



Norwich Western Link

Transport Assessment - Appendix 11 – Junction Model Results

Sub Appendix 11e – Junction 7 Berrys Lane/ Barnham Broom Road/ Mattishall Road crossroads (Honingham)

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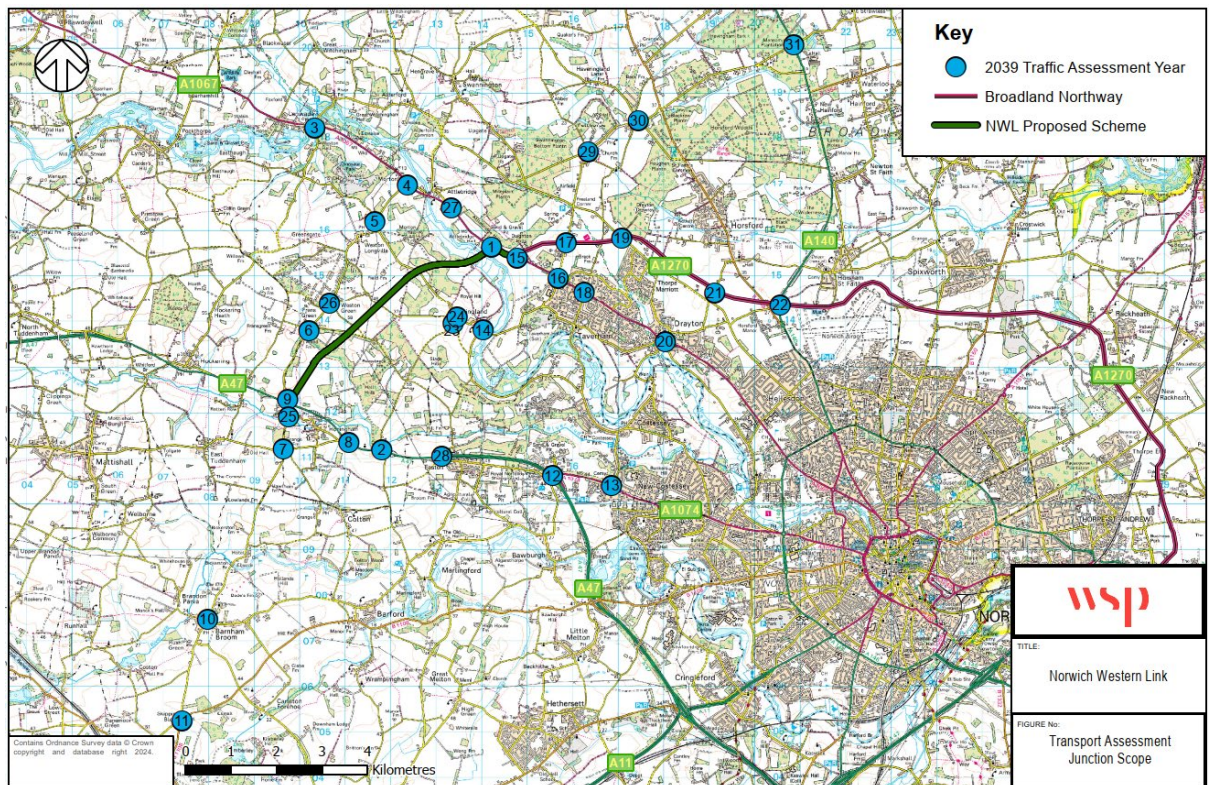
1 Junction Model Results

1.1.1 Junctions 10 modelling software output file that shows the junction capacity results for Junction 7 of the TA.

1.1.2 We have included a summary of key information shown in this document in an accessible format. However, some users may not be able to access all technical details. If you require this document in a more accessible format please contact norwichwesternlink@norfolk.gov.uk

1.1.3 The TA scope map is shown below as a location plan.

Figure 1-1 Junction Assessment Scope



1.1.4 The model results are presented for 2029 and 2039 future assessment years for AM and PM peak hours, taking 7.30-8.30am and AM peak and 5pm-6pm as PM peak.



1.1.5 The scenarios tested are as follows:

- Do Minimum – the baseline future situation with committed developments and planned highway improvements but without the Proposed Scheme.
- Do Something - the baseline future situation with the Proposed Scheme.
- Do Something + Mitigation - the baseline future situation with the Proposed Scheme added plus a package of traffic mitigation measures in the wider network (north of A1067 and south of A47 plus Honingham Lane closure).



**J7 – Berrys lane/ Barnham Broom Road/ Mattishall Road crossroads
(Honingham) Results**

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.1.1519

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Report generation date: 29/01/2024 15:25:40

- »2029DM, AM
- »2029DM, PM
- »2029DS, AM
- »2029DS, PM
- »2029DS_Mitigation, AM
- »2029DS_Mitigation, PM
- »2039DM, AM
- »2039DM, PM
- »2039DS, AM
- »2039DS, PM
- »2039DS_Mitigation, AM
- »2039DS_Mitigation, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
2029DM										
Stream B-ACD	D1	0.1	7.44	0.08	A	D2	0.1	7.14	0.07	A
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-BC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
2029DS										
Stream B-ACD	D3	0.1	7.57	0.10	A	D4	0.1	7.14	0.09	A
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-BC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
2029DS_Mitigation										
Stream B-ACD	D5	0.1	7.21	0.07	A	D6	0.1	7.02	0.06	A
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-BC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
2039DM										
Stream B-ACD	D7	0.1	7.78	0.11	A	D8	0.1	7.23	0.08	A
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-BC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
2039DS										
Stream B-ACD	D9	0.2	8.34	0.17	A	D10	0.1	7.26	0.10	A
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-BC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
2039DS_Mitigation										
Stream B-ACD	D11	0.1	7.41	0.09	A	D12	0.1	7.09	0.08	A
Stream A-BCD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-AB		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream D-BC		0.0	0.00	0.00	A		0.0	0.00	0.00	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

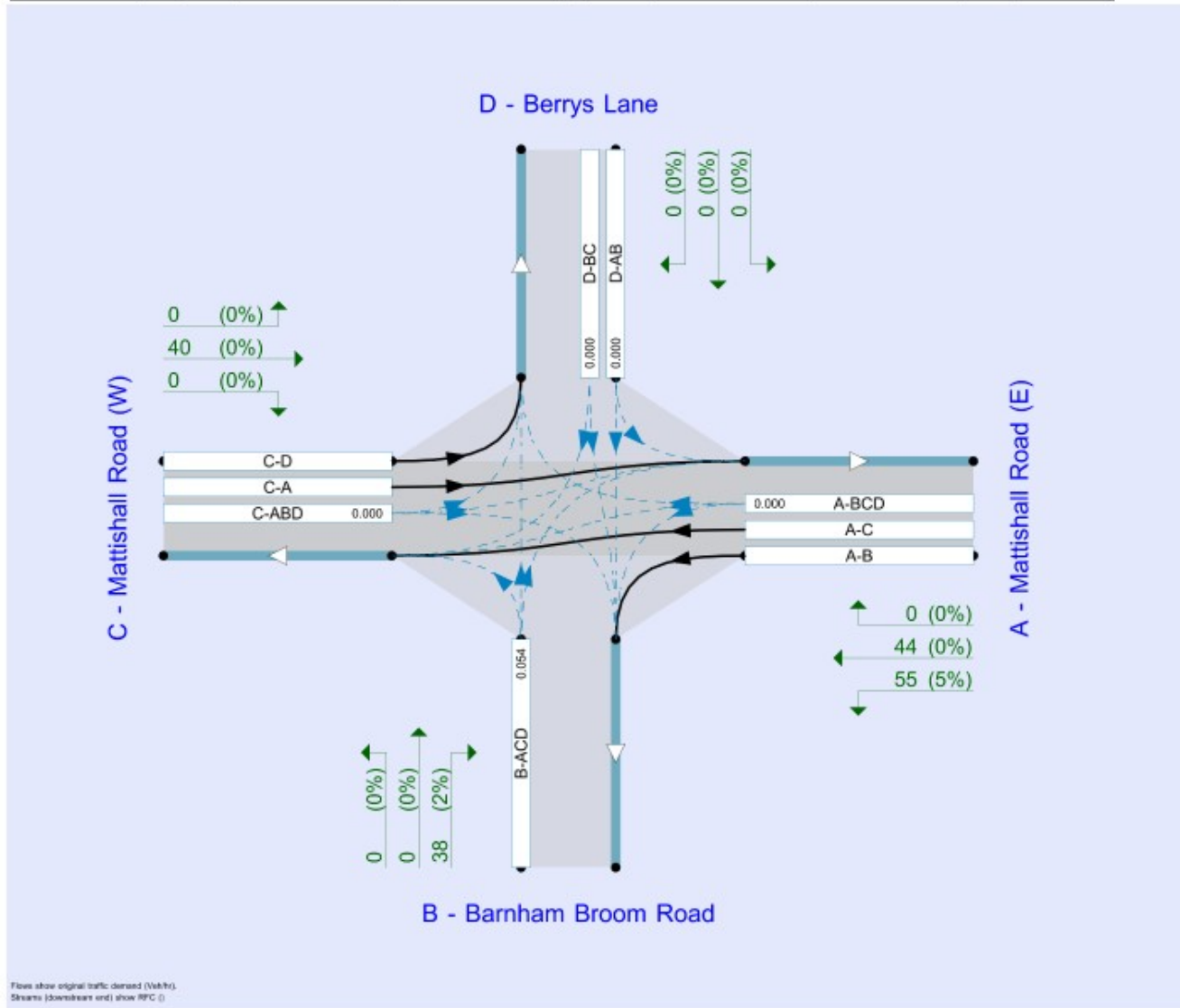
File summary

File Description

Title	Barnham Broom Road/ Berrys Lane/ Mattishall Road
Location	1.098218 ,52.857849
Site number	7
Date	21/03/2023
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CORP\IINAA02374
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	PCU	perHour	s	-Min	perMin



Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	38.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029DM	AM	ONE HOUR	07:15	08:45	15	✓
D2	2029DM	PM	ONE HOUR	16:45	18:15	15	✓
D3	2029DS	AM	ONE HOUR	07:15	08:45	15	✓
D4	2029DS	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓
D6	2029DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓
D7	2039DM	AM	ONE HOUR	07:15	08:45	15	✓
D8	2039DM	PM	ONE HOUR	16:45	18:15	15	✓
D9	2039DS	AM	ONE HOUR	07:15	08:45	15	✓
D10	2039DS	PM	ONE HOUR	16:45	18:15	15	✓
D11	2039DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓
D12	2039DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		1.60	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.60	A

Arms

Arms

Arm	Name	Description	Arm type
A	Mattishall Road (E)		Major
B	Barnham Broom Road		Minor
C	Mattishall Road (W)		Major
D	Berrys Lane		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - Mattishall Road (E)	6.05			72.4	✓	0.00
C - Mattishall Road (W)	6.05			110.3	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Barnham Broom Road	One lane	4.06								33	45
D - Berrys Lane	One lane plus flare		10.00	6.80	4.40	4.00	3.60	✓	1.00	45	34

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
A-D	616	-	-	-	-	-	-	0.238	0.340	0.238	-	-	-
B-A	565	0.103	0.259	0.259	-	-	-	0.163	0.371	-	0.259	0.259	0.130
B-C	722	0.110	0.279	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	565	0.103	0.259	0.259	-	-	-	0.163	0.371	0.163	-	-	-
B-D, offside lane	565	0.103	0.259	0.259	-	-	-	0.163	0.371	0.163	-	-	-
C-B	638	0.247	0.247	0.352	-	-	-	-	-	-	-	-	-
D-A	680	-	-	-	-	-	-	0.263	-	0.104	-	-	-
D-B, nearside lane	536	0.155	0.155	0.352	-	-	-	0.246	0.246	0.097	-	-	-
D-B, offside lane	536	0.155	0.155	0.352	-	-	-	0.246	0.246	0.097	-	-	-
D-C	536	-	0.155	0.352	0.123	0.246	0.246	0.246	0.246	0.097	-	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029DM	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	100	100.000
B - Barnham Broom Road		ONE HOUR	✓	38	100.000
C - Mattishall Road (W)		ONE HOUR	✓	40	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
	A - Mattishall Road (E)	0	55	44	0
	B - Barnham Broom Road	38	0	0	0
	C - Mattishall Road (W)	40	0	0	0
	D - Berrys Lane	0	0	0	0

Proportions

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
	A - Mattishall Road (E)	0.00	0.56	0.44
	B - Barnham Broom Road	1.00	0.00	0.00
	C - Mattishall Road (W)	1.00	0.00	0.00
	D - Berrys Lane	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	5	0	0
	B - Barnham Broom Road	2	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.046	1.002
	B - Barnham Broom Road	1.024	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	07:15-07:30	75	77
	07:30-07:45	90	92
	07:45-08:00	110	113
	08:00-08:15	110	113
	08:15-08:30	90	92
	08:30-08:45	75	77
B - Barnham Broom Road	07:15-07:30	29	29
	07:30-07:45	34	35
	07:45-08:00	42	43
	08:00-08:15	42	43
	08:15-08:30	34	35
	08:30-08:45	29	29
C - Mattishall Road (W)	07:15-07:30	30	30
	07:30-07:45	36	36
	07:45-08:00	44	44
	08:00-08:15	44	44
	08:15-08:30	36	36
	08:30-08:45	30	30
D - Berrys Lane	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.08	7.44	0.1	A	36	54
A-BCD	0.00	0.00	0.0	A	0	0
A-B					53	80
A-C					41	61
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					36	55

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	547	0.054	29	0.0	0.1	7.119	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	33	8			33				
D-AB	0	0	584	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	518	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	619	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	30	7			30				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	543	0.065	35	0.1	0.1	7.253	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	52	13			52				
A-C	40	10			40				
D-AB	0	0	581	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	515	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	615	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	36	9			36				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	11	538	0.080	43	0.1	0.1	7.440	A
A-BCD	0	0	605	0.000	0	0.0	0.0	0.000	A
A-B	64	16			64				
A-C	49	12			49				
D-AB	0	0	577	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	510	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	610	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	44	11			44				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	11	538	0.080	43	0.1	0.1	7.440	A
A-BCD	0	0	605	0.000	0	0.0	0.0	0.000	A
A-B	64	16			64				
A-C	49	12			49				
D-AB	0	0	577	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	510	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	610	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	44	11			44				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	543	0.065	35	0.1	0.1	7.258	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	52	13			52				
A-C	40	10			40				
D-AB	0	0	581	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	515	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	615	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	36	9			36				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	547	0.054	29	0.1	0.1	7.128	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	33	8			33				
D-AB	0	0	584	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	518	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	619	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	30	7			30				

2029DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.82	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.82	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029DM	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	40	100.000
B - Barnham Broom Road		ONE HOUR	✓	34	100.000
C - Mattishall Road (W)		ONE HOUR	✓	12	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	14	27	0
	B - Barnham Broom Road	34	0	0	0
	C - Mattishall Road (W)	12	0	0	0
	D - Berrys Lane	0	0	0	0

Proportions

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	0.00	0.34	0.68
	B - Barnham Broom Road	1.00	0.00	0.00
	C - Mattishall Road (W)	1.00	0.00	0.00
	D - Berrys Lane	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
	A - Mattishall Road (E)	0	2	0	0
	B - Barnham Broom Road	2	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
	A - Mattishall Road (E)	1.000	1.022	1.000
	B - Barnham Broom Road	1.022	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	16:45-17:00	30	30
	17:00-17:15	36	36
	17:15-17:30	44	45
	17:30-17:45	44	45
	17:45-18:00	36	36
	18:00-18:15	30	30
B - Barnham Broom Road	16:45-17:00	25	26
	17:00-17:15	30	31
	17:15-17:30	37	38
	17:30-17:45	37	38
	17:45-18:00	30	31
	18:00-18:15	25	26
C - Mattishall Road (W)	16:45-17:00	9	9
	17:00-17:15	11	11
	17:15-17:30	13	13
	17:30-17:45	13	13
	17:45-18:00	11	11
	18:00-18:15	9	9
D - Berrys Lane	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.07	7.14	0.1	A	31	47
A-BCD	0.00	0.00	0.0	A	0	0
A-B					13	19
A-C					24	37
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					11	16

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	28	8	557	0.048	28	0.0	0.0	6.927	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	10	3			10				
A-C	20	5			20				
D-AB	0	0	594	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	528	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	630	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	9	2			9				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	555	0.056	31	0.0	0.1	7.016	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	12	3			12				
A-C	24	6			24				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	527	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	38	9	553	0.068	38	0.1	0.1	7.138	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	29	7			29				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	525	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	13	3			13				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	38	9	553	0.068	38	0.1	0.1	7.138	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	29	7			29				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	525	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	13	3			13				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	555	0.056	31	0.1	0.1	7.017	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	12	3			12				
A-C	24	6			24				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	527	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	26	6	557	0.046	26	0.1	0.1	6.931	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	10	3			10				
A-C	20	5			20				
D-AB	0	0	594	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	528	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	630	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	9	2			9				

2029DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		1.96	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.96	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2029DS	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	101	100.000
B - Barnham Broom Road		ONE HOUR	✓	47	100.000
C - Mattishall Road (W)		ONE HOUR	✓	33	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	66	35	0
B - Barnham Broom Road	47	0	0	0
C - Mattishall Road (W)	33	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	
A - Mattishall Road (E)	0.00	0.66	0.34	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	4	0	0
	B - Barnham Broom Road	3	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.041	1.003
	B - Barnham Broom Road	1.027	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	07:15-07:30	78	78
	07:30-07:45	91	93
	07:45-08:00	111	114
	08:00-08:15	111	114
	08:15-08:30	91	93
	08:30-08:45	78	78
B - Barnham Broom Road	07:15-07:30	35	36
	07:30-07:45	42	43
	07:45-08:00	51	53
	08:00-08:15	51	53
	08:15-08:30	42	43
	08:30-08:45	35	36
C - Mattishall Road (W)	07:15-07:30	25	25
	07:30-07:45	30	30
	07:45-08:00	37	37
	08:00-08:15	37	37
	08:15-08:30	30	30
	08:30-08:45	25	25
D - Berrys Lane	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.10	7.57	0.1	A	44	68
A-BCD	0.00	0.00	0.0	A	0	0
A-B					63	95
A-C					32	48
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					31	48

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	36	9	548	0.066	36	0.0	0.1	7.207	A
A-BCD	0	0	610	0.000	0	0.0	0.0	0.000	A
A-B	52	13			52				
A-C	26	7			26				
D-AB	0	0	585	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	520	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	619	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	25	6			25				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	11	545	0.079	43	0.1	0.1	7.358	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	62	16			62				
A-C	31	8			31				
D-AB	0	0	583	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	516	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	615	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	30	7			30				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	53	13	541	0.097	53	0.1	0.1	7.569	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	38	10			38				
D-AB	0	0	579	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	610	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	37	9			37				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	53	13	541	0.097	53	0.1	0.1	7.569	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	76	19			76				
A-C	38	10			38				
D-AB	0	0	579	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	512	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	610	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	37	9			37				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	11	545	0.079	43	0.1	0.1	7.380	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	62	16			62				
A-C	31	8			31				
D-AB	0	0	583	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	516	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	615	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	30	7			30				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	36	9	548	0.066	36	0.1	0.1	7.217	A
A-BCD	0	0	610	0.000	0	0.0	0.0	0.000	A
A-B	52	13			52				
A-C	26	7			26				
D-AB	0	0	585	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	520	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	619	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	25	6			25				

2029DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		3.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.01	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2029DS	PM	ONE HOUR	18:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	46	100.000
B - Barnham Broom Road		ONE HOUR	✓	44	100.000
C - Mattishall Road (W)		ONE HOUR	✓	10	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	24	22	0
B - Barnham Broom Road	44	0	0	0
C - Mattishall Road (W)	10	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	
A - Mattishall Road (E)	0.00	0.51	0.49	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	16	0	0
	B - Barnham Broom Road	0	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.161	1.000
	B - Barnham Broom Road	1.003	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	16:45-17:00	35	38
	17:00-17:15	42	45
	17:15-17:30	51	55
	17:30-17:45	51	55
	17:45-18:00	42	45
	18:00-18:15	35	38
B - Barnham Broom Road	16:45-17:00	33	33
	17:00-17:15	39	39
	17:15-17:30	48	48
	17:30-17:45	48	48
	17:45-18:00	39	39
	18:00-18:15	33	33
C - Mattishall Road (W)	16:45-17:00	7	7
	17:00-17:15	9	9
	17:15-17:30	11	11
	17:30-17:45	11	11
	17:45-18:00	9	9
	18:00-18:15	7	7
D - Berrys Lane	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.09	7.14	0.1	A	40	60
A-BCD	0.00	0.00	0.0	A	0	0
A-B					25	38
A-C					21	31
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					9	14

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	33	8	557	0.059	33	0.0	0.1	6.882	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	21	5			21				
A-C	17	4			17				
D-AB	0	0	594	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	528	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	7	2			7				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	39	10	555	0.071	39	0.1	0.1	6.992	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	20	5			20				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	9	2			9				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	48	12	553	0.087	48	0.1	0.1	7.143	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	30	8			30				
A-C	25	6			25				
D-AB	0	0	591	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	524	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	624	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	48	12	553	0.087	48	0.1	0.1	7.143	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	30	8			30				
A-C	25	6			25				
D-AB	0	0	591	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	524	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	624	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	39	10	555	0.071	39	0.1	0.1	6.994	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	25	6			25				
A-C	20	5			20				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	9	2			9				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	33	8	557	0.059	33	0.1	0.1	6.888	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	21	5			21				
A-C	17	4			17				
D-AB	0	0	594	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	528	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	7	2			7				

2029DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		1.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.42	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2029DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	84	100.000
B - Barnham Broom Road		ONE HOUR	✓	35	100.000
C - Mattishall Road (W)		ONE HOUR	✓	56	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	39	45	0
B - Barnham Broom Road	35	0	0	0
C - Mattishall Road (W)	56	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	
A - Mattishall Road (E)	0.00	0.47	0.53	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	0	2	0
	B - Barnham Broom Road	0	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.000	1.024
	B - Barnham Broom Road	1.000	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	07:15-07:30	63	64
	07:30-07:45	75	76
	07:45-08:00	92	93
	08:00-08:15	92	93
	08:15-08:30	75	76
	08:30-08:45	63	64
B - Barnham Broom Road	07:15-07:30	26	26
	07:30-07:45	31	31
	07:45-08:00	38	38
	08:00-08:15	38	38
	08:15-08:30	31	31
	08:30-08:45	26	26
C - Mattishall Road (W)	07:15-07:30	42	42
	07:30-07:45	51	51
	07:45-08:00	62	62
	08:00-08:15	62	62
	08:15-08:30	51	51
	08:30-08:45	42	42
D - Berrys Lane	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.07	7.21	0.1	A	32	48
A-BCD	0.00	0.00	0.0	A	0	0
A-B					36	54
A-C					42	63
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					52	78

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	28	8	546	0.048	28	0.0	0.0	6.922	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	29	7			29				
A-C	34	9			34				
D-AB	0	0	582	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	516	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	622	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	42	11			42				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	542	0.057	31	0.0	0.1	7.043	A
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	35	9			35				
A-C	41	10			41				
D-AB	0	0	579	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	513	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	619	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	51	13			51				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	38	10	537	0.071	38	0.1	0.1	7.213	A
A-BCD	0	0	601	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	50	13			50				
D-AB	0	0	574	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	507	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	615	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	62	16			62				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	38	10	537	0.071	38	0.1	0.1	7.213	A
A-BCD	0	0	601	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	50	13			50				
D-AB	0	0	574	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	507	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	615	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	62	16			62				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	542	0.057	31	0.1	0.1	7.045	A
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	35	9			35				
A-C	41	10			41				
D-AB	0	0	579	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	513	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	619	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	51	13			51				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	26	6	546	0.048	26	0.1	0.1	6.926	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	29	7			29				
A-C	34	9			34				
D-AB	0	0	582	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	516	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	622	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	42	11			42				

2029DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.32	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.32	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2029DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	49	100.000
B - Barnham Broom Road		ONE HOUR	✓	32	100.000
C - Mattishall Road (W)		ONE HOUR	✓	17	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	10	39	0
B - Barnham Broom Road	32	0	0	0
C - Mattishall Road (W)	17	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	
A - Mattishall Road (E)	0.00	0.20	0.80	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	0	0	0
	B - Barnham Broom Road	0	0	0	0
	C - Mattishall Road (W)	2	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.004	1.003
	B - Barnham Broom Road	1.002	1.000	1.000
	C - Mattishall Road (W)	1.019	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	16:45-17:00	37	37
	17:00-17:15	44	44
	17:15-17:30	53	54
	17:30-17:45	53	54
	17:45-18:00	44	44
	18:00-18:15	37	37
B - Barnham Broom Road	16:45-17:00	24	24
	17:00-17:15	29	29
	17:15-17:30	36	36
	17:30-17:45	36	36
	17:45-18:00	29	29
	18:00-18:15	24	24
C - Mattishall Road (W)	16:45-17:00	12	13
	17:00-17:15	15	15
	17:15-17:30	18	19
	17:30-17:45	18	19
	17:45-18:00	15	15
	18:00-18:15	12	13
D - Berrys Lane	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.06	7.02	0.1	A	30	45
A-BCD	0.00	0.00	0.0	A	0	0
A-B					9	13
A-C					36	54
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					15	23

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	24	6	554	0.044	24	0.0	0.0	6.805	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	7	2			7				
A-C	29	7			29				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	13	3			13				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	552	0.053	29	0.0	0.1	6.896	A
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	35	9			35				
D-AB	0	0	591	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	524	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	15	4			15				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	36	9	549	0.065	36	0.1	0.1	7.021	A
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	43	11			43				
D-AB	0	0	590	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	522	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	625	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	19	5			19				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	36	9	549	0.065	36	0.1	0.1	7.021	A
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	11	3			11				
A-C	43	11			43				
D-AB	0	0	590	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	522	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	625	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	19	5			19				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	552	0.053	29	0.1	0.1	6.897	A
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	9	2			9				
A-C	35	9			35				
D-AB	0	0	591	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	524	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	15	4			15				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	24	6	554	0.044	24	0.1	0.0	6.809	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	7	2			7				
A-C	29	7			29				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	13	3			13				

2039DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.11	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.11	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2039DM	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	104	100.000
B - Barnham Broom Road		ONE HOUR	✓	52	100.000
C - Mattishall Road (W)		ONE HOUR	✓	37	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	57	46	0
B - Barnham Broom Road	52	0	0	0
C - Mattishall Road (W)	37	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	
A - Mattishall Road (E)	0.00	0.55	0.45	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	5	0	0
	B - Barnham Broom Road	3	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.052	1.002
	B - Barnham Broom Road	1.035	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	07:15-07:30	78	80
	07:30-07:45	93	96
	07:45-08:00	114	117
	08:00-08:15	114	117
	08:15-08:30	93	96
	08:30-08:45	78	80
B - Barnham Broom Road	07:15-07:30	39	40
	07:30-07:45	47	48
	07:45-08:00	57	59
	08:00-08:15	57	59
	08:15-08:30	47	48
	08:30-08:45	39	40
C - Mattishall Road (W)	07:15-07:30	28	28
	07:30-07:45	33	33
	07:45-08:00	41	41
	08:00-08:15	41	41
	08:15-08:30	33	33
	08:30-08:45	28	28
D - Berrys Lane	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.11	7.78	0.1	A	49	74
A-BCD	0.00	0.00	0.0	A	0	0
A-B					55	83
A-C					43	64
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					34	51

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	40	10	546	0.074	40	0.0	0.1	7.351	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	45	11			45				
A-C	35	9			35				
D-AB	0	0	584	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	518	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	618	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	28	7			28				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	48	12	543	0.089	48	0.1	0.1	7.529	A
A-BCD	0	0	608	0.000	0	0.0	0.0	0.000	A
A-B	54	14			54				
A-C	42	10			42				
D-AB	0	0	582	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	514	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	614	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	33	8			33				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	59	15	538	0.110	59	0.1	0.1	7.774	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	66	17			66				
A-C	51	13			51				
D-AB	0	0	577	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	509	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	609	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	41	10			41				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	59	15	538	0.110	59	0.1	0.1	7.777	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	66	17			66				
A-C	51	13			51				
D-AB	0	0	577	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	509	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	609	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	41	10			41				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	48	12	543	0.089	48	0.1	0.1	7.535	A
A-BCD	0	0	608	0.000	0	0.0	0.0	0.000	A
A-B	54	14			54				
A-C	42	10			42				
D-AB	0	0	582	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	514	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	614	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	33	8			33				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	40	10	546	0.074	40	0.1	0.1	7.362	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	45	11			45				
A-C	35	9			35				
D-AB	0	0	584	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	518	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	618	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	28	7			28				

2039DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.77	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.77	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2039DM	PM	ONE HOUR	18:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	49	100.000
B - Barnham Broom Road		ONE HOUR	✓	38	100.000
C - Mattishall Road (W)		ONE HOUR	✓	13	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	20	30	0
	B - Barnham Broom Road	38	0	0	0
	C - Mattishall Road (W)	13	0	0	0
	D - Berrys Lane	0	0	0	0

Proportions

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	0.00	0.40	0.60
	B - Barnham Broom Road	1.00	0.00	0.00
	C - Mattishall Road (W)	1.00	0.00	0.00
	D - Berrys Lane	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	2	0	0
	B - Barnham Broom Road	2	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.019	1.000
	B - Barnham Broom Road	1.023	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	16:45-17:00	37	37
	17:00-17:15	44	45
	17:15-17:30	54	55
	17:30-17:45	54	55
	17:45-18:00	44	45
	18:00-18:15	37	37
B - Barnham Broom Road	16:45-17:00	29	29
	17:00-17:15	34	35
	17:15-17:30	42	43
	17:30-17:45	42	43
	17:45-18:00	34	35
	18:00-18:15	29	29
C - Mattishall Road (W)	16:45-17:00	10	10
	17:00-17:15	12	12
	17:15-17:30	14	14
	17:30-17:45	14	14
	17:45-18:00	12	12
	18:00-18:15	10	10
D - Berrys Lane	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.08	7.23	0.1	A	36	53
A-BCD	0.00	0.00	0.0	A	0	0
A-B					18	27
A-C					27	41
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					12	18

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	556	0.052	29	0.0	0.1	6.984	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	22	6			22				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	527	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	10	2			10				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	554	0.063	35	0.1	0.1	7.089	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	18	4			18				
A-C	27	7			27				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	12	3			12				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	11	552	0.077	43	0.1	0.1	7.232	A
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	22	5			22				
A-C	33	8			33				
D-AB	0	0	591	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	523	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	624	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	14	4			14				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	43	11	552	0.077	43	0.1	0.1	7.232	A
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	22	5			22				
A-C	33	8			33				
D-AB	0	0	591	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	523	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	624	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	14	4			14				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	554	0.063	35	0.1	0.1	7.091	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	18	4			18				
A-C	27	7			27				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	12	3			12				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	556	0.052	29	0.1	0.1	6.994	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	15	4			15				
A-C	22	6			22				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	527	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	629	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	10	2			10				

2039DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		3.08	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.08	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2039DS	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	108	100.000
B - Barnham Broom Road		ONE HOUR	✓	80	100.000
C - Mattishall Road (W)		ONE HOUR	✓	30	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
	A - Mattishall Road (E)	0	73	35	0
	B - Barnham Broom Road	80	0	0	0
	C - Mattishall Road (W)	30	0	0	0
	D - Berrys Lane	0	0	0	0

Proportions

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
	A - Mattishall Road (E)	0.00	0.67	0.33
	B - Barnham Broom Road	1.00	0.00	0.00
	C - Mattishall Road (W)	1.00	0.00	0.00
	D - Berrys Lane	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
	A - Mattishall Road (E)	0	6	0	0
	B - Barnham Broom Road	4	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
	A - Mattishall Road (E)	1.000	1.061	1.003
	B - Barnham Broom Road	1.040	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	07:15-07:30	81	85
	07:30-07:45	97	101
	07:45-08:00	119	124
	08:00-08:15	119	124
	08:15-08:30	97	101
	08:30-08:45	81	85
B - Barnham Broom Road	07:15-07:30	60	63
	07:30-07:45	72	75
	07:45-08:00	88	92
	08:00-08:15	88	92
	08:15-08:30	72	75
	08:30-08:45	60	63
C - Mattishall Road (W)	07:15-07:30	22	22
	07:30-07:45	27	27
	07:45-08:00	33	33
	08:00-08:15	33	33
	08:15-08:30	27	27
	08:30-08:45	22	22
D - Berrys Lane	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.17	8.34	0.2	A	76	115
A-BCD	0.00	0.00	0.0	A	0	0
A-B					71	106
A-C					33	49
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					27	41

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	63	16	548	0.114	62	0.0	0.1	7.694	A
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	58	15			58				
A-C	27	7			27				
D-AB	0	0	585	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	518	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	617	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	22	6			22				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	75	19	545	0.137	75	0.1	0.2	7.980	A
A-BCD	0	0	610	0.000	0	0.0	0.0	0.000	A
A-B	69	17			69				
A-C	32	8			32				
D-AB	0	0	583	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	515	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	613	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	27	7			27				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	92	23	540	0.170	91	0.2	0.2	8.333	A
A-BCD	0	0	608	0.000	0	0.0	0.0	0.000	A
A-B	85	21			85				
A-C	39	10			39				
D-AB	0	0	579	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	510	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	607	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	33	8			33				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	92	23	540	0.170	92	0.2	0.2	8.340	A
A-BCD	0	0	608	0.000	0	0.0	0.0	0.000	A
A-B	85	21			85				
A-C	39	10			39				
D-AB	0	0	579	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	510	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	607	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	33	8			33				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	75	19	545	0.137	75	0.2	0.2	7.989	A
A-BCD	0	0	610	0.000	0	0.0	0.0	0.000	A
A-B	69	17			69				
A-C	32	8			32				
D-AB	0	0	583	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	515	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	613	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	27	7			27				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	63	16	548	0.114	63	0.2	0.1	7.716	A
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	58	15			58				
A-C	27	7			27				
D-AB	0	0	585	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	518	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	617	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	22	6			22				

2039DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		3.08	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.08	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2039DS	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	55	100.000
B - Barnham Broom Road		ONE HOUR	✓	50	100.000
C - Mattishall Road (W)		ONE HOUR	✓	10	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	38	17	0
B - Barnham Broom Road	50	0	0	0
C - Mattishall Road (W)	10	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0.00	0.69	0.31	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	11	0	0
	B - Barnham Broom Road	0	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.109	1.000
	B - Barnham Broom Road	1.003	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	16:45-17:00	41	44
	17:00-17:15	49	53
	17:15-17:30	60	65
	17:30-17:45	60	65
	17:45-18:00	49	53
	18:00-18:15	41	44
B - Barnham Broom Road	16:45-17:00	38	38
	17:00-17:15	45	45
	17:15-17:30	56	56
	17:30-17:45	56	56
	17:45-18:00	45	45
	18:00-18:15	38	38
C - Mattishall Road (W)	16:45-17:00	7	7
	17:00-17:15	9	9
	17:15-17:30	11	11
	17:30-17:45	11	11
	17:45-18:00	9	9
	18:00-18:15	7	7
D - Berrys Lane	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.10	7.26	0.1	A	46	70
A-BCD	0.00	0.00	0.0	A	0	0
A-B					38	58
A-C					16	23
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					9	13

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	38	10	557	0.068	38	0.0	0.1	6.956	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	13	3			13				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	528	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	7	2			7				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	45	11	555	0.082	45	0.1	0.1	7.083	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	38	9			38				
A-C	15	4			15				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	625	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	9	2			9				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	56	14	553	0.101	56	0.1	0.1	7.258	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	46	12			46				
A-C	19	5			19				
D-AB	0	0	590	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	524	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	622	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	56	14	553	0.101	56	0.1	0.1	7.258	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	46	12			46				
A-C	19	5			19				
D-AB	0	0	590	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	524	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	622	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	45	11	555	0.082	46	0.1	0.1	7.088	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	38	9			38				
A-C	15	4			15				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	526	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	625	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	9	2			9				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	38	10	557	0.068	38	0.1	0.1	6.963	A
A-BCD	0	0	614	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	13	3			13				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	528	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	627	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	7	2			7				

2039DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		1.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.83	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2039DS_Mitigation	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	87	100.000
B - Barnham Broom Road		ONE HOUR	✓	46	100.000
C - Mattishall Road (W)		ONE HOUR	✓	53	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
A - Mattishall Road (E)	0	44	43	0
B - Barnham Broom Road	46	0	0	0
C - Mattishall Road (W)	53	0	0	0
D - Berrys Lane	0	0	0	0

Proportions

From	To			
	A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	
A - Mattishall Road (E)	0.00	0.51	0.49	
B - Barnham Broom Road	1.00	0.00	0.00	
C - Mattishall Road (W)	1.00	0.00	0.00	
D - Berrys Lane	0.25	0.25	0.25	

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
	A - Mattishall Road (E)	0	0	1	0
	B - Barnham Broom Road	0	0	0	0
	C - Mattishall Road (W)	0	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
	A - Mattishall Road (E)	1.000	1.004	1.014
	B - Barnham Broom Road	1.002	1.000	1.000
	C - Mattishall Road (W)	1.000	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	07:15-07:30	65	66
	07:30-07:45	78	79
	07:45-08:00	95	96
	08:00-08:15	95	96
	08:15-08:30	78	79
	08:30-08:45	65	66
B - Barnham Broom Road	07:15-07:30	35	35
	07:30-07:45	41	42
	07:45-08:00	51	51
	08:00-08:15	51	51
	08:15-08:30	41	42
	08:30-08:45	35	35
C - Mattishall Road (W)	07:15-07:30	40	40
	07:30-07:45	48	48
	07:45-08:00	59	59
	08:00-08:15	59	59
	08:15-08:30	48	48
	08:30-08:45	40	40
D - Berrys Lane	07:15-07:30	0	0
	07:30-07:45	0	0
	07:45-08:00	0	0
	08:00-08:15	0	0
	08:15-08:30	0	0
	08:30-08:45	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.09	7.41	0.1	A	42	64
A-BCD	0.00	0.00	0.0	A	0	0
A-B					40	60
A-C					40	60
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					49	73

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	546	0.064	35	0.0	0.1	7.048	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	33	8			33				
A-C	33	8			33				
D-AB	0	0	583	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	516	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	622	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	40	10			40				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	42	10	543	0.077	42	0.1	0.1	7.199	A
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	39	10			39				
D-AB	0	0	580	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	513	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	618	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	48	12			48				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	51	13	538	0.095	51	0.1	0.1	7.410	A
A-BCD	0	0	602	0.000	0	0.0	0.0	0.000	A
A-B	48	12			48				
A-C	48	12			48				
D-AB	0	0	575	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	507	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	614	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	59	15			59				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	51	13	538	0.095	51	0.1	0.1	7.410	A
A-BCD	0	0	602	0.000	0	0.0	0.0	0.000	A
A-B	48	12			48				
A-C	48	12			48				
D-AB	0	0	575	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	507	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	614	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	59	15			59				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	42	10	543	0.077	42	0.1	0.1	7.201	A
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	39	10			39				
D-AB	0	0	580	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	513	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	618	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	48	12			48				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	546	0.064	35	0.1	0.1	7.055	A
A-BCD	0	0	606	0.000	0	0.0	0.0	0.000	A
A-B	33	8			33				
A-C	33	8			33				
D-AB	0	0	583	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	516	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	622	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	40	10			40				

2039DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	D - Berrys Lane - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
J7	Barnham Broom Road/ Berrys Lane/ Mattishall Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.54	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.54	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2039DS_Mitigation	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - Mattishall Road (E)		ONE HOUR	✓	53	100.000
B - Barnham Broom Road		ONE HOUR	✓	38	100.000
C - Mattishall Road (W)		ONE HOUR	✓	14	100.000
D - Berrys Lane		ONE HOUR	✓	0	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	19	34	0
	B - Barnham Broom Road	38	0	0	0
	C - Mattishall Road (W)	14	0	0	0
	D - Berrys Lane	0	0	0	0

Proportions

		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	0.00	0.35	0.85
	B - Barnham Broom Road	1.00	0.00	0.00
	C - Mattishall Road (W)	1.00	0.00	0.00
	D - Berrys Lane	0.25	0.25	0.25

Vehicle Mix

Heavy Vehicle Percentages

From		To			
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)	D - Berrys Lane
From	A - Mattishall Road (E)	0	0	0	0
	B - Barnham Broom Road	0	0	0	0
	C - Mattishall Road (W)	1	0	0	0
	D - Berrys Lane	0	0	0	0

Average PCU Per Veh

From		To		
		A - Mattishall Road (E)	B - Barnham Broom Road	C - Mattishall Road (W)
From	A - Mattishall Road (E)	1.000	1.004	1.003
	B - Barnham Broom Road	1.002	1.000	1.000
	C - Mattishall Road (W)	1.009	1.000	1.000
	D - Berrys Lane	1.000	1.000	1.000

Detailed Demand Data

Demand for each time segment

Arm	Time Segment	Demand (Veh/hr)	Demand in PCU (PCU/hr)
A - Mattishall Road (E)	16:45-17:00	40	40
	17:00-17:15	47	48
	17:15-17:30	58	58
	17:30-17:45	58	58
	17:45-18:00	47	48
	18:00-18:15	40	40
B - Barnham Broom Road	16:45-17:00	28	28
	17:00-17:15	34	34
	17:15-17:30	41	41
	17:30-17:45	41	41
	17:45-18:00	34	34
	18:00-18:15	28	28
C - Mattishall Road (W)	16:45-17:00	11	11
	17:00-17:15	13	13
	17:15-17:30	16	16
	17:30-17:45	16	16
	17:45-18:00	13	13
	18:00-18:15	11	11
D - Berrys Lane	16:45-17:00	0	0
	17:00-17:15	0	0
	17:15-17:30	0	0
	17:30-17:45	0	0
	17:45-18:00	0	0
	18:00-18:15	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.08	7.09	0.1	A	35	52
A-BCD	0.00	0.00	0.0	A	0	0
A-B					17	28
A-C					31	47
D-AB	0.00	0.00	0.0	A	0	0
D-BC	0.00	0.00	0.0	A	0	0
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					13	20

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	28	7	555	0.051	28	0.0	0.1	6.848	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	14	4			14				
A-C	26	6			26				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	527	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	628	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	34	8	553	0.061	34	0.1	0.1	6.951	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	17	4			17				
A-C	31	8			31				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	525	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	626	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	41	10	550	0.075	41	0.1	0.1	7.091	A
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	21	5			21				
A-C	38	9			38				
D-AB	0	0	590	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	522	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	623	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	16	4			16				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	41	10	550	0.075	41	0.1	0.1	7.091	A
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	21	5			21				
A-C	38	9			38				
D-AB	0	0	590	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	522	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	623	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	16	4			16				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	34	8	553	0.061	34	0.1	0.1	6.953	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	17	4			17				
A-C	31	8			31				
D-AB	0	0	592	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	525	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	626	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	28	7	555	0.051	28	0.1	0.1	6.857	A
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	14	4			14				
A-C	26	6			26				
D-AB	0	0	593	0.000	0	0.0	0.0	0.000	A
D-BC	0	0	527	0.000	0	0.0	0.0	0.000	A
C-ABD	0	0	628	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	11	3			11				

