

Appendices

Appendix A: QA/QC Data

Appendix B: AQMA Maps

Appendix C: Nitrogen dioxide diffusion tube data – raw dataset

Appendix A: QA:QC Data

Factor from Local Co-location Studies (if available)

Not applicable for this report – the national spreadsheet has been used.

Diffusion Tube Bias Adjustment Factors

These are discussed in section 2.2.1. Spreadsheet Version 06/12 has been used.

Discussion of Choice of Factor to Use

This is discussed in section 2.2.1

PM Monitoring Adjustment

PM₁₀ data collected using the TEOM instrument is converted by Air Quality Data Management (AQDM) to reference equivalence using the volatile correction method (VCM).

Short-term to Long-term Data adjustment

Not applicable – this has not been done for data presented in this report.

QA/QC of automatic monitoring

PM₁₀ data is collected using a TEOM instrument at Watford Town Hall. Data is collected via modem by AQDM, where the data is also validated and reported. Real time data, as well as weekly, monthly and annual reports are available from Hertfordshire & Bedfordshire Air Pollution Monitoring Network website; www.hertsbedsair.org.uk

All servicing and maintenance of the continuous monitors at Watford Town Hall (including periodic calibration of equipment) is managed by ERG, Kings College London. The equipment is audited annually by the National Physical Laboratory as part of the QA for the Network.

QA/QC of diffusion tube monitoring

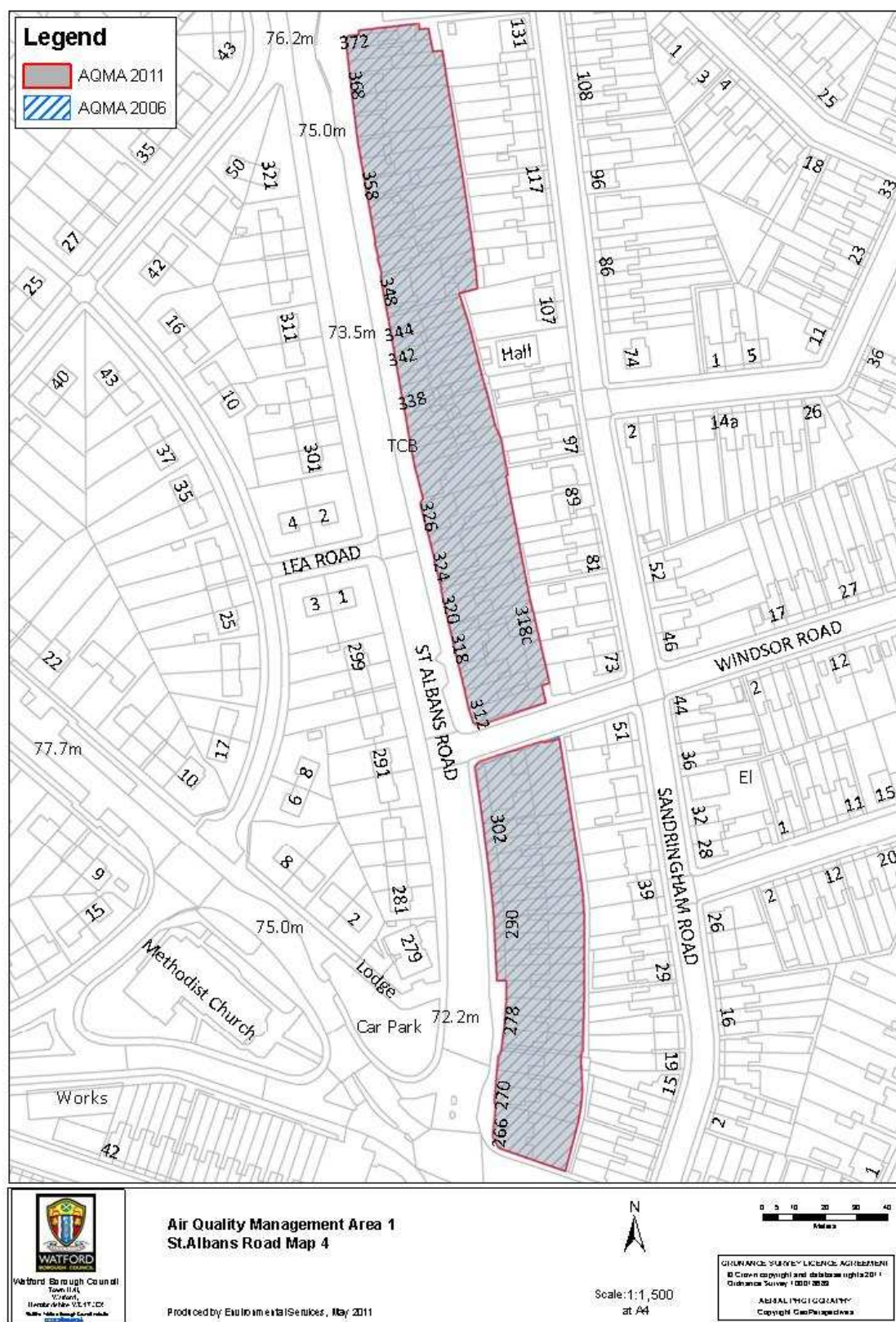
This is discussed in section 2.1.2

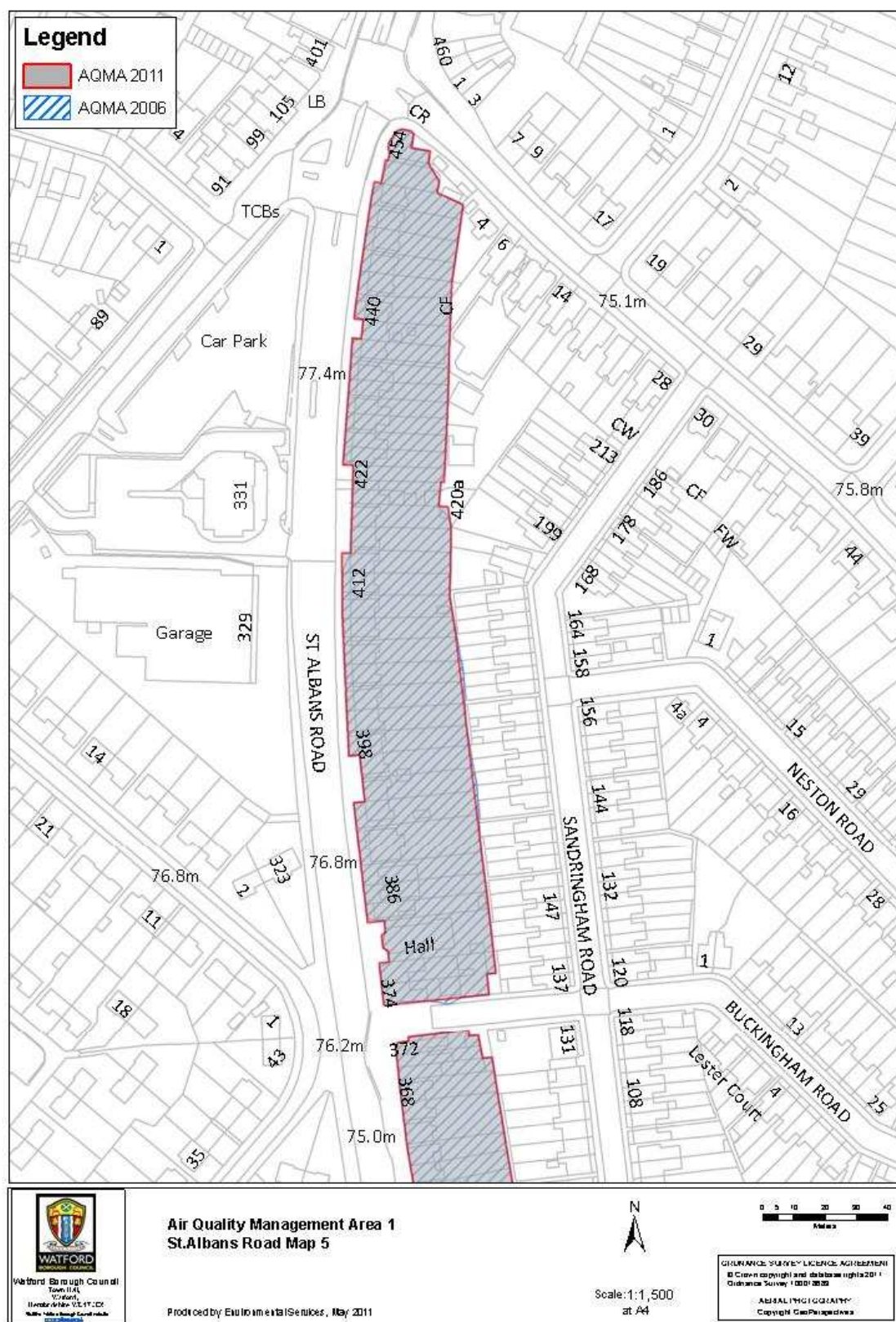
Appendix B: Air Quality Management Area Maps

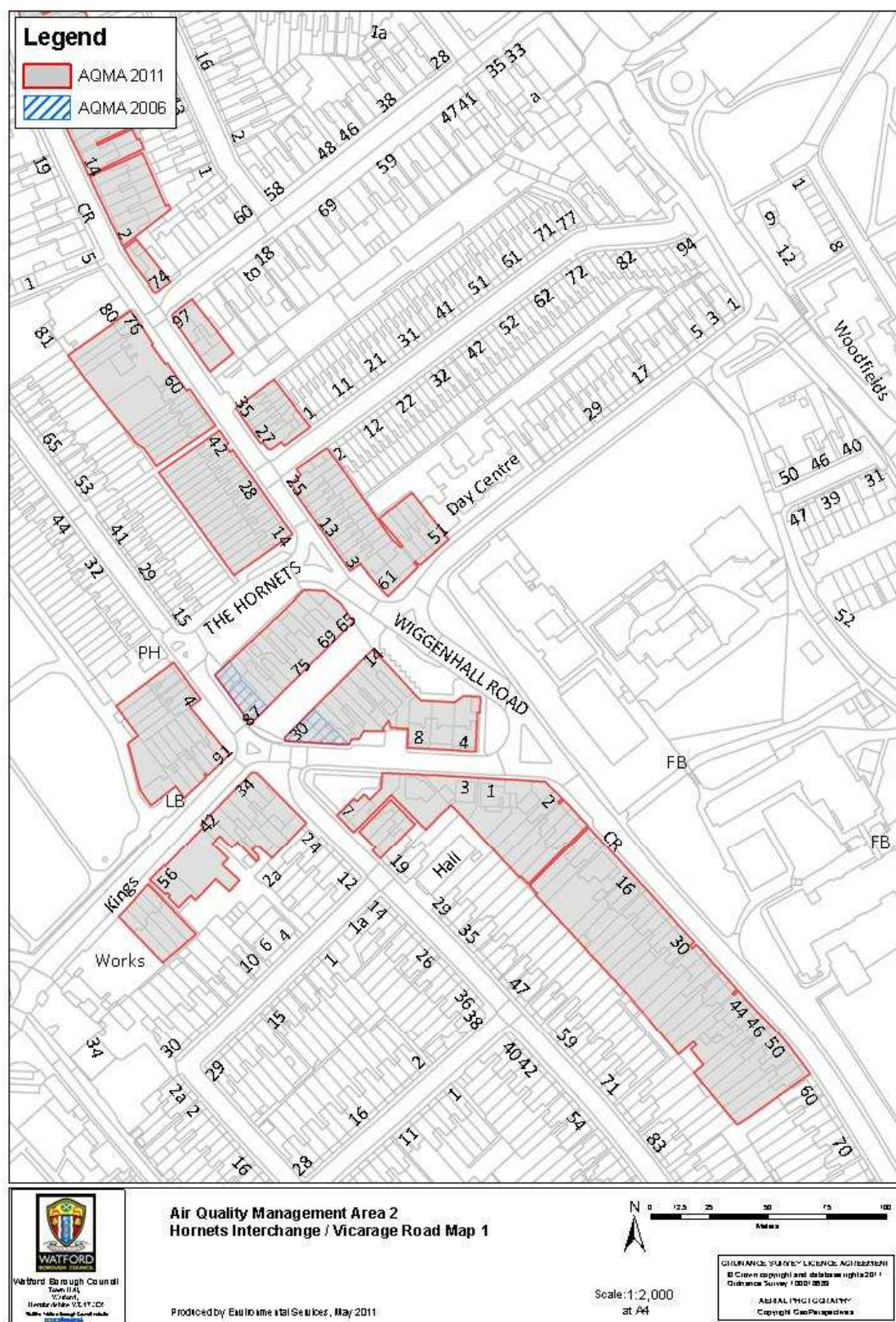


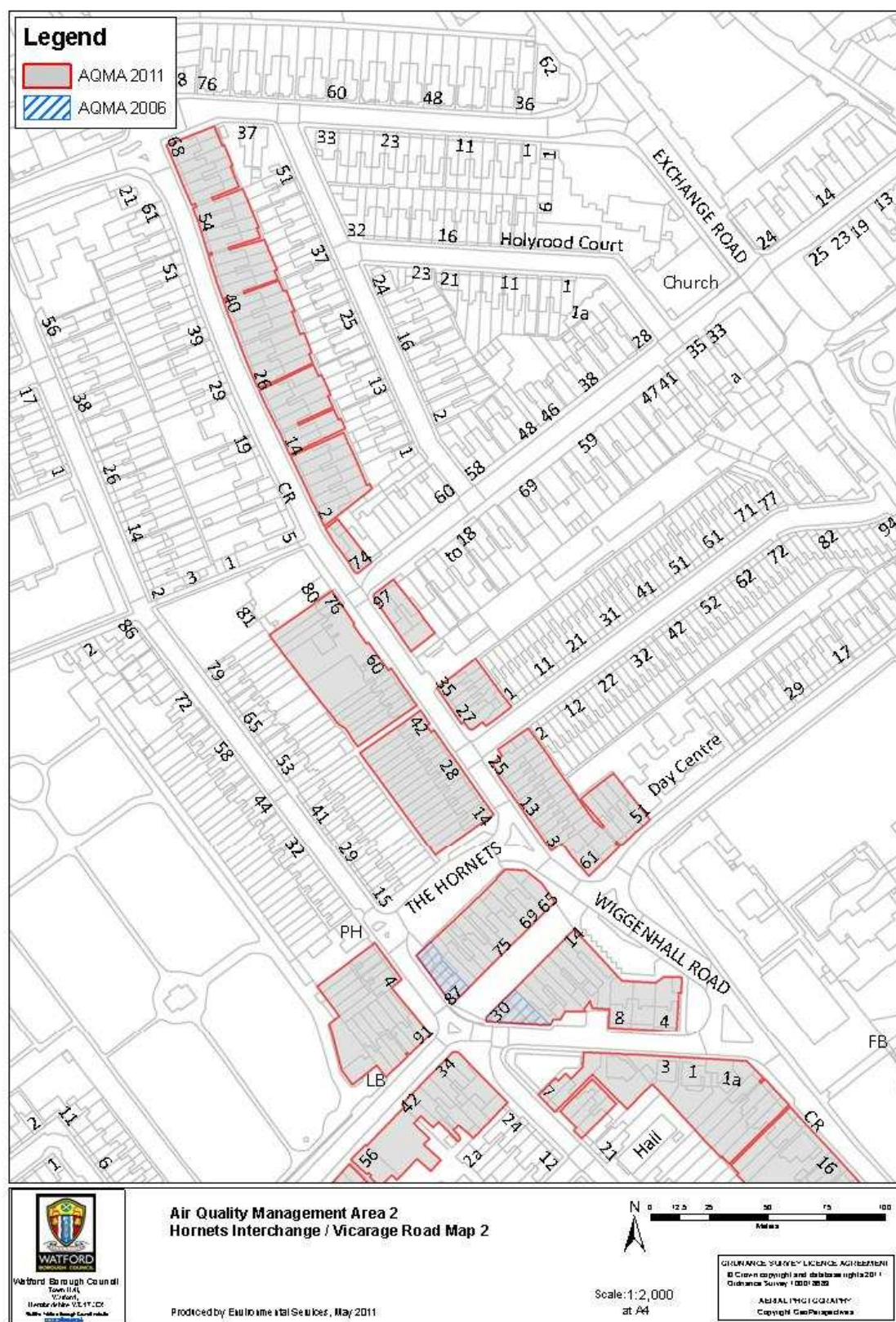


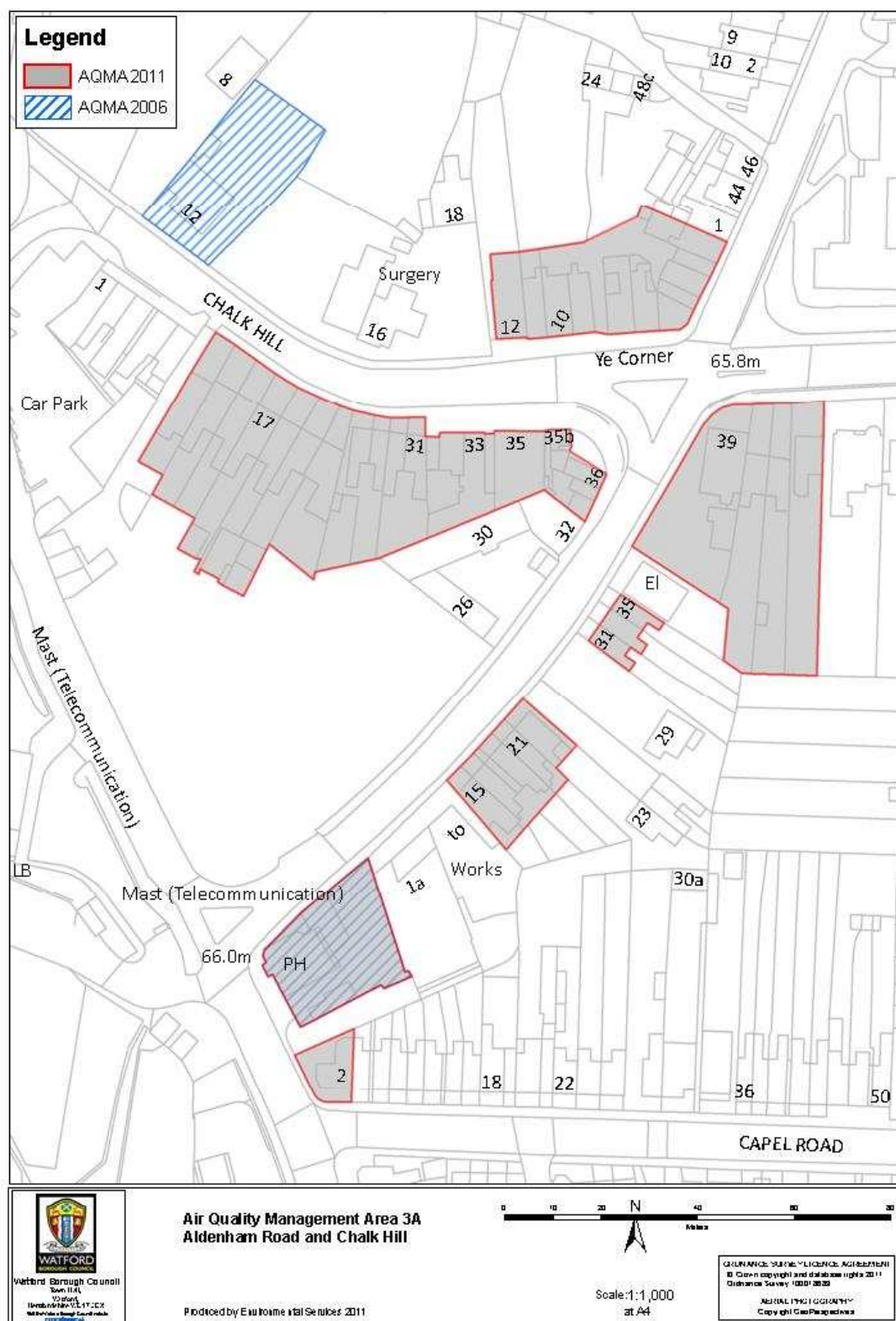






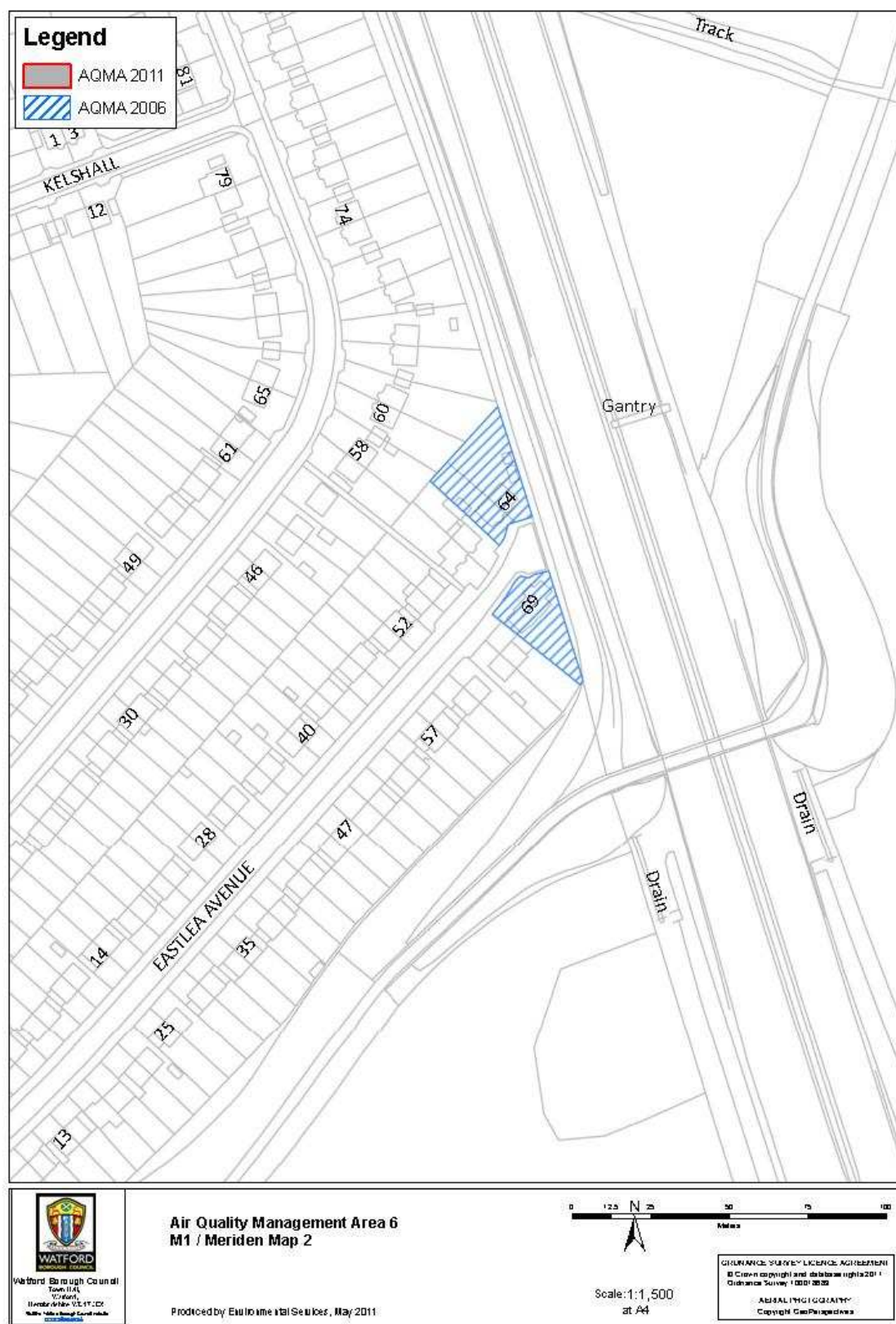












Appendix C: Nitrogen dioxide diffusion tube data – raw dataset

NO2 tube results for Watford (Jan - Dec 2011) ug m-3

Site	Environment	Location	Easting	Northing	January	February	March	April	May	June	July	August	September	October
WF02	background	Grove Pumping Station Hempstead Road	508700	198900	33	30	31	18	14	13	13	16		22
WF03	kerbside	Hospital Vicarage Road	510600	195700	61	54	64	37	38	34	36	41	40	39
WF06	background	Leisure Centre Horseshoe Lane	511000	200700	43	37	36	22	16	18	15	19	21	31
WF29	kerbside	Pinner Road	512000	195300	85	72	85	61	49	54	43	54	54	67
WF31	intermediate	High Road Leavesden	509900	200000	59	54	40	32	30	29	25	33	8	45
WF34	background	Westland Road	510900	197200	47	46	48	29	24	23	21	27	29	41
WF36	intermediate	Ravenscroft	512300	200100	50	44	49	30	26	27	25	27	28	35
WF37	kerbside	St Albans Road 2	511200	198100	37	63	57	47	34	29	32	37	35	53
WF38	kerbside	A405 Horseshoe Lane	511700	200700	31	64	65	41	41	30	36	42	36	55
WF39	kerbside	Balmoral Road	511000	198300	69	68	66	55	40	39	40	45	47	64
WF40	kerbside	Salisbury Road	511000	198000	74	69	67	47	32	34	35	36	41	48
WF41	kerbside	Leavesden Road	510900	197800		56	51	41	30	31	25	33	35	48
WF42	kerbside	Queens Road	511200	197000	53	54	53	36	27	32	31	32	32	
WF43	kerbside	Farraline Road	510800	196000	80	66	54	59		25	53	59	57	65
WF44	kerbside	Chalk Hill	512000	195500	123	100	105	99		80	90	107	87	108
WF45	kerbside	Wellington Road	510800	197200	61	49	49	43		32	29	34	38	50
WF46	roadside	Town Hall no 2 Colocation	510565	196808	57	52	55	38	37	35	31	38	36	52