



ATC SUMMARY REPORT

PROJECT	23899 Hoxton Close, Ashford
LOCATION	23899-002 - Hoxton Close
LOC. DESC.	Hoxton Close
START DATE	Tue 10 Dec, 2019
END DATE	Mon 16 Dec, 2019
SPEED LIMIT	30mph
SURVEY TYPE	7-day ATC, 15min periods, 10 veh. classes

OVERVIEW

A 7-day automatic traffic count on Hoxton Close, commencing Tue 10 Dec 2019, recorded a total of 26,658 vehicles. The posted speed limit of 30mph was exceeded by 2.8% of vehicles, and the seasonally adjusted, combined AADT value is 4,682 (see Equipment & Methodology below).

COMBINED

Total recorded volume	26,658
Avg daily volume (based on 7 days)	3,808.3
Average daily speed (7 days)	20.3mph
Average daily 85%ile (7 days)	25.1mph
AADT (annual average daily traffic)	4,682

The combined summary on the left shows the total volumes, average speeds, AADT and 85%iles recorded in both directions from all the recorded data. Speeding vehicles are defined as those travelling 31mph and above.

The summaries below provide directionalised details including speeding percentages and weekday daytime details.

Avg weekday volume (Mon-Fri, 24hrs)	4,301.0
Avg weekday speed (Mon-Fri, 24hrs)	19.6mph
Avg 12hr weekday volume (Mon-Fri, 0700-1900)	3,724.6
Avg 12hr weekday speed (Mon-Fri, 0700-1900)	19.1mph

EASTBOUND →

Total recorded volume	13,246
Avg daily volume (based on 7 days)	1,892.3
Average daily speed (7 days)	19.6mph
Average daily 85%ile (7 days)	24.1mph
% of vehicles exceeding 30mph	1.5%

Avg weekday volume (Mon-Fri, 24hrs)	2,157.8
Avg weekday speed (Mon-Fri, 24hrs)	19.0mph
Avg 12hr weekday volume (Mon-Fri, 0700-1900)	1,881.6
Avg 12hr weekday speed (Mon-Fri, 0700-1900)	18.5mph
Avg 12hr weekday 85%ile (Mon-Fri, 0700-1900)	22.9mph

WESTBOUND ←

Total recorded volume	13,412
Avg daily volume (based on 7 days)	1,916.0
Average daily speed (7 days)	21.1mph
Average daily 85%ile (7 days)	26.1mph
% of vehicles exceeding 30mph	4.1%

Avg weekday volume (Mon-Fri, 24hrs)	2,143.2
Avg weekday speed (Mon-Fri, 24hrs)	20.3mph
Avg 12hr weekday volume (Mon-Fri, 0700-1900)	1,843.0
Avg 12hr weekday speed (Mon-Fri, 0700-1900)	19.7mph
Avg 12hr weekday 85%ile (Mon-Fri, 0700-1900)	24.8mph

SITE LOCATION

SITE PLAN



Map © OpenStreetMap contributors

Location Hoxton Close

Desc. Hoxton Close

Lat, lng. 51° 8'22.78"N/0°50'22.02"E

Project & site 23899-002

PSL 30mph

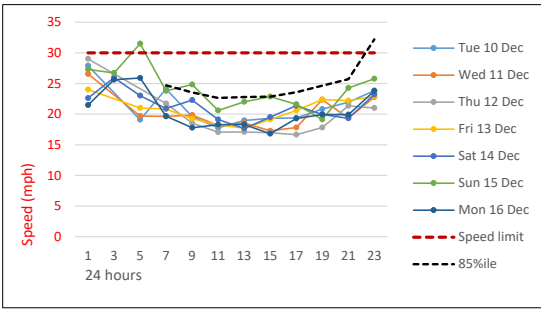
Bus route Yes

Direction 1 Eastbound→

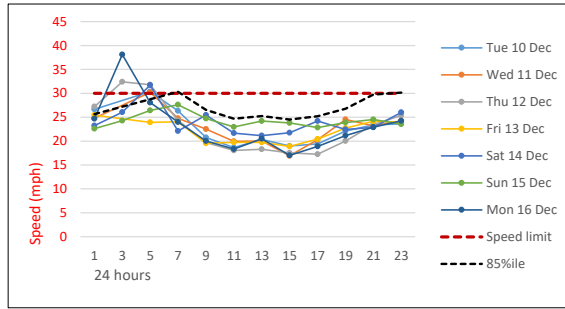
Direction 2 Westbound←

DAILY SPEEDS

EASTBOUND →



WESTBOUND ←

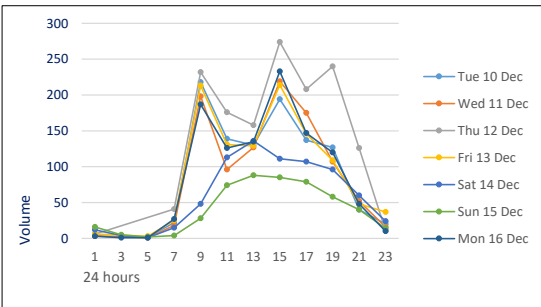


Average daily speeds (solid thin colours) and 85%ile (dashed black) compared against 30mph posted speed limit (dashed red). The 85%ile is the speed at which 85% of all vehicles are observed to travel under free flowing conditions. A minimum of ten vehicles per speed bin is required for this calculation, hence the overnight low-volume 85%ile values may be zero.

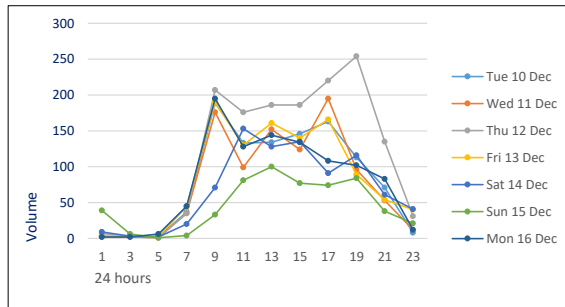
The peak average eastbound daytime speed was 26mph at 08:15 on Sun 15 Dec, whilst the peak average westbound speed was 30.8mph at 07:30 on Sat 14 Dec (based on 15min averages between 0700 & 1900).

HOURLY VOLUMES

EASTBOUND →



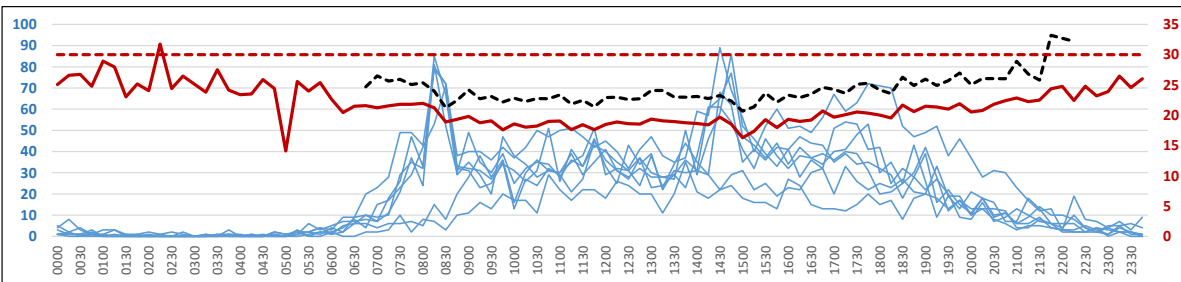
WESTBOUND ←



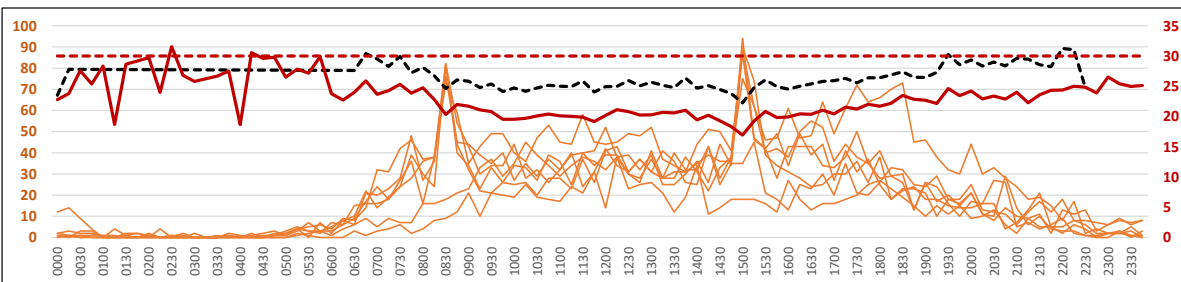
→ Hourly eastbound traffic volumes over each 24hr period for 7 days from all available data.

← Hourly westbound traffic volumes over each 24hr period for 7 days from all available data.

15min VOL & SPEED



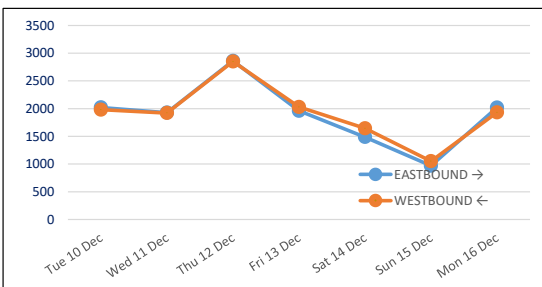
→ 15min daily eastbound flows (blue), against the average speed (red) and 85%ile (dotted black) for each 15min period over the 7-day period.



← 15min daily westbound flows (orange), against the average weekly speed (red) and 85%ile (dotted black) for each 15min period over the 7-day period.

DAILY VOLUMES

EAST & WESTBOUND



Total 24hr eastbound (blue) and westbound (orange) traffic volumes over 7 consecutive days from all available data.

As can be expected, the lowest volumes were recorded on the Sunday, whilst the highest was on the Thursday.

7-DAY AVERAGE CLASSES

EASTBOUND 7-DAY AVG →

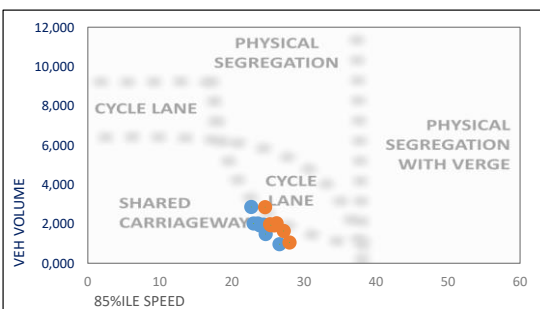
TIME	MOTOR CYCLES	CARS / LGV1	LGV2 / MGVS	HGV RIGID	HGV ARTIC'D	TOTAL
0000	0.0	6.4	0.6	0.0	0.0	7.0
0100	0.0	2.0	0.3	0.0	0.0	2.3
0200	0.0	1.3	0.1	0.0	0.0	1.4
0300	0.0	1.4	0.0	0.0	0.0	1.4
0400	0.0	1.1	0.3	0.0	0.0	1.4
0500	0.0	5.1	0.9	0.0	0.0	6.0
0600	0.6	17.6	3.3	0.3	0.0	21.7
0700	1.3	67.7	6.0	0.7	0.0	75.7
0800	0.6	151.3	7.0	1.7	0.0	160.6
0900	1.0	114.6	8.0	0.7	0.0	124.3
1000	0.1	116.6	4.6	0.9	0.0	122.1
1100	0.7	128.1	8.3	1.1	0.0	138.3
1200	1.1	121.1	5.9	0.9	0.0	129.0
1300	0.4	115.9	5.1	1.3	0.0	122.7
1400	1.0	176.9	9.6	2.6	0.0	190.0
1500	0.7	135.6	8.3	1.1	0.0	145.7
1600	1.9	131.1	7.7	2.0	0.0	142.7
1700	2.1	147.7	4.0	2.1	0.0	156.0
1800	1.1	116.1	4.4	0.7	0.0	122.4
1900	0.4	92.6	3.9	0.3	0.0	97.1
2000	0.0	57.3	1.9	0.0	0.0	59.1
2100	0.3	33.3	1.7	0.1	0.0	35.4
2200	0.0	18.1	0.7	0.0	0.0	18.9
2300	0.0	10.4	0.4	0.0	0.0	10.9
12hr TTL	12.1	1522.7	78.9	15.9	0.0	1629.6
24hr TTL	13.4	1769.4	92.9	16.6	0.0	1892.3
	1%	94%	5%	1%	0%	

WESTBOUND 7-DAY AVG ←

TIME	MOTOR CYCLES	CARS / LGV1	LGV2 / MGVS	HGV RIGID	HGV ARTIC'D	TOTAL
0000	0.0	9.3	0.0	0.0	0.0	9.3
0100	0.0	1.9	0.3	0.0	0.0	2.1
0200	0.0	1.9	0.0	0.0	0.0	1.9
0300	0.0	1.0	0.0	0.0	0.0	1.0
0400	0.0	2.1	0.1	0.0	0.0	2.3
0500	0.0	11.0	0.0	0.0	0.0	11.0
0600	0.0	31.4	0.0	0.0	0.0	31.4
0700	1.3	83.6	0.9	0.0	0.0	85.7
0800	1.1	148.9	1.6	0.0	0.0	151.6
0900	0.9	124.6	1.1	0.0	0.0	126.6
1000	0.6	126.9	1.1	0.0	0.0	128.6
1100	0.7	133.6	1.4	0.0	0.0	135.7
1200	0.6	142.1	0.9	0.0	0.0	143.6
1300	0.7	123.4	1.3	0.0	0.0	125.4
1400	1.1	131.6	1.9	0.0	0.0	134.6
1500	0.4	186.0	1.7	0.0	0.0	188.1
1600	0.9	143.3	1.1	0.0	0.0	145.3
1700	1.0	139.1	1.0	0.0	0.0	141.1
1800	0.4	120.9	0.7	0.0	0.0	122.0
1900	0.4	80.6	0.4	0.0	0.0	81.4
2000	0.6	69.9	0.3	0.0	0.0	70.7
2100	0.4	39.1	0.1	0.0	0.0	39.7
2200	0.0	23.4	0.1	0.0	0.0	23.6
2300	0.0	13.1	0.1	0.0	0.0	13.3
12hr TTL	9.7	1603.9	14.7	0.0	0.0	1628.3
24hr TTL	11.1	1888.6	16.3	0.0	0.0	1916.0
	1%	99%	1%	0%	0%	

Average daily eastbound and westbound volumes by class (condensed to the AQMA scheme), including 12hr totals for 0700-1900 and overall average percentages. Calculated from all available data over 7 days.

CYCLE PROVISION



The diagram compares total daily traffic flow (vertical axis) against the average daily 85%ile speed (horizontal axis) to demonstrate cyclist and vulnerable user considerations.

The guidelines are based on the Sustrans Design Manual (Apr 2014); Understanding User Needs, part 2.

Valid 85%iles are required to plot the graph.

METHODOLOGY

Equipment & methodology

Automatic traffic counts are undertaken using a pair of pneumatic tubes installed securely across the carriageway, one metre apart, recording air pulses to determine vehicle speed, class and volume. The ATC equipment generally remains in place for a consecutive seven day period, and the data analysed post-survey.

In queuing conditions, the accuracy of ATC recording equipment will reduce as follows;

- 20 – 30mph: potential reduction of 9% accuracy in volume values
- 10 – 20mph: potential reduction of 26% accuracy in volume values
- 00 – 10mph: potential reduction of 39% accuracy in volume values

These figures are based on multiple ATC results compared against accepted reference values from resilient manual counts.

AADTs are calculated using the seasonal COBA methodology; DMRB Vol. 13, Pt 4:

Weather & environmental

Inclement conditions during winter months or outbreaks of unseasonable weather may affect survey data collection. This can result in distorted traffic flows or unusable data and should be considered prior to survey approval. Although forecast checks are made prior to the survey commencing, A-T-R cannot be held responsible for the forecast accuracy.

CLASS	ABBREV.	DESCRIPTION	LENGTH	COBA
1	MC	Motorcycle	SHORT Up to 5.5m	N/A
2	SV	Cars, taxis, 4WD, vans		CAR & LGV
3	SVT	Class 2 plus trailer	MEDIUM 5.5m to 14.5m	OGV1 & PSV
4	TB2	2 axle truck / bus		OGV1
5	TB3	3 axle truck / bus		OGV2
6	T4	4 axle truck		
7	ART3	3 axle articulated		
8	ART4	4 axle articulated		
9	ART5	5 axle articulated		
10	ART6	6+ axle articulated	LONG 11.5m to 19.0m	

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23899-002 Hoxton Close Ashford. Hoxton Close. ATC Summary.:

Equipment damage & failure

Although checked intermittently the equipment remains unmanned for much of the duration of the survey, and can potentially be interfered with, vandalised, damaged or stolen and A-T-R cannot be held responsible for any periods where data has not been captured.

The equipment is located in accordance with the details provided by the client and A-T-R cannot be held responsible for the accuracy of the data or loss of equipment due to theft and vandalism.

Roadworks & events

Where possible, roadworks checks are made 10 days before, and 48 hours before, the survey commences. Additionally, influencing major local events are also monitored, covering the immediate vicinity of the surveys and any routes likely to affect the outcome of the survey.

Vehicle classifications

Vehicles recorded by the ATC are placed into one of ten classes based on axle spacing and pattern. This scheme is based on the AustRoad 94 algorithm and modified for UK traffic, referred to as ARX. The table on the left aligns the ARX classifications with the COBA Chapter 8 (Vol 13, Sec 1) classifications.

Under adverse conditions the accuracy of ATC classifications will deteriorate and an appropriate link count should be used for validation.

Disclaimer

Although every attempt is made to achieve accuracy, A-T-R may not be held liable for errors of fact or interpretation.