

Appendices

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Appendix 1

Monitoring locations in King's Lynn & West Norfolk

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Automatic and DELTA denuder monitoring sites
NO₂ diffusion tube locations

Monitoring locations in King's Lynn & West Norfolk

Automatic and denuder monitoring sites		
Site name	Pollutants measured	Description
King's Lynn Railway Road	NO _x , NO ₂ , PM ₁₀	NO _x analyser and TEOM, within AQMA
Stoke Ferry	PM ₁₀ , PM _{2.5} & PM _{1.0} SO ₂	Osiris located at Furlong Road, Stoke Ferry, close to a feed mill operated by Grampian Country Feeds Ltd Measured by DELTA denuder

NO ₂ diffusion tube sites				
Current ID	AQMA	Site name	Site type	Comment
1	*	Railway Road 1	Kerbside	
2	*	Railway Road 4	Roadside	New site for 2006
3	*	Railway Road 5	Roadside	New site for 2006
4		Railway Road 6	Kerbside	New site for 2006
***		Railway Road West		Closed – 2005
***		Sainsbury's		Closed – 2005
***		Bus Station	Bus station	Closed – 2005
5		Bus Station 1	Bus station	New site for 2006
6		Bus Station 2	Bus station	New site for 2006
7, 8, 9	*	Railway Rd Monitoring Station	Co-located	
10		Mill Fleet 1	Roadside	New site for 2006
11		Mill Fleet 2	Roadside	New site for 2006
12	*	London Road 1	Roadside	
13	*	London Road 2	Roadside	

14	*	London Road 3	Roadside	
15	*	London Road 4	Roadside	
16	*	London Road 5	Roadside	
17	*	Southgates	Kerbside	
18		Wisbech Road KL	Roadside	New site for 2006
19		NORA 1	Roadside	New site for 2006
20		Hardwick Road	Roadside	
21		Vancouver Avenue 1	Roadside	
***		Vancouver Avenue		Closed – 2005
22	*	London Road 10	Roadside	New site for 2006
23	*	London Road 11	Kerbside	New site for 2006
24	*	London Road 6	Roadside	
25	*	London Road 7	Roadside	
26	*	London Road 8	Roadside	
27, 28, 29		The Walks	Roadside	
30	*	Railway Road 7	Roadside	New site for 2006
3	*	St John's Terrace	Roadside	
3	*	St John's Terrace / Blackfriars	Roadside	
3		Waterloo Street	Kerbside	
3		Portland Street	Kerbside	
3	*	Railway Road 2	Kerbside	
3	*	Railway Road 3	Roadside	
3		Wellesley Street	Kerbside	
3	*	Blackfriars 2	Roadside	
3	*	Blackfriars 1	Roadside	
40	*	Norfolk Street	Roadside	
41	*	Blackfriars 3	Roadside	New site for 2006

NO ₂ diffusion tube sites				
Current ID	AQMA	Site name	Site type	Comment
42	*	Littleport Street	Roadside	
43		Gaywood Road 2	Roadside	
44		The Swan, Gayton Road	Roadside	
45		Wootton Road 2	Roadside	New site for 2006
46		Wootton Road 1	Roadside	
47		Lynn Road 1	Roadside	New site for 2006
48		Lynn Road 2	Roadside	New site for 2006
49		Gaywood Road 3	Roadside	
50		Gaywood Road 1	Roadside	
51	*	Austin Street 1	Roadside	
52	*	Austin Street 2	Roadside	
53		Edward Benefer Way	Roadside	
54, 55, 56		Kilham's Way	Roadside	
57		Low Road, South Wootton	Roadside	
58		Castle Rising Road, South Wootton	Roadside	
***		Saddlebow Road 2		Closed – 2005
***		Saddlebow Road 3		Closed – 2005
***		Saddlebow Road 1		Closed – 2005
59		Tennyson Avenue 1	Roadside	
60		Tennyson Avenue 2	Roadside	
61		Wisbech Road 1	Roadside	
62		Wisbech Rd Elm 1 (Elm High Rd)	Roadside	
63		Wisbech Rd Elm 3 (Elm High Rd)	Roadside	New site for 2006
64		Wisbech Rd Elm 4 (Elm High Rd)	Roadside	New site for 2006
65		Wisbech Rd Elm 5 (Elm High Rd)	Roadside	New site for 2006
66		Wisbech Rd Elm 6 (Elm High Rd)	Roadside	New site for 2006
67		Wisbech Rd Elm 2 (Elm High Rd)	Roadside	
68		London Road Downham Market	Roadside	New site for 2006
69		Railway Road Downham Market	Roadside	
70		Bridge Street Downham Market	Roadside	
71		Lynn Road Downham	Roadside	
72		Bexwell Road Downham Market	Roadside	
73		Buckenham Drive Stoke Ferry	Roadside	
74		High Street Stoke Ferry	Roadside	
75		Furlong Road Stoke Ferry	Roadside	
76		West Winch 1	Roadside	New site for 2006
77		West Winch 2	Roadside	New site for 2006
***		Post Cottage Main Road, Fincham		Closed – 2005
***		The Cottage Main Road Fincham		Closed – 2005
***		Hunstanton 1		Closed – 2005
***		Hunstanton 2		Closed – 2005
78		BLANK	Blank	

Key to site type:

Kerbside Within 1m of kerb

Roadside 1-5 m from kerb of busy road, public exposure

Bold type Co-located with corresponding automatic monitoring site

Appendix 2 Automatic monitoring data

Contents

Air Pollution Report for King's Lynn Railway Road automatic monitoring site, 2006

Air Pollution Report

Produced by AEA Energy & Environment on behalf of King's Lynn & West Norfolk BC

KING'S LYNN RAILWAY ROAD 01 January to 31 December 2006

These data are provisional from 01/04/2006 and may be subject to further quality control

POLLUTANT	NO _x	NO	NO ₂	PM ₁₀₊	PM ₁₀ *
Number Very High	-	-	0	0	-
Number High	-	-	0	0	-
Number Moderate	-	-	0	47	-
Number Low	-	-	7590	7994	-
Maximum 15-minute mean	991 µg m ⁻³	589 µg m ⁻³	117 µg m ⁻³	880 µg m ⁻³	1144 µg m ⁻³
Maximum hourly mean	966 µg m ⁻³	579 µg m ⁻³	103 µg m ⁻³	459 µg m ⁻³	597 µg m ⁻³
Maximum running 8-hour mean	844 µg m ⁻³	510 µg m ⁻³	93 µg m ⁻³	137 µg m ⁻³	179 µg m ⁻³
Maximum running 24-hour mean	529 µg m ⁻³	314 µg m ⁻³	85 µg m ⁻³	59 µg m ⁻³	77 µg m ⁻³
Maximum daily mean	456 µg m ⁻³	272 µg m ⁻³	85 µg m ⁻³	56 µg m ⁻³	73 µg m ⁻³
Average	82 µg m ⁻³	33 µg m ⁻³	32 µg m ⁻³	20 µg m ⁻³	26 µg m ⁻³
Data capture	86.6 %	86.6 %	86.6 %	91.8 %	91.8 %

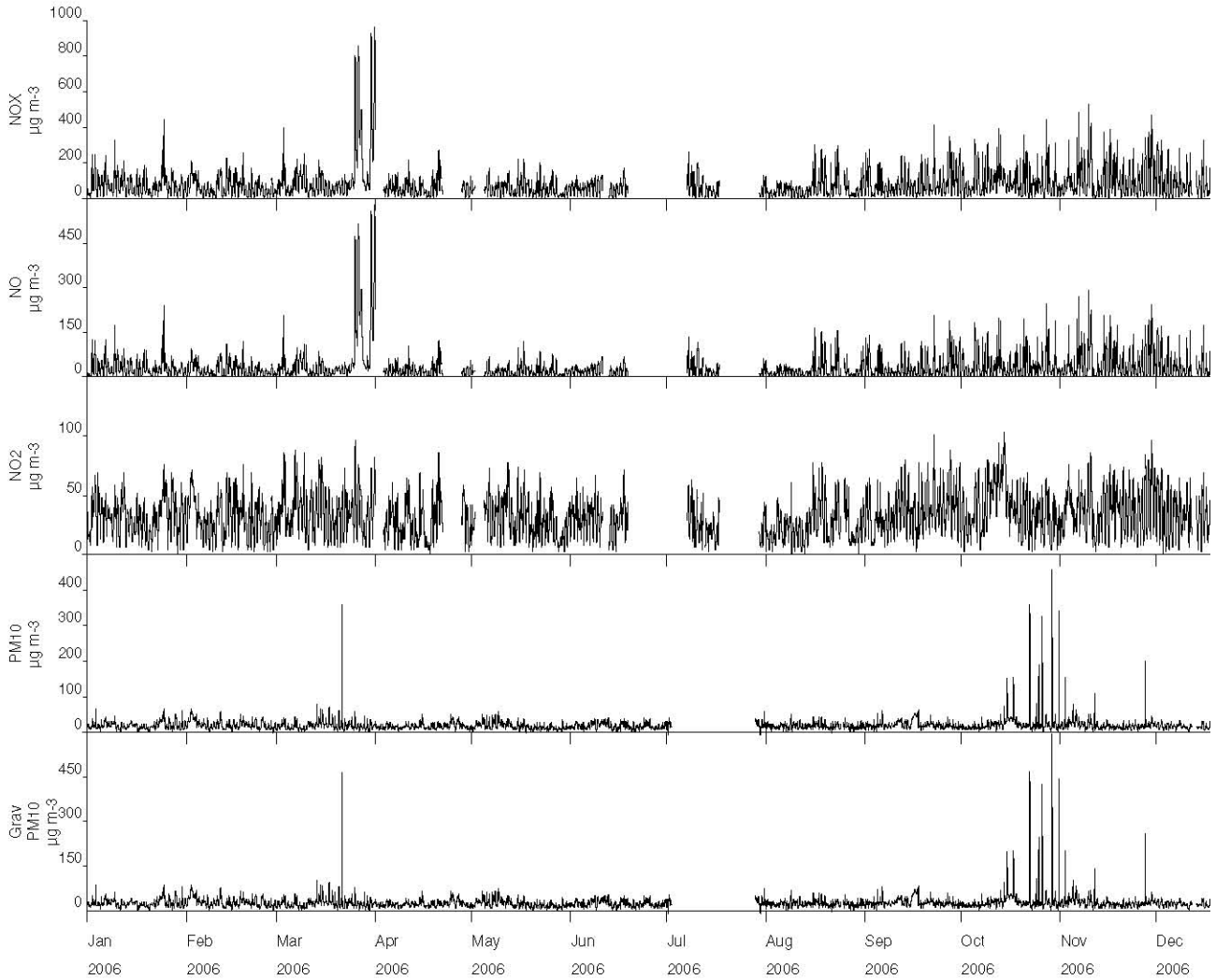
* PM₁₀ is indicative gravimetric equivalent with a factor of 1.3 applied -as measured by a TEOM
+ PM₁₀ as measured by a TEOM
All mass units are at 20°C and 1013mb
NO_x mass units are NO_x as NO₂

Pollutant	Air Quality (England) Regulations 2000 and (Amendment) Regulations 2002	Exceedences	Days
Nitrogen Oxides (NO ₂)	Annual mean > 30 µg m ⁻³	1	-
Nitrogen Dioxide	Annual mean > 40 µg m ⁻³	0	-
Nitrogen Dioxide	Hourly mean > 200 µg m ⁻³	0	0
PM ₁₀ Particulate Matter (Gravimetric)	Daily mean > 50 µg m ⁻³	9	9
PM ₁₀ Particulate Matter (Gravimetric)	Annual mean > 40 µg m ⁻³	0	-

Air Pollution Report

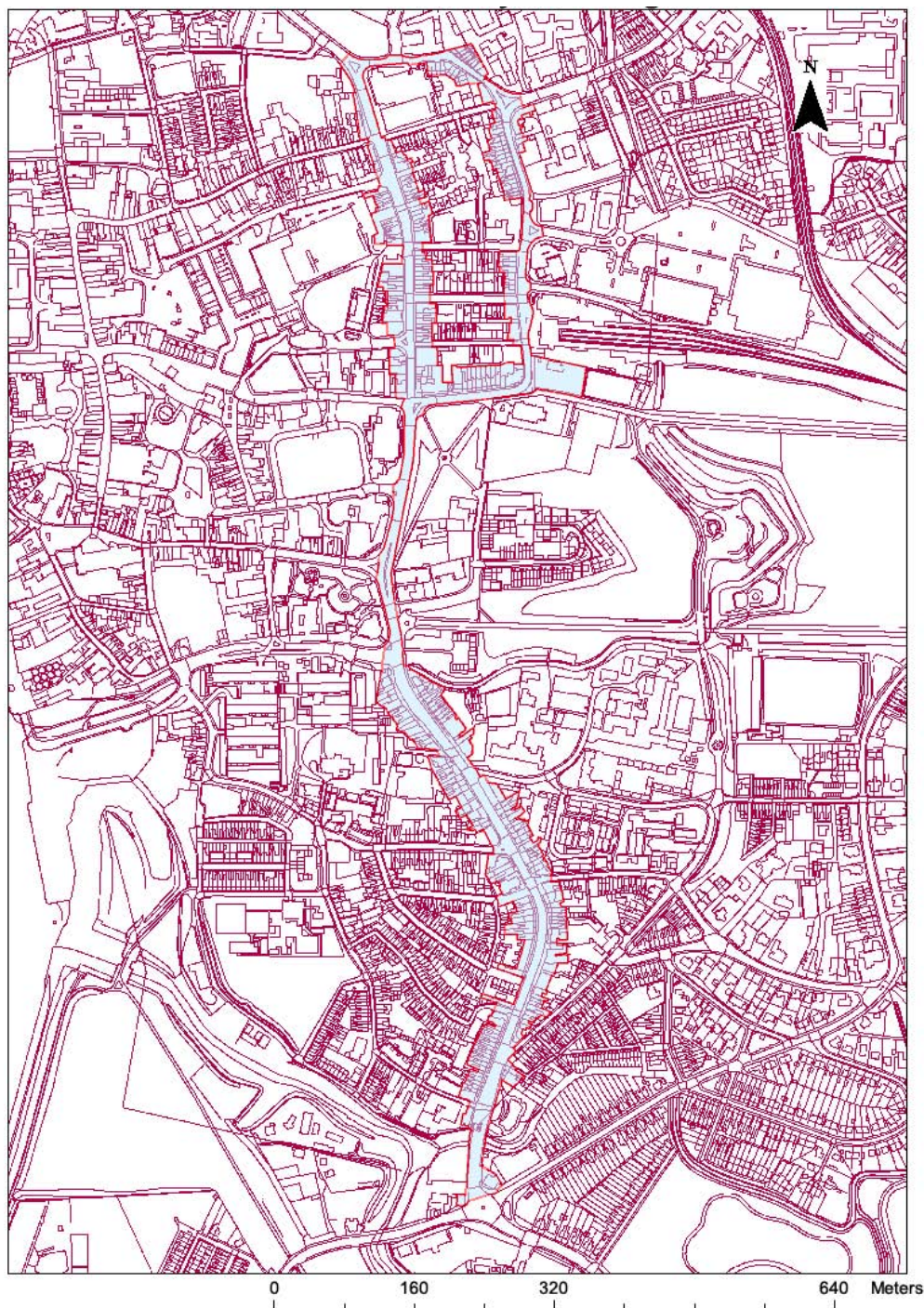
Produced by AEA Energy & Environment on behalf of King's Lynn & West Norfolk BC

King's Lynn Railway Road Air Monitoring Hourly Mean Data for 01 January to 31 December 2006



Appendix 3 AQMA boundary

Extended Railway Road AQMA Boundary



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