TOBIN

Rooaunalaghta Green Energy Project

Appendix 17-5

Picady Analysis – R334/L5666/ Toorard Priority-Controlled Crossroads

ROOAUNALAGHTA
Green Energy

BUILT ON KNOWLEDGE

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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Filename: 123289 R334-L5666-Toorard Crossroads Junction 2026 04 01.j9
Path: I:\CST\123\251-300\123289\calcs\PICADY
Report generation date: 27/07/2026 16:58:47

»2025 Survey Year, AM
»2025 Survey Year, PM
»2029 Without Const. Traffic, AM
»2029 Without Const. Traffic, PM
»2030 Without Dev, AM
»2030 Without Dev, PM
»2035 Without Dev, AM
»2035 Without Dev, PM
»2045 Without Dev, AM
»2045 Without Dev, PM
»2029 With Const. Traffic, AM
»2029 With Const. Traffic, PM
»2030 With Dev, AM
»2030 With Dev, PM
»2035 With Dev, AM
»2035 With Dev, PM
»2045 With Dev, AM
»2045 With Dev, PM

Summary of junction performance

	AM									PM								
	Set ID	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Set ID	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
2025 Survey Year																		
Stream B-ACD		0.0	0.5	7.26	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.81	0.02	A			335 %		0.0	0.5	5.10	0.01	A			250 %
Stream D-AB	D1	0.0	0.5	5.95	0.01	A	0.77	A	[Stream D-BC]	D2	0.0	0.5	6.19	0.01	A	0.30	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.01	0.04	A					0.0	0.5	8.71	0.02	A			
Stream C-ABD		0.0	0.5	5.07	0.01	A					0.0	0.5	4.54	0.01	A			
2029 Without Const. Traffic																		
Stream B-ACD		0.0	0.5	7.32	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.78	0.02	A			316 %		0.0	0.5	5.09	0.01	A			233 %
Stream D-AB	D3	0.0	0.5	5.97	0.01	A	0.74	A	[Stream D-BC]	D4	0.0	0.5	6.25	0.01	A	0.29	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.10	0.04	A					0.0	0.5	8.85	0.02	A			
Stream C-ABD		0.0	0.5	5.06	0.01	A					0.0	0.5	4.50	0.01	A			
2030 Without Dev																		
Stream B-ACD		0.0	0.5	7.31	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.78	0.02	A			304 %		0.0	0.5	5.08	0.01	A			226 %
Stream D-AB	D5	0.0	0.5	5.99	0.01	A	0.78	A	[Stream D-BC]	D6	0.0	0.5	6.32	0.01	A	0.30	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.15	0.04	A					0.0	0.5	8.86	0.02	A			
Stream C-ABD		0.0	0.5	5.06	0.01	A					0.0	0.5	4.49	0.01	A			
2035 Without Dev																		
Stream B-ACD		0.0	0.5	7.33	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.77	0.02	A			297 %		0.0	0.5	5.08	0.01	A			220 %
Stream D-AB	D7	0.0	0.5	6.00	0.01	A	0.77	A	[Stream D-BC]	D8	0.0	0.5	6.34	0.01	A	0.30	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.19	0.04	A					0.0	0.5	8.92	0.02	A			
Stream C-ABD		0.0	0.5	5.05	0.01	A					0.0	0.5	4.48	0.01	A			
2045 Without Dev																		
Stream B-ACD		0.0	0.5	7.38	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.75	0.02	A			279 %		0.0	0.5	5.07	0.01	A			207 %
Stream D-AB	D9	0.0	0.5	6.03	0.01	A	0.77	A	[Stream D-BC]	D10	0.0	0.5	6.32	0.01	A	0.30	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.29	0.05	A					0.0	0.5	9.13	0.02	A			
Stream C-ABD		0.0	0.5	5.04	0.01	A					0.0	0.5	4.45	0.01	A			
2029 With Const. Traffic																		
Stream B-ACD		0.0	0.5	7.44	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.78	0.02	A			243 %		0.0	0.5	4.90	0.01	A			192 %
Stream D-AB	D11	0.0	0.5	6.17	0.01	A	0.64	A	[Stream D-BC]	D12	0.0	0.5	6.33	0.01	A	0.26	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.54	0.04	A					0.0	0.5	9.27	0.02	A			
Stream C-ABD		0.0	0.5	4.88	0.01	A					0.0	0.5	4.50	0.01	A			
2030 With Dev																		
Stream B-ACD		0.0	0.5	7.33	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.77	0.02	A			297 %		0.0	0.5	5.07	0.01	A			222 %
Stream D-AB	D13	0.0	0.5	6.00	0.01	A	0.77	A	[Stream D-BC]	D14	0.0	0.5	6.33	0.01	A	0.30	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.19	0.04	A					0.0	0.5	8.90	0.02	A			
Stream C-ABD		0.0	0.5	5.05	0.01	A					0.0	0.5	4.49	0.01	A			
2035 With Dev																		
Stream B-ACD		0.0	0.5	7.03	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.76	0.02	A			292 %		0.0	0.5	5.07	0.01	A			216 %
Stream D-AB	D15	0.0	0.5	6.01	0.01	A	0.74	A	[Stream D-BC]	D16	0.0	0.5	6.35	0.01	A	0.29	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.22	0.04	A					0.0	0.5	8.96	0.02	A			
Stream C-ABD		0.0	0.5	5.04	0.01	A					0.0	0.5	4.47	0.01	A			
2045 With Dev																		
Stream B-ACD		0.0	0.5	7.40	0.02	A					0.0	~1	0.00	0.00	A			
Stream A-BCD		0.0	0.5	4.74	0.02	A			273 %		0.0	0.5	5.06	0.01	A			203 %
Stream D-AB	D17	0.0	0.5	6.04	0.01	A	0.76	A	[Stream D-BC]	D18	0.0	0.5	6.33	0.01	A	0.30	A	[Stream D-BC]
Stream D-BC		0.0	0.5	8.33	0.05	A					0.0	0.5	9.18	0.02	A			
Stream C-ABD		0.0	0.5	5.04	0.01	A					0.0	0.5	4.44	0.01	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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	
Location	
Site number	
Date	01/04/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	CSTGROUP\Donal
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	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75	✓		✓	Delay	0.85	36.00	20.00

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	2025 Survey Year	AM	ONE HOUR	07:45	09:15	15	✓
D2	2025 Survey Year	PM	ONE HOUR	16:00	17:30	15	✓
D3	2029 Without Const. Traffic	AM	ONE HOUR	07:45	09:15	15	✓
D4	2029 Without Const. Traffic	PM	ONE HOUR	16:00	17:30	15	✓
D5	2030 Without Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2030 Without Dev	PM	ONE HOUR	16:00	17:30	15	✓
D7	2035 Without Dev	AM	ONE HOUR	07:45	09:15	15	✓
D8	2035 Without Dev	PM	ONE HOUR	16:00	17:30	15	✓
D9	2045 Without Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2045 Without Dev	PM	ONE HOUR	16:00	17:30	15	✓
D11	2029 With Const. Traffic	AM	ONE HOUR	07:45	09:15	15	✓
D12	2029 With Const. Traffic	PM	ONE HOUR	16:00	17:30	15	✓
D13	2030 With Dev	AM	ONE HOUR	07:45	09:15	15	✓
D14	2030 With Dev	PM	ONE HOUR	16:00	17:30	15	✓
D15	2035 With Dev	AM	ONE HOUR	07:45	09:15	15	✓
D16	2035 With Dev	PM	ONE HOUR	16:00	17:30	15	✓
D17	2045 With Dev	AM	ONE HOUR	07:45	09:15	15	✓
D18	2045 With Dev	PM	ONE HOUR	16:00	17:30	15	✓

Analysis Set Details

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

2025 Survey Year, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.77	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	335	Stream D-BC

Arms

Arms

Arm	Name	Description	Arm type
A	R334 North		Major
B	Toorard		Minor
C	R334 South		Major
D	L5666		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	5.00			200.0	✓	0.00
C	5.00			200.0	✓	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	One lane	2.20								15	15
D	One lane plus flare		10.00	10.00	7.50	5.00	2.20	✓	2.00	15	15

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	690	-	-	-	-	-	-	0.279	0.398	0.279	-	-	-
B-A	451	0.086	0.216	0.216	-	-	-	0.136	0.309	-	0.216	0.216	0.108
B-C	583	0.093	0.236	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	451	0.086	0.216	0.216	-	-	-	0.136	0.309	0.136	-	-	-
B-D, offside lane	451	0.086	0.216	0.216	-	-	-	0.136	0.309	0.136	-	-	-
C-B	690	0.279	0.279	0.398	-	-	-	-	-	-	-	-	-
D-A	653	-	-	-	-	-	-	0.264	-	0.104	-	-	-
D-B, nearside lane	505	0.153	0.153	0.347	-	-	-	0.243	0.243	0.096	-	-	-
D-B, offside lane	553	0.167	0.167	0.380	-	-	-	0.266	0.266	0.105	-	-	-
D-C	553	-	0.167	0.380	0.133	0.266	0.266	0.266	0.266	0.105	-	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.
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	2025 Survey Year	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	218	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	152	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	208	9
	B	0	0	8	1
	C	125	5	0	22
	D	3	0	17	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.26	0.0	0.5	A	8	12
A-BCD	0.02	4.81	0.0	0.5	A	11	17
A-B						0.90	1
A-C						188	282
D-AB	0.01	5.95	0.0	0.5	A	3	4
D-BC	0.04	8.01	0.0	0.5	A	16	23
C-ABD	0.01	5.07	0.0	0.5	A	6	9
C-D						20	30
C-A						114	171

Main Results for each time segment

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	7	2	524	0.013	7	0.0	0.0	6.955	A
A-BCD	9	2	757	0.011	9	0.0	0.0	4.807	A
A-B	0.74	0.19			0.74				
A-C	155	39			155				
D-AB	2	0.56	623	0.004	2	0.0	0.0	5.802	A
D-BC	13	3	495	0.026	13	0.0	0.0	7.464	A
C-ABD	4	1	714	0.006	4	0.0	0.0	5.070	A
C-D	16	4			16				
C-A	94	23			94				

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	8	2	516	0.016	8	0.0	0.0	7.080	A
A-BCD	11	3	771	0.014	11	0.0	0.0	4.734	A
A-B	0.89	0.22			0.89				
A-C	184	46			184				
D-AB	3	0.67	616	0.004	3	0.0	0.0	5.864	A
D-BC	15	4	484	0.032	15	0.0	0.0	7.688	A
C-ABD	6	1	720	0.008	6	0.0	0.0	5.039	A
C-D	20	5			20				
C-A	112	28			112				

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	10	2	506	0.020	10	0.0	0.0	7.261	A
A-BCD	14	3	790	0.018	14	0.0	0.0	4.636	A
A-B	1	0.27			1				
A-C	225	56			225				
D-AB	3	0.83	608	0.005	3	0.0	0.0	5.951	A
D-BC	19	5	468	0.040	19	0.0	0.0	8.015	A
C-ABD	7	2	728	0.010	7	0.0	0.0	4.995	A
C-D	24	6			24				
C-A	136	34			136				

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	10	2	506	0.020	10	0.0	0.0	7.261	A
A-BCD	14	4	790	0.018	14	0.0	0.0	4.638	A
A-B	1	0.27			1				
A-C	225	56			225				
D-AB	3	0.83	608	0.005	3	0.0	0.0	5.951	A
D-BC	19	5	468	0.040	19	0.0	0.0	8.015	A
C-ABD	7	2	728	0.010	7	0.0	0.0	4.998	A
C-D	24	6			24				
C-A	136	34			136				

08:45 - 09:00

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	8	2	516	0.016	8	0.0	0.0	7.084	A
A-BCD	11	3	771	0.014	11	0.0	0.0	4.736	A
A-B	0.89	0.22			0.89				
A-C	184	46			184				
D-AB	3	0.67	616	0.004	3	0.0	0.0	5.867	A
D-BC	15	4	483	0.032	15	0.0	0.0	7.691	A
C-ABD	6	1	720	0.008	6	0.0	0.0	5.042	A
C-D	20	5			20				
C-A	112	28			112				

09:00 - 09:15

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	7	2	524	0.013	7	0.0	0.0	6.958	A
A-BCD	9	2	757	0.011	9	0.0	0.0	4.807	A
A-B	0.74	0.19			0.74				
A-C	155	39			155				
D-AB	2	0.56	622	0.004	2	0.0	0.0	5.805	A
D-BC	13	3	495	0.026	13	0.0	0.0	7.471	A
C-ABD	4	1	714	0.006	4	0.0	0.0	5.073	A
C-D	16	4			16				
C-A	94	23			94				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2025 Survey Year, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	250	Stream D-BC

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	2025 Survey Year	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	175	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	303	100.000
D		ONE HOUR	✓	13	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	171	4
	B	0	0	4	0
	C	286	3	0	14
	D	5	0	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.10	0.0	0.5	A	5	7
A-B						0	0
A-C						156	234
D-AB	0.01	6.19	0.0	0.5	A	5	7
D-BC	0.02	8.71	0.0	0.5	A	7	11
C-ABD	0.01	4.54	0.0	0.5	A	4	6
C-D						13	19
C-A						261	392

Main Results for each time segment

16:00 - 16:15

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	0	0	421	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.92	710	0.005	4	0.0	0.0	5.097	A
A-B	0	0			0				
A-C	128	32			128				
D-AB	4	0.94	616	0.006	4	0.0	0.0	5.882	A
D-BC	6	2	459	0.013	6	0.0	0.0	7.953	A
C-ABD	3	0.79	797	0.004	3	0.0	0.0	4.536	A
C-D	10	3			10				
C-A	214	54			214				

16:15 - 16:30

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	0	0	410	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	715	0.006	5	0.0	0.0	5.068	A
A-B	0	0			0				
A-C	153	38			153				
D-AB	4	1	604	0.007	4	0.0	0.0	6.009	A
D-BC	7	2	443	0.016	7	0.0	0.0	8.257	A
C-ABD	4	1	818	0.005	4	0.0	0.0	4.419	A
C-D	13	3			13				
C-A	256	64			256				

16:30 - 16:45

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	0	0	395	0.000	0	0.0	0.0	0.000	A
A-BCD	6	1	722	0.008	6	0.0	0.0	5.025	A
A-B	0	0			0				
A-C	187	47			187				
D-AB	6	1	587	0.009	5	0.0	0.0	6.193	A
D-BC	9	2	422	0.021	9	0.0	0.0	8.714	A
C-ABD	5	1	849	0.006	5	0.0	0.0	4.266	A
C-D	15	4			15				
C-A	313	78			313				

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	0	0	395	0.000	0	0.0	0.0	0.000	A
A-BCD	6	1	722	0.008	6	0.0	0.0	5.027	A
A-B	0	0			0				
A-C	187	47			187				
D-AB	6	1	587	0.009	6	0.0	0.0	6.193	A
D-BC	9	2	422	0.021	9	0.0	0.0	8.714	A
C-ABD	5	1	849	0.006	5	0.0	0.0	4.267	A
C-D	15	4			15				
C-A	313	78			313				

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	0	0	410	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	715	0.006	5	0.0	0.0	5.068	A
A-B	0	0			0				
A-C	153	38			153				
D-AB	4	1	603	0.007	5	0.0	0.0	6.010	A
D-BC	7	2	443	0.016	7	0.0	0.0	8.257	A
C-ABD	4	1	818	0.005	4	0.0	0.0	4.421	A
C-D	13	3			13				
C-A	256	64			256				

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	0	0	421	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.92	710	0.005	4	0.0	0.0	5.097	A
A-B	0	0			0				
A-C	128	32			128				
D-AB	4	0.94	616	0.006	4	0.0	0.0	5.883	A
D-BC	6	2	459	0.013	6	0.0	0.0	7.954	A
C-ABD	3	0.79	797	0.004	3	0.0	0.0	4.538	A
C-D	10	3			10				
C-A	214	54			214				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2029 Without Const. Traffic, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.74	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	316	Stream D-BC

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	2029 Without Const. Traffic	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	231	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	161	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	221	9
	B	0	0	8	1
	C	132	5	0	24
	D	3	0	17	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.32	0.0	0.5	A	8	12
A-BCD	0.02	4.78	0.0	0.5	A	11	17
A-B						0.90	1
A-C						200	300
D-AB	0.01	5.97	0.0	0.5	A	3	4
D-BC	0.04	8.10	0.0	0.5	A	16	23
C-ABD	0.01	5.06	0.0	0.5	A	6	9
C-D						22	33
C-A						120	180

Main Results for each time segment

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	7	2	522	0.013	7	0.0	0.0	6.989	A
A-BCD	9	2	762	0.011	9	0.0	0.0	4.779	A
A-B	0.74	0.19			0.74				
A-C	164	41			164				
D-AB	2	0.56	621	0.004	2	0.0	0.0	5.817	A
D-BC	13	3	492	0.026	13	0.0	0.0	7.514	A
C-ABD	5	1	716	0.006	4	0.0	0.0	5.058	A
C-D	18	4			18				
C-A	99	25			99				

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	8	2	513	0.016	8	0.0	0.0	7.122	A
A-BCD	11	3	777	0.014	11	0.0	0.0	4.701	A
A-B	0.89	0.22			0.89				
A-C	196	49			196				
D-AB	3	0.67	615	0.004	3	0.0	0.0	5.882	A
D-BC	15	4	480	0.032	15	0.0	0.0	7.751	A
C-ABD	6	1	722	0.008	6	0.0	0.0	5.024	A
C-D	21	5			21				
C-A	118	29			118				

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	10	2	502	0.020	10	0.0	0.0	7.315	A
A-BCD	14	4	797	0.018	14	0.0	0.0	4.597	A
A-B	1	0.27			1				
A-C	239	60			239				
D-AB	3	0.83	606	0.005	3	0.0	0.0	5.974	A
D-BC	19	5	463	0.040	19	0.0	0.0	8.099	A
C-ABD	7	2	730	0.010	7	0.0	0.0	4.976	A
C-D	26	7			26				
C-A	144	36			144				

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	10	2	502	0.020	10	0.0	0.0	7.315	A
A-BCD	14	4	797	0.018	14	0.0	0.0	4.599	A
A-B	1	0.27			1				
A-C	239	60			239				
D-AB	3	0.83	606	0.005	3	0.0	0.0	5.974	A
D-BC	19	5	463	0.040	19	0.0	0.0	8.099	A
C-ABD	7	2	730	0.010	7	0.0	0.0	4.978	A
C-D	26	7			26				
C-A	144	36			144				

08:45 - 09:00

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	8	2	513	0.016	8	0.0	0.0	7.122	A
A-BCD	11	3	777	0.014	11	0.0	0.0	4.703	A
A-B	0.89	0.22			0.89				
A-C	196	49			196				
D-AB	3	0.67	615	0.004	3	0.0	0.0	5.885	A
D-BC	15	4	480	0.032	15	0.0	0.0	7.754	A
C-ABD	6	1	722	0.008	6	0.0	0.0	5.024	A
C-D	21	5			21				
C-A	118	29			118				

09:00 - 09:15

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	7	2	522	0.013	7	0.0	0.0	6.992	A
A-BCD	9	2	762	0.011	9	0.0	0.0	4.781	A
A-B	0.74	0.19			0.74				
A-C	164	41			164				
D-AB	2	0.56	621	0.004	2	0.0	0.0	5.820	A
D-BC	13	3	492	0.026	13	0.0	0.0	7.521	A
C-ABD	5	1	716	0.006	5	0.0	0.0	5.060	A
C-D	18	4			18				
C-A	99	25			99				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2029 Without Const. Traffic, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.29	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	233	Stream D-BC

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	2029 Without Const. Traffic	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	185	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	320	100.000
D		ONE HOUR	✓	13	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	181	4
	B	0	0	4	0
	C	302	3	0	15
	D	5	0	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.09	0.0	0.5	A	5	7
A-B						0	0
A-C						165	247
D-AB	0.01	6.25	0.0	0.5	A	5	7
D-BC	0.02	8.85	0.0	0.5	A	7	11
C-ABD	0.01	4.50	0.0	0.5	A	4	6
C-D						14	21
C-A						276	413

Main Results for each time segment

16:00 - 16:15

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	0	0	418	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.93	711	0.005	4	0.0	0.0	5.086	A
A-B	0	0			0				
A-C	136	34			136				
D-AB	4	0.94	612	0.006	4	0.0	0.0	5.915	A
D-BC	6	2	454	0.013	6	0.0	0.0	8.032	A
C-ABD	3	0.80	803	0.004	3	0.0	0.0	4.500	A
C-D	11	3			11				
C-A	226	57			226				

16:15 - 16:30

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	0	0	407	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	717	0.007	5	0.0	0.0	5.054	A
A-B	0	0			0				
A-C	162	40			162				
D-AB	4	1	599	0.008	4	0.0	0.0	6.050	A
D-BC	7	2	438	0.016	7	0.0	0.0	8.358	A
C-ABD	4	1	826	0.005	4	0.0	0.0	4.379	A
C-D	13	3			13				
C-A	270	68			270				

16:30 - 16:45

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	0	0	390	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	725	0.008	6	0.0	0.0	5.007	A
A-B	0	0			0				
A-C	198	49			198				
D-AB	6	1	582	0.009	5	0.0	0.0	6.246	A
D-BC	9	2	415	0.021	9	0.0	0.0	8.853	A
C-ABD	6	1	859	0.006	6	0.0	0.0	4.218	A
C-D	16	4			16				
C-A	330	83			330				

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	0	0	390	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	725	0.008	6	0.0	0.0	5.009	A
A-B	0	0			0				
A-C	198	49			198				
D-AB	6	1	582	0.009	6	0.0	0.0	6.246	A
D-BC	9	2	415	0.021	9	0.0	0.0	8.852	A
C-ABD	6	1	859	0.006	6	0.0	0.0	4.220	A
C-D	16	4			16				
C-A	330	83			330				

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	0	0	407	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	717	0.007	5	0.0	0.0	5.054	A
A-B	0	0			0				
A-C	162	40			162				
D-AB	4	1	599	0.008	5	0.0	0.0	6.051	A
D-BC	7	2	438	0.016	7	0.0	0.0	8.358	A
C-ABD	4	1	826	0.005	4	0.0	0.0	4.380	A
C-D	13	3			13				
C-A	270	68			270				

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	0	0	418	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.93	711	0.005	4	0.0	0.0	5.086	A
A-B	0	0			0				
A-C	136	34			136				
D-AB	4	0.94	612	0.006	4	0.0	0.0	5.918	A
D-BC	6	2	454	0.013	6	0.0	0.0	8.034	A
C-ABD	3	0.80	803	0.004	3	0.0	0.0	4.501	A
C-D	11	3			11				
C-A	226	57			226				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2030 Without Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.78	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	304	Stream D-BC

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	2030 Without Dev	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	235	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	164	100.000
D		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	224	10
	B	0	0	9	1
	C	135	5	0	24
	D	3	0	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.31	0.0	0.5	A	9	14
A-BCD	0.02	4.78	0.0	0.5	A	13	19
A-B						0.90	1
A-C						202	303
D-AB	0.01	5.99	0.0	0.5	A	3	4
D-BC	0.04	8.15	0.0	0.5	A	17	25
C-ABD	0.01	5.06	0.0	0.5	A	6	9
C-D						22	33
C-A						123	184

Main Results for each time segment

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	8	2	523	0.014	7	0.0	0.0	6.979	A
A-BCD	10	2	763	0.013	10	0.0	0.0	4.780	A
A-B	0.74	0.19			0.74				
A-C	166	42			166				
D-AB	2	0.56	620	0.004	2	0.0	0.0	5.830	A
D-BC	14	3	491	0.028	13	0.0	0.0	7.544	A
C-ABD	5	1	717	0.006	4	0.0	0.0	5.054	A
C-D	18	4			18				
C-A	101	25			101				

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	9	2	515	0.017	9	0.0	0.0	7.115	A
A-BCD	12	3	778	0.016	12	0.0	0.0	4.702	A
A-B	0.88	0.22			0.88				
A-C	198	50			198				
D-AB	3	0.67	613	0.004	3	0.0	0.0	5.897	A
D-BC	16	4	478	0.034	16	0.0	0.0	7.790	A
C-ABD	6	1	723	0.008	6	0.0	0.0	5.019	A
C-D	21	5			21				
C-A	120	30			120				

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	11	3	503	0.022	11	0.0	0.0	7.312	A
A-BCD	16	4	799	0.020	16	0.0	0.0	4.599	A
A-B	1	0.27			1				
A-C	242	60			242				
D-AB	3	0.83	604	0.005	3	0.0	0.0	5.992	A
D-BC	20	5	461	0.043	20	0.0	0.0	8.153	A
C-ABD	7	2	731	0.010	7	0.0	0.0	4.970	A
C-D	26	7			26				
C-A	147	37			147				

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	11	3	503	0.022	11	0.0	0.0	7.312	A
A-BCD	16	4	799	0.020	16	0.0	0.0	4.601	A
A-B	1	0.27			1				
A-C	242	60			242				
D-AB	3	0.83	604	0.005	3	0.0	0.0	5.992	A
D-BC	20	5	461	0.043	20	0.0	0.0	8.153	A
C-ABD	7	2	731	0.010	7	0.0	0.0	4.970	A
C-D	26	7			26				
C-A	147	37			147				

08:45 - 09:00

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	9	2	515	0.017	9	0.0	0.0	7.115	A
A-BCD	12	3	778	0.016	12	0.0	0.0	4.705	A
A-B	0.88	0.22			0.88				
A-C	198	50			198				
D-AB	3	0.67	613	0.004	3	0.0	0.0	5.897	A
D-BC	16	4	478	0.034	16	0.0	0.0	7.792	A
C-ABD	6	1	723	0.008	6	0.0	0.0	5.020	A
C-D	21	5			21				
C-A	120	30			120				

09:00 - 09:15

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	8	2	523	0.014	8	0.0	0.0	6.982	A
A-BCD	10	2	763	0.013	10	0.0	0.0	4.782	A
A-B	0.74	0.19			0.74				
A-C	166	42			166				
D-AB	2	0.56	620	0.004	2	0.0	0.0	5.833	A
D-BC	14	3	490	0.028	14	0.0	0.0	7.548	A
C-ABD	5	1	717	0.006	5	0.0	0.0	5.056	A
C-D	18	4			18				
C-A	101	25			101				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2030 Without Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	226	Stream D-BC

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	2030 Without Dev	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	188	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	325	100.000
D		ONE HOUR	✓	14	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	184	4
	B	0	0	4	0
	C	307	3	0	15
	D	5	0	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.08	0.0	0.5	A	5	7
A-B						0	0
A-C						168	251
D-AB	0.01	6.32	0.0	0.5	A	5	7
D-BC	0.02	8.86	0.0	0.5	A	8	12
C-ABD	0.01	4.49	0.0	0.5	A	4	7
C-D						14	21
C-A						280	420

Main Results for each time segment

16:00 - 16:15

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	0	0	417	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.93	712	0.005	4	0.0	0.0	5.082	A
A-B	0	0			0				
A-C	138	34			138				
D-AB	4	0.94	606	0.006	4	0.0	0.0	5.975	A
D-BC	7	2	456	0.015	7	0.0	0.0	8.018	A
C-ABD	3	0.81	805	0.004	3	0.0	0.0	4.490	A
C-D	11	3			11				
C-A	230	58			230				

16:15 - 16:30

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	0	0	405	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	718	0.007	5	0.0	0.0	5.049	A
A-B	0	0			0				
A-C	164	41			164				
D-AB	4	1	593	0.008	4	0.0	0.0	6.115	A
D-BC	8	2	439	0.018	8	0.0	0.0	8.353	A
C-ABD	4	1	828	0.005	4	0.0	0.0	4.367	A
C-D	13	3			13				
C-A	275	69			275				

16:30 - 16:45

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	0	0	389	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	726	0.008	6	0.0	0.0	5.001	A
A-B	0	0			0				
A-C	201	50			201				
D-AB	6	1	575	0.010	5	0.0	0.0	6.318	A
D-BC	10	2	416	0.024	10	0.0	0.0	8.863	A
C-ABD	6	1	862	0.007	6	0.0	0.0	4.205	A
C-D	16	4			16				
C-A	336	84			336				

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	0	0	389	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	726	0.008	6	0.0	0.0	5.003	A
A-B	0	0			0				
A-C	201	50			201				
D-AB	6	1	575	0.010	6	0.0	0.0	6.318	A
D-BC	10	2	416	0.024	10	0.0	0.0	8.863	A
C-ABD	6	1	862	0.007	6	0.0	0.0	4.206	A
C-D	16	4			16				
C-A	336	84			336				

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	0	0	405	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	718	0.007	5	0.0	0.0	5.049	A
A-B	0	0			0				
A-C	164	41			164				
D-AB	4	1	593	0.008	5	0.0	0.0	6.118	A
D-BC	8	2	439	0.018	8	0.0	0.0	8.353	A
C-ABD	4	1	828	0.005	4	0.0	0.0	4.369	A
C-D	13	3			13				
C-A	275	69			275				

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	0	0	417	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.94	712	0.005	4	0.0	0.0	5.082	A
A-B	0	0			0				
A-C	138	34			138				
D-AB	4	0.94	606	0.006	4	0.0	0.0	5.979	A
D-BC	7	2	456	0.015	7	0.0	0.0	8.019	A
C-ABD	3	0.81	805	0.004	3	0.0	0.0	4.492	A
C-D	11	3			11				
C-A	230	58			230				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2035 Without Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.77	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	297	Stream D-BC

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	2035 Without Dev	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	240	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	168	100.000
D		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	229	10
	B	0	0	9	1
	C	138	5	0	25
	D	3	0	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.33	0.0	0.5	A	9	14
A-BCD	0.02	4.77	0.0	0.5	A	13	19
A-B						0.90	1
A-C						207	310
D-AB	0.01	6.00	0.0	0.5	A	3	4
D-BC	0.04	8.19	0.0	0.5	A	17	25
C-ABD	0.01	5.05	0.0	0.5	A	6	9
C-D						23	34
C-A						126	188

Main Results for each time segment

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	8	2	522	0.014	7	0.0	0.0	6.992	A
A-BCD	10	2	764	0.013	10	0.0	0.0	4.770	A
A-B	0.74	0.19			0.74				
A-C	170	43			170				
D-AB	2	0.56	619	0.004	2	0.0	0.0	5.837	A
D-BC	14	3	489	0.028	13	0.0	0.0	7.564	A
C-ABD	5	1	718	0.006	5	0.0	0.0	5.047	A
C-D	19	5			19				
C-A	103	26			103				

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	9	2	514	0.018	9	0.0	0.0	7.131	A
A-BCD	12	3	780	0.016	12	0.0	0.0	4.691	A
A-B	0.88	0.22			0.88				
A-C	203	51			203				
D-AB	3	0.67	612	0.004	3	0.0	0.0	5.905	A
D-BC	16	4	477	0.034	16	0.0	0.0	7.817	A
C-ABD	6	1	724	0.008	6	0.0	0.0	5.011	A
C-D	22	6			22				
C-A	123	31			123				

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	11	3	502	0.022	11	0.0	0.0	7.333	A
A-BCD	16	4	801	0.020	16	0.0	0.0	4.585	A
A-B	1	0.27			1				
A-C	247	62			247				
D-AB	3	0.83	603	0.005	3	0.0	0.0	6.002	A
D-BC	20	5	459	0.043	20	0.0	0.0	8.189	A
C-ABD	7	2	733	0.010	7	0.0	0.0	4.960	A
C-D	27	7			27				
C-A	150	38			150				

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	11	3	502	0.022	11	0.0	0.0	7.333	A
A-BCD	16	4	801	0.020	16	0.0	0.0	4.586	A
A-B	1	0.27			1				
A-C	247	62			247				
D-AB	3	0.83	603	0.005	3	0.0	0.0	6.002	A
D-BC	20	5	459	0.043	20	0.0	0.0	8.189	A
C-ABD	7	2	733	0.010	7	0.0	0.0	4.962	A
C-D	27	7			27				
C-A	150	38			150				

08:45 - 09:00

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	9	2	514	0.018	9	0.0	0.0	7.131	A
A-BCD	12	3	780	0.016	12	0.0	0.0	4.693	A
A-B	0.88	0.22			0.88				
A-C	203	51			203				
D-AB	3	0.67	612	0.004	3	0.0	0.0	5.907	A
D-BC	16	4	477	0.034	16	0.0	0.0	7.820	A
C-ABD	6	1	724	0.008	6	0.0	0.0	5.013	A
C-D	22	6			22				
C-A	123	31			123				

09:00 - 09:15

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	8	2	522	0.014	8	0.0	0.0	6.992	A
A-BCD	10	2	764	0.013	10	0.0	0.0	4.770	A
A-B	0.74	0.19			0.74				
A-C	170	43			170				
D-AB	2	0.56	619	0.004	2	0.0	0.0	5.840	A
D-BC	14	3	489	0.028	14	0.0	0.0	7.569	A
C-ABD	5	1	718	0.006	5	0.0	0.0	5.049	A
C-D	19	5			19				
C-A	103	26			103				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2035 Without Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	220	Stream D-BC

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	2035 Without Dev	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	192	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	332	100.000
D		ONE HOUR	✓	14	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	188	4
	B	0	0	4	0
	C	313	3	0	16
	D	5	0	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.08	0.0	0.5	A	5	7
A-B						0	0
A-C						171	257
D-AB	0.01	6.34	0.0	0.5	A	5	7
D-BC	0.02	8.92	0.0	0.5	A	8	12
C-ABD	0.01	4.48	0.0	0.5	A	4	7
C-D						15	22
C-A						286	428

Main Results for each time segment

16:00 - 16:15

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	0	0	416	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.94	713	0.005	4	0.0	0.0	5.078	A
A-B	0	0			0				
A-C	141	35			141				
D-AB	4	0.94	605	0.006	4	0.0	0.0	5.988	A
D-BC	7	2	454	0.015	7	0.0	0.0	8.050	A
C-ABD	3	0.81	807	0.004	3	0.0	0.0	4.476	A
C-D	12	3			12				
C-A	235	59			235				

16:15 - 16:30

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	0	0	404	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	718	0.007	5	0.0	0.0	5.044	A
A-B	0	0			0				
A-C	168	42			168				
D-AB	4	1	592	0.008	4	0.0	0.0	6.131	A
D-BC	8	2	437	0.019	8	0.0	0.0	8.394	A
C-ABD	4	1	832	0.005	4	0.0	0.0	4.350	A
C-D	14	4			14				
C-A	280	70			280				

16:30 - 16:45

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	0	0	387	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	727	0.008	6	0.0	0.0	4.994	A
A-B	0	0			0				
A-C	205	51			205				
D-AB	6	1	573	0.010	5	0.0	0.0	6.339	A
D-BC	10	2	413	0.024	10	0.0	0.0	8.919	A
C-ABD	6	1	866	0.007	6	0.0	0.0	4.185	A
C-D	18	4			18				
C-A	342	86			342				

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	0	0	387	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	727	0.008	6	0.0	0.0	4.996	A
A-B	0	0			0				
A-C	205	51			205				
D-AB	6	1	573	0.010	6	0.0	0.0	6.340	A
D-BC	10	2	414	0.024	10	0.0	0.0	8.919	A
C-ABD	6	1	866	0.007	6	0.0	0.0	4.185	A
C-D	18	4			18				
C-A	342	86			342				

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	0	0	404	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	718	0.007	5	0.0	0.0	5.044	A
A-B	0	0			0				
A-C	168	42			168				
D-AB	4	1	591	0.008	5	0.0	0.0	6.132	A
D-BC	8	2	437	0.019	8	0.0	0.0	8.394	A
C-ABD	4	1	832	0.005	4	0.0	0.0	4.350	A
C-D	14	4			14				
C-A	280	70			280				

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	0	0	416	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.94	713	0.005	4	0.0	0.0	5.080	A
A-B	0	0			0				
A-C	141	35			141				
D-AB	4	0.94	605	0.006	4	0.0	0.0	5.992	A
D-BC	7	2	454	0.015	7	0.0	0.0	8.051	A
C-ABD	3	0.82	807	0.004	3	0.0	0.0	4.476	A
C-D	12	3			12				
C-A	235	59			235				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2045 Without Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.77	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	279	Stream D-BC

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	2045 Without Dev	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	251	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	177	100.000
D		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	240	10
	B	0	0	9	1
	C	145	6	0	26
	D	3	0	19	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.38	0.0	0.5	A	9	14
A-BCD	0.02	4.75	0.0	0.5	A	13	19
A-B						0.90	1
A-C						217	325
D-AB	0.01	6.03	0.0	0.5	A	3	4
D-BC	0.05	8.29	0.0	0.5	A	17	26
C-ABD	0.01	5.04	0.0	0.5	A	7	11
C-D						24	35
C-A						132	198

Main Results for each time segment

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	8	2	520	0.014	7	0.0	0.0	7.021	A
A-BCD	10	2	768	0.013	10	0.0	0.0	4.749	A
A-B	0.74	0.19			0.74				
A-C	178	45			178				
D-AB	2	0.56	617	0.004	2	0.0	0.0	5.858	A
D-BC	14	4	486	0.029	14	0.0	0.0	7.621	A
C-ABD	6	1	719	0.008	5	0.0	0.0	5.042	A
C-D	19	5			19				
C-A	108	27			108				

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	9	2	511	0.018	9	0.0	0.0	7.167	A
A-BCD	12	3	784	0.016	12	0.0	0.0	4.666	A
A-B	0.88	0.22			0.88				
A-C	212	53			212				
D-AB	3	0.67	610	0.004	3	0.0	0.0	5.930	A
D-BC	17	4	473	0.036	17	0.0	0.0	7.890	A
C-ABD	7	2	726	0.009	7	0.0	0.0	5.005	A
C-D	23	6			23				
C-A	129	32			129				

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	11	3	499	0.022	11	0.0	0.0	7.380	A
A-BCD	16	4	806	0.020	16	0.0	0.0	4.556	A
A-B	1	0.27			1				
A-C	259	65			259				
D-AB	3	0.83	600	0.006	3	0.0	0.0	6.032	A
D-BC	21	5	455	0.046	21	0.0	0.0	8.287	A
C-ABD	9	2	736	0.012	9	0.0	0.0	4.952	A
C-D	28	7			28				
C-A	158	39			158				

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	11	3	499	0.022	11	0.0	0.0	7.380	A
A-BCD	16	4	806	0.020	16	0.0	0.0	4.558	A
A-B	1	0.27			1				
A-C	259	65			259				
D-AB	3	0.83	600	0.006	3	0.0	0.0	6.032	A
D-BC	21	5	455	0.046	21	0.0	0.0	8.289	A
C-ABD	9	2	736	0.012	9	0.0	0.0	4.954	A
C-D	28	7			28				
C-A	158	39			158				

08:45 - 09:00

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	9	2	511	0.018	9	0.0	0.0	7.168	A
A-BCD	12	3	784	0.016	12	0.0	0.0	4.667	A
A-B	0.88	0.22			0.88				
A-C	212	53			212				
D-AB	3	0.67	610	0.004	3	0.0	0.0	5.932	A
D-BC	17	4	473	0.036	17	0.0	0.0	7.894	A
C-ABD	7	2	726	0.009	7	0.0	0.0	5.005	A
C-D	23	6			23				
C-A	129	32			129				

09:00 - 09:15

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	8	2	520	0.014	8	0.0	0.0	7.022	A
A-BCD	10	2	768	0.013	10	0.0	0.0	4.749	A
A-B	0.74	0.19			0.74				
A-C	178	45			178				
D-AB	2	0.56	617	0.004	2	0.0	0.0	5.861	A
D-BC	14	4	486	0.029	14	0.0	0.0	7.629	A
C-ABD	6	1	719	0.008	6	0.0	0.0	5.044	A
C-D	19	5			19				
C-A	108	27			108				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2045 Without Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	207	Stream D-BC

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	2045 Without Dev	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	201	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	346	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	197	4
	B	0	0	4	0
	C	326	3	0	17
	D	6	0	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.07	0.0	0.5	A	5	7
A-B						0	0
A-C						179	269
D-AB	0.01	6.32	0.0	0.5	A	6	8
D-BC	0.02	9.13	0.0	0.5	A	8	12
C-ABD	0.01	4.45	0.0	0.5	A	4	7
C-D						16	23
C-A						298	446

Main Results for each time segment

16:00 - 16:15

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	0	0	413	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.95	714	0.005	4	0.0	0.0	5.065	A
A-B	0	0			0				
A-C	148	37			148				
D-AB	5	1	610	0.007	4	0.0	0.0	5.948	A
D-BC	7	2	446	0.015	7	0.0	0.0	8.198	A
C-ABD	3	0.83	813	0.004	3	0.0	0.0	4.447	A
C-D	13	3			13				
C-A	244	61			244				

16:15 - 16:30

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	0	0	401	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	721	0.007	5	0.0	0.0	5.029	A
A-B	0	0			0				
A-C	176	44			176				
D-AB	5	1	596	0.009	5	0.0	0.0	6.098	A
D-BC	8	2	428	0.019	8	0.0	0.0	8.566	A
C-ABD	4	1	838	0.005	4	0.0	0.0	4.318	A
C-D	15	4			15				
C-A	292	73			292				

16:30 - 16:45

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	0	0	383	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	730	0.009	6	0.0	0.0	4.975	A
A-B	0	0			0				
A-C	215	54			215				
D-AB	7	2	576	0.011	7	0.0	0.0	6.317	A
D-BC	10	2	404	0.025	10	0.0	0.0	9.132	A
C-ABD	6	1	874	0.007	6	0.0	0.0	4.148	A
C-D	19	5			19				
C-A	357	89			357				

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	0	0	383	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	730	0.009	6	0.0	0.0	4.975	A
A-B	0	0			0				
A-C	215	54			215				
D-AB	7	2	576	0.011	7	0.0	0.0	6.317	A
D-BC	10	2	404	0.025	10	0.0	0.0	9.132	A
C-ABD	6	1	874	0.007	6	0.0	0.0	4.148	A
C-D	19	5			19				
C-A	357	89			357				

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	0	0	401	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	721	0.007	5	0.0	0.0	5.029	A
A-B	0	0			0				
A-C	176	44			176				
D-AB	5	1	596	0.009	5	0.0	0.0	6.101	A
D-BC	8	2	428	0.019	8	0.0	0.0	8.568	A
C-ABD	4	1	838	0.005	4	0.0	0.0	4.320	A
C-D	15	4			15				
C-A	292	73			292				

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	0	0	413	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.95	714	0.005	4	0.0	0.0	5.068	A
A-B	0	0			0				
A-C	148	37			148				
D-AB	5	1	609	0.007	5	0.0	0.0	5.952	A
D-BC	7	2	446	0.015	7	0.0	0.0	8.199	A
C-ABD	3	0.83	813	0.004	3	0.0	0.0	4.448	A
C-D	13	3			13				
C-A	244	61			244				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2029 With Const. Traffic, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.64	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	243	Stream D-BC

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	2029 With Const. Traffic	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	255	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	225	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	245	9
	B	0	0	8	1
	C	196	5	0	24
	D	3	0	17	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.44	0.0	0.5	A	8	12
A-BCD	0.02	4.78	0.0	0.5	A	12	18
A-B						0.90	1
A-C						221	332
D-AB	0.01	6.17	0.0	0.5	A	3	4
D-BC	0.04	8.54	0.0	0.5	A	16	23
C-ABD	0.01	4.88	0.0	0.5	A	6	9
C-D						22	33
C-A						178	267

Main Results for each time segment

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	7	2	516	0.013	7	0.0	0.0	7.065	A
A-BCD	9	2	761	0.012	9	0.0	0.0	4.785	A
A-B	0.74	0.19			0.74				
A-C	182	46			182				
D-AB	2	0.56	608	0.004	2	0.0	0.0	5.940	A
D-BC	13	3	476	0.027	13	0.0	0.0	7.771	A
C-ABD	5	1	743	0.007	5	0.0	0.0	4.879	A
C-D	18	4			18				
C-A	147	37			147				

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	8	2	507	0.016	8	0.0	0.0	7.217	A
A-BCD	11	3	776	0.015	11	0.0	0.0	4.706	A
A-B	0.89	0.22			0.89				
A-C	217	54			217				
D-AB	3	0.67	599	0.005	3	0.0	0.0	6.033	A
D-BC	15	4	461	0.033	15	0.0	0.0	8.080	A
C-ABD	6	2	754	0.008	6	0.0	0.0	4.813	A
C-D	21	5			21				
C-A	175	44			175				

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	10	2	494	0.020	10	0.0	0.0	7.439	A
A-BCD	15	4	798	0.019	15	0.0	0.0	4.599	A
A-B	1	0.27			1				
A-C	265	66			265				
D-AB	3	0.83	587	0.006	3	0.0	0.0	6.166	A
D-BC	19	5	440	0.043	19	0.0	0.0	8.544	A
C-ABD	8	2	770	0.010	8	0.0	0.0	4.721	A
C-D	26	7			26				
C-A	214	53			214				

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	10	2	494	0.020	10	0.0	0.0	7.440	A
A-BCD	15	4	798	0.019	15	0.0	0.0	4.600	A
A-B	1	0.27			1				
A-C	265	66			265				
D-AB	3	0.83	587	0.006	3	0.0	0.0	6.166	A
D-BC	19	5	440	0.043	19	0.0	0.0	8.544	A
C-ABD	8	2	770	0.010	8	0.0	0.0	4.723	A
C-D	26	7			26				
C-A	214	53			214				

08:45 - 09:00

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	8	2	507	0.016	8	0.0	0.0	7.220	A
A-BCD	11	3	776	0.015	11	0.0	0.0	4.708	A
A-B	0.89	0.22			0.89				
A-C	217	54			217				
D-AB	3	0.67	599	0.005	3	0.0	0.0	6.035	A
D-BC	15	4	461	0.033	15	0.0	0.0	8.083	A
C-ABD	6	2	754	0.008	6	0.0	0.0	4.813	A
C-D	21	5			21				
C-A	175	44			175				

09:00 - 09:15

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	7	2	516	0.013	7	0.0	0.0	7.065	A
A-BCD	9	2	761	0.012	9	0.0	0.0	4.785	A
A-B	0.74	0.19			0.74				
A-C	182	46			182				
D-AB	2	0.56	608	0.004	2	0.0	0.0	5.941	A
D-BC	13	3	476	0.027	13	0.0	0.0	7.776	A
C-ABD	5	1	743	0.007	5	0.0	0.0	4.879	A
C-D	18	4			18				
C-A	147	37			147				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2029 With Const. Traffic, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.26	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	192	Stream D-BC

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	2029 With Const. Traffic	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	249	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	344	100.000
D		ONE HOUR	✓	13	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	245	4
	B	0	0	4	0
	C	326	3	0	15
	D	5	0	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	4.90	0.0	0.5	A	5	8
A-B						0	0
A-C						223	335
D-AB	0.01	6.33	0.0	0.5	A	5	7
D-BC	0.02	9.27	0.0	0.5	A	7	11
C-ABD	0.01	4.50	0.0	0.5	A	4	7
C-D						14	21
C-A						297	446

Main Results for each time segment

16:00 - 16:15

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	0	0	405	0.000	0	0.0	0.0	0.000	A
A-BCD	4	1	738	0.005	4	0.0	0.0	4.901	A
A-B	0	0			0				
A-C	183	46			183				
D-AB	4	0.94	607	0.006	4	0.0	0.0	5.963	A
D-BC	6	2	442	0.014	6	0.0	0.0	8.262	A
C-ABD	3	0.83	803	0.004	3	0.0	0.0	4.501	A
C-D	11	3			11				
C-A	244	61			244				

16:15 - 16:30

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	0	0	391	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	750	0.007	5	0.0	0.0	4.834	A
A-B	0	0			0				
A-C	219	55			219				
D-AB	4	1	593	0.008	4	0.0	0.0	6.111	A
D-BC	7	2	423	0.017	7	0.0	0.0	8.658	A
C-ABD	4	1	827	0.005	4	0.0	0.0	4.377	A
C-D	13	3			13				
C-A	292	73			292				

16:30 - 16:45

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	0	0	371	0.000	0	0.0	0.0	0.000	A
A-BCD	7	2	766	0.009	7	0.0	0.0	4.741	A
A-B	0	0			0				
A-C	267	67			267				
D-AB	6	1	574	0.010	5	0.0	0.0	6.327	A
D-BC	9	2	397	0.022	9	0.0	0.0	9.269	A
C-ABD	6	1	860	0.007	6	0.0	0.0	4.212	A
C-D	16	4			16				
C-A	356	89			356				

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	0	0	371	0.000	0	0.0	0.0	0.000	A
A-BCD	7	2	766	0.009	7	0.0	0.0	4.743	A
A-B	0	0			0				
A-C	267	67			267				
D-AB	6	1	574	0.010	6	0.0	0.0	6.327	A
D-BC	9	2	397	0.022	9	0.0	0.0	9.269	A
C-ABD	6	1	860	0.007	6	0.0	0.0	4.214	A
C-D	16	4			16				
C-A	356	89			356				

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	0	0	391	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	750	0.007	5	0.0	0.0	4.836	A
A-B	0	0			0				
A-C	219	55			219				
D-AB	4	1	593	0.008	5	0.0	0.0	6.112	A
D-BC	7	2	423	0.017	7	0.0	0.0	8.659	A
C-ABD	4	1	827	0.005	4	0.0	0.0	4.377	A
C-D	13	3			13				
C-A	292	73			292				

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	0	0	405	0.000	0	0.0	0.0	0.000	A
A-BCD	4	1	738	0.005	4	0.0	0.0	4.901	A
A-B	0	0			0				
A-C	183	46			183				
D-AB	4	0.94	607	0.006	4	0.0	0.0	5.968	A
D-BC	6	2	442	0.014	6	0.0	0.0	8.265	A
C-ABD	3	0.83	803	0.004	3	0.0	0.0	4.503	A
C-D	11	3			11				
C-A	244	61			244				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2030 With Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.77	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	297	Stream D-BC

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
D13	2030 With Dev	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	239	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	168	100.000
D		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	228	10
	B	0	0	9	1
	C	139	5	0	24
	D	3	0	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.33	0.0	0.5	A	9	14
A-BCD	0.02	4.77	0.0	0.5	A	13	19
A-B						0.90	1
A-C						206	309
D-AB	0.01	6.00	0.0	0.5	A	3	4
D-BC	0.04	8.19	0.0	0.5	A	17	25
C-ABD	0.01	5.05	0.0	0.5	A	6	9
C-D						22	33
C-A						126	190

Main Results for each time segment

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	8	2	522	0.014	7	0.0	0.0	6.990	A
A-BCD	10	2	764	0.013	10	0.0	0.0	4.773	A
A-B	0.74	0.19			0.74				
A-C	169	42			169				
D-AB	2	0.56	619	0.004	2	0.0	0.0	5.838	A
D-BC	14	3	489	0.028	13	0.0	0.0	7.564	A
C-ABD	5	1	718	0.006	5	0.0	0.0	5.046	A
C-D	18	4			18				
C-A	104	26			104				

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	9	2	514	0.017	9	0.0	0.0	7.128	A
A-BCD	12	3	779	0.016	12	0.0	0.0	4.694	A
A-B	0.88	0.22			0.88				
A-C	202	50			202				
D-AB	3	0.67	612	0.004	3	0.0	0.0	5.906	A
D-BC	16	4	477	0.034	16	0.0	0.0	7.817	A
C-ABD	6	1	724	0.008	6	0.0	0.0	5.010	A
C-D	21	5			21				
C-A	124	31			124				

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	11	3	502	0.022	11	0.0	0.0	7.329	A
A-BCD	16	4	800	0.020	16	0.0	0.0	4.589	A
A-B	1	0.27			1				
A-C	246	61			246				
D-AB	3	0.83	603	0.005	3	0.0	0.0	6.003	A
D-BC	20	5	459	0.043	20	0.0	0.0	8.188	A
C-ABD	7	2	733	0.010	7	0.0	0.0	4.958	A
C-D	26	7			26				
C-A	152	38			152				

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	11	3	502	0.022	11	0.0	0.0	7.329	A
A-BCD	16	4	800	0.020	16	0.0	0.0	4.591	A
A-B	1	0.27			1				
A-C	246	61			246				
D-AB	3	0.83	603	0.005	3	0.0	0.0	6.004	A
D-BC	20	5	459	0.043	20	0.0	0.0	8.189	A
C-ABD	7	2	733	0.010	7	0.0	0.0	4.960	A
C-D	26	7			26				
C-A	152	38			152				

08:45 - 09:00

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	9	2	514	0.017	9	0.0	0.0	7.128	A
A-BCD	12	3	779	0.016	12	0.0	0.0	4.695	A
A-B	0.88	0.22			0.88				
A-C	202	50			202				
D-AB	3	0.67	612	0.004	3	0.0	0.0	5.909	A
D-BC	16	4	477	0.034	16	0.0	0.0	7.820	A
C-ABD	6	1	724	0.008	6	0.0	0.0	5.010	A
C-D	21	5			21				
C-A	124	31			124				

09:00 - 09:15

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	8	2	522	0.014	8	0.0	0.0	6.990	A
A-BCD	10	2	764	0.013	10	0.0	0.0	4.773	A
A-B	0.74	0.19			0.74				
A-C	169	42			169				
D-AB	2	0.56	619	0.004	2	0.0	0.0	5.841	A
D-BC	14	3	489	0.028	14	0.0	0.0	7.569	A
C-ABD	5	1	718	0.006	5	0.0	0.0	5.046	A
C-D	18	4			18				
C-A	104	26			104				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2030 With Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	222	Stream D-BC

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
D14	2030 With Dev	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	192	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	329	100.000
D		ONE HOUR	✓	14	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	188	4
	B	0	0	4	0
	C	311	3	0	15
	D	5	0	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.07	0.0	0.5	A	5	7
A-B						0	0
A-C						171	257
D-AB	0.01	6.33	0.0	0.5	A	5	7
D-BC	0.02	8.90	0.0	0.5	A	8	12
C-ABD	0.01	4.49	0.0	0.5	A	4	7
C-D						14	21
C-A						284	426

Main Results for each time segment

16:00 - 16:15

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	0	0	416	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.94	713	0.005	4	0.0	0.0	5.073	A
A-B	0	0			0				
A-C	141	35			141				
D-AB	4	0.94	605	0.006	4	0.0	0.0	5.983	A
D-BC	7	2	454	0.015	7	0.0	0.0	8.041	A
C-ABD	3	0.81	806	0.004	3	0.0	0.0	4.483	A
C-D	11	3			11				
C-A	233	58			233				

16:15 - 16:30

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	0	0	404	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	719	0.007	5	0.0	0.0	5.039	A
A-B	0	0			0				
A-C	168	42			168				
D-AB	4	1	592	0.008	4	0.0	0.0	6.125	A
D-BC	8	2	438	0.018	8	0.0	0.0	8.383	A
C-ABD	4	1	830	0.005	4	0.0	0.0	4.359	A
C-D	13	3			13				
C-A	278	70			278				

16:30 - 16:45

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	0	0	387	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	728	0.008	6	0.0	0.0	4.988	A
A-B	0	0			0				
A-C	205	51			205				
D-AB	6	1	574	0.010	5	0.0	0.0	6.331	A
D-BC	10	2	414	0.024	10	0.0	0.0	8.904	A
C-ABD	6	1	864	0.007	6	0.0	0.0	4.196	A
C-D	16	4			16				
C-A	340	85			340				

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	0	0	387	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	728	0.008	6	0.0	0.0	4.990	A
A-B	0	0			0				
A-C	205	51			205				
D-AB	6	1	574	0.010	6	0.0	0.0	6.332	A
D-BC	10	2	414	0.024	10	0.0	0.0	8.904	A
C-ABD	6	1	864	0.007	6	0.0	0.0	4.197	A
C-D	16	4			16				
C-A	340	85			340				

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	0	0	404	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	719	0.007	5	0.0	0.0	5.039	A
A-B	0	0			0				
A-C	168	42			168				
D-AB	4	1	592	0.008	5	0.0	0.0	6.128	A
D-BC	8	2	438	0.018	8	0.0	0.0	8.383	A
C-ABD	4	1	830	0.005	4	0.0	0.0	4.361	A
C-D	13	3			13				
C-A	278	70			278				

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	0	0	416	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.94	713	0.005	4	0.0	0.0	5.074	A
A-B	0	0			0				
A-C	141	35			141				
D-AB	4	0.94	605	0.006	4	0.0	0.0	5.987	A
D-BC	7	2	454	0.015	7	0.0	0.0	8.044	A
C-ABD	3	0.81	806	0.004	3	0.0	0.0	4.485	A
C-D	11	3			11				
C-A	233	58			233				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2035 With Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.74	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	292	Stream D-BC

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
D15	2035 With Dev	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	244	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	172	100.000
D		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	233	10
	B	0	0	9	0
	C	142	5	0	25
	D	3	0	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.03	0.0	0.5	A	8	12
A-BCD	0.02	4.76	0.0	0.5	A	13	19
A-B						0.90	1
A-C						210	315
D-AB	0.01	6.01	0.0	0.5	A	3	4
D-BC	0.04	8.22	0.0	0.5	A	17	25
C-ABD	0.01	5.04	0.0	0.5	A	6	9
C-D						23	34
C-A						129	194

Main Results for each time segment

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	7	2	541	0.013	7	0.0	0.0	6.734	A
A-BCD	10	2	765	0.013	10	0.0	0.0	4.763	A
A-B	0.74	0.19			0.74				
A-C	173	43			173				
D-AB	2	0.56	618	0.004	2	0.0	0.0	5.844	A
D-BC	14	3	488	0.028	13	0.0	0.0	7.582	A
C-ABD	5	1	719	0.006	5	0.0	0.0	5.039	A
C-D	19	5			19				
C-A	106	27			106				

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	8	2	533	0.015	8	0.0	0.0	6.854	A
A-BCD	12	3	781	0.016	12	0.0	0.0	4.683	A
A-B	0.88	0.22			0.88				
A-C	206	52			206				
D-AB	3	0.67	611	0.004	3	0.0	0.0	5.914	A
D-BC	16	4	475	0.034	16	0.0	0.0	7.839	A
C-ABD	6	1	725	0.008	6	0.0	0.0	5.002	A
C-D	22	6			22				
C-A	127	32			127				

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	10	2	522	0.019	10	0.0	0.0	7.027	A
A-BCD	16	4	803	0.020	16	0.0	0.0	4.576	A
A-B	1	0.27			1				
A-C	251	63			251				
D-AB	3	0.83	602	0.005	3	0.0	0.0	6.013	A
D-BC	20	5	458	0.043	20	0.0	0.0	8.219	A
C-ABD	7	2	735	0.010	7	0.0	0.0	4.948	A
C-D	27	7			27				
C-A	155	39			155				

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	10	2	522	0.019	10	0.0	0.0	7.027	A
A-BCD	16	4	803	0.020	16	0.0	0.0	4.576	A
A-B	1	0.27			1				
A-C	251	63			251				
D-AB	3	0.83	602	0.005	3	0.0	0.0	6.014	A
D-BC	20	5	458	0.043	20	0.0	0.0	8.219	A
C-ABD	7	2	735	0.010	7	0.0	0.0	4.948	A
C-D	27	7			27				
C-A	155	39			155				

08:45 - 09:00

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	8	2	533	0.015	8	0.0	0.0	6.857	A
A-BCD	12	3	781	0.016	12	0.0	0.0	4.683	A
A-B	0.88	0.22			0.88				
A-C	206	52			206				
D-AB	3	0.67	611	0.004	3	0.0	0.0	5.917	A
D-BC	16	4	475	0.034	16	0.0	0.0	7.841	A
C-ABD	6	1	725	0.008	6	0.0	0.0	5.004	A
C-D	22	6			22				
C-A	127	32			127				

09:00 - 09:15

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	7	2	541	0.013	7	0.0	0.0	6.735	A
A-BCD	10	2	765	0.013	10	0.0	0.0	4.763	A
A-B	0.74	0.19			0.74				
A-C	173	43			173				
D-AB	2	0.56	618	0.004	2	0.0	0.0	5.845	A
D-BC	14	3	488	0.028	14	0.0	0.0	7.589	A
C-ABD	5	1	719	0.006	5	0.0	0.0	5.041	A
C-D	19	5			19				
C-A	106	27			106				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2035 With Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.29	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	216	Stream D-BC

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
D16	2035 With Dev	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	196	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	336	100.000
D		ONE HOUR	✓	14	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	192	4
	B	0	0	4	0
	C	317	3	0	16
	D	5	0	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.07	0.0	0.5	A	5	7
A-B						0	0
A-C						175	262
D-AB	0.01	6.35	0.0	0.5	A	5	7
D-BC	0.02	8.96	0.0	0.5	A	8	12
C-ABD	0.01	4.47	0.0	0.5	A	4	7
C-D						15	22
C-A						289	434

Main Results for each time segment

16:00 - 16:15

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	0	0	415	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.94	714	0.005	4	0.0	0.0	5.069	A
A-B	0	0			0				
A-C	144	36			144				
D-AB	4	0.94	604	0.006	4	0.0	0.0	5.997	A
D-BC	7	2	453	0.015	7	0.0	0.0	8.073	A
C-ABD	3	0.82	809	0.004	3	0.0	0.0	4.469	A
C-D	12	3			12				
C-A	238	59			238				

16:15 - 16:30

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	0	0	403	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	720	0.007	5	0.0	0.0	5.034	A
A-B	0	0			0				
A-C	171	43			171				
D-AB	4	1	591	0.008	4	0.0	0.0	6.141	A
D-BC	8	2	435	0.019	8	0.0	0.0	8.424	A
C-ABD	4	1	833	0.005	4	0.0	0.0	4.342	A
C-D	14	4			14				
C-A	284	71			284				

16:30 - 16:45

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	0	0	386	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	729	0.009	6	0.0	0.0	4.981	A
A-B	0	0			0				
A-C	210	52			210				
D-AB	6	1	572	0.010	5	0.0	0.0	6.353	A
D-BC	10	2	412	0.024	10	0.0	0.0	8.961	A
C-ABD	6	1	868	0.007	6	0.0	0.0	4.176	A
C-D	17	4			17				
C-A	347	87			347				

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	0	0	386	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	729	0.009	6	0.0	0.0	4.981	A
A-B	0	0			0				
A-C	210	52			210				
D-AB	6	1	572	0.010	6	0.0	0.0	6.353	A
D-BC	10	2	412	0.024	10	0.0	0.0	8.960	A
C-ABD	6	1	868	0.007	6	0.0	0.0	4.178	A
C-D	17	4			17				
C-A	347	87			347				

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	0	0	403	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	720	0.007	5	0.0	0.0	5.034	A
A-B	0	0			0				
A-C	171	43			171				
D-AB	4	1	590	0.008	5	0.0	0.0	6.145	A
D-BC	8	2	435	0.019	8	0.0	0.0	8.424	A
C-ABD	4	1	833	0.005	4	0.0	0.0	4.342	A
C-D	14	4			14				
C-A	284	71			284				

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	0	0	415	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.95	714	0.005	4	0.0	0.0	5.071	A
A-B	0	0			0				
A-C	144	36			144				
D-AB	4	0.94	604	0.006	4	0.0	0.0	6.000	A
D-BC	7	2	453	0.015	7	0.0	0.0	8.074	A
C-ABD	3	0.82	809	0.004	3	0.0	0.0	4.471	A
C-D	12	3			12				
C-A	238	59			238				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2045 With Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.76	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	273	Stream D-BC

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
D17	2045 With Dev	AM	ONE HOUR	07:45	09:15	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	255	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	181	100.000
D		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	1	244	10
	B	0	0	9	1
	C	149	6	0	26
	D	3	0	19	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.02	7.40	0.0	0.5	A	9	14
A-BCD	0.02	4.74	0.0	0.5	A	13	19
A-B						0.90	1
A-C						220	330
D-AB	0.01	6.04	0.0	0.5	A	3	4
D-BC	0.05	8.33	0.0	0.5	A	17	26
C-ABD	0.01	5.04	0.0	0.5	A	7	11
C-D						24	35
C-A						135	203

Main Results for each time segment

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	8	2	519	0.014	7	0.0	0.0	7.032	A
A-BCD	10	2	769	0.013	10	0.0	0.0	4.742	A
A-B	0.74	0.19			0.74				
A-C	181	45			181				
D-AB	2	0.56	616	0.004	2	0.0	0.0	5.865	A
D-BC	14	4	485	0.029	14	0.0	0.0	7.642	A
C-ABD	6	1	721	0.008	5	0.0	0.0	5.034	A
C-D	19	5			19				
C-A	111	28			111				

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	9	2	510	0.018	9	0.0	0.0	7.180	A
A-BCD	13	3	785	0.016	12	0.0	0.0	4.658	A
A-B	0.88	0.22			0.88				
A-C	216	54			216				
D-AB	3	0.67	609	0.004	3	0.0	0.0	5.939	A
D-BC	17	4	472	0.036	17	0.0	0.0	7.917	A
C-ABD	7	2	727	0.009	7	0.0	0.0	4.995	A
C-D	23	6			23				
C-A	133	33			133				

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	11	3	498	0.022	11	0.0	0.0	7.397	A
A-BCD	17	4	808	0.020	17	0.0	0.0	4.546	A
A-B	1	0.27			1				
A-C	263	66			263				
D-AB	3	0.83	599	0.006	3	0.0	0.0	6.044	A
D-BC	21	5	453	0.046	21	0.0	0.0	8.324	A
C-ABD	9	2	738	0.012	9	0.0	0.0	4.940	A
C-D	28	7			28				
C-A	162	41			162				

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	11	3	498	0.022	11	0.0	0.0	7.397	A
A-BCD	17	4	808	0.020	17	0.0	0.0	4.547	A
A-B	1	0.27			1				
A-C	263	66			263				
D-AB	3	0.83	599	0.006	3	0.0	0.0	6.044	A
D-BC	21	5	453	0.046	21	0.0	0.0	8.326	A
C-ABD	9	2	738	0.012	9	0.0	0.0	4.942	A
C-D	28	7			28				
C-A	162	41			162				

08:45 - 09:00

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	9	2	510	0.018	9	0.0	0.0	7.181	A
A-BCD	13	3	785	0.016	13	0.0	0.0	4.660	A
A-B	0.88	0.22			0.88				
A-C	216	54			216				
D-AB	3	0.67	609	0.004	3	0.0	0.0	5.939	A
D-BC	17	4	472	0.036	17	0.0	0.0	7.919	A
C-ABD	7	2	727	0.009	7	0.0	0.0	4.995	A
C-D	23	6			23				
C-A	133	33			133				

09:00 - 09:15

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	8	2	519	0.015	8	0.0	0.0	7.032	A
A-BCD	10	2	769	0.013	10	0.0	0.0	4.744	A
A-B	0.74	0.19			0.74				
A-C	181	45			181				
D-AB	2	0.56	616	0.004	2	0.0	0.0	5.868	A
D-BC	14	4	485	0.029	14	0.0	0.0	7.650	A
C-ABD	6	1	721	0.008	6	0.0	0.0	5.036	A
C-D	19	5			19				
C-A	111	28			111				

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
A-BCD	0.02	0.02	0.25	0.45	0.48			N/A	N/A
D-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
D-BC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
A-BCD	0.02	0.00	0.00	0.02	0.02			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2045 With Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Major arm width	Arm A - 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	Arm C - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.
Warning	Queue variations	Analysis Options	Queue Variations cannot be calculated for crossroads.
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		0.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	203	Stream D-BC

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
D18	2045 With Dev	PM	ONE HOUR	16:00	17:30	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 (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	205	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	350	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	0	201	4
	B	0	0	4	0
	C	330	3	0	17
	D	6	0	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	0	0
	B	0	0	0	0
	C	0	0	0	0
	D	0	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-ACD	0.00	0.00	0.0	~1	A	0	0
A-BCD	0.01	5.06	0.0	0.5	A	5	7
A-B						0	0
A-C						183	275
D-AB	0.01	6.33	0.0	0.5	A	6	8
D-BC	0.02	9.18	0.0	0.5	A	8	12
C-ABD	0.01	4.44	0.0	0.5	A	5	7
C-D						16	23
C-A						301	452

Main Results for each time segment

16:00 - 16:15

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	0	0	412	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.95	716	0.005	4	0.0	0.0	5.057	A
A-B	0	0			0				
A-C	151	38			151				
D-AB	5	1	609	0.007	4	0.0	0.0	5.956	A
D-BC	7	2	445	0.015	7	0.0	0.0	8.222	A
C-ABD	3	0.83	814	0.004	3	0.0	0.0	4.441	A
C-D	13	3			13				
C-A	247	62			247				

16:15 - 16:30

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	0	0	399	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	722	0.007	5	0.0	0.0	5.019	A
A-B	0	0			0				
A-C	179	45			179				
D-AB	5	1	595	0.009	5	0.0	0.0	6.108	A
D-BC	8	2	427	0.019	8	0.0	0.0	8.597	A
C-ABD	4	1	839	0.005	4	0.0	0.0	4.310	A
C-D	15	4			15				
C-A	295	74			295				

16:30 - 16:45

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	0	0	381	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	732	0.009	6	0.0	0.0	4.962	A
A-B	0	0			0				
A-C	219	55			219				
D-AB	7	2	575	0.011	7	0.0	0.0	6.330	A
D-BC	10	2	402	0.025	10	0.0	0.0	9.175	A
C-ABD	6	1	875	0.007	6	0.0	0.0	4.139	A
C-D	19	5			19				
C-A	361	90			361				

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	0	0	381	0.000	0	0.0	0.0	0.000	A
A-BCD	6	2	732	0.009	6	0.0	0.0	4.962	A
A-B	0	0			0				
A-C	219	55			219				
D-AB	7	2	575	0.011	7	0.0	0.0	6.331	A
D-BC	10	2	402	0.025	10	0.0	0.0	9.175	A
C-ABD	6	1	875	0.007	6	0.0	0.0	4.139	A
C-D	19	5			19				
C-A	361	90			361				

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	0	0	399	0.000	0	0.0	0.0	0.000	A
A-BCD	5	1	722	0.007	5	0.0	0.0	5.019	A
A-B	0	0			0				
A-C	179	45			179				
D-AB	5	1	595	0.009	5	0.0	0.0	6.112	A
D-BC	8	2	427	0.019	8	0.0	0.0	8.599	A
C-ABD	4	1	839	0.005	4	0.0	0.0	4.312	A
C-D	15	4			15				
C-A	295	74			295				

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	0	0	412	0.000	0	0.0	0.0	0.000	A
A-BCD	4	0.96	716	0.005	4	0.0	0.0	5.057	A
A-B	0	0			0				
A-C	151	38			151				
D-AB	5	1	609	0.007	5	0.0	0.0	5.960	A
D-BC	7	2	445	0.015	7	0.0	0.0	8.223	A
C-ABD	3	0.83	814	0.004	3	0.0	0.0	4.441	A
C-D	13	3			13				
C-A	247	62			247				

Queue Variation Results for each time segment

16:00 - 16:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
D-BC	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-ABD	0.01	0.01	0.25	0.45	0.48			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-ACD	0.00	0.00	0.00	0.00	0.00			N/A	N/A
A-BCD	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A
D-BC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-ABD	0.00	0.00	0.00	0.00	0.00			N/A	N/A