



2010 Air Quality Progress Report for Waverley Borough Council

In fulfillment of Part IV of the Environment Act 1995
Local Air Quality Management

Date: February 2010

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Executive Summary

This report presents the findings of Waverley Borough Council's Annual Progress Report of Air Quality within the Borough. The Progress Report evaluates new and changed sources to identify those that may require consideration in further reports.

Previously air quality assessments have concluded that concentrations of carbon monoxide, benzene, 1,3-butadiene, lead, sulphur dioxide (SO₂) and particulates (PM₁₀) are compliant with UK air quality objectives. However concentrations of nitrogen dioxide (NO₂) have been found to exceed the annual mean objective at various locations within the Borough. A Detailed Assessment was carried out in 2004 and three Air Quality Management Areas (AQMAS) for annual mean nitrogen dioxide objective were declared in the Borough.

This declaration committed Waverley to taking action towards achieving air quality objectives in AQMAS. In line with statutory requirements Waverley Borough Council put in place its Air Quality Action Plan in 2008. The Action Plan is an evolving document and since its publication in July 2008 changes have occurred in its content. This includes the Air Quality behaviour-changing campaign that began in March 2009 and other improving actions associated with the inter-agency Air Quality Workshop for Farnham.

The East Street, Farnham, Development has been granted planning permission since the last report. This is an ambitious scheme to build up a mixed-use development in Farnham Town Centre. The proposed site is adjacent to the current Farnham AQMA and although planning permission has been granted the Environmental Health Service has been consulted on the air quality implications of this development on the AQMA.

Current Air Quality Progress Report has not identified any new or significantly altered road traffic, industrial, commercial or domestic sources that need to be subjected to a Detailed Assessment.

However last year's Updated and Screening Assessment indicated a potential new source – the Farnham Level Crossing that may give a risk of exceedences of an air quality objective. Following DEFRA requirements the Farnham level Crossing area has been subjected to Detailed Assessment. Currently air monitoring is being undertaken in this area. The Detailed Assessment report will be submitted to DEFRA when the findings from this monitoring become clear, as agreed.

Since the last report the NO₂ diffusion tube site network increased from 38 to 41 and automatic continuous monitoring stations located within AQMAs were reactivated after an inactive period.

Future 'Air Quality Progress Reports' will be published annually except during the years when Defra require a more detailed 'Updating and Screening Assessment' report to be undertaken.

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1 Introduction

1.1 Description of Local Authority Area

Waverley Borough is situated in the southwestern corner of Surrey. The Borough is largely rural with four main population centres: Farnham, Godalming, Haselmere and Cranleigh. Road traffic has been recognised as the major source of pollution in the Borough.

Two main trunk routes cross Waverley: the A31 London to Winchester and the A3 London to Portsmouth dual carriageways. The latter includes the site of the new Hindhead bypass route, currently under construction to relieve a serious bottleneck on the A3 route in the village of Hindhead.

1.2 Purpose of Progress Report

Progress Reports are required in the intervening years between the three-yearly Updating and Screening Assessment (USA) reports. Their purpose is to maintain continuity in the Local Air Quality Management process.

They are not intended to be as detailed as Updating and Screening Assessment Reports, or to require as much effort. However, if the Progress Report identifies the risk of exceedences of an Air Quality Objective, the Local Authority (LA) should undertake a Detailed Assessment immediately, and not wait until the next round of Review and Assessment.

1.3 Air Quality Objectives

The air quality objectives applicable to Local Air Quality Management (LAQM) in **England** are set out in the Air Quality (England) Regulations 2000 (SI 928), and the Air Quality (England) (Amendment) Regulations 2002 (SI 3043). They are shown in Table 1.1. This table shows the objectives in units of microgrammes per cubic metre $\mu\text{g}/\text{m}^3$ (for carbon monoxide the units used are milligrammes per cubic metre, mg/m^3). Table 1.1. Includes the number of permitted exceedences in any given year (where applicable).

Table 1.1 Air Quality Objectives included in Regulations for the purpose of Local Air Quality Management in England.

Pollutant	Concentration	Measured as	Date to be achieved by
Benzene	16.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2003
	5.00 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2010
1,3-Butadiene	2.25 $\mu\text{g}/\text{m}^3$	Running annual mean	31.12.2003
Carbon monoxide	10.0 mg/m^3	Running 8-hour mean	31.12.2003
Lead	0.5 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2004
	0.25 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2008
Nitrogen dioxide	200 $\mu\text{g}/\text{m}^3$ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2005
Particles (PM₁₀) (gravimetric)	50 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
	40 $\mu\text{g}/\text{m}^3$	Annual mean	31.12.2004
Sulphur dioxide	350 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266 $\mu\text{g}/\text{m}^3$, not to be exceeded more than 35 times a year	15-minute mean	31.12.2005

1.4 Summary of Previous Review and Assessments

In addition to the standard yearly USA and Progress Reports Waverley Borough Council has to date completed a Detailed Assessment (2004) and an associated Further Assessment (2007).

The first round of review and assessment concluded that no exceedences of statutory air quality objectives were occurring in the Borough and in consequence, no Air Quality Management Areas (AQMAs) were required. However, the 2003 USA report determined that exceedences of the objectives were possible for nitrogen dioxide and therefore Detailed Assessment of nitrogen dioxide levels were required for three locations: the centres of Farnham and Godalming and the junction in Hindhead of the A3 and the A287.

The subsequent Detailed Assessment based on computer dispersion modelling and monitoring confirmed that exceedences were likely at these locations and the Council declared three AQMAs in 2005 (see Figures 1.1 to 1.3 below) in central Farnham AQMA, central Godalming and in Hindhead.

A Further Assessment was undertaken in 2007, which confirmed the findings of the Detailed Assessment and recommended: that the Farnham AQMA be extended and that the other two AQMAs be left unaltered. An Air Quality Action Plan is now in place for the Farnham and Godalming AQMAs, whereas the opening of the Hindhead Relief Road (Hindhead Tunnel) in 2011 should resolve that air quality problem.

The Council published a detailed Updating and Screen Assessment of local air quality in May 2009. As a result of changes in T(09) guidance regarding the identification of narrow congested streets, the USA has identified one potential new source, which requires a Detailed Assessment. The location of special concern is: the street approaching and surrounding the railway level crossing, on the B3001 Station Hill, including Waverley Lane and Tilford Road, Farnham.

Currently monitoring is undertaken in this area and the Detailed Assessment report will be submitted to DEFRA when the findings from this monitoring become clear, as agreed.

Figure 1.1 Farnham AQMA Area Declared

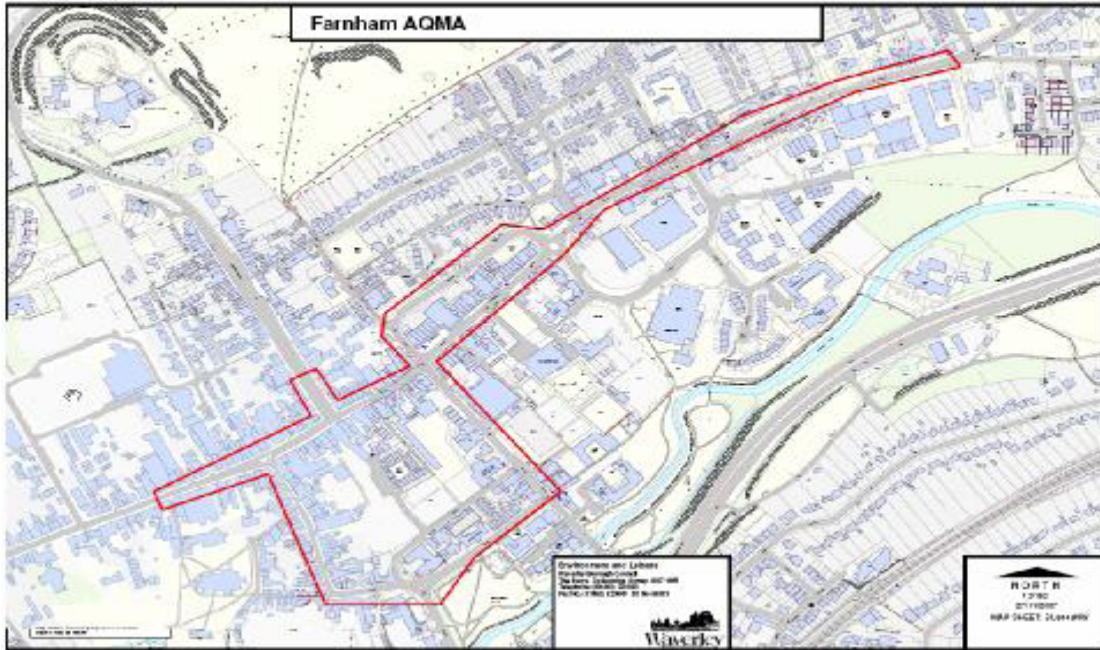


Figure 1.2 Godalming AQMA Area Declared

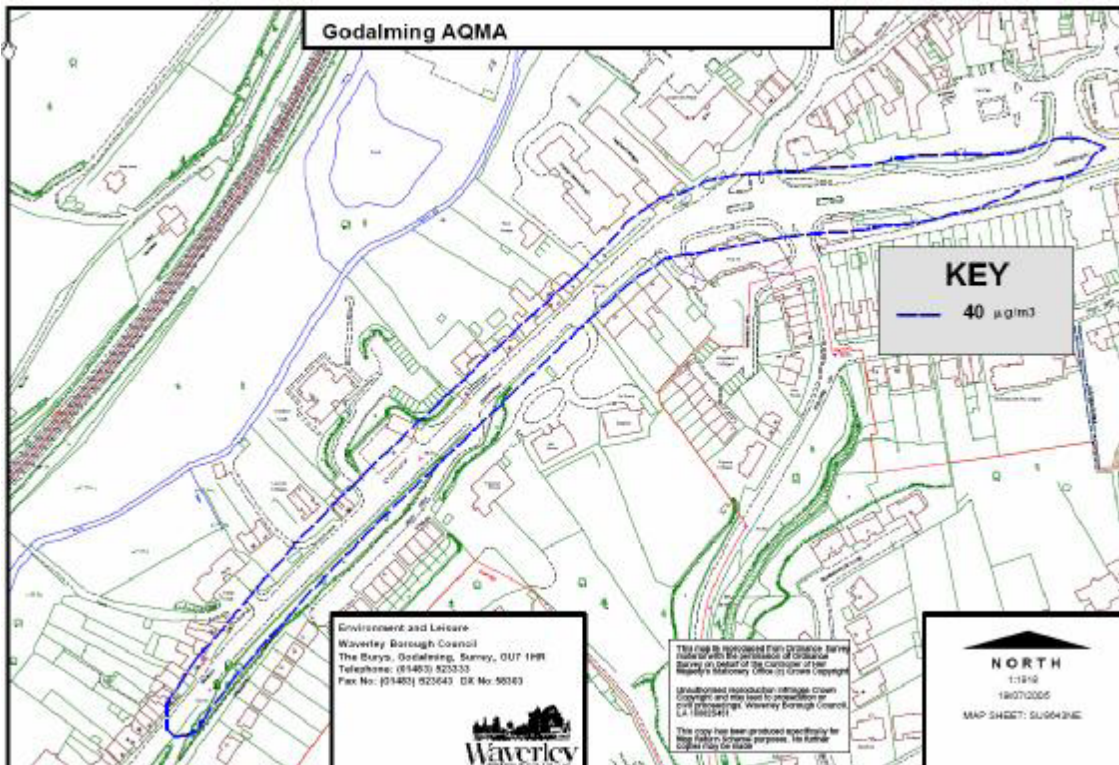
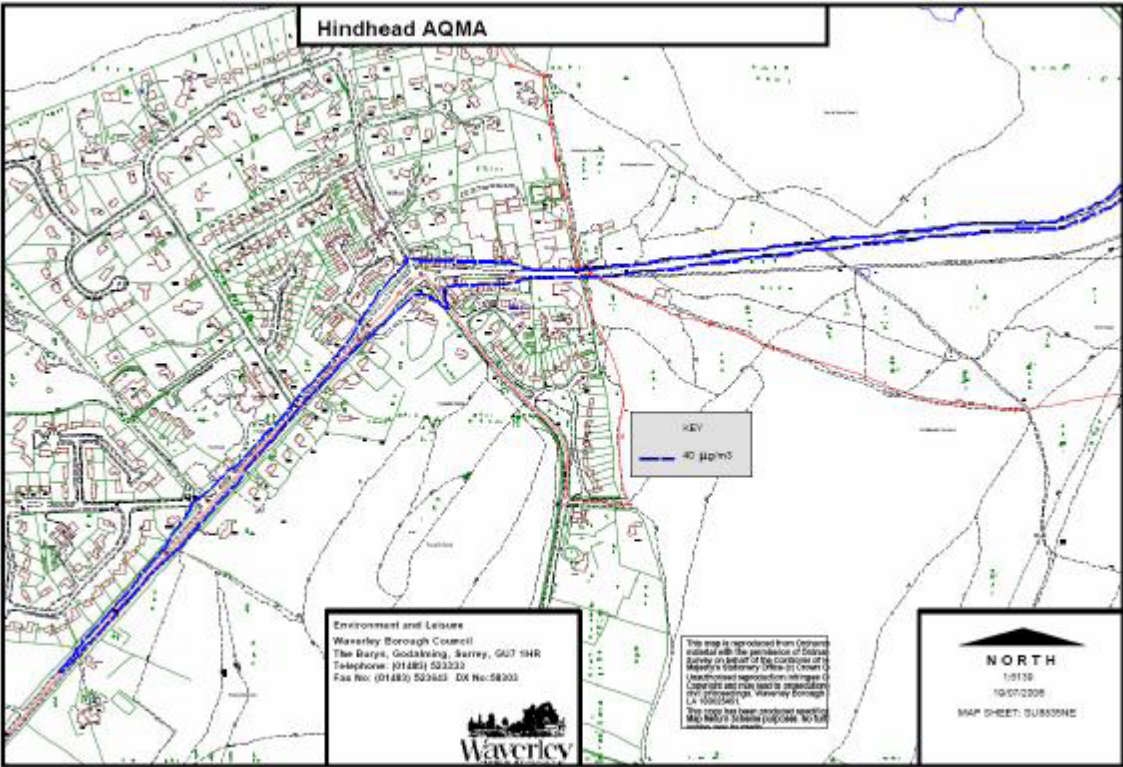


Figure 1.3 Hindhead AQMA Area Declared



2 New Monitoring Data

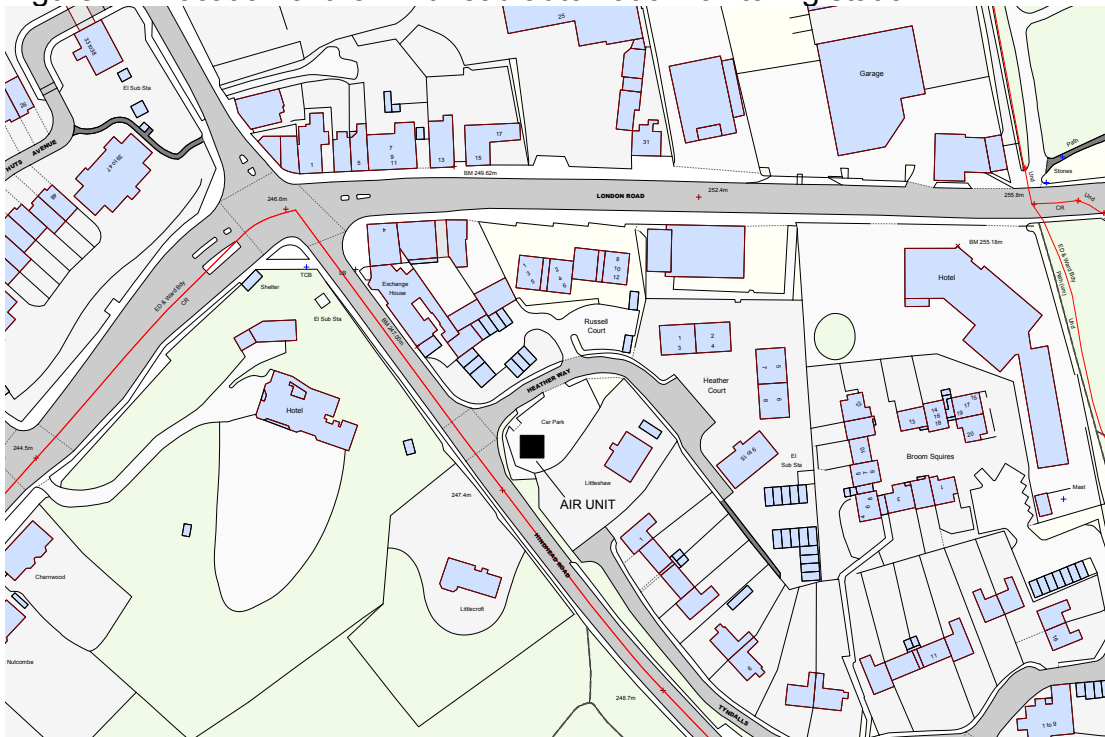
In Waverley there are three automatic monitoring stations, all monitoring NO₂ and one also monitoring particulates. The Environmental Health Service also operates a comprehensive network of diffusion tubes. There are now 40 NO₂ diffusion tube-monitoring locations across the Borough. **[An external consultant is currently ratifying the automatic data and diffusion tube data. The monitoring data report will be attached as an appendix.]**

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

Automatic monitoring is carried out at three locations in the Borough, one each at roadside locations within the Hindhead, Godalming and Farnham AQMAs. All sites measure NO₂ while Farnham site monitors also PM₁₀. The location of the analysers is shown in figures 2.1 to 2.3. No additional monitoring stations have been established since last year's Updating and Screening Assessment. The equipment is serviced and calibrated by Enviro-Technology. Members of the Environmental Health Service perform monthly span tests using Air Liquide span gas to ensure accurate data is continually produced. The Faber Maunsell Consultancy ratifies data from all three automatic monitoring sites.

Figure 2.1 Location of the Hindhead automatic monitoring station.



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Hindhead air monitoring unit is located at the edge of the Hindhead AQMA, at the junction of the A3 Portsmouth Road and the A287 Haslemere to Farnham road in Hindhead in southwest Waverley.

Figure 2.2 Location of the Farnham automatic monitoring station.



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Farnham air monitoring unit is located within AQMA, on the A325 in Farnham town centre at the junction of East Street and Bear Lane. The EnviroTechnology API analyser continuously monitors concentration of nitrogen dioxide (NO₂) and Beta-Attenuated Particle Monitor monitors the PM₁₀ level.

Figure 2.3 Location of the Godalming automatic monitoring station.



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Godalming air monitoring unit is located within the AQMA, along the Ockford Road in Godalming town centre. It continuously monitors concentration of nitrogen dioxide (NO₂) using EnviroTechnology API analyser.

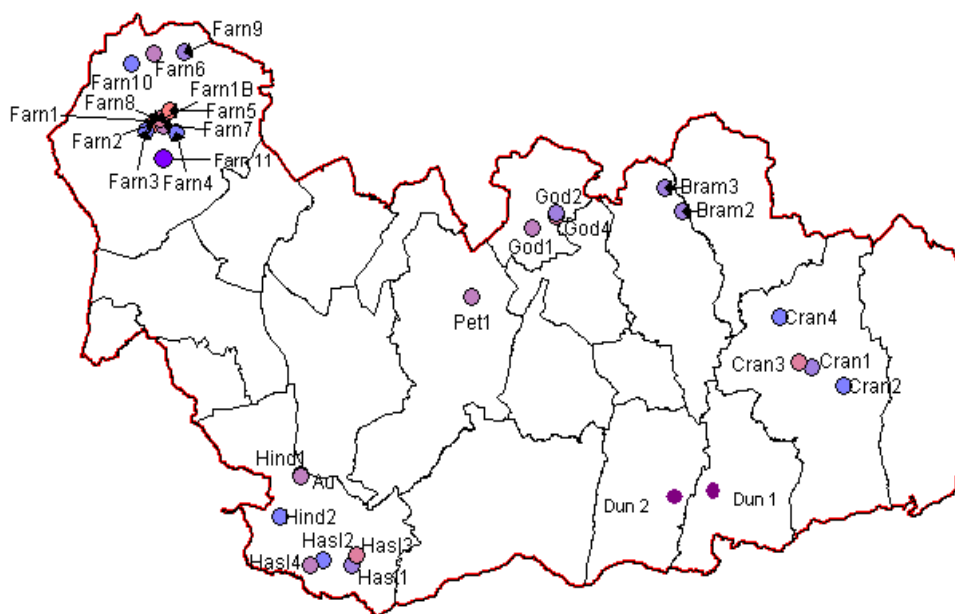
Table 2.1 Details of Automatic Monitoring Sites

Site Name	Site Type	OS Grid Ref		Pollutants Monitored	Monitoring Technique	In AQM A?	Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Distance to kerb of nearest road (N/A if not applicable)	Does this location represent worst-case exposure?
Hindhead	Roadside	X488819	Y135639	NO ₂	Chemiluminescence	N	Y (20m)	7m	N
Farnham	Roadside	X484087	Y146972	NO ₂ PM ₁₀	Chemiluminescence, Beta attenuation	Y	Y(20m)	5m	Y
Godalming	Roadside	X496693	Y143695	NO ₂	Chemiluminescence,	Y	Y(25m)	3m	Y

2.1.1 Non-Automatic Monitoring

NO₂ is monitored at 39 sites in Waverley Borough: 16 sites in Farnham including a co-location with the automatic monitor; 7 sites in Hindhead including a co-location with the automatic monitor; 8 sites in Godalming, and a further 8 sites in locations across Cranleigh, Bramley and Dunsfold (see Figure 2.2).

Figure 2.2 Map of Non-Automatic Monitoring Sites.



The NO₂ diffusion tubes are prepared and analysed by Lambeth Scientific Services using the 50% TEA in acetone method. Tubes are changed at monitoring locations monthly. See Appendix A for further details of QA/QC of these sites.

In the second half of the 2009-monitoring year, three additional diffusion tubes have been installed in the streets approaching and surrounding the railway level crossing on B3001 Station Hill (Waverley Lane and Tilford Road in Farnham). New monitoring locations have been chosen due to 2009 USA recommendations. Monitoring results from these new sites will be incorporated into the Detailed Assessment of this area.

Also as a result of the 2009 USA recommendations the location of the following tubes have been changed:

- Hasl 3 originally located Wisteria Cottage, High Street, Haslemere has been move closer to relevant receptor along the High Street. Hasl 3 is now located on the road sign at a distance of 15 metres from the previous location.
- Farn 11 originally located at mini-roundabout at School Hill and The Street junction 8 m from property, has been moved to the opposite side of the mini-

roundabout and is currently located on the road sign at The Street and Wrecclesham Road junction in line with receptor at a distance of 4m from the property, 15m from the previous location.

The results from new monitoring locations are going to be more relevant and will help establish the actual concentrations at the nearest relevant receptor.

The monitoring results are awaiting ratification.

Table 2.2 Details of Non- Automatic Monitoring Sites

Site Name	Site Type	OS Grid Ref		Pollutants Monitored	In AQMA ?	Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Distance to kerb of nearest road (N/A if not applicable)	Worst-case Location?
Farn 1	Roadside	X484020	Y146910	NO ₂	Y	Next to café with pavement seating	1.8m	Y
Farn 1B	Roadside	X484064	Y146928	NO ₂	Y	N	0.9m	
Farn 2	Roadside	X483907	Y146831	NO ₂	Y	Y 15m	1.5m	
Farn 3	Urban Background	X483654	Y146600	NO ₂	N	Y10m	NA	
Farn 4	Urban Background	X483407	Y146794	NO ₂	N	N	NA	
Farn 5	Roadside	X484423	Y147233	NO ₂	Y	Y 10m	2.1m	
Farn 6	Kerbside	X483915	Y149039	NO ₂	N	Y 3m	1.0m	
Farn 7	Roadside	X484233	Y146782	NO ₂	Y	N	5m	
Farn 8 *	Roadside	X484087	Y146972	NO ₂	Y	15m from pavement café	3m	
Farn 9	Roadside	X484761	Y149431	NO ₂	N	Y 5m	2m	
Farn 10	Roadside	X483152	Y148703	NO ₂	N	20m	1.7m	
Farn11	Roadside	X482717	Y145183	NO ₂	N	8m	2m	
Farn 12	Roadside	X482766	Y145632	NO ₂	N	2m	2m	
Farn 13	Roadside	X484416	Y146619	NO ₂	N	2m	2m	
Farn 14	Roadside	X484446	Y146609	NO ₂	N	10m	1m	
Farn 15	Roadside	X484561	Y146486	NO ₂	N	8m	1m	

God 1	Roadside	X496497	Y143508	NO ₂	Y	Y 0m	7m	
God2	Roadside	X497294	Y143981	NO ₂	N	N	2m	
God3	Roadside	X497376	Y144153	NO ₂	N	Y10m	2m	
God4	Roadside	X497320	Y143864	NO ₂	Y	Y10m	1.9m	Y
God5	Roadside	X	Y	NO ₂	Y	Y 30m	1.5m	
God6	Roadside	X497387	Y143437	NO ₂	N	Y6m	2m	
Pet1	Roadside	X494483	Y141316	NO ₂	N	N	3.5m	
Hind1	Kerbside	X488774	Y135705	NO ₂	Y	Y 20m	0.8m	Y
Hind 2	Urban Background	X488095	Y134369		N	N	NA	
Hasl 1	Roadside	X490486	Y132819		N	N	2.2m	
Hasl 2	Urban Background	X485928	Y133005		N	N	NA	
Hasl 3	Roadside	X490636	Y133160		N	Y	1.5m	Y
Hasl 4	Roadside	X489090	Y132842		N	Y3m	1.2m	
AU 1/2/3*	Roadside	X488819	Y135639		N	Y20m	3.2m	
Highways Agency Tube	Roadside	X488600	Y135600		Y	Y 20m	0.8m	
Cran 1	Roadside	X505808	Y139078		N	N	1.3m	
Cran 2	Urban Background	X506883	Y138514		N	Y	NA	
Cran 3	Roadside	X505411	Y139242		N	N	4m	
Cran 4	Roadside	X504760	Y140683		N	Y5m	1.7m	Y
Bram 2	Roadside	X501498	Y144049		N	Y13m	3.7m	Y
Bram 3	Roadside	X500908	Y144780		N	N	3.6m	
Dun 1	Roadside	X504051	Y135373		N	N	5m	Y
Dun 2	Roadside	X502765	Y137319		N	Y30m	NA	

*Collocated with automatic monitor

NA – not applicable

2.2 Comparison of Monitoring Results with Air Quality Objectives.

Section 2 reviews and assesses all new monitoring data in order to determine whether the air quality objectives are at risk of exceedences.

This section will be completed when the process of data ratification is completed.

3 New Local Developments

The following developments with potentially significant air quality impacts have either been granted approval or are significantly progressed in the process. All developments have been highlighted in previous progress reports.

East Street Development, Farnham

The planning permission for a mixed-use development of 239 residential units, a new multi-screen cinema, shops, cafes and restaurants in Farnham Town Centre was issued on 6 August 2009. The proposed site is adjacent to the current Farnham AQMA. Air Quality Impact Assessment has been submitted with the application to assess the effect of development. A start date for the development has not yet been confirmed.

However due to modification with respect to the construction phase, the Environmental Health Service has requested a new Air Quality Impact Assessment that will consider the pollution effects from increased road traffic movements associated with the development, as well as the potential air quality effects from dust emissions generated during the construction phase. Also dealing with mitigation measures that will be used to prevent, reduce or offset these effects.

Godalming Key Site

An outline planning proposal for a mixed-used development of 182 homes and 1,375 square meters of commercial space for shops, offices, restaurant and cafes was submitted to Waverley Borough Council in 17 November 2009.

This site is located in central of Godalming adjacent to AQMA, and is a derelict area of land currently used by Waverley Borough Council for overflow parking.

Air Quality Impact Assessment has been submitted with the application to assess the effect of the development.

Although the applicant's Environmental Statement stated that none of the predicted annual mean NO₂ concentrations show exceedences of UK objectives it was recognised that the construction of the proposed redevelopment would have associated construction traffic comprising of contractors' vehicles, heavy goods vehicles, excavators, earth moving equipment and other diesel-powered vehicles/generators.

For that reason the Environmental Health Service requested that air quality monitoring should be carried out during construction and operation to ensure that site development did not contribute to the nearby AQMA.

The application was considered and refused on February 23rd 2010.

3.1 Road Traffic Sources

3.1.1 Narrow congested streets with residential properties close to the kerb.

Waverley confirms that there are no new or newly identified:

- narrow congested streets with residential properties close to the kerb
- busy streets where people may spend one hour or more close to traffic
- identified roads with a high flow of buses and/or HGVs
- junctions
- new roads constructed or proposed since the last Updating and Screening Assessment
- roads with significantly changed traffic flows
- bus or coach stations
-

that may have an impact on air quality within the Local Authority area.

3.2 Other Transport Sources

3.2.1 Airports

The nearest airfield to Waverley Borough is Farnborough airport, which is located 10 km from the Farnham AQMA and has an annual throughput well below 10 million passengers per year.

Waverley confirms that there are no new or newly identified:

- airports
- railways locations where diesel or steam trains are regularly stationary for periods of 15 minutes or more, with potential for relevant exposure within 15m
- locations with a large number of movements of diesel locomotives, and potential long-term relevant exposure within 30m
- ports for shipping

that may have an impact on air quality within the Local Authority area.

3.3 Industrial Sources

Waverley confirms that there are no:

- new or proposed installations
- existing installations where emissions have increased substantially or new

- relevant exposure has been introduced
- new or significantly changed installations with no previous air quality assessment
 - major fuel storage depots storing petrol
 - new or newly identified petrol stations
 - new newly identified poultry farms
 -

that may have an impact on air quality within the Local Authority area.

3.4 Commercial and Domestic Sources

Waverley confirms that there are no new or newly identified:

- Biomass combustion plant – individual installations
- Areas where the combined impact of several biomass combustion sources may be relevant
- Areas where domestic solid fuel burning may be relevant.

that may have an impact on air quality within the Local Authority area.

3.5 New Developments with Fugitive or Uncontrolled Sources

Waverley confirms that there are no new or newly identified:

- landfill sites
- quarries
- haulage roads on industrial sites
- waste transfer stations etc.
- other potential sources of fugitive particulate emissions.

that may have an impact on air quality within the Local Authority area.

4 Implementation of Action Plans

Waverley's Air Quality Action Plan (AQAP) published in 2008 was followed by the first AQAP Annual Progress Report in April 2009. This identified the various projects identified as contributing to improvements in air quality. Table 4.1 below summarises those projects and is updated to include changes since April 2009.

Further to this an inter-agency Air Quality Workshop, focussing on Farnham and including relevant stakeholders, was held on 26th January 2010. The participants made invaluable contributions in helping Surrey and Waverley Councils develop a range of positive actions.

One of the recurrent themes aired in the workshop was that there had been many traffic studies in the past - but not much action had followed. The view expressed was that the priority should now be to get on and implement measures that tackle some of the underlying causes of traffic congestion in the centre of Farnham as well as providing improved information and signing to drivers.

Since the workshop, officers from Waverley and Surrey have been meeting to analyse the results and conclusions. Table 4.2 below summarises these results and looks at future steps to be included in a possible implementation programme. This is to be presented to a special joint meeting of Waverley and Surrey Councillors for their consideration and advice.

The Workshop also urged an active input to the policies and development proposals of neighbouring councils in Hampshire. Further discussions are therefore taking place with partners at which these sub-regional matters are to be considered.

Table 4.1 Action Plan Progress

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
1	Farnham Review Study option 2b	A holistic set of traffic interventions for Farnham Town Centre e.g. road space reallocation, construction of new cycle routes and cycle facilities, part-time closure of The Borough (road with highest air quality exceedences)	Surrey County Council	2008/09 Surrey to look at scheduling traffic survey work to support Farnham Review study package	Not taking place until initial survey work completed and evaluated	Adoption of package 2b outlined in Farnham Review Study	To be quantified when it appears likely that the recommendations of the Farnham Review study get the go ahead. However package 2b has the potential to remove air quality exceedences from the Farnham AQMA.	The permission for a major development (the East Street development) has been granted after section 106 agreed and signed. However there is still not clear when funds for transport related study, design and implementation become available	Section 106 signed, The planning permission was issued on 6 August 2009.	Not known	
2	Hindhead Tunnel and bypass	A 1.1 mile tunnel and bypass to relieve the A3 bottleneck at Hindhead	Highways Agency	Work on the scheme began in 2007	Ongoing.	Completion and opening of bypass, closure of existing road to traffic	This measure will remove all AQ exceedences in AQMA	The project is underway and on time. Opening mid 2011; subject to confirmation	During 2009 following the works have been completed: - Construct new southbound carriageway between the Spaniard and Hazel Grove, - Complete tunnel excavation and primary lining, - Complete embankment and bunds in Boundless Valley. Further construction works are on the go.	Tunnel to be operational late 2011.	Scheme currently on target.
3	Review of urban traffic control systems (UTC) on	Review of traffic-light management through AQMA with aim of	Surrey County Council		To be completed between 2008 and 2011.	Calculated reduction of NO2 emissions based on calculations	TBC once more detail is available from Surrey County Council	Installation of a new communication s system (between the UTC and the	First review completed for Godalming in May 2009. SCC is in the	To be completed by 2011	Management of traffic flow is a key element in minimising vehicle generated emissions

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
	Flambard Way, Godalming	minimising idling traffic and congestion				of reduced queue length and waiting times plus ambient monitoring		computer at Surrey's Network Management Information Centre in Leatherhead) has been completed. Refurbish work in regards other systems on the 4go.	position to refurbish signals at the two main junctions (Catteshall Lane and Brighton Road). This works to be completed in February 2009. The intention is to carry out a post-refurbishment review in 2010/11 however that depends on funds.		
4	Waverley Corporate Travel Plan	A suite of actions aimed at reducing the impact of staff commuting to work and driving to work meetings	Waverley Borough Council	2008 – travel plan measures were tested during a Green Travel Week and subsequent travel survey	March 2009 – launch and continued marketing of Waverley Car Share	An annual travel survey will outline changes in travel behaviour including any increases in car sharing etc	Less than 1% - likely to impact Godalming AQMA as this route is used by a number of staff working in the Waverley office in Godalming	Two low emission staff pool cars now available & in use. Waverley's internal car sharing database was relaunched during Green Travel Week.	First pool car arrived in November 09, second in March 2010 –Waverley's internal car sharing database was relaunched during Green Travel Week there are approximately 40 members on the database.	Ongoing	
5	Air Quality Action Plan behaviour change campaign		Waverley Borough Council	October 2008-March 2009	See individual measures below	See individual measures below	N/a		See individual Action Plan measures below.		The Air quality camping has been successfully completed in Aug 2009. During the camping "Air quality in Waverley" web page has been viewed 781 times.
i		A series of road signs encouraging queuing drivers to	Waverley Borough Council	October 2008-Feb 2009	March 2009	Success being measured by surveys of number	Less than 1% at Hindhead crossroads	Signs have been installed at Hindhead crossroads and around	No significant progress. More	Completed	More legible signs are being roll out in 2010. See Action no.19.

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
		switch off their engines.				of motors idling before and after signs are introduced.		Farnham railway station. The latter is adjacent but not in the AQMA but mentioned frequently in the response to the AQAP consultation process.			
iii		A series of themed posters encouraging people to make incremental changes to their travel habits to improve air quality.	Waverley Borough Council	March 2009	May 2009	Installation of 40 posters.	N/a	Signs have been installed throughout Farnham town centre. Campaign ran from May to August 2009.	The campaign is completed.	Completed	The effect of the campaign has not been measure
iv		Advertising / newspaper campaign to raise awareness of air quality issues	Waverley Borough Council	January to February 2009	April 2009	Adverts appeared in newspapers	N/a	Measure completed in April 2009.	Completed	Completed	Action can be repeated in 2010
v		Exhibition banners to support awareness raising	Waverley Borough Council	January to February 2009	April 2009		N/a	No significant progress	No significant progress	Use of banners is ongoing	Banners can be use when new Advertising/newspapers campaign starts
vi		Development of credit card size fliers with air quality messages to engage younger children and parents	Waverley Borough Council	January to February 2009	6,000 cards completed	All cards distributed to general public, schools etc	N/a	In Feb 2009 1000 card have been distributed across Schools in Waverley.	No significant progress.	Completed	
6	Work with schools	Community monitoring scheme. The launch	Waverley Borough Council	December 2008	Launch of community monitoring scheme in	Continued partnership – monitoring data	N/a	The partnership has been maintained throughout	During 2009 the monitoring diffusion tube	Ongoing project	

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
		of the community monitoring scheme is part of a pilot project involving a partner school in awareness rising of air quality issues.			Farnham primary school	obtained, publicity in local press		2009	was regularly changed by member of the primary school		
7		Installation and use of air quality software in schools	WBC, SCC, Surrey University	Ongoing	September 2009 to December 2009	Number of schools where software is installed and used	N/a	TBC once more detail is available from Surrey University	This project is on hold and will review as a part of AQ Workshop	December 2009	
8		School Travel plans (STP)	Surrey County Council	2008-11	Ongoing	A number of Schools that completed STP	Not available	Surrey County Council is continuing its programme of developing school travel plans through 2008 -2011	Travel plan has been approved for a further 5 Schools in the area.	On going	
9	Travel plans for major employers	Requirement and monitoring of travel plans as part of planning consents	Surrey County Council	Ongoing	See Appendix 1	The number of sites approved or submitted TP.	N/a	Travel plans for several sites in Farnham and Godalming have been approved or submitted.	A Travel Plan has been approved for one site in Farnham. A new travel statement has been approved for a further 3 sites. One monitoring report has been received. See Appendix 1 for details.	On going	
10	Freight Quality Partnership (FQP)	A partnership to reduce the impact of van and lorry traffic delivering to and passing through the centre of Farnham	Surrey County Council and Waverley Borough Council	Planning from May 2009 in liaison with Surrey County Council	2010	An appropriate indicator will be developed in partnership with SCC.	To be quantified when more details available.	Surrey CC is developing a lorry routing strategy for the county, supported by lorry route signing on preferred routes. Subject	Plans to set up Farnham Freight Quality Partnership group. This will regulate servicing, loading and lorry	Not available yet	This action has been revised as a part AQ Farnham Group

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
								to funding being maintained Surrey intends to extend the lorry route signing into the West Surrey area (Guildford and Waverley) focussed on an established and extended Guildford FQP	movements across Farnham. Waverly also put a bit for an out of hours servicing trial		
11	Joint agency exercises stopping and checking vehicles	These can be used to check air quality emissions	WBC, SCC, VOSA, SurPOL	Not yet specified	Currently there is no planned joint agency exercise to include air quality emissions testing	Not available	N/a	No significant progress	N/A		
12	A Surrey Air Alert Scheme	A phone / text service to alert people with minor respiratory ailments of imminent air pollution episodes	All Surrey local authorities involved in air quality monitoring	Costing and project plan completed in 2008 by Reigate and Banstead	Not currently being progressed due to lack of agreed funding.			At present a viable air alert service can only be run in Mole Valley, Reigate and Banstead, and Tandridge, as these are the only areas with sufficient monitoring both north and south of and / or within their Boroughs.	If funds available there are plans for set up alert service for 200 people for 2 or 3 years who will then be cohort in Sussex and London wide study, However Waverley will not be an active part of this project.	Not available	
13	Decriminalised parking enforcement	Parking enforcement now undertaken by Waverley	Waverley Borough Council	Launched April 2007	On-going	Not available	N/a	This action has been revised as a part AQ Farnham Group. The proposed revisions are: * Car park charging methods * Extra parking enforcement –		2010	This action has been revised as a part AQ Farnham Group

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
								HGVs *Civil Enforcement			
14	Electric car charging point	This facility would encourage people to perhaps consider purchasing electric cars.	Waverley Borough Council	Feb 2010	2010	The popularity of electric charging point.	Not available yet	Scheme has been revised as a part AQ Farnham Group	N/A	No date yet	
15	Cycling promotion	Implementation of cycle parking and cycle paths	Surrey County Council	Proposed cycle improvements for Farnham outlined in Farnham Review study	Not currently being progressed	N/a	N/A	Proposed cycling improvements in Farnham are dependent on funds availability from planning agreements.	East Street Development, Farnham Section 106 agreed and signed. Funds for proposed cycling improvement possibly available. Last year cycling was propagated in Waverly by an awareness raising campaign.	On going	
16	Air Quality Information	New Waverley website launched April 2008	Waverley Borough Council	New information to support the air quality awareness campaign added in March 2009	Website content regularly reviewed	Number of people visiting website.	N/a	Waverley's air quality website www.waverley.gov.uk/airquality contains information about Waverley's air quality work and information on how to get involved in tackling local air quality.	No significant progress	Ongoing	In between Jan 2009 and Dec 2009 the Air Quality Website was viewed a total of 1112 times.
17	Air Quality and planning policies	Potential supplementary guidance to support air quality	Waverley Borough Council	No date given	No work on this is currently scheduled	Production of supplementary planning guidance	N/A	Environmental Health staff examine weekly planning list for developments that have potential to impact on air quality. Consultation on	No significant progress.	On going	

No.	Measure	Focus	Lead authority	Planning phase	Implementation phase	Indicator	Target annual emission reduction in the AQMA	Progress to date	Progress in last 12 months	Estimated completion date	Comments relating to emission reductions
								planning policies continues, however there is no capacity to develop supplementary planning guidance			
18	Variable vehicle messaging sign system (VMS) car park signs	Managing movement into car parks and out of town variable traffic signs. The provision of real time information at the gateways to the town about which car parks have vacant space is intended to inform drivers and assist.	Waverly Borough Council	Jan 2009	No date yet	Traffic reduction in town centre.	N/A	This action has been revised as a part AQ Farnham Group	N/A	No date yet	
19	Real time sign	A real time sign at the level crossing in Farnham will give people a variable message to switch their engines off. The sign will operate when the level crossing is active.	Waverly Borough Council	January 2010	2010	Reduction in motor idling time at level crossing	Effectiveness can be measured by the survey that will indicate how many drivers regularly pay attention to signs	Sign design completed in February 2010.	Ongoing	No date yet	Farnham level crossing is adjacent but not in the AQMA, however in mentioned frequently in the response to the consultation process,

Table 4.2 - Farnham Multi-Agency Workshop 26th January 2010

Category	Measure	Potential Action(s) / Next steps
A31	Review function of bypass (introduce	Farnham traffic model required to:
Bypass Transport	New bypass = western slip road (2) + 100m of a bypass", check traffic signal	<ul style="list-style-type: none"> Assess options in town centre and for A31 Not economically viable Review signals Does it provide many transport benefits Assess AQ impacts Can it be part of a planning system long term? Assess impacts of East Street development Not viable as a commercial contract
Public Transport	Shoppers bus hop on/off service (park and ride) - Hickley's Corner	<ul style="list-style-type: none"> Plan to introduce "country bus" at Farnham level Could be considered as part of a community bus network - work being considered by SCC
Public Transport Management	Real time bus info in widespread schemes Complete review of one-way system encourage switch off engines	<ul style="list-style-type: none"> Stagecoach buses are part equipped Routes 18, 19 and 48 need to be added, plus shelters Total cost approx £80-100k
Education Management	Better education / awareness of travel time - Road signing around and in town centre	Road sign audit - link to traffic model zone launch
Education Strategy	Mouthed initiatives to change behaviour/s Provide secure bike parking in centre of town	<ul style="list-style-type: none"> Links to SCC travel awareness project Undertake cycle parking audit Use "Transition Towns" to enhance message
Freight Strategy	Delivery driver sanctions - Different Manage HGVs in town	<ul style="list-style-type: none"> Undertake audit (link to road sign audit) Use mechanism set up for bid to continue work with other (on sign mechanisms if bid fails)
Freight Strategy	Develop parking charges - more £ in town	Develop policies as part of WBC public realm strategy.
Environmental Traffic Management	More trees and green roofs for air quality	<ul style="list-style-type: none"> off-street charges location of parking enforcement
Car Parking Strategy	Encourage use of Blackwater Valley route and review existing signs	Eco-town is an HCC project, although SCC officers are meeting with HCC shortly
Car Parking Strategy	Can funding from proposed eco town help pedestrianisation in the Borough	
Car Parking Strategy	Assess AQ impact as part of planning process	<ul style="list-style-type: none"> Possibility to produce guidance note as part of planning process so developers know what to expect. Plug in points should be in development and in town centre
Car Parking Strategy	Plug in points of public car parks for electric vehicles	
Car Parking Strategy	Electric parking enforcement - HGVs	
Car Parking Strategy	Keep in agenda changes on agenda	Propose regular update/liaison meeting as part of local committee agenda.
Car Parking Strategy	Civil enforcement	

5. Conclusions and Proposed Actions

5.1 Conclusions relating to New Local Developments

Waverley Borough Council have identified no relevant new developments requiring assessment at this stage, since the previous Updating and Screening report.

5.2 Other Conclusions

New measures have been proposed to the Air Quality Action Plan. The new Action Plan has identified the work Waverley Borough Council and a range of partners are required to carry out to reduce air quality problems identified in the AQMA and to meet the Government objective for NO₂. However many of Action Plan measures are beyond the direct control of the Borough Council.

Therefore success of the Action Plan will depend on the input of the local transportation authority Surrey County Council. This is especially the case where Air Quality Management Areas are declared as a result of traffic-related emissions, particular Godalming and Farnham.

The way forward to tackle exceedences in the Farnham AQMA might be the inter-agency Air Quality Workshop held on 26th January 2010. The workshop outlined a package of practical measures that should have implementation priority. The officers from Waverley and Surrey CC will continue to collaborate in implementing the measures proposed during the Workshop.

The construction of the tunnel/bypass for Hindhead is expected to resolve the air quality problems at the Hindhead AQMA.

Currently no changes are proposed for the boundaries of the three AQMAs. However, ongoing air monitoring at Farnham Level Crossing may reveal potential exceedences of air quality objectives. The Detailed Assessment with summary of the findings will be published at the end of 2010.

Waverley will continue to monitor air quality in line with the Environment Act 1995.

6.References

Department for Environment, Food and Rural Affairs (2004), *Process Guidance Note 6/9 (04)*. DEFRA, London, available at www.defra.gov.uk.

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Highways Agency (2004) *A3 Hindhead Scheme: Environmental Statement Non-Technical Summary*, Dorking, Surrey, available at www.highways.gov.uk .

Waverley Borough Council (2009) *Updating and Screening Report*, Air Quality Consultant, available at: www.waverley.gov.uk/

Appendices

Appendix 1.**Travel plans (TP) for major employers in Waverly progress 2009**

Site	Type of development	Travel Plan status	Travel Plan Activity
Sainsburys , Godalming	Retail	Travel Plan approved - 2009	Not know
Unit 12, Coxbridge Business Park , Farnham	Multit-use site Each occupier to produce own TP	Travel Plan statement approved - 2009	Not know
Barnett Hill Conference Centre GU5 0RF		Travel Plan statement approved - 2009	Not know
Oak Hall Retirement Home,		Travel Plan statement approved - 2009	Not know
Branksome Conference Centre, Hindhead	Hotel and conference centre	Approved TP	Travel plan monitoring report received, 2009

Source: Surrey County Council

