Norwich Western Link

Transport Assessment - Appendix 11 – Junction Model Results

Sub Appendix 11v – Junction 29 Taverham Road / The Street / Mill Lane staggered crossroads

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Contents

Figures

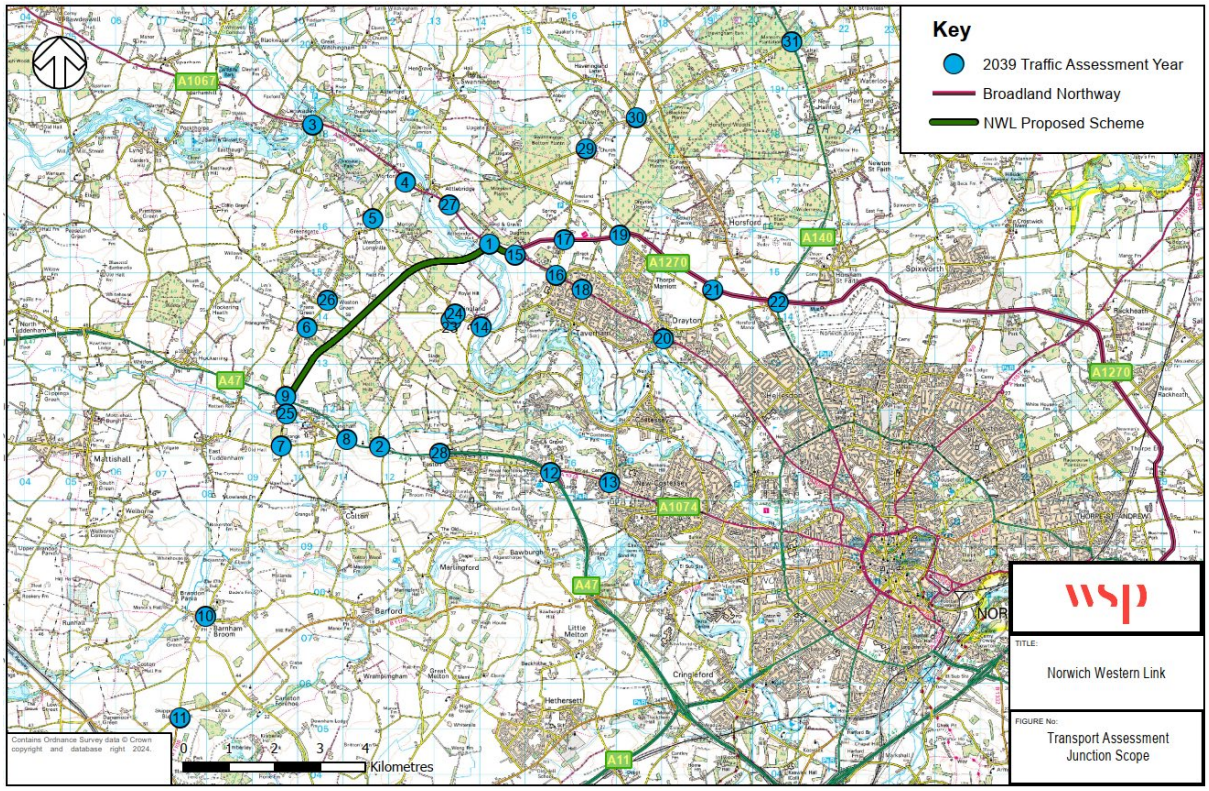
1 Junction Model Results

1.1.1 Junctions 10 modelling software output file that shows the junction capacity results for Junction 29 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).

J29 – Taverham Road / The Street / Mill Lane staggered crossroads Results

Junctions 10

PICADY 10 - Priority Intersection Module

Filename: J29.j10
Path: \\corp.pbwan.net\IN\IN_Projects\70118686-70061370-Norwich Western Link 2019 20\04 Record of Issue\4A Internal WSP Doc Registers\20240129_Model Reports(wo 2044)\J29
Report generation date: 29/01/2024 15:01:13

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	0.3	9.61	0.23	A	D2	0.5	10.97	0.34	B
Stream A-BCD		0.0	5.83	0.01	A		0.0	5.28	0.00	A
Stream D-ABC		0.1	8.22	0.05	A		0.0	8.15	0.03	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2029DS									
Stream B-ACD	D3	0.9	14.53	0.47	B	D4	4.4	40.40	0.83	E
Stream A-BCD		0.0	5.04	0.01	A		0.0	4.87	0.00	A
Stream D-ABC		0.1	8.72	0.05	A		0.0	8.24	0.03	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2029DS_Mitigation									
Stream B-ACD	D5	0.2	8.87	0.19	A	D6	0.9	13.49	0.49	B
Stream A-BCD		0.0	5.86	0.01	A		0.0	5.21	0.00	A
Stream D-ABC		0.1	8.14	0.05	A		0.0	7.82	0.03	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2039DM									
Stream B-ACD	D7	0.4	11.22	0.30	B	D8	0.6	11.91	0.39	B
Stream A-BCD		0.0	4.94	0.01	A		0.0	5.19	0.00	A
Stream D-ABC		0.1	8.84	0.05	A		0.0	8.26	0.03	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2039DS									
Stream B-ACD	D9	1.2	17.24	0.54	C	D10	7.3	62.72	0.91	F
Stream A-BCD		0.0	4.60	0.01	A		0.0	4.77	0.00	A
Stream D-ABC		0.1	9.16	0.06	A		0.0	8.37	0.03	A
Stream C-ABD		0.0	0.00	0.00	A		0.0	0.00	0.00	A
	2039DS_Mitigation									
Stream B-ACD	D11	0.3	9.74	0.23	A	D12	1.1	14.82	0.53	B
Stream A-BCD		0.0	4.94	0.01	A		0.0	5.18	0.00	A
Stream D-ABC		0.1	8.75	0.05	A		0.0	7.87	0.03	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.

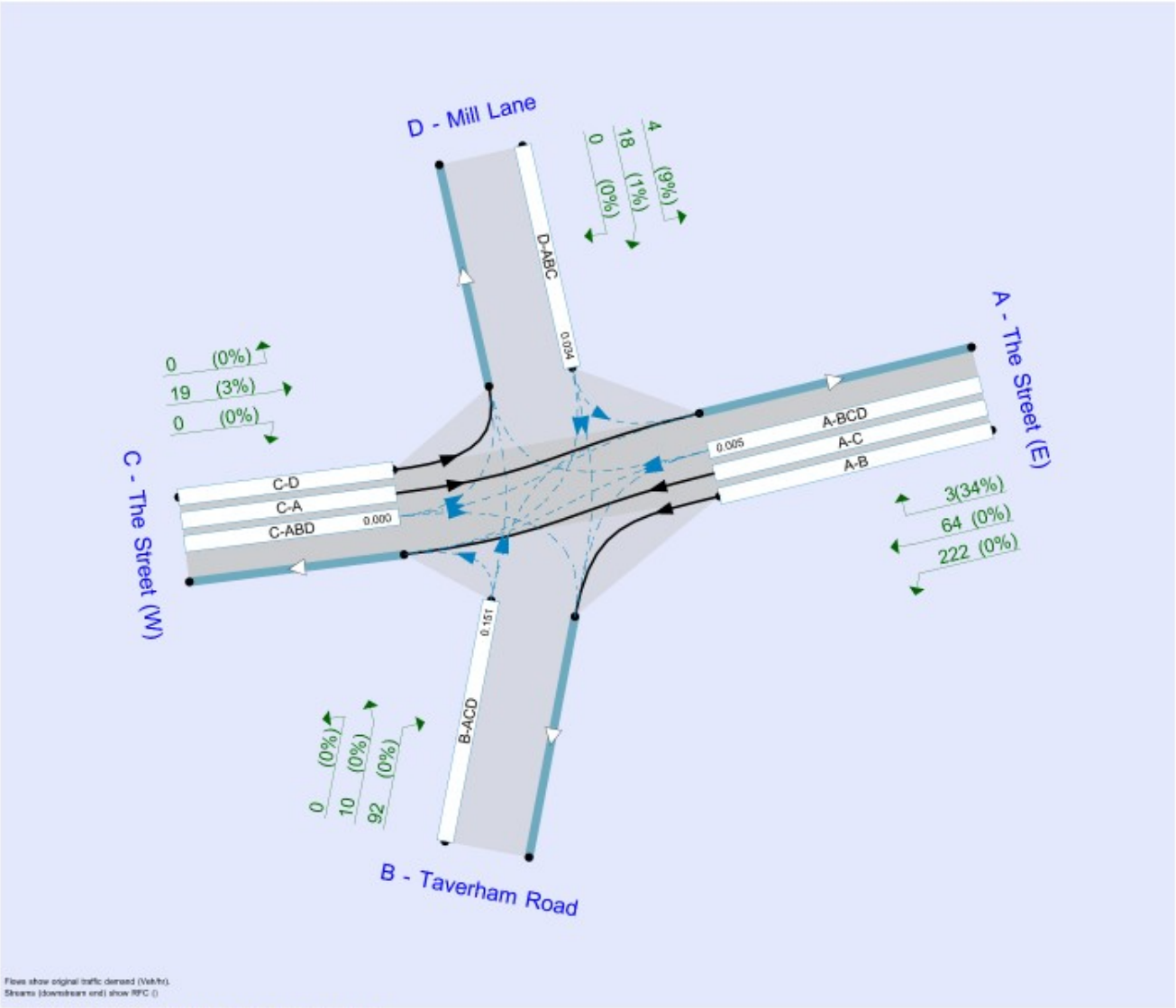
File summary

File Description

Title	Mill Lane/ The Street/ Taverham Road
Location	52.713854, 1.201567
Site number	29
Date	22/03/2023
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CORP\INJV01568
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



The junction diagram reflects the last run of Junctions.

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	36.00	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	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.74	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.74	A

Arms

Arms

Arm	Name	Description	Arm type
A	The Street (E)		Major
B	Taverham Road		Minor
C	The Street (W)		Major
D	Mill 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 - The Street (E)	4.75			78.9	✓	0.00
C - The Street (W)	4.75			86.8	✓	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)	Visibility to left (m)	Visibility to right (m)
B - Taverham Road	One lane	3.94	22	20
D - Mill Lane	One lane	3.28	16	14

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	620	-	-	-	-	-	-	0.253	0.362	0.253	-	-	-
B-A	541	0.104	0.263	0.263	-	-	-	0.165	0.375	-	0.263	0.263	0.131
B-C	696	0.113	0.285	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	541	0.104	0.263	0.263	-	-	-	0.165	0.375	0.165	-	-	-
B-D, offside lane	541	0.104	0.263	0.263	-	-	-	0.165	0.375	0.165	-	-	-
C-B	624	0.255	0.255	0.364	-	-	-	-	-	-	-	-	-
D-A	650	-	-	-	-	-	-	0.266	-	0.105	-	-	-
D-B, nearside lane	503	0.154	0.154	0.349	-	-	-	0.244	0.244	0.097	-	-	-
D-B, offside lane	503	0.154	0.154	0.349	-	-	-	0.244	0.244	0.097	-	-	-
D-C	503	-	0.154	0.349	0.122	0.244	0.244	0.244	0.244	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 - The Street (E)		ONE HOUR	✓	289	100.000
B - Taverham Road		ONE HOUR	✓	101	100.000
C - The Street (W)		ONE HOUR	✓	19	100.000
D - Mill Lane		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	222	64	3
	B - Taverham Road	92	0	0	10
	C - The Street (W)	19	0	0	0.18
	D - Mill Lane	4	18	0.48	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.77	0.22	0.01
	B - Taverham Road	0.90	0.00	0.00	0.10
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.16	0.81	0.02	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	0	0	34
	B - Taverham Road	0	0	0	0
	C - The Street (W)	3	0	0	0
	D - Mill Lane	9	1	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.002	1.000	1.338
	B - Taverham Road	1.001	1.000	1.000	1.005
	C - The Street (W)	1.033	1.000	1.000	1.000
	D - Mill Lane	1.092	1.013	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - The Street (E)	217	218
	B - Taverham Road	76	76
	C - The Street (W)	15	15
	D - Mill Lane	16	17
07:30-07:45	A - The Street (E)	260	261
	B - Taverham Road	91	91
	C - The Street (W)	18	18
	D - Mill Lane	19	20
07:45-08:00	A - The Street (E)	318	319
	B - Taverham Road	111	112
	C - The Street (W)	21	22
	D - Mill Lane	24	24
08:00-08:15	A - The Street (E)	318	319
	B - Taverham Road	111	112
	C - The Street (W)	21	22
	D - Mill Lane	24	24
08:15-08:30	A - The Street (E)	260	261
	B - Taverham Road	91	91
	C - The Street (W)	18	18
	D - Mill Lane	19	20
08:30-08:45	A - The Street (E)	217	218
	B - Taverham Road	76	76
	C - The Street (W)	15	15
	D - Mill Lane	16	17

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	0.23	9.61	0.3	A	93	139
A-BCD	0.01	5.83	0.0	A	5	8
A-B					203	304
A-C					59	88
D-ABC	0.05	8.22	0.1	A	20	30
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.17	0.25
C-A					18	27

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	76	19	504	0.151	76	0.0	0.2	8.404	A
A-BCD	4	0.96	758	0.005	4	0.0	0.0	5.831	A
A-B	166	42			166				
A-C	48	12			48				
D-ABC	17	4	490	0.034	17	0.0	0.0	7.801	A
C-ABD	0	0	568	0.000	0	0.0	0.0	0.000	A
C-D	0.14	0.03			0.14				
C-A	15	4			15				

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	91	23	497	0.183	91	0.2	0.2	8.883	A
A-BCD	5	1	785	0.006	5	0.0	0.0	5.595	A
A-B	199	50			199				
A-C	57	14			57				
D-ABC	20	5	483	0.041	20	0.0	0.0	7.974	A
C-ABD	0	0	557	0.000	0	0.0	0.0	0.000	A
C-D	0.16	0.04			0.16				
C-A	18	4			18				

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	112	28	487	0.229	111	0.2	0.3	9.590	A
A-BCD	7	2	822	0.008	7	0.0	0.0	5.268	A
A-B	243	61			243				
A-C	70	18			70				
D-ABC	24	6	474	0.051	24	0.0	0.1	8.217	A
C-ABD	0	0	542	0.000	0	0.0	0.0	0.000	A
C-D	0.20	0.05			0.20				
C-A	22	5			22				

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	112	28	487	0.229	112	0.3	0.3	9.612	A
A-BCD	7	2	822	0.008	7	0.0	0.0	5.232	A
A-B	243	61			243				
A-C	70	18			70				
D-ABC	24	6	474	0.051	24	0.1	0.1	8.219	A
C-ABD	0	0	542	0.000	0	0.0	0.0	0.000	A
C-D	0.20	0.05			0.20				
C-A	22	5			22				

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	91	23	497	0.183	91	0.3	0.2	8.902	A
A-BCD	5	1	785	0.006	5	0.0	0.0	5.508	A
A-B	199	50			199				
A-C	57	14			57				
D-ABC	20	5	483	0.041	20	0.1	0.0	7.977	A
C-ABD	0	0	557	0.000	0	0.0	0.0	0.000	A
C-D	0.16	0.04			0.16				
C-A	18	4			18				

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	76	19	504	0.151	76	0.2	0.2	8.441	A
A-BCD	4	0.97	758	0.005	4	0.0	0.0	5.787	A
A-B	166	42			166				
A-C	48	12			48				
D-ABC	17	4	490	0.034	17	0.0	0.0	7.807	A
C-ABD	0	0	568	0.000	0	0.0	0.0	0.000	A
C-D	0.14	0.03			0.14				
C-A	15	4			15				

2029DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		4.58	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.58	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 - The Street (E)		ONE HOUR	✓	156	100.000
B - Taverham Road		ONE HOUR	✓	157	100.000
C - The Street (W)		ONE HOUR	✓	73	100.000
D - Mill Lane		ONE HOUR	✓	11	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	123	32	1
	B - Taverham Road	137	0	0	20
	C - The Street (W)	73	0	0	0.21
	D - Mill Lane	2	9	0.45	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.79	0.21	0.01
	B - Taverham Road	0.87	0.00	0.00	0.13
	C - The Street (W)	1.00	0.00	0.00	0.00
	D - Mill Lane	0.18	0.78	0.04	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	0	0	0
	B - Taverham Road	0	0	0	0
	C - The Street (W)	1	0	0	0
	D - Mill Lane	0	7	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.003	1.000	1.000
	B - Taverham Road	1.000	1.000	1.000	1.001
	C - The Street (W)	1.006	1.000	1.000	1.000
	D - Mill Lane	1.000	1.089	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - The Street (E)	117	118
	B - Taverham Road	118	118
	C - The Street (W)	55	55
	D - Mill Lane	9	9
17:00-17:15	A - The Street (E)	140	141
	B - Taverham Road	141	141
	C - The Street (W)	66	66
	D - Mill Lane	10	11
17:15-17:30	A - The Street (E)	172	172
	B - Taverham Road	173	173
	C - The Street (W)	80	81
	D - Mill Lane	13	13
17:30-17:45	A - The Street (E)	172	172
	B - Taverham Road	173	173
	C - The Street (W)	80	81
	D - Mill Lane	13	13
17:45-18:00	A - The Street (E)	140	141
	B - Taverham Road	141	141
	C - The Street (W)	66	66
	D - Mill Lane	10	11
18:00-18:15	A - The Street (E)	117	118
	B - Taverham Road	118	118
	C - The Street (W)	55	55
	D - Mill Lane	9	9

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	0.34	10.97	0.5	B	144	216
A-BCD	0.00	5.28	0.0	A	1	2
A-B					113	169
A-C					30	44
D-ABC	0.03	8.15	0.0	A	11	17
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.19	0.29
C-A					67	101

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	118	30	514	0.230	117	0.0	0.3	9.054	A
A-BCD	1	0.27	683	0.002	1	0.0	0.0	5.279	A
A-B	92	23			92				
A-C	24	6			24				
D-ABC	9	2	493	0.018	9	0.0	0.0	7.835	A
C-ABD	0	0	594	0.000	0	0.0	0.0	0.000	A
C-D	0.16	0.04			0.16				
C-A	55	14			55				

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	141	35	508	0.278	141	0.3	0.4	9.789	A
A-BCD	1	0.33	696	0.002	1	0.0	0.0	5.186	A
A-B	110	28			110				
A-C	29	7			29				
D-ABC	11	3	487	0.022	11	0.0	0.0	7.963	A
C-ABD	0	0	588	0.000	0	0.0	0.0	0.000	A
C-D	0.19	0.05			0.19				
C-A	66	16			66				

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	173	43	501	0.345	172	0.4	0.5	10.937	B
A-BCD	2	0.43	713	0.002	2	0.0	0.0	5.062	A
A-B	135	34			135				
A-C	35	9			35				
D-ABC	13	3	479	0.028	13	0.0	0.0	8.145	A
C-ABD	0	0	580	0.000	0	0.0	0.0	0.000	A
C-D	0.23	0.06			0.23				
C-A	81	20			81				

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	173	43	501	0.345	173	0.5	0.5	10.971	B
A-BCD	2	0.43	713	0.002	2	0.0	0.0	5.064	A
A-B	135	34			135				
A-C	35	9			35				
D-ABC	13	3	479	0.028	13	0.0	0.0	8.145	A
C-ABD	0	0	580	0.000	0	0.0	0.0	0.000	A
C-D	0.23	0.06			0.23				
C-A	81	20			81				

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	141	35	508	0.278	142	0.5	0.4	9.837	A
A-BCD	1	0.33	696	0.002	1	0.0	0.0	5.186	A
A-B	110	28			110				
A-C	29	7			29				
D-ABC	11	3	487	0.022	11	0.0	0.0	7.964	A
C-ABD	0	0	588	0.000	0	0.0	0.0	0.000	A
C-D	0.19	0.05			0.19				
C-A	66	16			66				

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	118	30	514	0.230	118	0.4	0.3	9.124	A
A-BCD	1	0.27	683	0.002	1	0.0	0.0	5.281	A
A-B	92	23			92				
A-C	24	6			24				
D-ABC	9	2	493	0.018	9	0.0	0.0	7.839	A
C-ABD	0	0	594	0.000	0	0.0	0.0	0.000	A
C-D	0.16	0.04			0.16				
C-A	55	14			55				

2029DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		4.52	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.52	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 - The Street (E)		ONE HOUR	✓	463	100.000
B - Taverham Road		ONE HOUR	✓	202	100.000
C - The Street (W)		ONE HOUR	✓	12	100.000
D - Mill Lane		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	431	30	3
	B - Taverham Road	193	0	0	10
	C - The Street (W)	12	0	0	0.09
	D - Mill Lane	4	18	0.17	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.93	0.06	0.01
	B - Taverham Road	0.95	0.00	0.00	0.05
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.16	0.83	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	1	0	34
	B - Taverham Road	1	0	0	0
	C - The Street (W)	6	0	0	0
	D - Mill Lane	9	1	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.005	1.000	1.340
	B - Taverham Road	1.007	1.000	1.000	1.005
	C - The Street (W)	1.059	1.000	1.000	1.000
	D - Mill Lane	1.092	1.013	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - The Street (E)	349	351
	B - Taverham Road	152	153
	C - The Street (W)	9	9
	D - Mill Lane	16	17
07:30-07:45	A - The Street (E)	417	419
	B - Taverham Road	182	183
	C - The Street (W)	11	11
	D - Mill Lane	19	20
07:45-08:00	A - The Street (E)	510	514
	B - Taverham Road	223	224
	C - The Street (W)	13	14
	D - Mill Lane	24	24
08:00-08:15	A - The Street (E)	510	514
	B - Taverham Road	223	224
	C - The Street (W)	13	14
	D - Mill Lane	24	24
08:15-08:30	A - The Street (E)	417	419
	B - Taverham Road	182	183
	C - The Street (W)	11	11
	D - Mill Lane	19	20
08:30-08:45	A - The Street (E)	349	351
	B - Taverham Road	152	153
	C - The Street (W)	9	9
	D - Mill Lane	16	17

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	0.47	14.53	0.9	B	187	280
A-BCD	0.01	5.04	0.0	A	7	10
A-B					395	592
A-C					27	40
D-ABC	0.05	8.72	0.1	A	20	30
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.08	0.12
C-A					11	17

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	153	38	495	0.310	152	0.0	0.4	10.502	B
A-BCD	5	1	846	0.006	5	0.0	0.0	5.038	A
A-B	324	81			324				
A-C	22	6			22				
D-ABC	17	4	472	0.035	17	0.0	0.0	8.099	A
C-ABD	0	0	534	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.02			0.06				
C-A	9	2			9				

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	183	46	486	0.377	182	0.4	0.6	11.916	B
A-BCD	6	2	890	0.007	6	0.0	0.0	4.751	A
A-B	387	97			387				
A-C	26	7			26				
D-ABC	20	5	462	0.043	20	0.0	0.0	8.350	A
C-ABD	0	0	517	0.000	0	0.0	0.0	0.000	A
C-D	0.08	0.02			0.08				
C-A	11	3			11				

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	224	56	474	0.473	223	0.6	0.9	14.400	B
A-BCD	9	2	951	0.009	9	0.0	0.0	4.374	A
A-B	473	118			473				
A-C	32	8			32				
D-ABC	24	6	448	0.054	24	0.0	0.1	8.717	A
C-ABD	0	0	493	0.000	0	0.0	0.0	0.000	A
C-D	0.09	0.02			0.09				
C-A	14	3			14				

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	224	56	473	0.473	224	0.9	0.9	14.525	B
A-BCD	9	2	951	0.009	9	0.0	0.0	4.340	A
A-B	473	118			473				
A-C	32	8			32				
D-ABC	24	6	448	0.054	24	0.1	0.1	8.719	A
C-ABD	0	0	493	0.000	0	0.0	0.0	0.000	A
C-D	0.09	0.02			0.09				
C-A	14	3			14				

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	183	46	486	0.377	184	0.9	0.6	12.054	B
A-BCD	6	2	890	0.007	6	0.0	0.0	4.663	A
A-B	387	97			387				
A-C	26	7			26				
D-ABC	20	5	462	0.043	20	0.1	0.0	8.352	A
C-ABD	0	0	517	0.000	0	0.0	0.0	0.000	A
C-D	0.08	0.02			0.08				
C-A	11	3			11				

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	153	38	495	0.310	154	0.6	0.5	10.652	B
A-BCD	5	1	846	0.006	5	0.0	0.0	4.991	A
A-B	324	81			324				
A-C	22	6			22				
D-ABC	17	4	472	0.035	17	0.0	0.0	8.105	A
C-ABD	0	0	534	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.02			0.06				
C-A	9	2			9				

2029DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		22.43	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	22.43	C

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	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 - The Street (E)		ONE HOUR	✓	260	100.000
B - Taverham Road		ONE HOUR	✓	375	100.000
C - The Street (W)		ONE HOUR	✓	30	100.000
D - Mill Lane		ONE HOUR	✓	11	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	248	11	1
	B - Taverham Road	354	0	0	20
	C - The Street (W)	30	0	0	0.05
	D - Mill Lane	2	9	0.12	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.95	0.04	0.00
	B - Taverham Road	0.95	0.00	0.00	0.05
	C - The Street (W)	1.00	0.00	0.00	0.00
	D - Mill Lane	0.18	0.81	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	2	0	0
	B - Taverham Road	1	0	0	0
	C - The Street (W)	0	0	0	0
	D - Mill Lane	0	7	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.017	1.000	1.000
	B - Taverham Road	1.006	1.000	1.000	1.001
	C - The Street (W)	1.002	1.000	1.000	1.002
	D - Mill Lane	1.000	1.066	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - The Street (E)	196	199
	B - Taverham Road	282	284
	C - The Street (W)	22	22
	D - Mill Lane	9	9
17:00-17:15	A - The Street (E)	234	238
	B - Taverham Road	337	339
	C - The Street (W)	27	27
	D - Mill Lane	10	11
17:15-17:30	A - The Street (E)	287	291
	B - Taverham Road	413	415
	C - The Street (W)	33	33
	D - Mill Lane	13	13
17:30-17:45	A - The Street (E)	287	291
	B - Taverham Road	413	415
	C - The Street (W)	33	33
	D - Mill Lane	13	13
17:45-18:00	A - The Street (E)	234	238
	B - Taverham Road	337	339
	C - The Street (W)	27	27
	D - Mill Lane	10	11
18:00-18:15	A - The Street (E)	196	199
	B - Taverham Road	282	284
	C - The Street (W)	22	22
	D - Mill Lane	9	9

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	0.83	40.40	4.4	E	346	519
A-BCD	0.00	4.87	0.0	A	2	2
A-B					231	346
A-C					10	16
D-ABC	0.03	8.24	0.0	A	11	17
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.05	0.07
C-A					27	41

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	284	71	513	0.553	279	0.0	1.2	15.178	C
A-BCD	1	0.31	745	0.002	1	0.0	0.0	4.862	A
A-B	190	47			190				
A-C	9	2			9				
D-ABC	9	2	489	0.019	9	0.0	0.0	7.895	A
C-ABD	0	0	573	0.000	0	0.0	0.0	0.000	A
C-D	0.04	0.01			0.04				
C-A	22	6			22				

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	339	85	507	0.668	336	1.2	1.9	20.749	C
A-BCD	2	0.39	769	0.002	2	0.0	0.0	4.711	A
A-B	226	57			226				
A-C	10	3			10				
D-ABC	11	3	483	0.023	11	0.0	0.0	8.036	A
C-ABD	0	0	563	0.000	0	0.0	0.0	0.000	A
C-D	0.05	0.01			0.05				
C-A	27	7			27				

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	415	104	500	0.830	406	1.9	4.0	35.689	E
A-BCD	2	0.52	803	0.003	2	0.0	0.0	4.519	A
A-B	277	69			277				
A-C	12	3			12				
D-ABC	13	3	474	0.028	13	0.0	0.0	8.238	A
C-ABD	0	0	550	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.01			0.06				
C-A	33	8			33				

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	415	104	500	0.830	413	4.0	4.4	40.397	E
A-BCD	2	0.52	803	0.003	2	0.0	0.0	4.523	A
A-B	277	69			277				
A-C	12	3			12				
D-ABC	13	3	474	0.028	13	0.0	0.0	8.239	A
C-ABD	0	0	550	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.01			0.06				
C-A	33	8			33				

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	339	85	507	0.668	348	4.4	2.2	23.751	C
A-BCD	2	0.39	769	0.002	2	0.0	0.0	4.717	A
A-B	226	57			226				
A-C	10	3			10				
D-ABC	11	3	483	0.023	11	0.0	0.0	8.038	A
C-ABD	0	0	563	0.000	0	0.0	0.0	0.000	A
C-D	0.05	0.01			0.05				
C-A	27	7			27				

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	284	71	513	0.553	287	2.2	1.3	16.270	C
A-BCD	1	0.31	745	0.002	1	0.0	0.0	4.866	A
A-B	190	47			190				
A-C	9	2			9				
D-ABC	9	2	489	0.019	9	0.0	0.0	7.898	A
C-ABD	0	0	573	0.000	0	0.0	0.0	0.000	A
C-D	0.04	0.01			0.04				
C-A	22	6			22				

2029DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.46	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 - The Street (E)		ONE HOUR	✓	285	100.000
B - Taverham Road		ONE HOUR	✓	86	100.000
C - The Street (W)		ONE HOUR	✓	0.49	100.000
D - Mill Lane		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	280	3	3
	B - Taverham Road	76	0	0	10
	C - The Street (W)	0.41	0	0	0.09
	D - Mill Lane	3	18	0.17	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.98	0.01	0.01
	B - Taverham Road	0.89	0.00	0.00	0.11
	C - The Street (W)	0.83	0.00	0.00	0.17
	D - Mill Lane	0.16	0.83	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	1	0	35
	B - Taverham Road	0	0	0	0
	C - The Street (W)	0	0	0	0
	D - Mill Lane	10	1	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.010	1.000	1.348
	B - Taverham Road	1.001	1.000	1.000	1.005
	C - The Street (W)	1.000	1.000	1.000	1.000
	D - Mill Lane	1.095	1.013	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - The Street (E)	215	217
	B - Taverham Road	65	65
	C - The Street (W)	0	0
	D - Mill Lane	16	17
07:30-07:45	A - The Street (E)	256	260
	B - Taverham Road	78	78
	C - The Street (W)	0	0
	D - Mill Lane	19	20
07:45-08:00	A - The Street (E)	314	318
	B - Taverham Road	95	95
	C - The Street (W)	0	0
	D - Mill Lane	24	24
08:00-08:15	A - The Street (E)	314	318
	B - Taverham Road	95	95
	C - The Street (W)	0	0
	D - Mill Lane	24	24
08:15-08:30	A - The Street (E)	256	260
	B - Taverham Road	78	78
	C - The Street (W)	0	0
	D - Mill Lane	19	20
08:30-08:45	A - The Street (E)	215	217
	B - Taverham Road	65	65
	C - The Street (W)	0	0
	D - Mill Lane	16	17

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	0.19	8.87	0.2	A	79	119
A-BCD	0.01	5.86	0.0	A	5	7
A-B					258	387
A-C					2	3
D-ABC	0.05	8.14	0.1	A	20	30
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					0	0

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	65	16	514	0.127	64	0.0	0.1	8.010	A
A-BCD	4	0.94	760	0.005	4	0.0	0.0	5.858	A
A-B	212	53			212				
A-C	2	0.47			2				
D-ABC	17	4	493	0.034	17	0.0	0.0	7.754	A
C-ABD	0	0	568	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	78	19	509	0.153	77	0.1	0.2	8.358	A
A-BCD	5	1	788	0.006	5	0.0	0.0	5.618	A
A-B	253	63			253				
A-C	2	0.56			2				
D-ABC	20	5	486	0.041	20	0.0	0.0	7.912	A
C-ABD	0	0	558	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	95	24	501	0.190	95	0.2	0.2	8.864	A
A-BCD	6	2	826	0.008	6	0.0	0.0	5.288	A
A-B	309	77			309				
A-C	3	0.69			3				
D-ABC	24	6	478	0.051	24	0.0	0.1	8.134	A
C-ABD	0	0	543	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	95	24	501	0.190	95	0.2	0.2	8.873	A
A-BCD	6	2	826	0.008	6	0.0	0.0	5.253	A
A-B	309	77			309				
A-C	3	0.69			3				
D-ABC	24	6	478	0.051	24	0.1	0.1	8.136	A
C-ABD	0	0	543	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	78	19	509	0.153	78	0.2	0.2	8.372	A
A-BCD	5	1	788	0.006	5	0.0	0.0	5.534	A
A-B	253	63			253				
A-C	2	0.56			2				
D-ABC	20	5	486	0.041	20	0.1	0.0	7.914	A
C-ABD	0	0	558	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	65	16	514	0.127	65	0.2	0.1	8.037	A
A-BCD	4	0.94	760	0.005	4	0.0	0.0	5.814	A
A-B	212	53			212				
A-C	2	0.47			2				
D-ABC	17	4	492	0.034	17	0.0	0.0	7.761	A
C-ABD	0	0	568	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

2029DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		8.22	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.22	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 - The Street (E)		ONE HOUR	✓	147	100.000
B - Taverham Road		ONE HOUR	✓	230	100.000
C - The Street (W)		ONE HOUR	✓	4	100.000
D - Mill Lane		ONE HOUR	✓	11	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	144	1	1
	B - Taverham Road	209	0	0	20
	C - The Street (W)	4	0	0	0.05
	D - Mill Lane	2	9	0.11	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.98	0.01	0.01
	B - Taverham Road	0.91	0.00	0.00	0.09
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.17	0.82	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	1	0	0
	B - Taverham Road	0	0	0	0
	C - The Street (W)	0	0	0	0
	D - Mill Lane	0	7	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.006	1.000	1.000
	B - Taverham Road	1.002	1.000	1.000	1.001
	C - The Street (W)	1.000	1.000	1.000	1.000
	D - Mill Lane	1.000	1.066	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - The Street (E)	111	111
	B - Taverham Road	173	173
	C - The Street (W)	0	0
	D - Mill Lane	9	9
17:00-17:15	A - The Street (E)	132	133
	B - Taverham Road	207	207
	C - The Street (W)	0	0
	D - Mill Lane	10	11
17:15-17:30	A - The Street (E)	162	163
	B - Taverham Road	253	253
	C - The Street (W)	0	0
	D - Mill Lane	13	13
17:30-17:45	A - The Street (E)	162	163
	B - Taverham Road	253	253
	C - The Street (W)	0	0
	D - Mill Lane	13	13
17:45-18:00	A - The Street (E)	132	133
	B - Taverham Road	207	207
	C - The Street (W)	0	0
	D - Mill Lane	10	11
18:00-18:15	A - The Street (E)	111	111
	B - Taverham Road	173	173
	C - The Street (W)	0	0
	D - Mill Lane	9	9

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	0.49	13.49	0.9	B	211	317
A-BCD	0.00	5.21	0.0	A	1	2
A-B					133	200
A-C					1	2
D-ABC	0.03	7.82	0.0	A	11	16
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					0	0

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	173	43	527	0.329	171	0.0	0.5	10.082	B
A-BCD	1	0.25	692	0.001	1	0.0	0.0	5.214	A
A-B	109	27			109				
A-C	1	0.26			1				
D-ABC	9	2	506	0.018	9	0.0	0.0	7.635	A
C-ABD	0	0	596	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	207	52	524	0.395	206	0.5	0.6	11.311	B
A-BCD	1	0.31	706	0.002	1	0.0	0.0	5.112	A
A-B	130	33			130				
A-C	1	0.31			1				
D-ABC	11	3	503	0.021	11	0.0	0.0	7.711	A
C-ABD	0	0	590	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	253	63	521	0.487	252	0.6	0.9	13.377	B
A-BCD	2	0.40	726	0.002	2	0.0	0.0	4.978	A
A-B	160	40			160				
A-C	2	0.38			2				
D-ABC	13	3	499	0.026	13	0.0	0.0	7.817	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	253	63	521	0.487	253	0.9	0.9	13.485	B
A-BCD	2	0.40	726	0.002	2	0.0	0.0	4.979	A
A-B	160	40			160				
A-C	2	0.38			2				
D-ABC	13	3	499	0.026	13	0.0	0.0	7.817	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	207	52	524	0.395	208	0.9	0.7	11.438	B
A-BCD	1	0.31	706	0.002	1	0.0	0.0	5.115	A
A-B	130	33			130				
A-C	1	0.31			1				
D-ABC	11	3	503	0.021	11	0.0	0.0	7.713	A
C-ABD	0	0	590	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	173	43	527	0.329	174	0.7	0.5	10.232	B
A-BCD	1	0.25	692	0.001	1	0.0	0.0	5.214	A
A-B	109	27			109				
A-C	1	0.26			1				
D-ABC	9	2	506	0.018	9	0.0	0.0	7.639	A
C-ABD	0	0	596	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

2039DM, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		2.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.53	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 - The Street (E)		ONE HOUR	✓	481	100.000
B - Taverham Road		ONE HOUR	✓	127	100.000
C - The Street (W)		ONE HOUR	✓	21	100.000
D - Mill Lane		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	394	85	3
	B - Taverham Road	115	0	0	12
	C - The Street (W)	21	0	0	0.20
	D - Mill Lane	3	17	0.65	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.82	0.18	0.01
	B - Taverham Road	0.91	0.00	0.00	0.09
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.15	0.82	0.03	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	0	0	33
	B - Taverham Road	0	0	0	0
	C - The Street (W)	1	0	0	0
	D - Mill Lane	9	1	7	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.002	1.000	1.326
	B - Taverham Road	1.001	1.000	1.000	1.003
	C - The Street (W)	1.011	1.000	1.000	1.000
	D - Mill Lane	1.094	1.013	1.071	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - The Street (E)	362	364
	B - Taverham Road	96	96
	C - The Street (W)	16	16
	D - Mill Lane	16	16
07:30-07:45	A - The Street (E)	433	434
	B - Taverham Road	114	114
	C - The Street (W)	19	19
	D - Mill Lane	19	19
07:45-08:00	A - The Street (E)	530	532
	B - Taverham Road	140	140
	C - The Street (W)	23	23
	D - Mill Lane	23	24
08:00-08:15	A - The Street (E)	530	532
	B - Taverham Road	140	140
	C - The Street (W)	23	23
	D - Mill Lane	23	24
08:15-08:30	A - The Street (E)	433	434
	B - Taverham Road	114	114
	C - The Street (W)	19	19
	D - Mill Lane	19	19
08:30-08:45	A - The Street (E)	362	364
	B - Taverham Road	96	96
	C - The Street (W)	16	16
	D - Mill Lane	16	16

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	0.30	11.22	0.4	B	117	175
A-BCD	0.01	4.94	0.0	A	6	9
A-B					359	539
A-C					78	116
D-ABC	0.05	8.84	0.1	A	20	30
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.18	0.27
C-A					19	29

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	96	24	486	0.197	95	0.0	0.2	9.180	A
A-BCD	4	1	853	0.005	4	0.0	0.0	4.944	A
A-B	295	74			295				
A-C	64	16			64				
D-ABC	16	4	468	0.035	16	0.0	0.0	8.180	A
C-ABD	0	0	531	0.000	0	0.0	0.0	0.000	A
C-D	0.15	0.04			0.15				
C-A	16	4			16				

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	114	29	476	0.240	114	0.2	0.3	9.954	A
A-BCD	6	1	899	0.007	6	0.0	0.0	4.657	A
A-B	352	88			352				
A-C	76	19			76				
D-ABC	19	5	457	0.042	19	0.0	0.0	8.445	A
C-ABD	0	0	513	0.000	0	0.0	0.0	0.000	A
C-D	0.18	0.04			0.18				
C-A	19	5			19				

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	140	35	461	0.304	139	0.3	0.4	11.191	B
A-BCD	8	2	962	0.009	8	0.0	0.0	4.282	A
A-B	431	108			431				
A-C	93	23			93				
D-ABC	24	6	442	0.054	24	0.0	0.1	8.834	A
C-ABD	0	0	488	0.000	0	0.0	0.0	0.000	A
C-D	0.22	0.05			0.22				
C-A	23	6			23				

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	140	35	461	0.304	140	0.4	0.4	11.224	B
A-BCD	8	2	962	0.009	8	0.0	0.0	4.248	A
A-B	431	108			431				
A-C	93	23			93				
D-ABC	24	6	442	0.054	24	0.1	0.1	8.835	A
C-ABD	0	0	488	0.000	0	0.0	0.0	0.000	A
C-D	0.22	0.05			0.22				
C-A	23	6			23				

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	114	29	476	0.240	115	0.4	0.3	9.997	A
A-BCD	6	1	899	0.007	6	0.0	0.0	4.572	A
A-B	352	88			352				
A-C	76	19			76				
D-ABC	19	5	457	0.042	19	0.1	0.0	8.449	A
C-ABD	0	0	513	0.000	0	0.0	0.0	0.000	A
C-D	0.18	0.04			0.18				
C-A	19	5			19				

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	96	24	486	0.197	96	0.3	0.2	9.239	A
A-BCD	4	1	853	0.005	4	0.0	0.0	4.897	A
A-B	295	74			295				
A-C	64	16			64				
D-ABC	16	4	468	0.035	16	0.0	0.0	8.188	A
C-ABD	0	0	531	0.000	0	0.0	0.0	0.000	A
C-D	0.15	0.04			0.15				
C-A	16	4			16				

2039DM, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		5.02	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.02	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	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 - The Street (E)		ONE HOUR	✓	180	100.000
B - Taverham Road		ONE HOUR	✓	178	100.000
C - The Street (W)		ONE HOUR	✓	74	100.000
D - Mill Lane		ONE HOUR	✓	12	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	148	30	1
	B - Taverham Road	158	0	0	20
	C - The Street (W)	73	0	0	0.50
	D - Mill Lane	2	10	0.54	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.83	0.17	0.01
	B - Taverham Road	0.89	0.00	0.00	0.11
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.16	0.80	0.04	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	0	0	0
	B - Taverham Road	0	0	0	0
	C - The Street (W)	1	0	0	0
	D - Mill Lane	0	5	16	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.002	1.001	1.000
	B - Taverham Road	1.000	1.000	1.000	1.001
	C - The Street (W)	1.006	1.000	1.000	1.000
	D - Mill Lane	1.000	1.054	1.160	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - The Street (E)	135	136
	B - Taverham Road	134	134
	C - The Street (W)	56	56
	D - Mill Lane	9	10
17:00-17:15	A - The Street (E)	162	162
	B - Taverham Road	160	160
	C - The Street (W)	66	67
	D - Mill Lane	11	12
17:15-17:30	A - The Street (E)	198	198
	B - Taverham Road	196	196
	C - The Street (W)	81	82
	D - Mill Lane	14	14
17:30-17:45	A - The Street (E)	198	198
	B - Taverham Road	196	196
	C - The Street (W)	81	82
	D - Mill Lane	14	14
17:45-18:00	A - The Street (E)	162	162
	B - Taverham Road	160	160
	C - The Street (W)	66	67
	D - Mill Lane	11	12
18:00-18:15	A - The Street (E)	135	136
	B - Taverham Road	134	134
	C - The Street (W)	56	56
	D - Mill Lane	9	10

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	0.39	11.91	0.6	B	163	245
A-BCD	0.00	5.19	0.0	A	1	2
A-B					136	204
A-C					28	42
D-ABC	0.03	8.26	0.0	A	12	18
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.46	0.68
C-A					68	102

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	134	33	512	0.262	133	0.0	0.3	9.463	A
A-BCD	0.99	0.25	695	0.001	0.98	0.0	0.0	5.189	A
A-B	112	28			112				
A-C	23	6			23				
D-ABC	10	2	488	0.020	10	0.0	0.0	7.911	A
C-ABD	0	0	590	0.000	0	0.0	0.0	0.000	A
C-D	0.37	0.09			0.37				
C-A	56	14			56				

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	160	40	506	0.316	160	0.3	0.5	10.380	B
A-BCD	1	0.31	710	0.002	1	0.0	0.0	5.082	A
A-B	134	33			134				
A-C	27	7			27				
D-ABC	12	3	481	0.025	12	0.0	0.0	8.054	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0.45	0.11			0.45				
C-A	66	17			66				

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	196	49	498	0.393	195	0.5	0.6	11.857	B
A-BCD	2	0.40	730	0.002	2	0.0	0.0	4.941	A
A-B	163	41			163				
A-C	33	8			33				
D-ABC	14	4	472	0.031	14	0.0	0.0	8.258	A
C-ABD	0	0	574	0.000	0	0.0	0.0	0.000	A
C-D	0.55	0.14			0.55				
C-A	81	20			81				

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	196	49	498	0.393	196	0.6	0.6	11.911	B
A-BCD	2	0.40	730	0.002	2	0.0	0.0	4.943	A
A-B	163	41			163				
A-C	33	8			33				
D-ABC	14	4	472	0.031	14	0.0	0.0	8.258	A
C-ABD	0	0	574	0.000	0	0.0	0.0	0.000	A
C-D	0.55	0.14			0.55				
C-A	81	20			81				

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	160	40	506	0.316	161	0.6	0.5	10.449	B
A-BCD	1	0.31	710	0.002	1	0.0	0.0	5.084	A
A-B	134	33			134				
A-C	27	7			27				
D-ABC	12	3	481	0.025	12	0.0	0.0	8.056	A
C-ABD	0	0	583	0.000	0	0.0	0.0	0.000	A
C-D	0.45	0.11			0.45				
C-A	66	17			66				

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	134	33	512	0.262	134	0.5	0.4	9.555	A
A-BCD	0.99	0.25	695	0.001	0.99	0.0	0.0	5.189	A
A-B	112	28			112				
A-C	23	6			23				
D-ABC	10	2	488	0.020	10	0.0	0.0	7.915	A
C-ABD	0	0	590	0.000	0	0.0	0.0	0.000	A
C-D	0.37	0.09			0.37				
C-A	56	14			56				

2039DS, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		4.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.91	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 - The Street (E)		ONE HOUR	✓	579	100.000
B - Taverham Road		ONE HOUR	✓	226	100.000
C - The Street (W)		ONE HOUR	✓	12	100.000
D - Mill Lane		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	544	33	3
	B - Taverham Road	213	0	0	12
	C - The Street (W)	12	0	0	0.09
	D - Mill Lane	3	18	0.17	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.94	0.06	0.00
	B - Taverham Road	0.95	0.00	0.00	0.05
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.15	0.84	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	1	0	33
	B - Taverham Road	1	0	0	0
	C - The Street (W)	6	0	0	0
	D - Mill Lane	9	2	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.006	1.000	1.325
	B - Taverham Road	1.007	1.000	1.000	1.004
	C - The Street (W)	1.060	1.000	1.000	1.000
	D - Mill Lane	1.093	1.015	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - The Street (E)	436	439
	B - Taverham Road	170	171
	C - The Street (W)	9	10
	D - Mill Lane	16	16
07:30-07:45	A - The Street (E)	521	524
	B - Taverham Road	203	204
	C - The Street (W)	11	11
	D - Mill Lane	19	19
07:45-08:00	A - The Street (E)	637	642
	B - Taverham Road	248	250
	C - The Street (W)	13	14
	D - Mill Lane	23	24
08:00-08:15	A - The Street (E)	637	642
	B - Taverham Road	248	250
	C - The Street (W)	13	14
	D - Mill Lane	23	24
08:15-08:30	A - The Street (E)	521	524
	B - Taverham Road	203	204
	C - The Street (W)	11	11
	D - Mill Lane	19	19
08:30-08:45	A - The Street (E)	436	439
	B - Taverham Road	170	171
	C - The Street (W)	9	10
	D - Mill Lane	16	16

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	0.54	17.24	1.2	C	208	312
A-BCD	0.01	4.60	0.0	A	7	11
A-B					498	747
A-C					30	45
D-ABC	0.06	9.16	0.1	A	20	30
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.08	0.12
C-A					12	17

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	171	43	486	0.352	169	0.0	0.5	11.365	B
A-BCD	5	1	904	0.005	5	0.0	0.0	4.600	A
A-B	410	102			410				
A-C	25	6			25				
D-ABC	16	4	458	0.035	16	0.0	0.0	8.362	A
C-ABD	0	0	512	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.02			0.06				
C-A	9	2			9				

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	204	51	475	0.430	203	0.5	0.7	13.306	B
A-BCD	7	2	959	0.007	7	0.0	0.0	4.300	A
A-B	488	122			488				
A-C	29	7			29				
D-ABC	19	5	445	0.043	19	0.0	0.0	8.679	A
C-ABD	0	0	490	0.000	0	0.0	0.0	0.000	A
C-D	0.08	0.02			0.08				
C-A	11	3			11				

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	250	62	460	0.544	248	0.7	1.2	16.992	C
A-BCD	10	2	1036	0.009	10	0.0	0.0	3.918	A
A-B	597	149			597				
A-C	36	9			36				
D-ABC	24	6	428	0.055	24	0.0	0.1	9.154	A
C-ABD	0	0	460	0.000	0	0.0	0.0	0.000	A
C-D	0.09	0.02			0.09				
C-A	14	3			14				

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	250	62	460	0.544	250	1.2	1.2	17.239	C
A-BCD	10	2	1036	0.009	10	0.0	0.0	3.888	A
A-B	597	149			597				
A-C	36	9			36				
D-ABC	24	6	428	0.055	24	0.1	0.1	9.156	A
C-ABD	0	0	460	0.000	0	0.0	0.0	0.000	A
C-D	0.09	0.02			0.09				
C-A	14	3			14				

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	204	51	475	0.430	206	1.2	0.8	13.547	B
A-BCD	7	2	959	0.007	7	0.0	0.0	4.221	A
A-B	488	122			488				
A-C	29	7			29				
D-ABC	19	5	445	0.043	19	0.1	0.0	8.683	A
C-ABD	0	0	490	0.000	0	0.0	0.0	0.000	A
C-D	0.08	0.02			0.08				
C-A	11	3			11				

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	171	43	485	0.352	172	0.8	0.6	11.583	B
A-BCD	5	1	904	0.005	5	0.0	0.0	4.554	A
A-B	410	102			410				
A-C	25	6			25				
D-ABC	16	4	458	0.035	16	0.0	0.0	8.368	A
C-ABD	0	0	512	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.02			0.06				
C-A	9	2			9				

2039DS, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		34.54	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	34.54	D

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 - The Street (E)		ONE HOUR	✓	289	100.000
B - Taverham Road		ONE HOUR	✓	405	100.000
C - The Street (W)		ONE HOUR	✓	30	100.000
D - Mill Lane		ONE HOUR	✓	12	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	278	10	1
	B - Taverham Road	385	0	0	21
	C - The Street (W)	30	0	0	0.05
	D - Mill Lane	2	10	0.11	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.96	0.03	0.00
	B - Taverham Road	0.95	0.00	0.00	0.05
	C - The Street (W)	1.00	0.00	0.00	0.00
	D - Mill Lane	0.15	0.84	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	2	0	0
	B - Taverham Road	1	0	0	0
	C - The Street (W)	0	0	0	0
	D - Mill Lane	0	6	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.017	1.000	1.000
	B - Taverham Road	1.009	1.000	1.000	1.001
	C - The Street (W)	1.000	1.000	1.000	1.000
	D - Mill Lane	1.000	1.059	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - The Street (E)	218	221
	B - Taverham Road	305	308
	C - The Street (W)	22	22
	D - Mill Lane	9	10
17:00-17:15	A - The Street (E)	260	264
	B - Taverham Road	364	367
	C - The Street (W)	27	27
	D - Mill Lane	11	12
17:15-17:30	A - The Street (E)	318	323
	B - Taverham Road	446	450
	C - The Street (W)	33	33
	D - Mill Lane	14	14
17:30-17:45	A - The Street (E)	318	323
	B - Taverham Road	446	450
	C - The Street (W)	33	33
	D - Mill Lane	14	14
17:45-18:00	A - The Street (E)	260	264
	B - Taverham Road	364	367
	C - The Street (W)	27	27
	D - Mill Lane	11	12
18:00-18:15	A - The Street (E)	218	221
	B - Taverham Road	305	308
	C - The Street (W)	22	22
	D - Mill Lane	9	10

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	0.91	62.72	7.3	F	375	562
A-BCD	0.00	4.77	0.0	A	2	2
A-B					259	389
A-C					9	13
D-ABC	0.03	8.37	0.0	A	12	18
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0.05	0.07
C-A					27	41

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	308	77	511	0.602	302	0.0	1.5	16.959	C
A-BCD	1	0.28	759	0.001	1	0.0	0.0	4.770	A
A-B	213	53			213				
A-C	7	2			7				
D-ABC	10	2	483	0.020	10	0.0	0.0	7.979	A
C-ABD	0	0	568	0.000	0	0.0	0.0	0.000	A
C-D	0.04	0.01			0.04				
C-A	22	6			22				

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	367	92	505	0.728	363	1.5	2.5	24.949	C
A-BCD	1	0.36	786	0.002	1	0.0	0.0	4.609	A
A-B	254	63			254				
A-C	9	2			9				
D-ABC	12	3	476	0.025	12	0.0	0.0	8.138	A
C-ABD	0	0	557	0.000	0	0.0	0.0	0.000	A
C-D	0.04	0.01			0.04				
C-A	27	7			27				

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	450	112	497	0.906	435	2.5	6.2	49.485	E
A-BCD	2	0.48	824	0.002	2	0.0	0.0	4.403	A
A-B	311	78			311				
A-C	11	3			11				
D-ABC	14	4	466	0.031	14	0.0	0.0	8.368	A
C-ABD	0	0	542	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.01			0.06				
C-A	33	8			33				

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	450	112	497	0.906	446	6.2	7.3	62.717	F
A-BCD	2	0.48	824	0.002	2	0.0	0.0	4.407	A
A-B	311	78			311				
A-C	11	3			11				
D-ABC	14	4	466	0.031	14	0.0	0.0	8.368	A
C-ABD	0	0	542	0.000	0	0.0	0.0	0.000	A
C-D	0.06	0.01			0.06				
C-A	33	8			33				

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	367	92	505	0.728	385	7.3	3.0	33.456	D
A-BCD	1	0.36	786	0.002	1	0.0	0.0	4.613	A
A-B	254	63			254				
A-C	9	2			9				
D-ABC	12	3	476	0.025	12	0.0	0.0	8.141	A
C-ABD	0	0	557	0.000	0	0.0	0.0	0.000	A
C-D	0.04	0.01			0.04				
C-A	27	7			27				

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	308	77	511	0.603	313	3.0	1.6	18.883	C
A-BCD	1	0.28	759	0.001	1	0.0	0.0	4.774	A
A-B	213	53			213				
A-C	7	2			7				
D-ABC	10	2	483	0.020	10	0.0	0.0	7.981	A
C-ABD	0	0	568	0.000	0	0.0	0.0	0.000	A
C-D	0.04	0.01			0.04				
C-A	22	6			22				

2039DS_Mitigation, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		1.94	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.94	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 - The Street (E)		ONE HOUR	✓	481	100.000
B - Taverham Road		ONE HOUR	✓	98	100.000
C - The Street (W)		ONE HOUR	✓	0.45	100.000
D - Mill Lane		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	474	4	3
	B - Taverham Road	85	0	0	12
	C - The Street (W)	0.36	0	0	0.09
	D - Mill Lane	3	18	0.16	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.99	0.01	0.01
	B - Taverham Road	0.88	0.00	0.00	0.12
	C - The Street (W)	0.81	0.00	0.00	0.19
	D - Mill Lane	0.15	0.84	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	1	0	33
	B - Taverham Road	0	0	0	0
	C - The Street (W)	0	0	0	0
	D - Mill Lane	9	2	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.010	1.000	1.328
	B - Taverham Road	1.004	1.000	1.000	1.004
	C - The Street (W)	1.000	1.000	1.000	1.000
	D - Mill Lane	1.095	1.015	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
07:15-07:30	A - The Street (E)	362	366
	B - Taverham Road	73	74
	C - The Street (W)	0	0
	D - Mill Lane	16	16
07:30-07:45	A - The Street (E)	432	437
	B - Taverham Road	88	88
	C - The Street (W)	0	0
	D - Mill Lane	19	19
07:45-08:00	A - The Street (E)	529	535
	B - Taverham Road	107	108
	C - The Street (W)	0	0
	D - Mill Lane	23	24
08:00-08:15	A - The Street (E)	529	535
	B - Taverham Road	107	108
	C - The Street (W)	0	0
	D - Mill Lane	23	24
08:15-08:30	A - The Street (E)	432	437
	B - Taverham Road	88	88
	C - The Street (W)	0	0
	D - Mill Lane	19	19
08:30-08:45	A - The Street (E)	362	366
	B - Taverham Road	73	74
	C - The Street (W)	0	0
	D - Mill Lane	16	16

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	0.23	9.74	0.3	A	90	135
A-BCD	0.01	4.94	0.0	A	6	9
A-B					437	655
A-C					3	5
D-ABC	0.05	8.75	0.1	A	20	30
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					0	0

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	74	18	498	0.148	73	0.0	0.2	8.480	A
A-BCD	4	1	858	0.005	4	0.0	0.0	4.940	A
A-B	359	90			359				
A-C	3	0.67			3				
D-ABC	16	4	471	0.034	16	0.0	0.0	8.133	A
C-ABD	0	0	531	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	88	22	490	0.180	88	0.2	0.2	8.978	A
A-BCD	6	1	904	0.006	6	0.0	0.0	4.652	A
A-B	428	107			428				
A-C	3	0.80			3				
D-ABC	19	5	460	0.042	19	0.0	0.0	8.385	A
C-ABD	0	0	512	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	108	27	479	0.225	108	0.2	0.3	9.720	A
A-BCD	8	2	968	0.009	8	0.0	0.0	4.277	A
A-B	523	131			523				
A-C	4	0.97			4				
D-ABC	24	6	446	0.053	24	0.0	0.1	8.751	A
C-ABD	0	0	487	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	108	27	479	0.225	108	0.3	0.3	9.742	A
A-BCD	8	2	968	0.009	8	0.0	0.0	4.244	A
A-B	523	131			523				
A-C	4	0.97			4				
D-ABC	24	6	446	0.053	24	0.1	0.1	8.753	A
C-ABD	0	0	487	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	88	22	490	0.180	88	0.3	0.2	9.000	A
A-BCD	6	1	904	0.006	6	0.0	0.0	4.569	A
A-B	428	107			428				
A-C	3	0.80			3				
D-ABC	19	5	460	0.042	19	0.1	0.0	8.388	A
C-ABD	0	0	512	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	74	18	498	0.148	74	0.2	0.2	8.517	A
A-BCD	4	1	858	0.005	4	0.0	0.0	4.894	A
A-B	359	90			359				
A-C	3	0.67			3				
D-ABC	16	4	471	0.034	16	0.0	0.0	8.141	A
C-ABD	0	0	531	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

2039DS_Mitigation, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	A - The Street (E) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Major arm width	C - The Street (W) - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

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
J29	Mill Lane/ The Street/ Taverham Road	Crossroads	Two-way	Two-way	Two-way	Two-way		8.97	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.97	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 - The Street (E)		ONE HOUR	✓	158	100.000
B - Taverham Road		ONE HOUR	✓	248	100.000
C - The Street (W)		ONE HOUR	✓	4	100.000
D - Mill Lane		ONE HOUR	✓	12	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	156	1	1
	B - Taverham Road	227	0	0	21
	C - The Street (W)	4	0	0	0.04
	D - Mill Lane	2	11	0.11	0

Proportions

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0.00	0.99	0.01	0.01
	B - Taverham Road	0.92	0.00	0.00	0.08
	C - The Street (W)	0.99	0.00	0.00	0.01
	D - Mill Lane	0.15	0.84	0.01	0.00

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	0	2	0	0
	B - Taverham Road	1	0	0	0
	C - The Street (W)	0	0	0	0
	D - Mill Lane	0	6	0	0

Average PCU Per Veh

		To			
		A - The Street (E)	B - Taverham Road	C - The Street (W)	D - Mill Lane
From	A - The Street (E)	1.000	1.022	1.000	1.000
	B - Taverham Road	1.007	1.000	1.000	1.001
	C - The Street (W)	1.000	1.000	1.000	1.000
	D - Mill Lane	1.000	1.059	1.000	1.000

Detailed Demand Data

Demand for each time segment

Time Segment	Arm	Demand (Veh/hr)	Demand in PCU (PCU/hr)
16:45-17:00	A - The Street (E)	119	122
	B - Taverham Road	186	188
	C - The Street (W)	0	0
	D - Mill Lane	9	10
17:00-17:15	A - The Street (E)	142	145
	B - Taverham Road	223	224
	C - The Street (W)	0	0
	D - Mill Lane	11	12
17:15-17:30	A - The Street (E)	174	178
	B - Taverham Road	273	274
	C - The Street (W)	0	0
	D - Mill Lane	14	14
17:30-17:45	A - The Street (E)	174	178
	B - Taverham Road	273	274
	C - The Street (W)	0	0
	D - Mill Lane	14	14
17:45-18:00	A - The Street (E)	142	145
	B - Taverham Road	223	224
	C - The Street (W)	0	0
	D - Mill Lane	11	12
18:00-18:15	A - The Street (E)	119	122
	B - Taverham Road	186	188
	C - The Street (W)	0	0
	D - Mill Lane	9	10

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	0.53	14.82	1.1	B	229	343
A-BCD	0.00	5.18	0.0	A	1	2
A-B					146	219
A-C					1	2
D-ABC	0.03	7.87	0.0	A	12	18
C-ABD	0.00	0.00	0.0	A	0	0
C-D					0	0
C-A					0	0

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	188	47	526	0.357	185	0.0	0.5	10.583	B
A-BCD	0.91	0.23	699	0.001	0.91	0.0	0.0	5.176	A
A-B	120	30			120				
A-C	0.87	0.22			0.87				
D-ABC	10	2	503	0.020	10	0.0	0.0	7.666	A
C-ABD	0	0	593	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	224	56	523	0.429	223	0.5	0.7	12.069	B
A-BCD	1	0.28	714	0.002	1	0.0	0.0	5.068	A
A-B	143	36			143				
A-C	1	0.26			1				
D-ABC	12	3	499	0.024	12	0.0	0.0	7.751	A
C-ABD	0	0	587	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	274	69	519	0.529	273	0.7	1.1	14.661	B
A-BCD	1	0.36	736	0.002	1	0.0	0.0	4.927	A
A-B	175	44			175				
A-C	1	0.32			1				
D-ABC	14	4	495	0.029	14	0.0	0.0	7.869	A
C-ABD	0	0	579	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	274	69	519	0.529	274	1.1	1.1	14.821	B
A-BCD	1	0.36	736	0.002	1	0.0	0.0	4.929	A
A-B	175	44			175				
A-C	1	0.32			1				
D-ABC	14	4	495	0.029	14	0.0	0.0	7.869	A
C-ABD	0	0	579	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	224	56	523	0.429	225	1.1	0.8	12.243	B
A-BCD	1	0.28	714	0.002	1	0.0	0.0	5.074	A
A-B	143	36			143				
A-C	1	0.26			1				
D-ABC	12	3	499	0.024	12	0.0	0.0	7.751	A
C-ABD	0	0	587	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				

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	188	47	526	0.357	188	0.8	0.6	10.770	B
A-BCD	0.91	0.23	699	0.001	0.92	0.0	0.0	5.178	A
A-B	120	30			120				
A-C	0.87	0.22			0.87				
D-ABC	10	2	503	0.020	10	0.0	0.0	7.670	A
C-ABD	0	0	593	0.000	0	0.0	0.0	0.000	A
C-D	0	0			0				
C-A	0	0			0				