

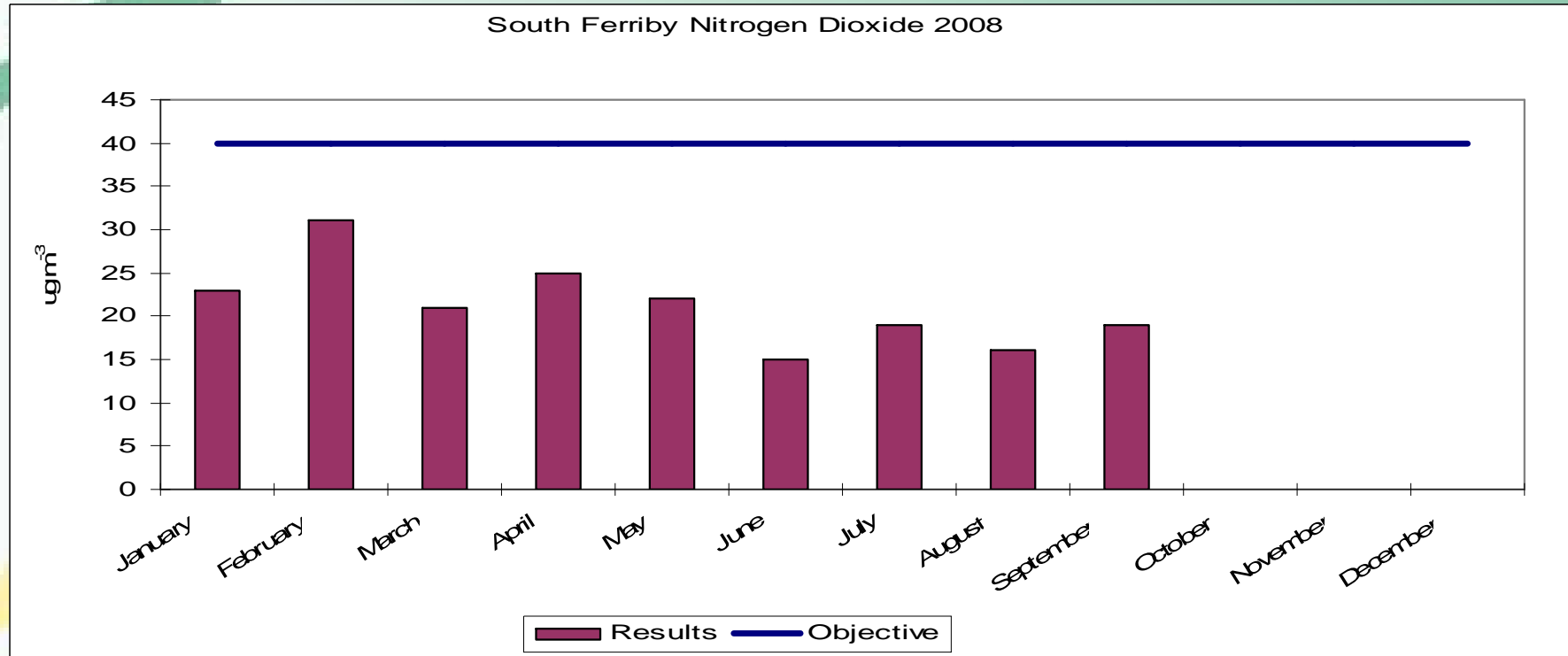
North Lincolnshire Council Air Quality Report

South Ferriby Liaison Committee

January 2009



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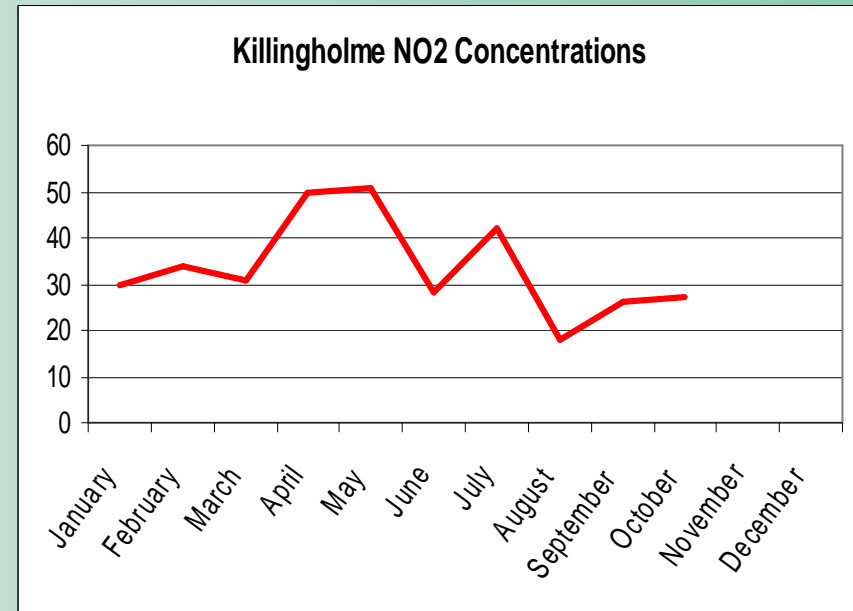
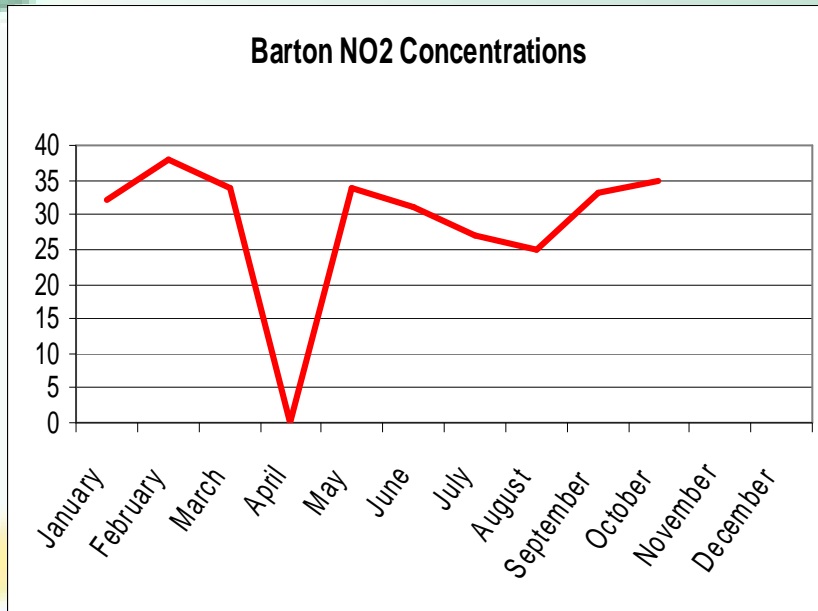
- 2008 NO₂ average of 21µg/nm³
- Maximum monthly average of 31µg/nm³
- Minimum monthly average of 15µg/nm³
- 100% data capture to date

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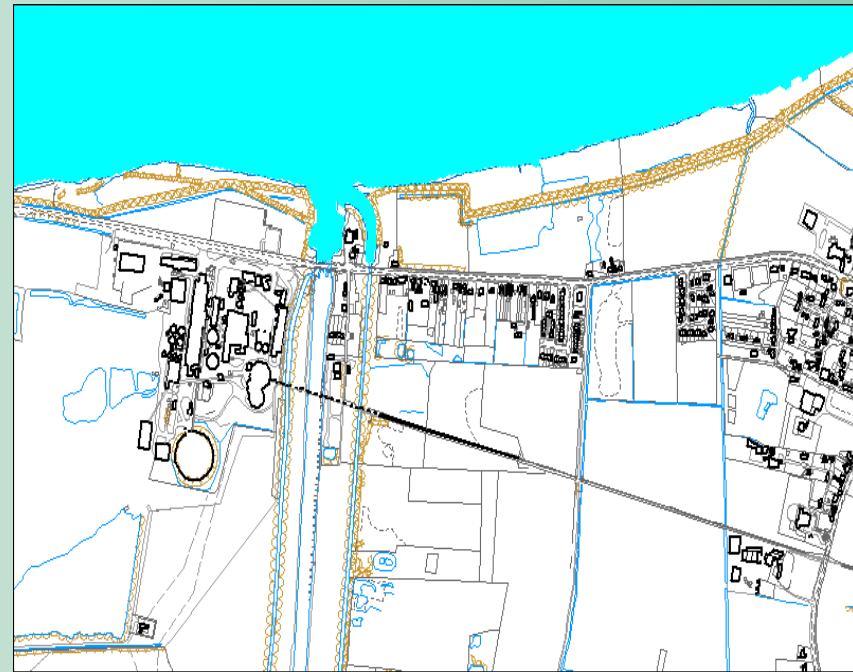
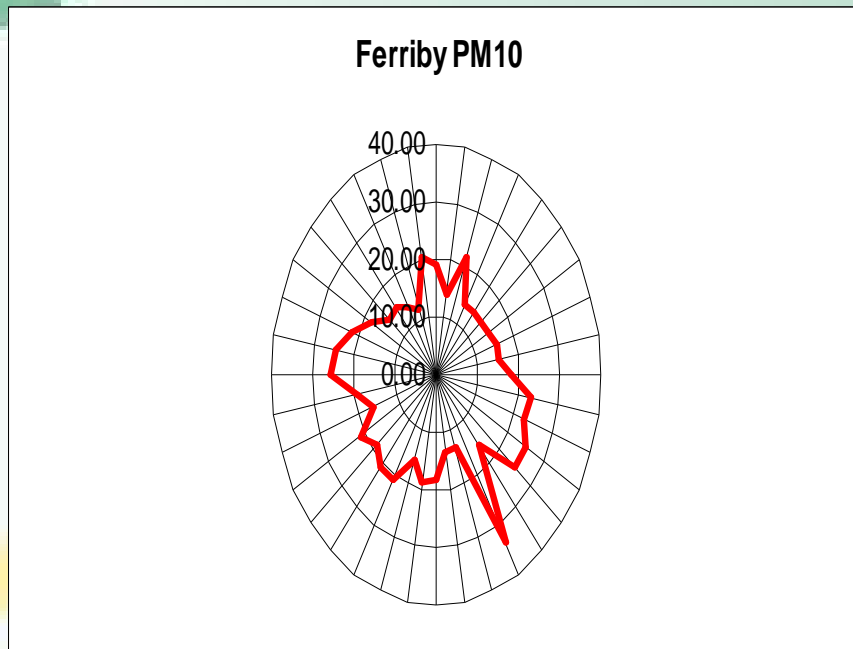
- Compared with 30 tubes positioned around Scunthorpe at major junctions and roads
- Combined Scunthorpe Tubes show year to date average of $31\mu\text{g}/\text{nm}^3$
- Maximum monthly average of $61\mu\text{g}/\text{nm}^3$ (Brigg Road)
- Minimum monthly average of $12\mu\text{g}/\text{nm}^3$ (Old Brumby Street)
- UK average of around $40\mu\text{g}/\text{nm}^3$

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- Killingholme NO2 Average $32\mu\text{g}/\text{nm}^3$, min of $18\mu\text{g}/\text{nm}^3$ and max of $51\mu\text{g}/\text{nm}^3$
- Barton NO2 Average of $34\mu\text{g}/\text{nm}^3$, min of $25\mu\text{g}/\text{nm}^3$ and max of $38\mu\text{g}/\text{nm}^3$

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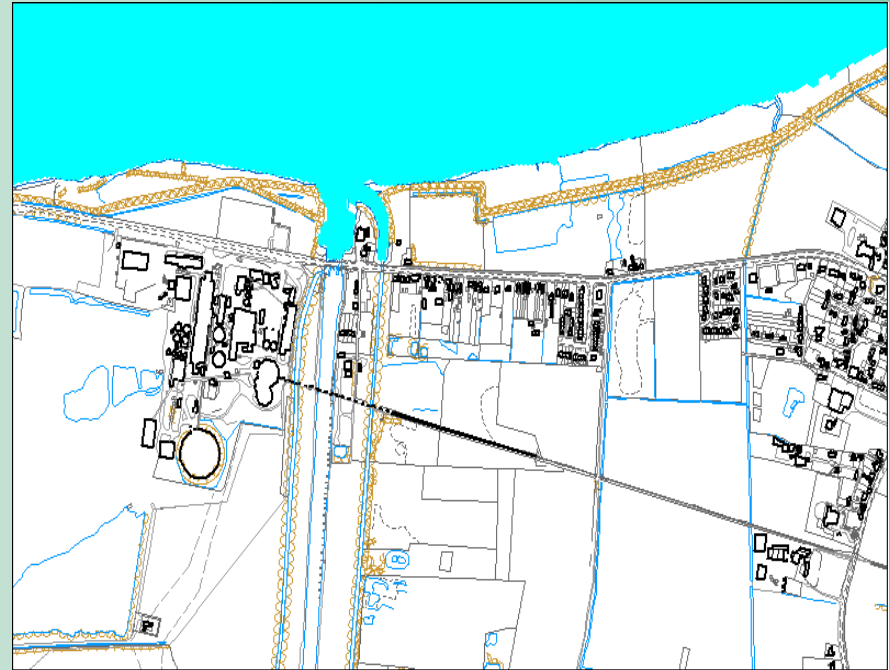
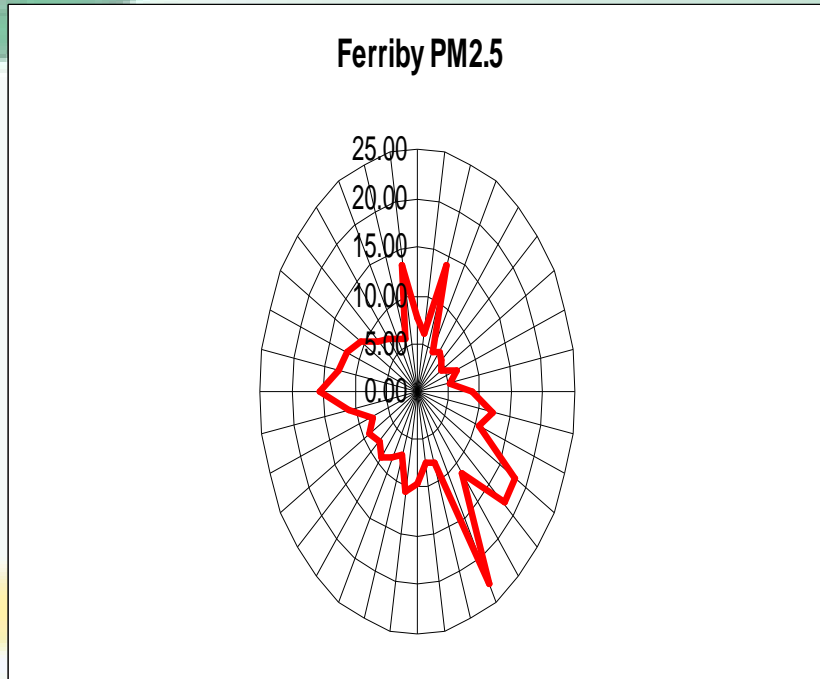


- Wind data collected from NLC Rowland Road monitoring station.
- Highest concentrations at 350° through 20°, potentially due to placement of monitor and proximity to A1077
- Increases during W & SW winds
- Unknown spike at 150° likely to be specific source.
- All levels well within Air Quality Objectives

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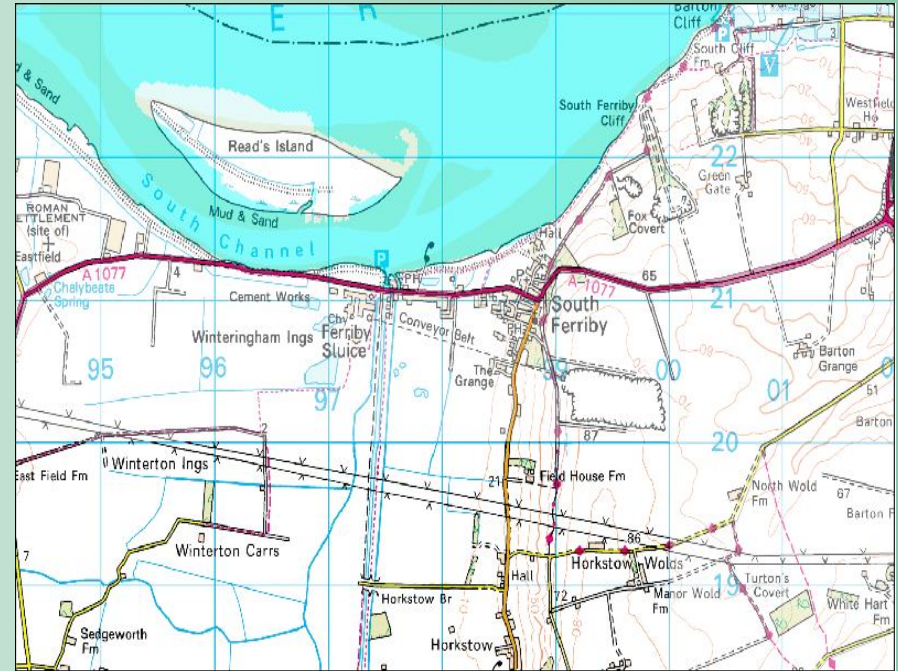
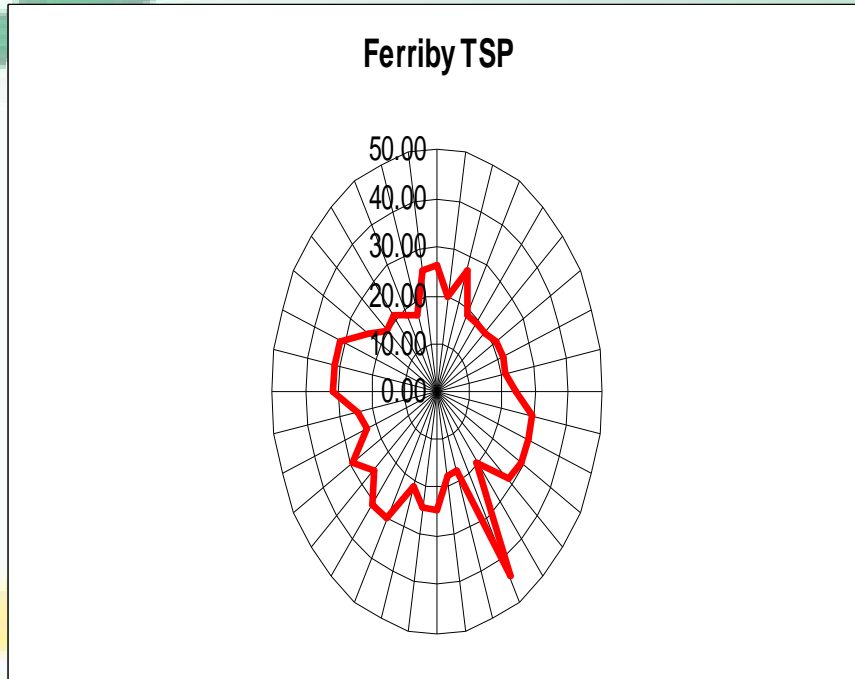


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- PM2.5 mirrors PM10 results. Again peaks from the North indicating A1077.
- Less pronounced peak from Westerly winds.
- Again unknown spike at 150 ° but high proportion of PM2.5 within PM10 indicating likely source to be combustion related.

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- Looking at a wider area a number of sources could be responsible for increases in TSP. Northerly sources likely to be from road traffic.
- Small increases from the west likely to be from crushing and milling activities from Cemex or unmade roads around the area.
- Next steps to look at pollution episodes to see if peaks occur at rush hours on road, high production at Cemex over longer periods of time. Data used only covers 6 weeks.

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- Air quality objectives state that a 24 hour mean of $50\mu\text{g}/\text{nm}^3$ should not be breached 35 times within a year.
- South Ferriby has not breached within the 6 weeks of data
- The annual mean should not be greater than $40\mu\text{g}/\text{nm}^3$
- The South Ferriby 6 week mean is $18.74\mu\text{g}/\text{nm}^3$
- PM2.5 annual mean objective to be met by 2020 is $25\mu\text{g}/\text{nm}^3$
- South Ferriby PM2.5 6 week mean is $9.3\mu\text{g}/\text{nm}^3$