TOBIN

Rooaunalaghta Green Energy Project

Appendix 17-4

Picady Analysis – R334/L615 Priority-Controlled Staggered Crossroads

ROOAUNALAGHTA
Green Energy

BUILT ON KNOWLEDGE

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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Path: I:\CST\123\251-300\123289\calcs\PICADY
Report generation date: 27/07/2026 16:52:08

»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	D1	0.1	0.5	9.26	0.07	A	0.62	A	261 % [Stream B-ACD]	D2	0.1	0.5	9.74	0.09	A	0.60	A	220 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.96	0.01	A					0.0	~1	5.42	0.02	A			
Stream D-ABC		0.1	0.5	8.73	0.05	A					0.0	0.5	8.12	0.04	A			
Stream CD-AB		0.0	~1	5.55	0.02	A					0.0	~1	5.03	0.03	A			
2029 Without Const. Traffic																		
Stream B-ACD	D3	0.1	0.5	9.45	0.08	A	0.62	A	239 % [Stream B-ACD]	D4	0.1	0.5	9.95	0.10	A	0.61	A	200 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.93	0.01	A					0.0	~1	5.41	0.02	A			
Stream D-ABC		0.1	0.5	8.93	0.05	A					0.0	0.5	8.21	0.04	A			
Stream CD-AB		0.0	~1	5.53	0.02	A					0.0	~1	5.00	0.03	A			
2030 Without Dev																		
Stream B-ACD	D5	0.1	0.5	9.44	0.08	A	0.62	A	235 % [Stream B-ACD]	D6	0.1	0.5	10.06	0.10	B	0.62	A	193 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.91	0.01	A					0.0	~1	5.40	0.02	A			
Stream D-ABC		0.1	0.5	8.96	0.05	A					0.0	0.5	8.23	0.04	A			
Stream CD-AB		0.0	~1	5.53	0.02	A					0.0	~1	4.99	0.03	A			
2035 Without Dev																		
Stream B-ACD	D7	0.1	0.5	9.49	0.08	A	0.62	A	229 % [Stream B-ACD]	D8	0.1	0.5	10.18	0.10	B	0.63	A	185 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.90	0.01	A					0.0	~1	5.39	0.02	A			
Stream D-ABC		0.1	0.5	8.92	0.05	A					0.0	0.5	8.24	0.04	A			
Stream CD-AB		0.0	~1	5.52	0.02	A					0.0	~1	4.97	0.03	A			
2045 Without Dev																		
Stream B-ACD	D9	0.1	0.5	9.64	0.09	A	0.63	A	211 % [Stream B-ACD]	D10	0.1	0.5	10.47	0.12	B	0.67	A	166 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.87	0.01	A					0.0	~1	5.38	0.02	A			
Stream D-ABC		0.1	0.5	9.12	0.06	A					0.0	0.5	8.31	0.04	A			
Stream CD-AB		0.0	~1	5.50	0.02	A					0.1	~1	4.94	0.04	A			
2029 With Const. Traffic																		
Stream B-ACD	D11	0.1	0.5	9.57	0.08	A	0.60	A	226 % [Stream B-ACD]	D12	0.1	0.5	10.05	0.10	B	0.60	A	191 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.88	0.01	A					0.0	~1	5.40	0.02	A			
Stream D-ABC		0.1	0.5	9.00	0.05	A					0.0	0.5	8.30	0.04	A			
Stream CD-AB		0.0	~1	5.53	0.02	A					0.0	~1	4.95	0.03	A			
2030 With Dev																		
Stream B-ACD	D13	0.1	0.5	9.45	0.08	A	0.62	A	234 % [Stream B-ACD]	D14	0.1	0.5	10.07	0.10	B	0.62	A	192 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.91	0.01	A					0.0	~1	5.40	0.02	A			
Stream D-ABC		0.1	0.5	8.96	0.05	A					0.0	0.5	8.24	0.04	A			
Stream CD-AB		0.0	~1	5.52	0.02	A					0.0	~1	4.99	0.03	A			
2035 With Dev																		
Stream B-ACD	D15	0.1	0.5	9.50	0.08	A	0.62	A	228 % [Stream B-ACD]	D16	0.1	0.5	10.19	0.10	B	0.63	A	184 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.90	0.01	A					0.0	~1	5.39	0.02	A			
Stream D-ABC		0.1	0.5	8.93	0.05	A					0.0	0.5	8.25	0.04	A			
Stream CD-AB		0.0	~1	5.51	0.02	A					0.0	~1	4.97	0.03	A			
2045 With Dev																		
Stream B-ACD	D17	0.1	0.5	9.65	0.09	A	0.63	A	210 % [Stream B-ACD]	D18	0.1	0.5	10.48	0.12	B	0.66	A	166 % [Stream B-ACD]
Stream AB-CD		0.0	~1	4.87	0.01	A					0.0	~1	5.38	0.02	A			
Stream D-ABC		0.1	0.5	9.13	0.06	A					0.0	0.5	8.31	0.04	A			
Stream CD-AB		0.0	~1	5.50	0.02	A					0.1	~1	4.94	0.04	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	31/03/2026
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	15:45	17:15	15	✓
D3	2029 Without Const. Traffic	AM	ONE HOUR	07:45	09:15	15	✓
D4	2029 Without Const. Traffic	PM	ONE HOUR	15:45	17:15	15	✓
D5	2030 Without Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2030 Without Dev	PM	ONE HOUR	15:45	17:15	15	✓
D7	2035 Without Dev	AM	ONE HOUR	07:45	09:15	15	✓
D8	2035 Without Dev	PM	ONE HOUR	15:45	17:15	15	✓
D9	2045 Without Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2045 Without Dev	PM	ONE HOUR	15:45	17:15	15	✓
D11	2029 With Const. Traffic	AM	ONE HOUR	07:45	09:15	15	✓
D12	2029 With Const. Traffic	PM	ONE HOUR	15:45	17:15	15	✓
D13	2030 With Dev	AM	ONE HOUR	07:45	09:15	15	✓
D14	2030 With Dev	PM	ONE HOUR	15:45	17:15	15	✓
D15	2035 With Dev	AM	ONE HOUR	07:45	09:15	15	✓
D16	2035 With Dev	PM	ONE HOUR	15:45	17:15	15	✓
D17	2045 With Dev	AM	ONE HOUR	07:45	09:15	15	✓
D18	2045 With Dev	PM	ONE HOUR	15:45	17:15	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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	261	Stream B-ACD

Arms

Arms

Arm	Name	Description	Arm type
A	R334 North		Major
B	L1615 East		Minor
C	R334 South		Major
D	Western Arm		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			130.0	✓	0.00
C	5.00			85.0	✓	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)	Visibility to left (m)	Visibility to right (m)
B	One lane	2.20	15	15
D	One lane	2.20	0	0

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-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
AB-D	649	-	-	-	-	-	0.263	0.263	0.263	-	-
B-A	451	0.086	0.216	0.216	-	-	0.136	0.309	-	0.136	0.309
B-CD	583	0.093	0.236	0.236	-	-	-	-	-	-	-
CD-B	623	0.252	0.252	0.252	-	-	-	-	-	-	-
D-AB	574	-	-	-	-	-	0.232	0.232	0.092	-	-
D-C	440	-	0.133	0.302	0.133	0.302	0.211	0.211	0.084	-	-

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	✓	234	100.000
B		ONE HOUR	✓	28	100.000
C		ONE HOUR	✓	155	100.000
D		ONE HOUR	✓	19	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	16	215	3
	B	17	0	10	1
	C	145	6	0	4
	D	7	2	10	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	0.07	9.26	0.1	0.5	A	26	39
A-B						15	22
A-C						197	296
A-D						3	4
AB-CD	0.01	4.96	0.0	~1	A	5	8
AB-C						205	308
D-ABC	0.05	8.73	0.1	0.5	A	17	26
C-D						4	6
C-A						133	200
C-B						6	8
CD-AB	0.02	5.55	0.0	~1	A	9	14
CD-A						137	206

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	21	5	444	0.048	21	0.0	0.0	8.513	A
A-B	12	3			12				
A-C	162	40			162				
A-D	2	0.56			2				
AB-CD	4	0.98	730	0.005	4	0.0	0.0	4.959	A
AB-C	168	42			168				
D-ABC	14	4	453	0.032	14	0.0	0.0	8.206	A
C-D	3	0.75			3				
C-A	109	27			109				
C-B	5	1			5				
CD-AB	7	2	656	0.011	7	0.0	0.0	5.545	A
CD-A	113	28			113				

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	25	6	434	0.058	25	0.0	0.1	8.813	A
A-B	14	4			14				
A-C	193	48			193				
A-D	3	0.67			3				
AB-CD	5	1	746	0.007	5	0.0	0.0	4.856	A
AB-C	201	50			201				
D-ABC	17	4	445	0.038	17	0.0	0.0	8.420	A
C-D	4	0.90			4				
C-A	130	33			130				
C-B	5	1			5				
CD-AB	9	2	664	0.014	9	0.0	0.0	5.499	A
CD-A	135	34			135				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	420	0.073	31	0.1	0.1	9.255	A
A-B	18	4			18				
A-C	237	59			237				
A-D	3	0.83			3				
AB-CD	7	2	769	0.008	6	0.0	0.0	4.721	A
AB-C	246	61			246				
D-ABC	21	5	433	0.048	21	0.0	0.1	8.730	A
C-D	4	1			4				
C-A	160	40			160				
C-B	7	2			7				
CD-AB	12	3	674	0.017	12	0.0	0.0	5.437	A
CD-A	164	41			164				

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	31	8	420	0.073	31	0.1	0.1	9.257	A
A-B	18	4			18				
A-C	237	59			237				
A-D	3	0.83			3				
AB-CD	7	2	769	0.008	7	0.0	0.0	4.720	A
AB-C	246	61			246				
D-ABC	21	5	433	0.048	21	0.1	0.1	8.732	A
C-D	4	1			4				
C-A	160	40			160				
C-B	7	2			7				
CD-AB	12	3	674	0.017	12	0.0	0.0	5.437	A
CD-A	164	41			164				

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	25	6	434	0.058	25	0.1	0.1	8.818	A
A-B	14	4			14				
A-C	193	48			193				
A-D	3	0.67			3				
AB-CD	5	1	746	0.007	5	0.0	0.0	4.856	A
AB-C	201	50			201				
D-ABC	17	4	445	0.038	17	0.1	0.0	8.423	A
C-D	4	0.90			4				
C-A	130	33			130				
C-B	5	1			5				
CD-AB	9	2	664	0.014	9	0.0	0.0	5.502	A
CD-A	135	34			135				

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	21	5	444	0.048	21	0.1	0.1	8.522	A
A-B	12	3			12				
A-C	162	40			162				
A-D	2	0.56			2				
AB-CD	4	0.98	730	0.005	4	0.0	0.0	4.959	A
AB-C	168	42			168				
D-ABC	14	4	453	0.032	14	0.0	0.0	8.212	A
C-D	3	0.75			3				
C-A	109	27			109				
C-B	5	1			5				
CD-AB	7	2	656	0.011	7	0.0	0.0	5.547	A
CD-A	113	28			113				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.06	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.08	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.60	A

Junction Network Options

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

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	15:45	17:15	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	✓	184	100.000
B		ONE HOUR	✓	32	100.000
C		ONE HOUR	✓	296	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	24	154	6
	B	22	0	7	3
	C	271	9	0	16
	D	8	4	3	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	0.09	9.74	0.1	0.5	A	29	44
A-B						22	33
A-C						141	212
A-D						6	8
AB-CD	0.02	5.42	0.0	~1	A	11	16
AB-C						145	218
D-ABC	0.04	8.12	0.0	0.5	A	14	21
C-D						15	22
C-A						249	373
C-B						8	12
CD-AB	0.03	5.03	0.0	~1	A	18	27
CD-A						250	374

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	24	6	431	0.056	24	0.0	0.1	8.845	A
A-B	18	5			18				
A-C	116	29			116				
A-D	5	1			5				
AB-CD	8	2	672	0.012	8	0.0	0.0	5.421	A
AB-C	120	30			120				
D-ABC	11	3	486	0.023	11	0.0	0.0	7.584	A
C-D	12	3			12				
C-A	204	51			204				
C-B	7	2			7				
CD-AB	14	3	730	0.019	14	0.0	0.0	5.027	A
CD-A	206	52			206				

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	29	7	420	0.069	29	0.1	0.1	9.201	A
A-B	22	5			22				
A-C	138	35			138				
A-D	5	1			5				
AB-CD	10	3	678	0.015	10	0.0	0.0	5.394	A
AB-C	143	36			143				
D-ABC	13	3	475	0.028	13	0.0	0.0	7.802	A
C-D	14	4			14				
C-A	244	61			244				
C-B	8	2			8				
CD-AB	18	4	751	0.023	18	0.0	0.0	4.905	A
CD-A	245	61			245				

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	35	9	405	0.087	35	0.1	0.1	9.731	A
A-B	26	7			26				
A-C	170	42			170				
A-D	7	2			7				
AB-CD	13	3	685	0.020	13	0.0	0.0	5.355	A
AB-C	174	43			174				
D-ABC	17	4	460	0.036	16	0.0	0.0	8.120	A
C-D	18	4			18				
C-A	298	75			298				
C-B	10	2			10				
CD-AB	24	6	782	0.030	24	0.0	0.0	4.748	A
CD-A	298	74			298				

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	35	9	405	0.087	35	0.1	0.1	9.735	A
A-B	26	7			26				
A-C	170	42			170				
A-D	7	2			7				
AB-CD	13	3	685	0.020	13	0.0	0.0	5.356	A
AB-C	174	43			174				
D-ABC	17	4	460	0.036	17	0.0	0.0	8.120	A
C-D	18	4			18				
C-A	298	75			298				
C-B	10	2			10				
CD-AB	24	6	782	0.030	24	0.0	0.0	4.748	A
CD-A	298	74			298				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	29	7	420	0.069	29	0.1	0.1	9.209	A
A-B	22	5			22				
A-C	138	35			138				
A-D	5	1			5				
AB-CD	10	3	678	0.015	10	0.0	0.0	5.397	A
AB-C	143	36			143				
D-ABC	13	3	475	0.028	14	0.0	0.0	7.803	A
C-D	14	4			14				
C-A	244	61			244				
C-B	8	2			8				
CD-AB	18	4	751	0.023	18	0.0	0.0	4.906	A
CD-A	245	61			245				

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	24	6	431	0.056	24	0.1	0.1	8.858	A
A-B	18	5			18				
A-C	116	29			116				
A-D	5	1			5				
AB-CD	8	2	672	0.012	8	0.0	0.0	5.422	A
AB-C	120	30			120				
D-ABC	11	3	486	0.023	11	0.0	0.0	7.591	A
C-D	12	3			12				
C-A	204	51			204				
C-B	7	2			7				
CD-AB	14	3	730	0.019	14	0.0	0.0	5.030	A
CD-A	206	52			206				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	239	Stream B-ACD

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	✓	249	100.000
B		ONE HOUR	✓	29	100.000
C		ONE HOUR	✓	166	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	17	229	3
	B	18	0	10	1
	C	155	7	0	4
	D	7	2	11	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	0.08	9.45	0.1	0.5	A	27	40
A-B						16	23
A-C						210	315
A-D						3	4
AB-CD	0.01	4.93	0.0	~1	A	5	8
AB-C						218	327
D-ABC	0.05	8.93	0.1	0.5	A	18	28
C-D						4	6
C-A						142	213
C-B						6	10
CD-AB	0.02	5.53	0.0	~1	A	11	16
CD-A						146	219

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	22	5	438	0.050	22	0.0	0.1	8.634	A
A-B	13	3			13				
A-C	172	43			172				
A-D	2	0.56			2				
AB-CD	4	0.99	735	0.005	4	0.0	0.0	4.926	A
AB-C	179	45			179				
D-ABC	15	4	446	0.034	15	0.0	0.0	8.339	A
C-D	3	0.75			3				
C-A	117	29			117				
C-B	5	1			5				
CD-AB	8	2	659	0.013	8	0.0	0.0	5.533	A
CD-A	120	30			120				

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	26	7	428	0.061	26	0.1	0.1	8.962	A
A-B	15	4			15				
A-C	206	51			206				
A-D	3	0.67			3				
AB-CD	5	1	752	0.007	5	0.0	0.0	4.818	A
AB-C	213	53			213				
D-ABC	18	4	438	0.041	18	0.0	0.0	8.579	A
C-D	4	0.90			4				
C-A	139	35			139				
C-B	6	2			6				
CD-AB	10	3	667	0.016	10	0.0	0.0	5.485	A
CD-A	143	36			143				

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	32	8	413	0.077	32	0.1	0.1	9.447	A
A-B	19	5			19				
A-C	252	63			252				
A-D	3	0.83			3				
AB-CD	7	2	777	0.009	7	0.0	0.0	4.675	A
AB-C	261	65			261				
D-ABC	22	6	425	0.052	22	0.0	0.1	8.925	A
C-D	4	1			4				
C-A	171	43			171				
C-B	8	2			8				
CD-AB	13	3	678	0.020	13	0.0	0.0	5.420	A
CD-A	175	44			175				

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	32	8	413	0.077	32	0.1	0.1	9.452	A
A-B	19	5			19				
A-C	252	63			252				
A-D	3	0.83			3				
AB-CD	7	2	777	0.009	7	0.0	0.0	4.677	A
AB-C	261	65			261				
D-ABC	22	6	425	0.052	22	0.1	0.1	8.927	A
C-D	4	1			4				
C-A	171	43			171				
C-B	8	2			8				
CD-AB	13	3	678	0.020	13	0.0	0.0	5.422	A
CD-A	175	44			175				

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	26	7	428	0.061	26	0.1	0.1	8.969	A
A-B	15	4			15				
A-C	206	51			206				
A-D	3	0.67			3				
AB-CD	5	1	752	0.007	5	0.0	0.0	4.818	A
AB-C	213	53			213				
D-ABC	18	4	438	0.041	18	0.1	0.0	8.582	A
C-D	4	0.90			4				
C-A	139	35			139				
C-B	6	2			6				
CD-AB	10	3	667	0.016	10	0.0	0.0	5.485	A
CD-A	143	36			143				

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	22	5	438	0.050	22	0.1	0.1	8.647	A
A-B	13	3			13				
A-C	172	43			172				
A-D	2	0.56			2				
AB-CD	4	1.00	735	0.005	4	0.0	0.0	4.925	A
AB-C	179	45			179				
D-ABC	15	4	446	0.034	15	0.0	0.0	8.346	A
C-D	3	0.75			3				
C-A	117	29			117				
C-B	5	1			5				
CD-AB	8	2	659	0.013	8	0.0	0.0	5.535	A
CD-A	120	30			120				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.06	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.08	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.08	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.61	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	200	Stream B-ACD

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	15:45	17:15	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	✓	196	100.000
B		ONE HOUR	✓	35	100.000
C		ONE HOUR	✓	314	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	26	164	6
	B	24	0	8	3
	C	287	10	0	17
	D	8	4	3	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	0.10	9.95	0.1	0.5	A	32	48
A-B						24	36
A-C						150	226
A-D						6	8
AB-CD	0.02	5.41	0.0	~1	A	11	16
AB-C						155	233
D-ABC	0.04	8.21	0.0	0.5	A	14	21
C-D						16	23
C-A						263	395
C-B						9	14
CD-AB	0.03	5.00	0.0	~1	A	20	30
CD-A						263	395

Main Results for each time segment

15:45 - 16:00

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	26	7	428	0.062	26	0.0	0.1	8.963	A
A-B	20	5			20				
A-C	123	31			123				
A-D	5	1			5				
AB-CD	8	2	674	0.012	8	0.0	0.0	5.404	A
AB-C	128	32			128				
D-ABC	11	3	482	0.023	11	0.0	0.0	7.639	A
C-D	13	3			13				
C-A	216	54			216				
C-B	8	2			8				
CD-AB	15	4	736	0.020	15	0.0	0.0	4.994	A
CD-A	217	54			217				

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	31	8	416	0.076	31	0.1	0.1	9.357	A
A-B	23	6			23				
A-C	147	37			147				
A-D	5	1			5				
AB-CD	10	3	680	0.015	10	0.0	0.0	5.373	A
AB-C	152	38			152				
D-ABC	13	3	471	0.029	13	0.0	0.0	7.871	A
C-D	15	4			15				
C-A	258	65			258				
C-B	9	2			9				
CD-AB	19	5	759	0.026	19	0.0	0.0	4.868	A
CD-A	258	65			258				

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	39	10	400	0.096	38	0.1	0.1	9.948	A
A-B	29	7			29				
A-C	181	45			181				
A-D	7	2			7				
AB-CD	14	3	689	0.020	14	0.0	0.0	5.329	A
AB-C	186	46			186				
D-ABC	17	4	455	0.036	16	0.0	0.0	8.212	A
C-D	19	5			19				
C-A	316	79			316				
C-B	11	3			11				
CD-AB	26	7	791	0.033	26	0.0	0.0	4.706	A
CD-A	314	79			314				

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	39	10	400	0.096	39	0.1	0.1	9.953	A
A-B	29	7			29				
A-C	181	45			181				
A-D	7	2			7				
AB-CD	14	3	689	0.020	14	0.0	0.0	5.331	A
AB-C	186	46			186				
D-ABC	17	4	455	0.036	17	0.0	0.0	8.213	A
C-D	19	5			19				
C-A	316	79			316				
C-B	11	3			11				
CD-AB	26	7	791	0.033	26	0.0	0.0	4.707	A
CD-A	314	79			314				

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	31	8	416	0.076	32	0.1	0.1	9.366	A
A-B	23	6			23				
A-C	147	37			147				
A-D	5	1			5				
AB-CD	10	3	680	0.015	11	0.0	0.0	5.373	A
AB-C	152	38			152				
D-ABC	13	3	471	0.029	14	0.0	0.0	7.874	A
C-D	15	4			15				
C-A	258	65			258				
C-B	9	2			9				
CD-AB	19	5	759	0.026	19	0.0	0.0	4.869	A
CD-A	258	65			258				

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	26	7	427	0.062	26	0.1	0.1	8.977	A
A-B	20	5			20				
A-C	123	31			123				
A-D	5	1			5				
AB-CD	8	2	674	0.012	8	0.0	0.0	5.406	A
AB-C	128	32			128				
D-ABC	11	3	482	0.023	11	0.0	0.0	7.646	A
C-D	13	3			13				
C-A	216	54			216				
C-B	8	2			8				
CD-AB	15	4	736	0.021	15	0.0	0.0	4.997	A
CD-A	218	54			218				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.08	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.11	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.11	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	235	Stream B-ACD

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	✓	253	100.000
B		ONE HOUR	✓	30	100.000
C		ONE HOUR	✓	169	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	17	233	3
	B	18	0	11	1
	C	158	7	0	4
	D	7	2	11	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	0.08	9.44	0.1	0.5	A	28	41
A-B						16	23
A-C						214	321
A-D						3	4
AB-CD	0.01	4.91	0.0	~1	A	5	8
AB-C						222	333
D-ABC	0.05	8.96	0.1	0.5	A	18	28
C-D						4	6
C-A						145	217
C-B						6	10
CD-AB	0.02	5.53	0.0	~1	A	11	16
CD-A						149	223

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	23	6	440	0.051	22	0.0	0.1	8.611	A
A-B	13	3			13				
A-C	175	44			175				
A-D	2	0.56			2				
AB-CD	4	1	737	0.005	4	0.0	0.0	4.913	A
AB-C	183	46			183				
D-ABC	15	4	446	0.034	15	0.0	0.0	8.356	A
C-D	3	0.75			3				
C-A	119	30			119				
C-B	5	1			5				
CD-AB	8	2	660	0.013	8	0.0	0.0	5.526	A
CD-A	123	31			123				

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	27	7	429	0.063	27	0.1	0.1	8.944	A
A-B	15	4			15				
A-C	209	52			209				
A-D	3	0.67			3				
AB-CD	5	1	754	0.007	5	0.0	0.0	4.803	A
AB-C	218	54			218				
D-ABC	18	4	437	0.041	18	0.0	0.0	8.600	A
C-D	4	0.90			4				
C-A	142	36			142				
C-B	6	2			6				
CD-AB	10	3	668	0.016	10	0.0	0.0	5.477	A
CD-A	146	37			146				

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	33	8	414	0.080	33	0.1	0.1	9.438	A
A-B	19	5			19				
A-C	257	64			257				
A-D	3	0.83			3				
AB-CD	7	2	779	0.009	7	0.0	0.0	4.658	A
AB-C	266	67			266				
D-ABC	22	6	424	0.052	22	0.0	0.1	8.954	A
C-D	4	1			4				
C-A	174	43			174				
C-B	8	2			8				
CD-AB	14	3	679	0.020	14	0.0	0.0	5.410	A
CD-A	178	45			178				

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	33	8	414	0.080	33	0.1	0.1	9.442	A
A-B	19	5			19				
A-C	257	64			257				
A-D	3	0.83			3				
AB-CD	7	2	779	0.009	7	0.0	0.0	4.660	A
AB-C	266	67			266				
D-ABC	22	6	424	0.052	22	0.1	0.1	8.955	A
C-D	4	1			4				
C-A	174	43			174				
C-B	8	2			8				
CD-AB	14	3	679	0.020	14	0.0	0.0	5.410	A
CD-A	178	45			178				

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	27	7	429	0.063	27	0.1	0.1	8.949	A
A-B	15	4			15				
A-C	209	52			209				
A-D	3	0.67			3				
AB-CD	5	1	754	0.007	5	0.0	0.0	4.803	A
AB-C	218	54			218				
D-ABC	18	4	437	0.041	18	0.1	0.0	8.602	A
C-D	4	0.90			4				
C-A	142	36			142				
C-B	6	2			6				
CD-AB	10	3	668	0.016	10	0.0	0.0	5.477	A
CD-A	146	37			146				

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	23	6	440	0.051	23	0.1	0.1	8.622	A
A-B	13	3			13				
A-C	175	44			175				
A-D	2	0.56			2				
AB-CD	4	1	737	0.005	4	0.0	0.0	4.913	A
AB-C	183	46			183				
D-ABC	15	4	446	0.034	15	0.0	0.0	8.364	A
C-D	3	0.75			3				
C-A	119	30			119				
C-B	5	1			5				
CD-AB	8	2	660	0.013	8	0.0	0.0	5.526	A
CD-A	123	31			123				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	193	Stream B-ACD

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	15:45	17:15	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	✓	200	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	318	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	27	167	6
	B	25	0	8	3
	C	291	10	0	17
	D	8	4	3	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	0.10	10.06	0.1	0.5	B	33	50
A-B						25	37
A-C						153	230
A-D						6	8
AB-CD	0.02	5.40	0.0	~1	A	11	16
AB-C						158	237
D-ABC	0.04	8.23	0.0	0.5	A	14	21
C-D						16	23
C-A						267	401
C-B						9	14
CD-AB	0.03	4.99	0.0	~1	A	20	31
CD-A						267	400

Main Results for each time segment

15:45 - 16:00

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	27	7	425	0.064	27	0.0	0.1	9.028	A
A-B	20	5			20				
A-C	126	31			126				
A-D	5	1			5				
AB-CD	8	2	675	0.012	8	0.0	0.0	5.398	A
AB-C	130	33			130				
D-ABC	11	3	482	0.023	11	0.0	0.0	7.652	A
C-D	13	3			13				
C-A	219	55			219				
C-B	8	2			8				
CD-AB	15	4	737	0.021	15	0.0	0.0	4.985	A
CD-A	220	55			220				

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	32	8	414	0.078	32	0.1	0.1	9.437	A
A-B	24	6			24				
A-C	150	38			150				
A-D	5	1			5				
AB-CD	11	3	681	0.015	11	0.0	0.0	5.366	A
AB-C	155	39			155				
D-ABC	13	3	470	0.029	13	0.0	0.0	7.888	A
C-D	15	4			15				
C-A	262	65			262				
C-B	9	2			9				
CD-AB	19	5	760	0.026	19	0.0	0.0	4.858	A
CD-A	262	65			262				

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	40	10	398	0.100	40	0.1	0.1	10.053	B
A-B	30	7			30				
A-C	184	46			184				
A-D	7	2			7				
AB-CD	14	3	690	0.020	14	0.0	0.0	5.320	A
AB-C	189	47			189				
D-ABC	17	4	454	0.036	16	0.0	0.0	8.235	A
C-D	19	5			19				
C-A	320	80			320				
C-B	11	3			11				
CD-AB	26	7	793	0.033	26	0.0	0.0	4.694	A
CD-A	318	80			318				

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	40	10	398	0.100	40	0.1	0.1	10.057	B
A-B	30	7			30				
A-C	184	46			184				
A-D	7	2			7				
AB-CD	14	3	690	0.020	14	0.0	0.0	5.320	A
AB-C	189	47			189				
D-ABC	17	4	454	0.036	17	0.0	0.0	8.235	A
C-D	19	5			19				
C-A	320	80			320				
C-B	11	3			11				
CD-AB	26	7	793	0.033	26	0.0	0.0	4.697	A
CD-A	318	80			318				

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	32	8	414	0.078	32	0.1	0.1	9.446	A
A-B	24	6			24				
A-C	150	38			150				
A-D	5	1			5				
AB-CD	11	3	681	0.015	11	0.0	0.0	5.368	A
AB-C	155	39			155				
D-ABC	13	3	470	0.029	14	0.0	0.0	7.889	A
C-D	15	4			15				
C-A	262	65			262				
C-B	9	2			9				
CD-AB	20	5	760	0.026	20	0.0	0.0	4.861	A
CD-A	262	65			262				

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	27	7	425	0.064	27	0.1	0.1	9.042	A
A-B	20	5			20				
A-C	126	31			126				
A-D	5	1			5				
AB-CD	8	2	675	0.012	8	0.0	0.0	5.398	A
AB-C	130	33			130				
D-ABC	11	3	481	0.023	11	0.0	0.0	7.658	A
C-D	13	3			13				
C-A	219	55			219				
C-B	8	2			8				
CD-AB	15	4	737	0.021	15	0.0	0.0	4.986	A
CD-A	220	55			220				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.08	0.03	0.26	0.47	0.50			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.11	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.11	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.09	0.00	0.00	0.09	0.09			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	229	Stream B-ACD

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	✓	259	100.000
B		ONE HOUR	✓	30	100.000
C		ONE HOUR	✓	174	100.000
D		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	18	238	3
	B	18	0	11	1
	C	162	7	0	5
	D	8	2	11	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	0.08	9.49	0.1	0.5	A	28	41
A-B						17	25
A-C						218	328
A-D						3	4
AB-CD	0.01	4.90	0.0	~1	A	5	8
AB-C						227	340
D-ABC	0.05	8.92	0.1	0.5	A	19	29
C-D						5	7
C-A						149	223
C-B						6	10
CD-AB	0.02	5.52	0.0	~1	A	11	16
CD-A						153	230

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	23	6	439	0.051	22	0.0	0.1	8.638	A
A-B	14	3			14				
A-C	179	45			179				
A-D	2	0.56			2				
AB-CD	4	1	738	0.005	4	0.0	0.0	4.902	A
AB-C	186	47			186				
D-ABC	16	4	448	0.035	16	0.0	0.0	8.316	A
C-D	4	0.94			4				
C-A	122	30			122				
C-B	5	1			5				
CD-AB	8	2	661	0.013	8	0.0	0.0	5.514	A
CD-A	126	32			126				

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	27	7	428	0.063	27	0.1	0.1	8.979	A
A-B	16	4			16				
A-C	214	53			214				
A-D	3	0.67			3				
AB-CD	5	1	756	0.007	5	0.0	0.0	4.791	A
AB-C	222	56			222				
D-ABC	19	5	439	0.043	19	0.0	0.0	8.563	A
C-D	4	1			4				
C-A	146	36			146				
C-B	6	2			6				
CD-AB	10	3	669	0.016	10	0.0	0.0	5.462	A
CD-A	150	38			150				

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	33	8	412	0.080	33	0.1	0.1	9.486	A
A-B	20	5			20				
A-C	262	66			262				
A-D	3	0.83			3				
AB-CD	7	2	782	0.009	7	0.0	0.0	4.644	A
AB-C	272	68			272				
D-ABC	23	6	426	0.054	23	0.0	0.1	8.922	A
C-D	6	1			6				
C-A	178	45			178				
C-B	8	2			8				
CD-AB	14	3	681	0.020	14	0.0	0.0	5.392	A
CD-A	183	46			183				

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	33	8	412	0.080	33	0.1	0.1	9.490	A
A-B	20	5			20				
A-C	262	66			262				
A-D	3	0.83			3				
AB-CD	7	2	782	0.009	7	0.0	0.0	4.645	A
AB-C	272	68			272				
D-ABC	23	6	426	0.054	23	0.1	0.1	8.924	A
C-D	6	1			6				
C-A	178	45			178				
C-B	8	2			8				
CD-AB	14	3	681	0.020	14	0.0	0.0	5.392	A
CD-A	183	46			183				

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	27	7	428	0.063	27	0.1	0.1	8.986	A
A-B	16	4			16				
A-C	214	53			214				
A-D	3	0.67			3				
AB-CD	5	1	756	0.007	5	0.0	0.0	4.791	A
AB-C	222	56			222				
D-ABC	19	5	439	0.043	19	0.1	0.0	8.567	A
C-D	4	1			4				
C-A	146	36			146				
C-B	6	2			6				
CD-AB	11	3	669	0.016	11	0.0	0.0	5.463	A
CD-A	150	38			150				

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	23	6	439	0.051	23	0.1	0.1	8.649	A
A-B	14	3			14				
A-C	179	45			179				
A-D	2	0.56			2				
AB-CD	4	1	738	0.005	4	0.0	0.0	4.904	A
AB-C	186	47			186				
D-ABC	16	4	448	0.035	16	0.0	0.0	8.325	A
C-D	4	0.94			4				
C-A	122	30			122				
C-B	5	1			5				
CD-AB	8	2	661	0.013	8	0.0	0.0	5.516	A
CD-A	126	32			126				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.63	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	185	Stream B-ACD

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	15:45	17:15	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	✓	205	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	325	100.000
D		ONE HOUR	✓	16	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	28	171	6
	B	26	0	8	3
	C	297	10	0	18
	D	9	4	3	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	0.10	10.18	0.1	0.5	B	34	51
A-B						26	39
A-C						157	235
A-D						6	8
AB-CD	0.02	5.39	0.0	~1	A	11	16
AB-C						162	242
D-ABC	0.04	8.24	0.0	0.5	A	15	22
C-D						17	25
C-A						273	409
C-B						9	14
CD-AB	0.03	4.97	0.0	~1	A	21	31
CD-A						273	410

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	28	7	423	0.066	28	0.0	0.1	9.100	A
A-B	21	5			21				
A-C	129	32			129				
A-D	5	1			5				
AB-CD	8	2	676	0.012	8	0.0	0.0	5.392	A
AB-C	133	33			133				
D-ABC	12	3	483	0.025	12	0.0	0.0	7.647	A
C-D	14	3			14				
C-A	224	56			224				
C-B	8	2			8				
CD-AB	15	4	740	0.021	15	0.0	0.0	4.967	A
CD-A	226	56			226				

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	33	8	411	0.081	33	0.1	0.1	9.530	A
A-B	25	6			25				
A-C	154	38			154				
A-D	5	1			5				
AB-CD	11	3	682	0.016	11	0.0	0.0	5.359	A
AB-C	158	40			158				
D-ABC	14	4	471	0.031	14	0.0	0.0	7.889	A
C-D	16	4			16				
C-A	267	67			267				
C-B	9	2			9				
CD-AB	20	5	764	0.026	20	0.0	0.0	4.838	A
CD-A	268	67			268				

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	41	10	394	0.103	41	0.1	0.1	10.173	B
A-B	31	8			31				
A-C	188	47			188				
A-D	7	2			7				
AB-CD	14	3	692	0.020	14	0.0	0.0	5.311	A
AB-C	193	48			193				
D-ABC	18	4	454	0.039	18	0.0	0.0	8.245	A
C-D	20	5			20				
C-A	327	82			327				
C-B	11	3			11				
CD-AB	27	7	797	0.034	27	0.0	0.0	4.671	A
CD-A	326	81			326				

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	41	10	394	0.103	41	0.1	0.1	10.180	B
A-B	31	8			31				
A-C	188	47			188				
A-D	7	2			7				
AB-CD	14	3	692	0.020	14	0.0	0.0	5.313	A
AB-C	193	48			193				
D-ABC	18	4	454	0.039	18	0.0	0.0	8.245	A
C-D	20	5			20				
C-A	327	82			327				
C-B	11	3			11				
CD-AB	27	7	797	0.034	27	0.0	0.0	4.674	A
CD-A	326	81			326				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	33	8	411	0.081	33	0.1	0.1	9.537	A
A-B	25	6			25				
A-C	154	38			154				
A-D	5	1			5				
AB-CD	11	3	682	0.016	11	0.0	0.0	5.359	A
AB-C	158	40			158				
D-ABC	14	4	471	0.031	14	0.0	0.0	7.890	A
C-D	16	4			16				
C-A	267	67			267				
C-B	9	2			9				
CD-AB	20	5	764	0.026	20	0.0	0.0	4.839	A
CD-A	268	67			268				

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	28	7	423	0.066	28	0.1	0.1	9.119	A
A-B	21	5			21				
A-C	129	32			129				
A-D	5	1			5				
AB-CD	8	2	676	0.013	8	0.0	0.0	5.392	A
AB-C	133	33			133				
D-ABC	12	3	483	0.025	12	0.0	0.0	7.654	A
C-D	14	3			14				
C-A	224	56			224				
C-B	8	2			8				
CD-AB	15	4	740	0.021	15	0.0	0.0	4.968	A
CD-A	226	56			226				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.09	0.03	0.26	0.46	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.11	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.11	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.09	0.00	0.00	0.09	0.09			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.63	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	211	Stream B-ACD

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	✓	273	100.000
B		ONE HOUR	✓	32	100.000
C		ONE HOUR	✓	185	100.000
D		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	19	251	3
	B	19	0	12	1
	C	172	8	0	5
	D	8	2	12	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	0.09	9.64	0.1	0.5	A	29	44
A-B						17	26
A-C						230	345
A-D						3	4
AB-CD	0.01	4.87	0.0	~1	A	5	8
AB-C						240	359
D-ABC	0.06	9.12	0.1	0.5	A	20	30
C-D						5	7
C-A						158	237
C-B						7	11
CD-AB	0.02	5.50	0.0	~1	A	12	18
CD-A						162	243

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	24	6	437	0.055	24	0.0	0.1	8.719	A
A-B	14	4			14				
A-C	189	47			189				
A-D	2	0.56			2				
AB-CD	4	1	743	0.006	4	0.0	0.0	4.870	A
AB-C	197	49			197				
D-ABC	17	4	442	0.037	16	0.0	0.0	8.450	A
C-D	4	0.94			4				
C-A	129	32			129				
C-B	6	2			6				
CD-AB	9	2	664	0.014	9	0.0	0.0	5.500	A
CD-A	134	33			134				

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	29	7	425	0.068	29	0.1	0.1	9.088	A
A-B	17	4			17				
A-C	226	56			226				
A-D	3	0.67			3				
AB-CD	5	1	762	0.007	5	0.0	0.0	4.753	A
AB-C	235	59			235				
D-ABC	20	5	432	0.046	20	0.0	0.0	8.722	A
C-D	4	1			4				
C-A	155	39			155				
C-B	7	2			7				
CD-AB	12	3	673	0.018	12	0.0	0.0	5.446	A
CD-A	159	40			159				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	408	0.086	35	0.1	0.1	9.641	A
A-B	21	5			21				
A-C	276	69			276				
A-D	3	0.83			3				
AB-CD	7	2	789	0.009	7	0.0	0.0	4.600	A
AB-C	287	72			287				
D-ABC	24	6	419	0.058	24	0.0	0.1	9.121	A
C-D	6	1			6				
C-A	189	47			189				
C-B	9	2			9				
CD-AB	16	4	685	0.023	15	0.0	0.0	5.373	A
CD-A	194	48			194				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	408	0.086	35	0.1	0.1	9.645	A
A-B	21	5			21				
A-C	276	69			276				
A-D	3	0.83			3				
AB-CD	7	2	790	0.009	7	0.0	0.0	4.599	A
AB-C	287	72			287				
D-ABC	24	6	419	0.058	24	0.1	0.1	9.123	A
C-D	6	1			6				
C-A	189	47			189				
C-B	9	2			9				
CD-AB	16	4	685	0.023	16	0.0	0.0	5.373	A
CD-A	194	48			194				

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	29	7	425	0.068	29	0.1	0.1	9.094	A
A-B	17	4			17				
A-C	226	56			226				
A-D	3	0.67			3				
AB-CD	5	1	763	0.007	5	0.0	0.0	4.753	A
AB-C	235	59			235				
D-ABC	20	5	432	0.046	20	0.1	0.0	8.725	A
C-D	4	1			4				
C-A	155	39			155				
C-B	7	2			7				
CD-AB	12	3	673	0.018	12	0.0	0.0	5.447	A
CD-A	159	40			159				

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	24	6	436	0.055	24	0.1	0.1	8.731	A
A-B	14	4			14				
A-C	189	47			189				
A-D	2	0.56			2				
AB-CD	4	1	743	0.006	4	0.0	0.0	4.869	A
AB-C	197	49			197				
D-ABC	17	4	442	0.037	17	0.0	0.0	8.457	A
C-D	4	0.94			4				
C-A	129	32			129				
C-B	6	2			6				
CD-AB	9	2	664	0.014	9	0.0	0.0	5.500	A
CD-A	134	33			134				

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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.67	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	166	Stream B-ACD

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	15:45	17:15	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	✓	217	100.000
B		ONE HOUR	✓	41	100.000
C		ONE HOUR	✓	340	100.000
D		ONE HOUR	✓	17	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	30	180	7
	B	29	0	9	3
	C	310	11	0	19
	D	10	4	3	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	0.12	10.47	0.1	0.5	B	38	56
A-B						28	41
A-C						165	248
A-D						6	10
AB-CD	0.02	5.38	0.0	~1	A	12	19
AB-C						170	255
D-ABC	0.04	8.31	0.0	0.5	A	16	23
C-D						17	26
C-A						284	427
C-B						10	15
CD-AB	0.04	4.94	0.1	~1	A	23	34
CD-A						285	427

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	419	0.074	31	0.0	0.1	9.260	A
A-B	23	6			23				
A-C	136	34			136				
A-D	5	1			5				
AB-CD	9	2	678	0.014	9	0.0	0.0	5.382	A
AB-C	140	35			140				
D-ABC	13	3	482	0.027	13	0.0	0.0	7.674	A
C-D	14	4			14				
C-A	233	58			233				
C-B	8	2			8				
CD-AB	17	4	745	0.022	17	0.0	0.0	4.942	A
CD-A	235	59			235				

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	37	9	406	0.091	37	0.1	0.1	9.737	A
A-B	27	7			27				
A-C	162	40			162				
A-D	6	2			6				
AB-CD	12	3	685	0.017	12	0.0	0.0	5.346	A
AB-C	167	42			167				
D-ABC	15	4	469	0.033	15	0.0	0.0	7.929	A
C-D	17	4			17				
C-A	279	70			279				
C-B	10	2			10				
CD-AB	22	5	770	0.028	22	0.0	0.0	4.809	A
CD-A	280	70			280				

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	45	11	389	0.116	45	0.1	0.1	10.466	B
A-B	33	8			33				
A-C	198	50			198				
A-D	8	2			8				
AB-CD	16	4	695	0.023	16	0.0	0.0	5.296	A
AB-C	203	51			203				
D-ABC	19	5	452	0.041	19	0.0	0.0	8.306	A
C-D	21	5			21				
C-A	341	85			341				
C-B	12	3			12				
CD-AB	29	7	805	0.037	29	0.0	0.0	4.640	A
CD-A	339	85			339				

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	45	11	389	0.116	45	0.1	0.1	10.473	B
A-B	33	8			33				
A-C	198	50			198				
A-D	8	2			8				
AB-CD	16	4	695	0.023	16	0.0	0.0	5.296	A
AB-C	203	51			203				
D-ABC	19	5	452	0.041	19	0.0	0.0	8.306	A
C-D	21	5			21				
C-A	341	85			341				
C-B	12	3			12				
CD-AB	29	7	805	0.037	29	0.1	0.1	4.640	A
CD-A	339	85			339				

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	37	9	406	0.091	37	0.1	0.1	9.750	A
A-B	27	7			27				
A-C	162	40			162				
A-D	6	2			6				
AB-CD	12	3	685	0.017	12	0.0	0.0	5.347	A
AB-C	167	42			167				
D-ABC	15	4	469	0.033	15	0.0	0.0	7.931	A
C-D	17	4			17				
C-A	279	70			279				
C-B	10	2			10				
CD-AB	22	5	770	0.028	22	0.1	0.0	4.812	A
CD-A	280	70			280				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	419	0.074	31	0.1	0.1	9.280	A
A-B	23	6			23				
A-C	136	34			136				
A-D	5	1			5				
AB-CD	10	2	678	0.014	10	0.0	0.0	5.384	A
AB-C	140	35			140				
D-ABC	13	3	482	0.027	13	0.0	0.0	7.678	A
C-D	14	4			14				
C-A	233	58			233				
C-B	8	2			8				
CD-AB	17	4	745	0.022	17	0.0	0.0	4.944	A
CD-A	235	59			235				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			N/A	N/A

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	0.10	0.00	0.00	0.10	0.10			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.13	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.03	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.13	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.03	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.10	0.00	0.00	0.10	0.10			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.60	A

Junction Network Options

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

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	✓	265	100.000
B		ONE HOUR	✓	29	100.000
C		ONE HOUR	✓	172	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	17	245	3
	B	18	0	10	1
	C	161	7	0	4
	D	7	2	11	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	0.08	9.57	0.1	0.5	A	27	40
A-B						16	23
A-C						225	337
A-D						3	4
AB-CD	0.01	4.88	0.0	~1	A	5	8
AB-C						232	348
D-ABC	0.05	9.00	0.1	0.5	A	18	28
C-D						4	6
C-A						148	222
C-B						6	10
CD-AB	0.02	5.53	0.0	~1	A	11	16
CD-A						152	227

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	22	5	435	0.050	22	0.0	0.1	8.701	A
A-B	13	3			13				
A-C	184	46			184				
A-D	2	0.56			2				
AB-CD	4	1	742	0.005	4	0.0	0.0	4.880	A
AB-C	191	48			191				
D-ABC	15	4	444	0.034	15	0.0	0.0	8.381	A
C-D	3	0.75			3				
C-A	121	30			121				
C-B	5	1			5				
CD-AB	8	2	659	0.013	8	0.0	0.0	5.531	A
CD-A	125	31			125				

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	26	7	424	0.062	26	0.1	0.1	9.049	A
A-B	15	4			15				
A-C	220	55			220				
A-D	3	0.67			3				
AB-CD	5	1	760	0.007	5	0.0	0.0	4.766	A
AB-C	228	57			228				
D-ABC	18	4	435	0.041	18	0.0	0.0	8.632	A
C-D	4	0.90			4				
C-A	145	36			145				
C-B	6	2			6				
CD-AB	10	3	667	0.016	10	0.0	0.0	5.483	A
CD-A	149	37			149				

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	32	8	408	0.078	32	0.1	0.1	9.566	A
A-B	19	5			19				
A-C	270	67			270				
A-D	3	0.83			3				
AB-CD	7	2	787	0.009	7	0.0	0.0	4.615	A
AB-C	278	70			278				
D-ABC	22	6	422	0.052	22	0.0	0.1	8.997	A
C-D	4	1			4				
C-A	177	44			177				
C-B	8	2			8				
CD-AB	14	3	678	0.020	14	0.0	0.0	5.416	A
CD-A	181	45			181				

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	32	8	408	0.078	32	0.1	0.1	9.570	A
A-B	19	5			19				
A-C	270	67			270				
A-D	3	0.83			3				
AB-CD	7	2	787	0.009	7	0.0	0.0	4.617	A
AB-C	278	70			278				
D-ABC	22	6	422	0.052	22	0.1	0.1	8.999	A
C-D	4	1			4				
C-A	177	44			177				
C-B	8	2			8				
CD-AB	14	3	678	0.020	14	0.0	0.0	5.417	A
CD-A	181	45			181				

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	26	7	424	0.062	26	0.1	0.1	9.054	A
A-B	15	4			15				
A-C	220	55			220				
A-D	3	0.67			3				
AB-CD	5	1	760	0.007	5	0.0	0.0	4.768	A
AB-C	228	57			228				
D-ABC	18	4	435	0.041	18	0.1	0.0	8.636	A
C-D	4	0.90			4				
C-A	145	36			145				
C-B	6	2			6				
CD-AB	10	3	667	0.016	11	0.0	0.0	5.485	A
CD-A	149	37			149				

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	22	5	435	0.050	22	0.1	0.1	8.712	A
A-B	13	3			13				
A-C	184	46			184				
A-D	2	0.56			2				
AB-CD	4	1	742	0.005	4	0.0	0.0	4.882	A
AB-C	191	48			191				
D-ABC	15	4	444	0.034	15	0.0	0.0	8.390	A
C-D	3	0.75			3				
C-A	121	30			121				
C-B	5	1			5				
CD-AB	8	2	659	0.013	8	0.0	0.0	5.533	A
CD-A	125	31			125				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.06	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.08	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.08	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.60	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	191	Stream B-ACD

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	15:45	17:15	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	✓	202	100.000
B		ONE HOUR	✓	35	100.000
C		ONE HOUR	✓	330	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	26	170	6
	B	24	0	8	3
	C	303	10	0	17
	D	8	4	3	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	0.10	10.05	0.1	0.5	B	32	48
A-B						24	36
A-C						156	234
A-D						6	8
AB-CD	0.02	5.40	0.0	~1	A	11	16
AB-C						161	241
D-ABC	0.04	8.30	0.0	0.5	A	14	21
C-D						16	23
C-A						278	417
C-B						9	14
CD-AB	0.03	4.95	0.0	~1	A	21	31
CD-A						277	416

Main Results for each time segment

15:45 - 16:00

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	26	7	425	0.062	26	0.0	0.1	9.016	A
A-B	20	5			20				
A-C	128	32			128				
A-D	5	1			5				
AB-CD	8	2	675	0.012	8	0.0	0.0	5.404	A
AB-C	132	33			132				
D-ABC	11	3	479	0.024	11	0.0	0.0	7.687	A
C-D	13	3			13				
C-A	228	57			228				
C-B	8	2			8				
CD-AB	15	4	743	0.021	15	0.0	0.0	4.947	A
CD-A	229	57			229				

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	31	8	413	0.076	31	0.1	0.1	9.427	A
A-B	23	6			23				
A-C	153	38			153				
A-D	5	1			5				
AB-CD	11	3	681	0.016	11	0.0	0.0	5.372	A
AB-C	158	39			158				
D-ABC	13	3	467	0.029	13	0.0	0.0	7.933	A
C-D	15	4			15				
C-A	272	68			272				
C-B	9	2			9				
CD-AB	20	5	767	0.026	20	0.0	0.0	4.815	A
CD-A	272	68			272				

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	39	10	397	0.097	38	0.1	0.1	10.047	B
A-B	29	7			29				
A-C	187	47			187				
A-D	7	2			7				
AB-CD	14	3	690	0.020	14	0.0	0.0	5.327	A
AB-C	192	48			192				
D-ABC	17	4	450	0.037	16	0.0	0.0	8.296	A
C-D	19	5			19				
C-A	334	83			334				
C-B	11	3			11				
CD-AB	27	7	802	0.034	27	0.0	0.0	4.646	A
CD-A	331	83			331				

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	39	10	397	0.097	39	0.1	0.1	10.051	B
A-B	29	7			29				
A-C	187	47			187				
A-D	7	2			7				
AB-CD	14	3	690	0.020	14	0.0	0.0	5.329	A
AB-C	192	48			192				
D-ABC	17	4	450	0.037	17	0.0	0.0	8.296	A
C-D	19	5			19				
C-A	334	83			334				
C-B	11	3			11				
CD-AB	27	7	802	0.034	27	0.0	0.0	4.648	A
CD-A	331	83			331				

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	31	8	413	0.076	32	0.1	0.1	9.436	A
A-B	23	6			23				
A-C	153	38			153				
A-D	5	1			5				
AB-CD	11	3	681	0.016	11	0.0	0.0	5.372	A
AB-C	158	39			158				
D-ABC	13	3	467	0.029	14	0.0	0.0	7.936	A
C-D	15	4			15				
C-A	272	68			272				
C-B	9	2			9				
CD-AB	20	5	767	0.026	20	0.0	0.0	4.818	A
CD-A	272	68			272				

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	26	7	425	0.062	26	0.1	0.1	9.031	A
A-B	20	5			20				
A-C	128	32			128				
A-D	5	1			5				
AB-CD	8	2	675	0.013	8	0.0	0.0	5.404	A
AB-C	132	33			132				
D-ABC	11	3	479	0.024	11	0.0	0.0	7.693	A
C-D	13	3			13				
C-A	228	57			228				
C-B	8	2			8				
CD-AB	15	4	743	0.021	15	0.0	0.0	4.948	A
CD-A	229	57			229				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.08	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.11	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.11	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	234	Stream B-ACD

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	✓	254	100.000
B		ONE HOUR	✓	30	100.000
C		ONE HOUR	✓	170	100.000
D		ONE HOUR	✓	20	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	17	234	3
	B	18	0	11	1
	C	159	7	0	4
	D	7	2	11	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	0.08	9.45	0.1	0.5	A	28	41
A-B						16	23
A-C						215	322
A-D						3	4
AB-CD	0.01	4.91	0.0	~1	A	5	8
AB-C						223	335
D-ABC	0.05	8.96	0.1	0.5	A	18	28
C-D						4	6
C-A						146	219
C-B						6	10
CD-AB	0.02	5.52	0.0	~1	A	11	16
CD-A						150	225

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	23	6	440	0.051	22	0.0	0.1	8.616	A
A-B	13	3			13				
A-C	176	44			176				
A-D	2	0.56			2				
AB-CD	4	1	737	0.005	4	0.0	0.0	4.911	A
AB-C	183	46			183				
D-ABC	15	4	445	0.034	15	0.0	0.0	8.361	A
C-D	3	0.75			3				
C-A	120	30			120				
C-B	5	1			5				
CD-AB	8	2	660	0.013	8	0.0	0.0	5.523	A
CD-A	123	31			123				

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	27	7	429	0.063	27	0.1	0.1	8.951	A
A-B	15	4			15				
A-C	210	53			210				
A-D	3	0.67			3				
AB-CD	5	1	755	0.007	5	0.0	0.0	4.801	A
AB-C	219	55			219				
D-ABC	18	4	436	0.041	18	0.0	0.0	8.606	A
C-D	4	0.90			4				
C-A	143	36			143				
C-B	6	2			6				
CD-AB	10	3	668	0.016	10	0.0	0.0	5.474	A
CD-A	147	37			147				

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	33	8	414	0.080	33	0.1	0.1	9.447	A
A-B	19	5			19				
A-C	258	64			258				
A-D	3	0.83			3				
AB-CD	7	2	780	0.009	7	0.0	0.0	4.655	A
AB-C	267	67			267				
D-ABC	22	6	424	0.052	22	0.0	0.1	8.962	A
C-D	4	1			4				
C-A	175	44			175				
C-B	8	2			8				
CD-AB	14	3	679	0.020	14	0.0	0.0	5.406	A
CD-A	179	45			179				

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	33	8	414	0.080	33	0.1	0.1	9.451	A
A-B	19	5			19				
A-C	258	64			258				
A-D	3	0.83			3				
AB-CD	7	2	780	0.009	7	0.0	0.0	4.657	A
AB-C	267	67			267				
D-ABC	22	6	424	0.052	22	0.1	0.1	8.963	A
C-D	4	1			4				
C-A	175	44			175				
C-B	8	2			8				
CD-AB	14	3	679	0.020	14	0.0	0.0	5.408	A
CD-A	179	45			179				

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	27	7	429	0.063	27	0.1	0.1	8.958	A
A-B	15	4			15				
A-C	210	53			210				
A-D	3	0.67			3				
AB-CD	5	1	755	0.007	5	0.0	0.0	4.802	A
AB-C	219	55			219				
D-ABC	18	4	436	0.041	18	0.1	0.0	8.608	A
C-D	4	0.90			4				
C-A	143	36			143				
C-B	6	2			6				
CD-AB	10	3	668	0.016	10	0.0	0.0	5.474	A
CD-A	147	37			147				

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	23	6	440	0.051	23	0.1	0.1	8.629	A
A-B	13	3			13				
A-C	176	44			176				
A-D	2	0.56			2				
AB-CD	4	1	737	0.005	4	0.0	0.0	4.910	A
AB-C	183	46			183				
D-ABC	15	4	445	0.034	15	0.0	0.0	8.367	A
C-D	3	0.75			3				
C-A	120	30			120				
C-B	5	1			5				
CD-AB	8	2	660	0.013	8	0.0	0.0	5.523	A
CD-A	123	31			123				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

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

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	15:45	17:15	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	✓	201	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	319	100.000
D		ONE HOUR	✓	15	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	27	168	6
	B	25	0	8	3
	C	292	10	0	17
	D	8	4	3	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	0.10	10.07	0.1	0.5	B	33	50
A-B						25	37
A-C						154	231
A-D						6	8
AB-CD	0.02	5.40	0.0	~1	A	11	16
AB-C						159	238
D-ABC	0.04	8.24	0.0	0.5	A	14	21
C-D						16	23
C-A						268	402
C-B						9	14
CD-AB	0.03	4.99	0.0	~1	A	20	31
CD-A						268	402

Main Results for each time segment

15:45 - 16:00

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	27	7	425	0.064	27	0.0	0.1	9.033	A
A-B	20	5			20				
A-C	126	32			126				
A-D	5	1			5				
AB-CD	8	2	676	0.012	8	0.0	0.0	5.395	A
AB-C	131	33			131				
D-ABC	11	3	481	0.023	11	0.0	0.0	7.655	A
C-D	13	3			13				
C-A	220	55			220				
C-B	8	2			8				
CD-AB	15	4	737	0.021	15	0.0	0.0	4.983	A
CD-A	221	55			221				

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	32	8	413	0.078	32	0.1	0.1	9.444	A
A-B	24	6			24				
A-C	151	38			151				
A-D	5	1			5				
AB-CD	11	3	682	0.015	11	0.0	0.0	5.363	A
AB-C	156	39			156				
D-ABC	13	3	470	0.029	13	0.0	0.0	7.892	A
C-D	15	4			15				
C-A	263	66			263				
C-B	9	2			9				
CD-AB	20	5	761	0.026	19	0.0	0.0	4.855	A
CD-A	263	66			263				

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	40	10	397	0.100	40	0.1	0.1	10.063	B
A-B	30	7			30				
A-C	185	46			185				
A-D	7	2			7				
AB-CD	14	3	691	0.020	14	0.0	0.0	5.316	A
AB-C	190	47			190				
D-ABC	17	4	453	0.036	16	0.0	0.0	8.240	A
C-D	19	5			19				
C-A	321	80			321				
C-B	11	3			11				
CD-AB	26	7	794	0.033	26	0.0	0.0	4.691	A
CD-A	319	80			319				

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	40	10	397	0.100	40	0.1	0.1	10.067	B
A-B	30	7			30				
A-C	185	46			185				
A-D	7	2			7				
AB-CD	14	3	691	0.020	14	0.0	0.0	5.316	A
AB-C	190	47			190				
D-ABC	17	4	453	0.036	17	0.0	0.0	8.240	A
C-D	19	5			19				
C-A	321	80			321				
C-B	11	3			11				
CD-AB	26	7	794	0.033	26	0.0	0.0	4.692	A
CD-A	319	80			319				

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	32	8	413	0.078	32	0.1	0.1	9.453	A
A-B	24	6			24				
A-C	151	38			151				
A-D	5	1			5				
AB-CD	11	3	682	0.015	11	0.0	0.0	5.365	A
AB-C	156	39			156				
D-ABC	13	3	470	0.029	14	0.0	0.0	7.895	A
C-D	15	4			15				
C-A	263	66			263				
C-B	9	2			9				
CD-AB	20	5	761	0.026	20	0.0	0.0	4.858	A
CD-A	263	66			263				

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	27	7	425	0.064	27	0.1	0.1	9.050	A
A-B	20	5			20				
A-C	126	32			126				
A-D	5	1			5				
AB-CD	8	2	676	0.013	8	0.0	0.0	5.396	A
AB-C	131	33			131				
D-ABC	11	3	481	0.023	11	0.0	0.0	7.659	A
C-D	13	3			13				
C-A	220	55			220				
C-B	8	2			8				
CD-AB	15	4	738	0.021	15	0.0	0.0	4.986	A
CD-A	221	55			221				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.08	0.03	0.26	0.47	0.50			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.11	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.11	0.00	0.00	0.11	0.11			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.09	0.00	0.00	0.09	0.09			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.02	0.00	0.00	0.02	0.02			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.62	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	228	Stream B-ACD

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	✓	260	100.000
B		ONE HOUR	✓	30	100.000
C		ONE HOUR	✓	175	100.000
D		ONE HOUR	✓	21	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	18	239	3
	B	18	0	11	1
	C	163	7	0	5
	D	8	2	11	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	0.08	9.50	0.1	0.5	A	28	41
A-B						17	25
A-C						219	329
A-D						3	4
AB-CD	0.01	4.90	0.0	~1	A	5	8
AB-C						228	342
D-ABC	0.05	8.93	0.1	0.5	A	19	29
C-D						5	7
C-A						150	224
C-B						6	10
CD-AB	0.02	5.51	0.0	~1	A	11	16
CD-A						154	231

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	23	6	439	0.051	22	0.0	0.1	8.643	A
A-B	14	3			14				
A-C	180	45			180				
A-D	2	0.56			2				
AB-CD	4	1	739	0.005	4	0.0	0.0	4.900	A
AB-C	187	47			187				
D-ABC	16	4	448	0.035	16	0.0	0.0	8.321	A
C-D	4	0.94			4				
C-A	123	31			123				
C-B	5	1			5				
CD-AB	8	2	662	0.013	8	0.0	0.0	5.511	A
CD-A	127	32			127				

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	27	7	427	0.063	27	0.1	0.1	8.986	A
A-B	16	4			16				
A-C	215	54			215				
A-D	3	0.67			3				
AB-CD	5	1	757	0.007	5	0.0	0.0	4.788	A
AB-C	223	56			223				
D-ABC	19	5	439	0.043	19	0.0	0.0	8.569	A
C-D	4	1			4				
C-A	147	37			147				
C-B	6	2			6				
CD-AB	11	3	670	0.016	10	0.0	0.0	5.459	A
CD-A	151	38			151				

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	33	8	412	0.080	33	0.1	0.1	9.495	A
A-B	20	5			20				
A-C	263	66			263				
A-D	3	0.83			3				
AB-CD	7	2	782	0.009	7	0.0	0.0	4.641	A
AB-C	273	68			273				
D-ABC	23	6	426	0.054	23	0.0	0.1	8.930	A
C-D	6	1			6				
C-A	179	45			179				
C-B	8	2			8				
CD-AB	14	3	682	0.020	14	0.0	0.0	5.388	A
CD-A	184	46			184				

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	33	8	412	0.080	33	0.1	0.1	9.499	A
A-B	20	5			20				
A-C	263	66			263				
A-D	3	0.83			3				
AB-CD	7	2	782	0.009	7	0.0	0.0	4.641	A
AB-C	273	68			273				
D-ABC	23	6	426	0.054	23	0.1	0.1	8.932	A
C-D	6	1			6				
C-A	179	45			179				
C-B	8	2			8				
CD-AB	14	3	682	0.020	14	0.0	0.0	5.390	A
CD-A	184	46			184				

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	27	7	427	0.063	27	0.1	0.1	8.991	A
A-B	16	4			16				
A-C	215	54			215				
A-D	3	0.67			3				
AB-CD	5	1	757	0.007	5	0.0	0.0	4.790	A
AB-C	223	56			223				
D-ABC	19	5	439	0.043	19	0.1	0.0	8.573	A
C-D	4	1			4				
C-A	147	37			147				
C-B	6	2			6				
CD-AB	11	3	670	0.016	11	0.0	0.0	5.460	A
CD-A	151	38			151				

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	23	6	439	0.051	23	0.1	0.1	8.654	A
A-B	14	3			14				
A-C	180	45			180				
A-D	2	0.56			2				
AB-CD	4	1	739	0.005	4	0.0	0.0	4.902	A
AB-C	187	47			187				
D-ABC	16	4	448	0.035	16	0.0	0.0	8.329	A
C-D	4	0.94			4				
C-A	123	31			123				
C-B	5	1			5				
CD-AB	8	2	662	0.013	8	0.0	0.0	5.513	A
CD-A	127	32			127				

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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.05	0.00	0.00	0.05	0.05			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.01	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.63	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	184	Stream B-ACD

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	15:45	17:15	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	✓	206	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	326	100.000
D		ONE HOUR	✓	16	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	28	172	6
	B	26	0	8	3
	C	298	10	0	18
	D	9	4	3	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	0.10	10.19	0.1	0.5	B	34	51
A-B						26	39
A-C						158	237
A-D						6	8
AB-CD	0.02	5.39	0.0	~1	A	11	16
AB-C						162	244
D-ABC	0.04	8.25	0.0	0.5	A	15	22
C-D						17	25
C-A						273	410
C-B						9	14
CD-AB	0.03	4.97	0.0	~1	A	21	31
CD-A						274	411

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	28	7	423	0.066	28	0.0	0.1	9.106	A
A-B	21	5			21				
A-C	129	32			129				
A-D	5	1			5				
AB-CD	8	2	676	0.012	8	0.0	0.0	5.390	A
AB-C	134	33			134				
D-ABC	12	3	482	0.025	12	0.0	0.0	7.651	A
C-D	14	3			14				
C-A	224	56			224				
C-B	8	2			8				
CD-AB	15	4	740	0.021	15	0.0	0.0	4.965	A
CD-A	226	57			226				

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	33	8	411	0.081	33	0.1	0.1	9.538	A
A-B	25	6			25				
A-C	155	39			155				
A-D	5	1			5				
AB-CD	11	3	683	0.016	11	0.0	0.0	5.355	A
AB-C	159	40			159				
D-ABC	14	4	470	0.031	14	0.0	0.0	7.893	A
C-D	16	4			16				
C-A	268	67			268				
C-B	9	2			9				
CD-AB	20	5	764	0.026	20	0.0	0.0	4.835	A
CD-A	269	67			269				

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	41	10	394	0.103	41	0.1	0.1	10.184	B
A-B	31	8			31				
A-C	189	47			189				
A-D	7	2			7				
AB-CD	14	3	692	0.020	14	0.0	0.0	5.307	A
AB-C	194	49			194				
D-ABC	18	4	454	0.039	18	0.0	0.0	8.250	A
C-D	20	5			20				
C-A	328	82			328				
C-B	11	3			11				
CD-AB	27	7	798	0.034	27	0.0	0.0	4.668	A
CD-A	327	82			327				

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	41	10	394	0.103	41	0.1	0.1	10.190	B
A-B	31	8			31				
A-C	189	47			189				
A-D	7	2			7				
AB-CD	14	3	692	0.020	14	0.0	0.0	5.307	A
AB-C	194	49			194				
D-ABC	18	4	454	0.039	18	0.0	0.0	8.250	A
C-D	20	5			20				
C-A	328	82			328				
C-B	11	3			11				
CD-AB	27	7	798	0.034	27	0.0	0.0	4.671	A
CD-A	327	82			327				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	33	8	411	0.081	33	0.1	0.1	9.546	A
A-B	25	6			25				
A-C	155	39			155				
A-D	5	1			5				
AB-CD	11	3	683	0.016	11	0.0	0.0	5.358	A
AB-C	159	40			159				
D-ABC	14	4	470	0.031	14	0.0	0.0	7.896	A
C-D	16	4			16				
C-A	268	67			268				
C-B	9	2			9				
CD-AB	20	5	764	0.026	20	0.0	0.0	4.838	A
CD-A	269	67			269				

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	28	7	423	0.066	28	0.1	0.1	9.125	A
A-B	21	5			21				
A-C	129	32			129				
A-D	5	1			5				
AB-CD	8	2	676	0.013	9	0.0	0.0	5.392	A
AB-C	134	33			134				
D-ABC	12	3	482	0.025	12	0.0	0.0	7.655	A
C-D	14	3			14				
C-A	224	56			224				
C-B	8	2			8				
CD-AB	15	4	740	0.021	15	0.0	0.0	4.968	A
CD-A	226	57			226				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			N/A	N/A

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	0.09	0.03	0.25	0.46	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.11	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.11	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.09	0.00	0.00	0.09	0.09			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.63	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	210	Stream B-ACD

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	✓	274	100.000
B		ONE HOUR	✓	32	100.000
C		ONE HOUR	✓	186	100.000
D		ONE HOUR	✓	22	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	19	252	3
	B	19	0	12	1
	C	173	8	0	5
	D	8	2	12	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	0.09	9.65	0.1	0.5	A	29	44
A-B						17	26
A-C						231	347
A-D						3	4
AB-CD	0.01	4.87	0.0	~1	A	5	8
AB-C						240	361
D-ABC	0.06	9.13	0.1	0.5	A	20	30
C-D						5	7
C-A						159	238
C-B						7	11
CD-AB	0.02	5.50	0.0	~1	A	12	18
CD-A						163	244

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	24	6	436	0.055	24	0.0	0.1	8.725	A
A-B	14	4			14				
A-C	190	47			190				
A-D	2	0.56			2				
AB-CD	4	1	744	0.006	4	0.0	0.0	4.867	A
AB-C	198	49			198				
D-ABC	17	4	442	0.037	16	0.0	0.0	8.455	A
C-D	4	0.94			4				
C-A	130	33			130				
C-B	6	2			6				
CD-AB	9	2	664	0.014	9	0.0	0.0	5.497	A
CD-A	134	34			134				

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	29	7	424	0.068	29	0.1	0.1	9.095	A
A-B	17	4			17				
A-C	227	57			227				
A-D	3	0.67			3				
AB-CD	5	1	763	0.007	5	0.0	0.0	4.751	A
AB-C	236	59			236				
D-ABC	20	5	432	0.046	20	0.0	0.0	8.728	A
C-D	4	1			4				
C-A	156	39			156				
C-B	7	2			7				
CD-AB	12	3	673	0.018	12	0.0	0.0	5.443	A
CD-A	160	40			160				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	408	0.086	35	0.1	0.1	9.650	A
A-B	21	5			21				
A-C	277	69			277				
A-D	3	0.83			3				
AB-CD	7	2	790	0.009	7	0.0	0.0	4.597	A
AB-C	288	72			288				
D-ABC	24	6	418	0.058	24	0.0	0.1	9.129	A
C-D	6	1			6				
C-A	190	48			190				
C-B	9	2			9				
CD-AB	16	4	686	0.023	16	0.0	0.0	5.369	A
CD-A	195	49			195				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	35	9	408	0.086	35	0.1	0.1	9.654	A
A-B	21	5			21				
A-C	277	69			277				
A-D	3	0.83			3				
AB-CD	7	2	790	0.009	7	0.0	0.0	4.597	A
AB-C	288	72			288				
D-ABC	24	6	418	0.058	24	0.1	0.1	9.131	A
C-D	6	1			6				
C-A	190	48			190				
C-B	9	2			9				
CD-AB	16	4	686	0.023	16	0.0	0.0	5.370	A
CD-A	195	49			195				

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	29	7	424	0.068	29	0.1	0.1	9.101	A
A-B	17	4			17				
A-C	227	57			227				
A-D	3	0.67			3				
AB-CD	5	1	763	0.007	5	0.0	0.0	4.751	A
AB-C	236	59			236				
D-ABC	20	5	432	0.046	20	0.1	0.0	8.732	A
C-D	4	1			4				
C-A	156	39			156				
C-B	7	2			7				
CD-AB	12	3	673	0.018	12	0.0	0.0	5.446	A
CD-A	160	40			160				

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	24	6	436	0.055	24	0.1	0.1	8.738	A
A-B	14	4			14				
A-C	190	47			190				
A-D	2	0.56			2				
AB-CD	4	1	744	0.006	4	0.0	0.0	4.867	A
AB-C	198	49			198				
D-ABC	17	4	442	0.037	17	0.0	0.0	8.463	A
C-D	4	0.94			4				
C-A	130	33			130				
C-B	6	2			6				
CD-AB	9	2	664	0.014	10	0.0	0.0	5.500	A
CD-A	134	34			134				

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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.07	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.09	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.03	0.26	0.46	0.49			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.09	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.06	0.00	0.00	0.06	0.06			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			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	0.07	0.00	0.00	0.07	0.07			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	0.06	0.00	0.00	0.06	0.06			N/A	N/A
AB-CD	0.01	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.02	~1	~1	~1	~1			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	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	Left-Right Stagger	Two-way		0.66	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	166	Stream B-ACD

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	15:45	17:15	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	✓	41	100.000
C		ONE HOUR	✓	341	100.000
D		ONE HOUR	✓	17	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	30	181	7
	B	29	0	9	3
	C	311	11	0	19
	D	10	4	3	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	0.12	10.48	0.1	0.5	B	38	56
A-B						28	41
A-C						166	249
A-D						6	10
AB-CD	0.02	5.38	0.0	~1	A	12	19
AB-C						171	257
D-ABC	0.04	8.31	0.0	0.5	A	16	23
C-D						17	26
C-A						285	428
C-B						10	15
CD-AB	0.04	4.94	0.1	~1	A	23	34
CD-A						286	429

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	419	0.074	31	0.0	0.1	9.266	A
A-B	23	6			23				
A-C	136	34			136				
A-D	5	1			5				
AB-CD	10	2	679	0.014	9	0.0	0.0	5.379	A
AB-C	141	35			141				
D-ABC	13	3	481	0.027	13	0.0	0.0	7.678	A
C-D	14	4			14				
C-A	234	59			234				
C-B	8	2			8				
CD-AB	17	4	745	0.022	17	0.0	0.0	4.940	A
CD-A	236	59			236				

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	37	9	406	0.091	37	0.1	0.1	9.745	A
A-B	27	7			27				
A-C	163	41			163				
A-D	6	2			6				
AB-CD	12	3	686	0.017	12	0.0	0.0	5.343	A
AB-C	168	42			168				
D-ABC	15	4	469	0.033	15	0.0	0.0	7.933	A
C-D	17	4			17				
C-A	280	70			280				
C-B	10	2			10				
CD-AB	22	5	770	0.028	22	0.0	0.0	4.807	A
CD-A	280	70			280				

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	45	11	389	0.116	45	0.1	0.1	10.477	B
A-B	33	8			33				
A-C	199	50			199				
A-D	8	2			8				
AB-CD	16	4	696	0.023	16	0.0	0.0	5.292	A
AB-C	204	51			204				
D-ABC	19	5	452	0.041	19	0.0	0.0	8.311	A
C-D	21	5			21				
C-A	342	86			342				
C-B	12	3			12				
CD-AB	29	7	806	0.037	29	0.0	0.1	4.637	A
CD-A	340	85			340				

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	45	11	388	0.116	45	0.1	0.1	10.484	B
A-B	33	8			33				
A-C	199	50			199				
A-D	8	2			8				
AB-CD	16	4	696	0.023	16	0.0	0.0	5.294	A
AB-C	204	51			204				
D-ABC	19	5	452	0.041	19	0.0	0.0	8.312	A
C-D	21	5			21				
C-A	342	86			342				
C-B	12	3			12				
CD-AB	29	7	806	0.037	29	0.1	0.1	4.639	A
CD-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	37	9	406	0.091	37	0.1	0.1	9.758	A
A-B	27	7			27				
A-C	163	41			163				
A-D	6	2			6				
AB-CD	12	3	686	0.018	12	0.0	0.0	5.346	A
AB-C	168	42			168				
D-ABC	15	4	469	0.033	15	0.0	0.0	7.936	A
C-D	17	4			17				
C-A	280	70			280				
C-B	10	2			10				
CD-AB	22	5	770	0.028	22	0.1	0.0	4.808	A
CD-A	280	70			280				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-ACD	31	8	419	0.074	31	0.1	0.1	9.286	A
A-B	23	6			23				
A-C	136	34			136				
A-D	5	1			5				
AB-CD	10	2	679	0.014	10	0.0	0.0	5.380	A
AB-C	141	35			141				
D-ABC	13	3	481	0.027	13	0.0	0.0	7.682	A
C-D	14	4			14				
C-A	234	59			234				
C-B	8	2			8				
CD-AB	17	4	745	0.022	17	0.0	0.0	4.942	A
CD-A	236	59			236				

Queue Variation Results for each time segment

15:45 - 16:00

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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			N/A	N/A

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	0.10	0.00	0.00	0.10	0.10			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.03	0.25	0.45	0.48			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.13	0.03	0.26	0.47	0.49			N/A	N/A
AB-CD	0.03	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.03	0.25	0.46	0.48			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.13	0.03	0.25	0.45	0.48			N/A	N/A
AB-CD	0.03	~1	~1	~1	~1			N/A	N/A
D-ABC	0.04	0.00	0.00	0.04	0.04			N/A	N/A
CD-AB	0.05	~1	~1	~1	~1			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	0.10	0.00	0.00	0.10	0.10			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.04	~1	~1	~1	~1			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	0.08	0.00	0.00	0.08	0.08			N/A	N/A
AB-CD	0.02	~1	~1	~1	~1			N/A	N/A
D-ABC	0.03	0.00	0.00	0.03	0.03			N/A	N/A
CD-AB	0.03	~1	~1	~1	~1			N/A	N/A