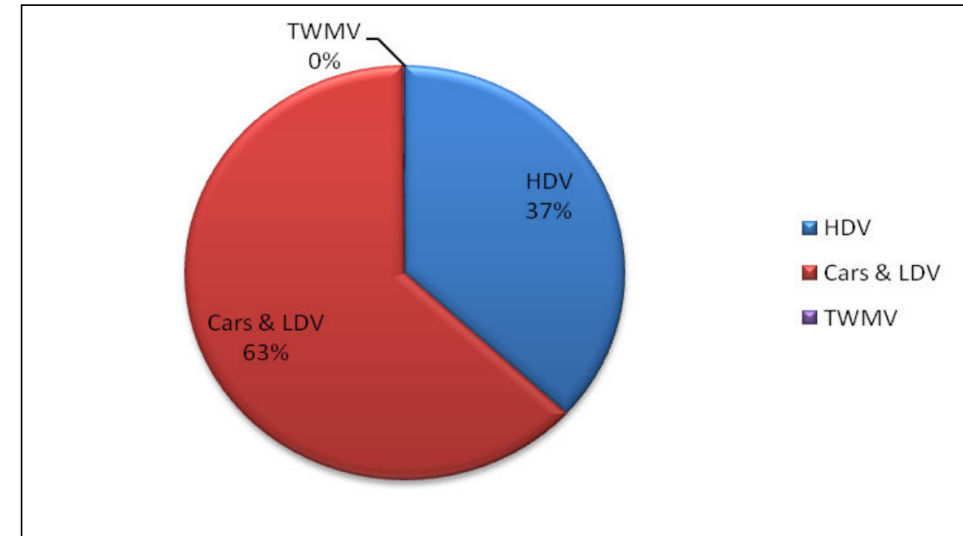
# What is driving pollution in Cowfold?

**Figure 5: Estimated Annual Average Daily Traffic Flow by Vehicle Class at The Street, Cowfold 2011**



Categories: Cars & LDV includes : cars, taxis, light goods vehicles and vans  
HDV includes: buses, coaches, minibuses and HGVs,  
TWMV:Two wheels motor vehicles.

**Figure 6: Road Traffic NOx Emissions by Vehicle Class, The Street, Cowfold 2011**



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# The impact of Nitrogen Dioxide on Health

On the 12<sup>th</sup> March 2015 Public Health England published a paper on the effects of Nitrogen Dioxide on public health.

The report agreed with information from the World Health Organisation (2013) that exposure to high levels of Nitrogen Dioxide increases the likelihood of a range of ailments including:

- Lung function (inflaming the lining of the lungs or increase the chance of lung infections)
- Asthma
- Cancer
- Adverse birth outcomes
- Mortality



Dr Darcy's  
Information

# Cowfold Air Quality Steering Group (2011 to 2017)

Suggestions so far.....

Suggestion	Anticipated Benefit	Next Steps	Current Status
20 mph speed limit	Very low	Not being pursued	Red
Low Emission Zone	Medium-High	Reservations about feasibility	Yellow
Traffic Gating	Medium at Huntscroft Cottages	Enforcement issues therefore not being pursued	Red
Improved Signage on A23 and A24	Low	Being pursued by Cowfold Parish Council separately	Red
Redesigning 2 roundabouts	Medium	High cost therefore not being pursued	Red
Changing pedestrian crossing at The Street	Low	Not being pursued	Red
Promotion of alternative travel options	Low in short term	Being investigated as part of other initiatives	Yellow
Realignment of A272 to move road away from Huntscroft Cottages	Medium	Cost of over £200,000 originally included in 2015/16 Plan but no further action undertaken	Yellow


**Red** means scheme is expected to have little air quality benefit and/or is not viable

**Yellow** means it could potentially be investigated further


## Other general suggestions:

Air pollution warning service, A27 improvements, Improvements in national vehicle fleet, Air Quality planning guidance, District emission reduction strategy.


# Fact or Myth? - revisited




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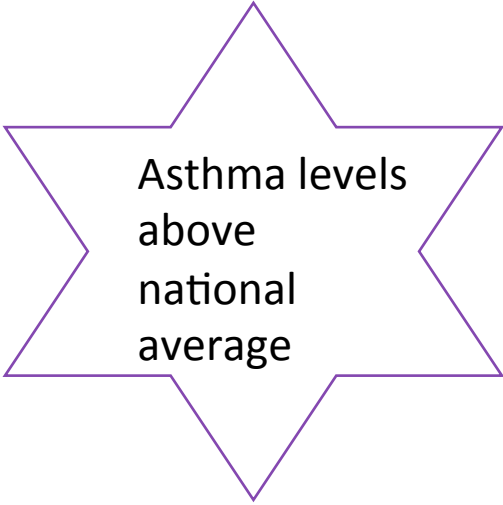
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