

Our Ref: A118515

Mr G Beattie
Alpha Design

By email

12 August 2022

Dear Glen

LAND ADJ TO SUMMERGROVE, WHITEHAVEN – ACCESS APPRAISAL

As requested, on behalf of your client John Swift Homes Ltd, we have undertaken the necessary work to provide advice on access to a proposed residential development of 30 homes on land adjacent to Summergrove, Whitehaven.

The site is an agricultural field of approx. 2.5ha located directly to the south of the existing Summergrove residential development. The proposed site will be accessed via a new priority junction onto the C4003 Dalzell Street. Dalzell Street is approx. 5.7m wide with 2.5-3m grass verges; it is rural in nature, unlit and is subject to the national speed limit.

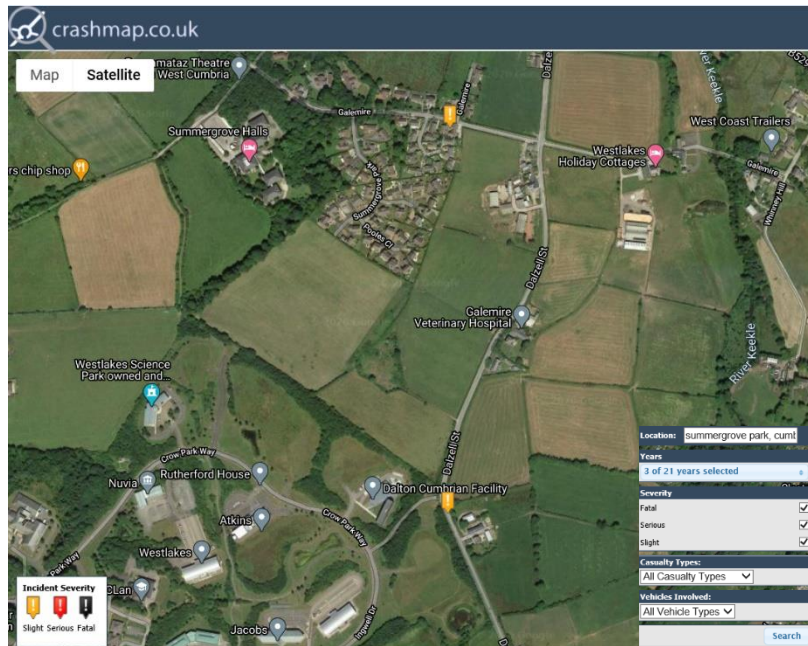
A traffic survey was undertaken on Dalzell Street in the vicinity of the proposed access by Matrix Group. Automatic Traffic Counters (ATC) were installed and recorded a full week of data between 21st and 28th August 2020. The full ATC report is attached. The ATC recorded average 24-hour 85th percentile speeds of:

- 42mph northeast-bound
- 41mph southwest-bound

As the 85th percentile recorded speeds are above 40mph using Manual for Streets for determining visibility splays is not advised. Therefore DMRB has been used to obtain the recommended visibility splays of 120m in each direction.

The proposed access is 5.5m wide with 6m kerb radii and a 1.8m wide footway. The proposed access arrangement and the visibility splays are shown on Alpha Design Drawing no. 15/10/863 – 05.

From a review of Crashmap it can be seen in Extract 1 below that Dalzell Street local to the proposed site access has a good safety record. There has been just one personal injury accident reported on Dalzell Street between Moor Row and the B5292 junction in the most recent pre-Covid 3-year period available. This occurred just south of the emergency vehicle rear access to West Lakes Science Park, approx. 120m from the proposed site access. The incident happened in 2017 and was slight in nature.



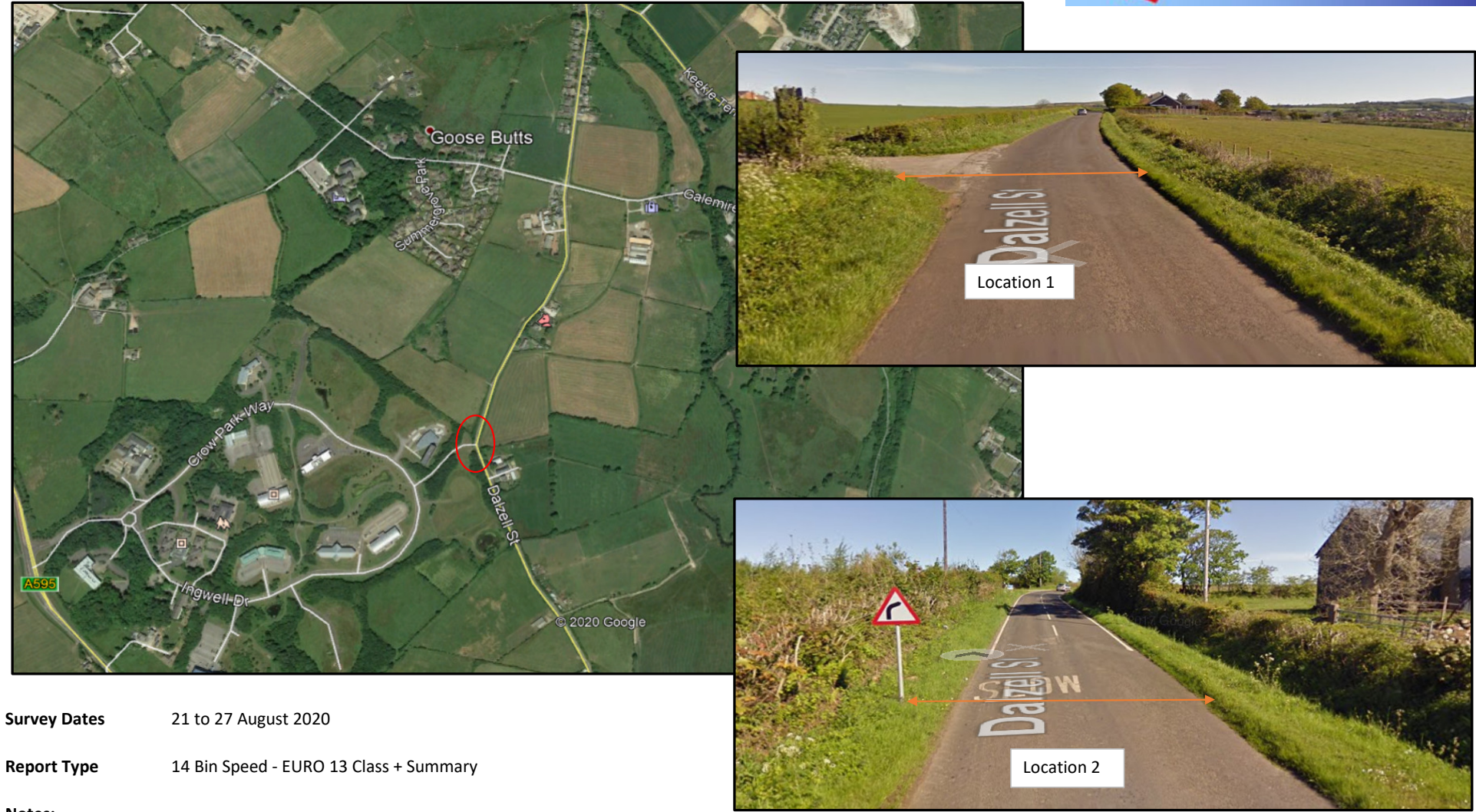
Extract 1: Crashmap

The proposed development of 30 homes is likely to generate around 16 trips in the AM peak and 15 in the PM peak. This small increase can be readily accommodated onto the local road network.

Yours sincerely


Nick Bunn
Director
 For and on behalf of TetraTech Europe

Enc ATC results



Survey Dates 21 to 27 August 2020

Report Type 14 Bin Speed - EURO 13 Class + Summary

Notes:

Unit D Baron Way
Kingmoor Business Park
Carlisle
CA6 4SJ

 NORTHERN LINK
TRAFFIC DATA CONSULTANCY LTD

A.T.C. Site Visit & Check Schedule.

Road Name/ No.	Dalzell Street
Site Description	Site 1 Dalzell Street Moor Row
Site ID	127190001
Nat. Grid. Ref.	00207 15237
Counter Type	EVR
Counter No.	0804-59841
Date Installed	20 th August 2020
Date Removed	31 st August 2020

VISITS

Date	Data Removed	Battery Changed	Check Count	Tube Failed	Tube Replaced	Remarks
20/08/20						Tubes Installed
31/08/20	127190001v1504		Yes			Tubes Removed

Channel #1 = North East
Channel #2 = South West

Speed Limit 60

The site has been assessed as per the method statement and is deemed safe for installation.

Technicians Name: Jonathan Robinson

Northern Link Traffic Data Consultancy
Revision 1.2 March 2015

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Kingmoor Business Park
Carlisle
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Northern Link Traffic Data Consultancy
Revision 1.2 March 2015

Site No.		12720002		Site Ref.		12720002		Speed Summary (Mon-Fri) Speed Limit 60 MPH												Channel: Northwestbound	
Location 2 South Detail At M10R over																					
From 2/18/2020 To 28/08/2020																					
Time	Typ	15% Percent	10% Percent	5% Percent	1st Rank	2nd Rank	3rd Rank	4th Rank	5th Rank	6th Rank	7th Rank	8th Rank	9th Rank	10th Rank	11th Rank	12th Rank	13th Rank				
0:00 - 2:00	2	37	4	0	0	0	0	0	0	0	0	0	1	1	0	0	0				
2:00 - 4:00	1	29	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4:00 - 6:00	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
6:00 - 8:00	0	43	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
8:00 - 10:00	3	34	5	0	0	0	0	0	0	1	1	1	1	0	0	0	0				
10:00 - 12:00	6	35	4	0	0	0	0	0	0	1	2	3	1	1	0	0	0				
12:00 - 2:00	3	44	9	0	0	0	0	0	0	1	2	5	3	1	0	0	0				
2:00 - 4:00	7	36	5	0	0	0	0	0	0	1	3	9	13	5	1	0	0				
4:00 - 6:00	43	41	36	6	0	0	0	0	0	1	4	13	16	7	1	0	0				
6:00 - 8:00	35	43	35	6	0	0	0	0	0	1	4	14	14	1	0	0	0				
8:00 - 10:00	44	40	35	6	0	0	0	0	0	1	6	15	15	1	1	0	0				
10:00 - 12:00	40	35	35	6	0	0	0	0	0	1	6	16	16	2	1	0	0				
12:00 - 2:00	63	41	35	6	0	0	0	0	0	1	2	6	20	22	9	3	2				
2:00 - 4:00	56	40	36	6	0	0	0	0	0	1	3	10	18	7	2	1	0				
4:00 - 6:00	62	42	36	7	0	0	0	0	0	1	8	18	21	8	3	1	0				
6:00 - 8:00	66	43	36	6	0	0	0	0	0	1	7	20	20	14	3	0	0				
8:00 - 10:00	64	44	38	6	0	0	0	0	0	1	6	22	23	20	8	2	0				
10:00 - 12:00	77	45	38	6	0	0	0	0	0	2	8	22	26	12	6	1	0				
12:00 - 2:00	78	46	37	6	0	0	0	0	0	1	5	24	25	12	5	2	0				
2:00 - 4:00	78	46	37	6	0	0	0	0	0	0	0	4	9	8	5	2	1				
4:00 - 6:00	78	46	37	6	0	0	0	0	0	0	0	4	9	8	5	2	1				
6:00 - 8:00	78	46	37	6	0	0	0	0	0	0	0	4	9	8	5	2	1				
8:00 - 10:00	78	46	37	6	0	0	0	0	0	0	0	4	9	8	5	2	1				
Total	12927-19																				
681	42	36	6	0	2	3	3	15	70	202	231	113	33	7	1	0	0				
761	42	36	6	0	3	3	3	16	79	225	255	128	39	8	2	0	0				
770	42	36	6	0	3	3	3	17	80	228	257	129	40	8	2	0	0				
782	42	36	6	0	3	3	3	17	82	231	262	131	40	8	2	0	0				
24040-24	1100	230	150	1100	950	1030	1150	1170	1110	1150	1160	1110	1100	1000	1100	1100	1100				
PM Peak	56	1600	1600	2000	2300	1400	1800	1700	1800	1700	1600	1600	1600	1600	1600	1600	1600				
9:00	44	36	6	0	1	1	2	8	22	53	20	8	2	1	0	0	0				

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Vehicle Use Analysis Parameters: Chetty Bay/2002

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1/27/2002

Vehicle Use Analysis Parameters: Chetty Bay

Site No. 12720002		Site Ref. 12720002		Speed Summary (Mon-Sun) Speed Limit 62 MPH																		Channel: Southeastbound	
Location 2 South Delta to Motor Row				From 11/08/2020 to 11/08/2020																			
	Total	Per-Mile	Per-Min	Max	Min	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85-90	90-95	95-100
0:00	3			41	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	7			40	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	1			41	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	11			41	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	3			38	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
5:00	7			39	5	0	0	0	0	0	0	0	0	0	0	1	3	2	1	0	0	0	0
6:00	15	44		39	4	0	0	0	0	0	0	0	0	0	2	7	1	7	1	0	0	0	0
7:00	33	43		37	6	0	0	0	0	0	0	0	0	0	3	7	12	7	2	0	0	0	0
8:00	28	39		38	5	0	0	0	0	0	0	0	0	0	0	0	10	4	0	0	0	0	0
9:00	31	40		35	5	0	0	0	0	0	0	0	0	0	1	3	11	13	3	1	0	0	0
10:00	45	41		35	5	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0
11:00	39	40		35	5	0	0	0	0	0	0	0	0	0	1	4	13	15	6	1	0	0	0
12:00	42	40		35	5	0	0	0	0	0	0	0	0	0	5	18	14	5	0	0	0	0	0
13:00	40	34		44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14:00	47	40		35	5	0	0	0	0	0	0	0	0	0	1	5	23	12	5	0	0	0	0
15:00	45	40		35	5	0	0	0	0	0	0	0	0	0	0	0	1	7	17	0	0	0	0
16:00	52	40		35	5	0	0	0	0	0	0	0	0	0	1	4	20	20	5	2	0	0	0
17:00	49	36		36	5	0	0	0	0	0	0	0	0	0	0	0	0	18	7	1	0	0	0
18:00	37	41		36	5	0	0	0	0	0	0	0	0	0	0	4	11	15	6	1	0	0	0
19:00	32	41		36	6	0	0	0	0	0	0	0	0	0	1	2	11	11	5	1	1	0	0
20:00	20	41		36	6	0	0	0	0	0	0	0	0	0	0	0	1	7	2	0	0	0	0
21:00	14	39		35	5	0	0	0	0	0	0	0	0	0	0	2	5	4	2	0	0	0	0
22:00	9	39		36	6	0	0	0	0	0	0	0	0	0	0	0	1	3	1	1	1	0	0
23:00	5	38	6		0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0
Total																							
12947-13947	4888	40	35	5	0	0	1	2	6	56	208	181	173	61	12	170	2	1	0	0	0	0	0
13948-221	270	41	35	5	0	0	1	2	7	57	206	202	75	16	36	3	1	0	0	0	0	0	0
13949-13949	1584	41	35	5	0	0	1	2	7	57	211	206	77	16	4	1	0	0	0	0	0	0	0
13950-13950	599	41	36	5	0	0	1	2	7	58	211	212	82	18	4	0	0	0	0	0	0	0	0
MPM Peak	10:00		0:00	3:00		10:00	11:00	11:00	11:00	11:00	10:00	10:00	11:00	7:00	7:00	20:00	11:00	11:00					
	41		41			0	0	0	0	0	5	17	15										
MPM Peak	16:00	19:00	23:00	13:00		23:00	14:00	13:00	18:00	15:00	13:00	14:00	16:00	17:00	18:00	19:00	20:00	14:00					
	52	41	38	6	0	0	1	0	1	1	6	23	20	7	2	1	0	0	0	0	0	0	0

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Site No. 12720001		Site Ref. 12720001		Classification Summary (Mon-Fri) Euro 13														Channel: Northeastbound	
Location 1 North Dalzell St Moor Row		From 21/08/2020 To 28/08/2020																	
	Total Vehicles C/15min	Bin 1 21-25	Bin 2 26-30	Bin 3 31-35	Bin 4 36-40	Bin 5 41-45	Bin 6 46-50	Bin 7 51-55	Bin 8 56-60	Bin 9 61-65	Bin 10 66-70	Bin 11 71-75	Bin 12 76-80	Bin 13 81-85	Bin 14 86-90				
0:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4:00	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
5:00	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0				
6:00	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0				
7:00	29	28	1	0	0	0	0	0	0	0	0	0	0	0	0				
8:00	40	39	1	0	0	0	0	0	0	0	0	0	0	0	0				
9:00	43	43	0	0	0	0	0	0	0	0	0	0	0	0	0				
10:00	44	43	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:00	64	58	1	0	0	0	0	0	0	0	0	0	0	0	0				
12:00	62	61	1	0	0	0	0	0	0	0	0	0	0	0	0				
13:00	57	55	1	0	0	0	0	0	0	0	0	0	0	0	0				
14:00	63	62	1	0	0	0	0	0	0	0	0	0	0	0	0				
15:00	67	66	1	0	0	0	0	0	0	0	0	0	0	0	0				
16:00	94	92	1	0	0	0	0	0	0	0	0	0	0	0	0				
17:00	78	77	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:00	46	46	0	0	0	0	0	0	0	0	0	0	0	0	0				
19:00	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0				
20:00	19	18	0	0	0	0	0	0	0	0	0	0	0	0	0				
21:00	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0				
22:00	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0				
23:00	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	12467-139	676	666	7	1	0	0	0	0	0	0	0	1	0	0				
18166-223	755	744	7	1	0	0	0	0	0	0	0	0	2	0	0				
18166-244	764	753	7	1	0	0	0	0	0	0	0	0	2	0	0				
24400-245	774	764	7	1	0	0	0	0	0	0	0	0	2	0	0				
AM Peak	11:00	11:00	8:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	8:00	11:00	11:00	11:00				
	54	53	1	0	0	0	0	0	0	0	0	1	0	0	0				
PM Peak	16:00	16:00	13:00	23:00	23:00	23:00	23:00	16:00	19:00	23:00	23:00	23:00	20:00	23:00	23:00				
	94	92	1	0	0	0	0	0	0	0	0	0	0	0	0				

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Site No. 12720002		Site Ref. 12720002		Classification Summary (Mon-Fri) Euro 13												Channel: Northwestbound			
Location 2 South Dalzell St Moor Row				From 21/08/2020 To 28/08/2020															
	Total Vehicles C/15min	Bin 1 21-25	Bin 2 26-30	Bin 3 31-35	Bin 4 36-40	Bin 5 41-45	Bin 6 46-50	Bin 7 51-55	Bin 8 56-60	Bin 9 61-65	Bin 10 66-70	Bin 11 71-75	Bin 12 76-80	Bin 13 81-85	Bin 14 86-90				
0:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4:00	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
5:00	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0				
6:00	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0				
7:00	32	31	1	0	0	0	0	0	0	0	0	0	0	0	0				
8:00	43	42	1	0	0	0	0	0	0	0	0	0	0	0	0				
9:00	43	42	0	0	0	0	0	0	0	0	0	0	0	0	0				
10:00	44	43	1	0	0	0	0	0	0	0	0	0	0	0	0				
11:00	63	52	1	0	0	0	0	0	0	0	0	0	0	0	0				
12:00	63	61	1	0	0	0	0	0	0	0	0	0	0	0	0				
13:00	58	56	1	0	0	0	0	0	0	0	0	0	0	0	0				
14:00	62	61	1	0	0	0	0	0	0	0	0	0	0	0	0				
15:00	66	65	1	0	0	0	0	0	0	0	0	0	0	0	0				
16:00	94	92	1	0	0	0	0	0	0	0	0	0	0	0	0				
17:00	77	77	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:00	47	46	0	0	0	0	0	0	0	0	0	0	0	0	0				
19:00	31	30	0	0	0	0	0	0	0	0	0	0	0	0	0				
20:00	19	18	0	0	0	0	0	0	0	0	0	0	0	0	0				
21:00	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0				
22:00	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0				
23:00	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total																			
12467-139	681	669	10	1	0	0	0	0	0	0	0	0	0	1	0				
18166-223	761	748	10	1	0	0	0	0	0	0	0	0	0	1	0				
18166-244	770	757	10	1	0	0	0	0	0	0	0	0	0	1	0				
24400-245	782	769	10	1	0	0	0	0	0	0	0	0	0	1	0				
AM Peak	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	7:00	11:00	11:00	11:00	7:00	11:00	11:00				
	53	52	1	0	0	0	0	0	0	0	0	0	0	0	0				
PM Peak	16:00	16:00	14:00	19:00	23:00	23:00	23:00	16:00	23:00	23:00	23:00	23:00	16:00	23:00	23:00				
	94	92	1	0	0	0	0	0	0	0	0	0	0	0	0				

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Site No. 12720001		Site Ref. 12720001		Classification Summary (Mon-Fri) Euro 13														Channel: Southwestbound	
Location 1 North Dalzell St Moor Row		From 21/08/2020 To 28/08/2020																	
Time	Total Vehicles C/15min	Bin 1 21-25	Bin 2 26-30	Bin 3 31-35	Bin 4 36-40	Bin 5 41-45	Bin 6 46-50	Bin 7 51-55	Bin 8 56-60	Bin 9 61-65	Bin 10 66-70	Bin 11 71-75	Bin 12 76-80	Bin 13 81-85	Bin 14 86-90				
0:00	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:00	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
4:00	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0				
5:00	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0				
6:00	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0				
7:00	36	35	0	0	0	0	0	0	0	0	0	0	0	0	0				
8:00	32	31	0	0	0	0	0	0	0	0	0	0	0	0	0				
9:00	35	34	1	0	0	0	0	0	0	0	0	0	0	0	0				
10:00	44	43	1	1	0	0	0	0	0	0	0	0	0	0	0				
11:00	40	38	2	0	0	0	0	0	0	0	0	0	0	0	0				
12:00	45	45	0	0	0	0	0	0	0	0	0	0	0	0	0				
13:00	47	46	0	0	0	0	0	0	0	0	0	0	0	0	0				
14:00	50	49	1	0	0	0	0	0	0	0	0	0	0	0	0				
15:00	49	48	0	0	0	0	0	0	0	0	0	0	0	0	0				
16:00	56	55	1	0	0	0	0	0	0	0	0	0	0	0	0				
17:00	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0				
18:00	41	41	0	0	0	0	0	0	0	0	0	0	0	0	0				
19:00	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0				
20:00	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0				
21:00	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0				
22:00	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0				
23:00	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	12467-139	532	522	6	2	0	0	0	0	0	0	0	0	1	0				
18166-223	626	615	7	2	0	0	0	0	0	0	0	0	0	2	0				
18166-244	640	629	7	2	0	0	0	0	0	0	0	0	0	2	0				
24400-245	654	643	7	2	0	0	0	0	0	0	0	0	0	2	0				
AM Peak	10:00	10:00	11:00	10:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	11:00	8:00	11:00	11:00				
	44	43	2	1	0	0	0	0	0	0	0	0	0	0	0				
PM Peak	16:00	16:00	14:00	18:00	13:00	23:00	23:00	23:00	23:00	23:00	23:00	21:00	23:00	21:00	23:00				
	55	55	1	0	0	0	0	0	0	0	0	0	0	0	0				

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Site No. 12720002		Site Ref. 127
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