

Oxfordshire County Council
Annex 2: Data Monitoring

A4144 Woodstock Road Experimental Bus Lane

December 2025

1. Bus journey times

A comparison of bus journey time data from on-bus trackers

- prior to the bus lane ETRO (but post Botley Road closure) Nov 2023
- after the bus lane ETRO (Nov 24)
- post temporary congestion charge (Nov 2025) - Source CitySwift

Direction	From	To	Change (seconds) in stop to stop runtime								
			07:00-09:00			15:00-18:00			00:00-23:59		
			01/11/2023 - 30/11/23	01/11/2024 - 30/11/24	01/11/2025 - 30/11/25	01/11/2023 - 30/11/23	01/11/2024 - 30/11/24	01/11/2025 - 30/11/25	01/11/2023 - 30/11/23	01/11/2024 - 30/11/24	01/11/2025 - 30/11/25
Southbound	Wolvercote Rbt	First Turn	42	63	76	36	46	40			
	First Turn	Woodstock Close	40	43	47	34	38	39			
	Woodstock Close	Squitchev Lane West	48	53	57	40	43	45			
	Squitchev Lane West	Osberton Road	36	35	36	29	29	30			
	Osberton Road	South Parade west	44	44	44	36	38	39			
	South Parade west	Canterbury Road	180	181	179	175	179	186			
	Canterbury Road	Radcliffe Observatory Quarter	92	97	99	89	96	101			
Total			482	516	538	439	469	480			
Northbound	Radcliffe Observatory Quarter	Canterbury Road	72	76	79	75	85	85			
	Canterbury Rd	South Parade West	167	177	162	222	241	218			
	South Parade West	Osberton Road	25	25	26	28	28	31			
	Osberton Road	Squitchev Lane west	49	50	49	58	59	65			

	Squitcheay Lane West	Woodstock Close	27	24	25	36	31	34			
	Woodstock Close	First Turn	36	32	32	50	41	41			
<i>Total</i>			376	384	373	469	485	474			

2. Collisions

Collision reports from Thames Valley Police have been analysed over the period 28/09/24 (when the bus lane ETRO was implemented) to 30/09/25. There have been no reported collisions over the period since the Bus Lane ETRO has been implemented. The monitoring period is too short to draw conclusions about any overall effect of the scheme on collision rates and 2025 data is still provision. By comparison in the five-year period Sept. '19 to Aug. '24, there were four slight, and two serious, injury collisions over the length of the bus lane reversal.

3. General traffic journey times (congestion)

Analysis of Inrix data (which comes from in-car navigation systems and mobile phones)

- prior to the bus lane ETRO (but post Botley Road closure) Nov 2023
- after the bus lane ETRO (Nov 24)
- post temporary congestion charge (Nov 2025) (Source: Inrix)

Road		From	To	Average travel time (seconds) (Mon - Fri)					
				08:00			16:00		
				01/11/2023 - 30/11/23	01/11/2024 - 30/11/24	01/11/2025 - 30/11/25	01/11/2023 - 30/11/23	01/11/2024 - 30/11/24	01/11/2025 - 30/11/25
Northbound	Woodstock RD	Wyndham Way	Wolvercote Rbt	86	86	90	115	120	140
	Woodstock RD	Moreton Rd	Wyndham Way	198	198	207	264	277	321
	Woodstock RD	St Giles	Wolvercote Rbt	515	535	534	710	775	809
	Woodstock RD	Wolvercote Rbt	Field House Drive	197	176	184	92	103	104

Southbound	Woodstock RD	Field House Drive	Moreton Rd	273	249	257	140	158	161
	Woodstock RD	Wolvercote Rbt	St Giles	735	717	722	487	536	530

4. Air Quality

Provisional air quality data was provided by Oxford City Council. Several factors affect air quality (including weather and vehicle fleet renewal) therefore we cannot directly attribute these changes to the scheme. Several factors that likely influenced concentrations during the study period or the analysis:

- Bus Electrification – Electric buses under the ZEBRA scheme began gradual introduction in Oxford from November 2023 onwards, with the vast majority being introduced in late 2024.
- Weather Variability – Different weather conditions across years strongly affect measured concentrations (e.g., colder months typically show higher NO₂ levels).
- Other Local Traffic Changes – Roadworks, construction sites, temporary closures, and new traffic lights can alter traffic flows and impact concentrations measured.
- Data Adjustment for 2025 – The 2025 data has not yet been fully ratified, as this can only be done at year-end. For now, I applied the same bias adjustment factor used for 2024 due to the lack of a more up-to-date factor. This 2025 data is therefore provisional only and so this should be noted in the analysis.

The two sites were located at 306 Woodstock Road and 51 Sunderland Avenue

	Mean annual concentration of nitrogen dioxide measured at monitoring locations (µg/m ³)			
	306 Woodstock Road	306 Woodstock Road (Bias adjusted)	Wolvercote 51 Sunderland Av	Wolvercote 51 Sunderland Av bias adjusted

October 2023 - September 2024 (pre bus lane ETRO)	17	13	25	19
October 2024 - September 2025 (post bus lane ETRO)	18	14	23	18
Change	1 $\mu\text{g}/\text{m}^3$	1 $\mu\text{g}/\text{m}^3$	-2 $\mu\text{g}/\text{m}^3$	- 1 $\mu\text{g}/\text{m}^3$

5. Traffic and cycle flows

Traffic flows for the Woodstock Road area have been obtained from permanent traffic counter located just south of Blandf avenue for;

- prior to the bus lane ETRO (but post Botley Road closure) March '24
- after the bus lane ETRO March '25
- post temporary congestion charge (Nov 2025)

	Average Daily flow (00:00-23:59 - Mon-Fri)	
	Motor traffic (A4144 Woodstock Rd south of Blandford Avenue)	
	Southbound	Northbound
Mar-24	8373	7946
Mar-25	8388	8911
Nov-25	8290	8561