

T20517

Brascote Lane, Newbold Verdon



Appendix Y

Kirkby Road/Oxford Street – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
© Copyright TRL Software Limited, 2021				
For sales and distribution information, program advice and maintenance, contact TRL Software: +44 (0)1344 379777 software@trl.co.uk trlsoftware.com				
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution				

Filename: T20517 - Kirkby Rd-Oxford St PRTM.j10
 Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs
 Report generation date: 28/04/2023 14:10:18

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2023 Base									
Stream B-AC	D1	0.1	6.77	0.10	A	D2	0.1	6.61	0.08	A
Stream C-AB		0.1	5.57	0.08	A		0.2	5.57	0.13	A
	2024 Growth Base									
Stream B-AC	D3	0.1	6.77	0.10	A	D4	0.1	6.62	0.08	A
Stream C-AB		0.1	5.57	0.08	A		0.2	5.57	0.13	A
	2029 Adjusted Base									
Stream B-AC	D5	0.1	6.75	0.10	A	D6	0.1	6.52	0.09	A
Stream C-AB		0.1	5.50	0.07	A		0.2	5.48	0.12	A
	2029 + Dev Adjusted									
Stream B-AC	D7	0.1	6.87	0.10	A	D8	0.1	6.59	0.09	A
Stream C-AB		0.1	5.53	0.07	A		0.2	5.45	0.12	A

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

File summary

File Description

Title	Kirkby Road/Oxford Street
Location	Newbold Verdon
Site number	
Date	03/04/2023
Version	
Status	(new file)
Identifier	
Client	Richborough Estates
Jobnumber	T20517
Enumerator	AzureAD/MaxLaw
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	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	38.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Growth Base	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029 Adjusted Base	AM	ONE HOUR	07:45	09:15	15	✓
D6	2029 Adjusted Base	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 + Dev Adjusted	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2023 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.45	A

Arms

Arms

Arm	Name	Description	Arm type
A	Kirkby Road (N)		Major
B	Oxford Street		Minor
C	Kirkby Road (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	11.00			90.0	✓	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	3.60	20	25

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	526	0.075	0.190	0.119	0.271
B-C	676	0.081	0.206	-	-
C-B	626	0.190	0.190	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	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	✓	193	100.000
B		ONE HOUR	✓	56	100.000
C		ONE HOUR	✓	214	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	A	0	6	187
	B	5	0	51
	C	174	40	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	A	0	0	2
	B	0	0	4
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.10	6.77	0.1	A	51	77
C-AB	0.08	5.57	0.1	A	48	72
C-A					148	223
A-B					6	8
A-C					172	257

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-AC	42	11	628	0.067	42	0.0	0.1	6.358	A
C-AB	37	9	666	0.054	37	0.0	0.1	5.567	A
C-A	124	31			124				
A-B	5	1			5				
A-C	141	35			141				

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-AC	50	13	622	0.081	50	0.1	0.1	6.526	A
C-AB	46	12	698	0.066	46	0.1	0.1	5.549	A
C-A	146	36			146				
A-B	5	1			5				
A-C	168	42			168				

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-AC	62	15	613	0.101	62	0.1	0.1	6.765	A
C-AB	60	15	715	0.084	60	0.1	0.1	5.524	A
C-A	175	44			175				
A-B	7	2			7				
A-C	206	51			206				

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-AC	62	15	613	0.101	62	0.1	0.1	6.765	A
C-AB	60	15	715	0.084	60	0.1	0.1	5.531	A
C-A	175	44			175				
A-B	7	2			7				
A-C	206	51			206				

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-AC	50	13	622	0.081	50	0.1	0.1	6.528	A
C-AB	46	12	698	0.067	47	0.1	0.1	5.557	A
C-A	146	36			146				
A-B	5	1			5				
A-C	168	42			168				

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-AC	42	11	628	0.067	42	0.1	0.1	6.367	A
C-AB	37	9	686	0.054	37	0.1	0.1	5.574	A
C-A	124	31			124				
A-B	5	1			5				
A-C	141	35			141				

2023 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.57	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.57	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	151	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	281	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	13	138
	B	9	0	34
	C	222	59	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	0
	C	1	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	6.61	0.1	A	39	59
C-AB	0.13	5.57	0.2	A	76	114
C-A					182	273
A-B					12	18
A-C					127	190

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	607	0.053	32	0.0	0.1	6.261	A
C-AB	58	14	716	0.081	57	0.0	0.1	5.586	A
C-A	154	38			154				
A-B	10	2			10				
A-C	104	26			104				

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-AC	39	10	601	0.064	39	0.1	0.1	6.405	A
C-AB	73	18	733	0.100	73	0.1	0.2	5.546	A
C-A	180	45			180				
A-B	12	3			12				
A-C	124	31			124				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	12	592	0.080	47	0.1	0.1	6.613	A
C-AB	96	24	758	0.127	96	0.2	0.2	5.530	A
C-A	213	53			213				
A-B	14	4			14				
A-C	152	38			152				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	12	592	0.080	47	0.1	0.1	6.613	A
C-AB	96	24	758	0.127	96	0.2	0.2	5.532	A
C-A	213	53			213				
A-B	14	4			14				
A-C	152	38			152				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	10	601	0.064	39	0.1	0.1	6.409	A
C-AB	73	18	734	0.100	73	0.2	0.2	5.551	A
C-A	180	45			180				
A-B	12	3			12				
A-C	124	31			124				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	607	0.053	32	0.1	0.1	6.267	A
C-AB	58	15	716	0.081	58	0.2	0.1	5.574	A
C-A	153	38			153				
A-B	10	2			10				
A-C	104	26			104				

2024 Growth Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.44	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.44	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Growth Base	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	✓	195	100.000
B		ONE HOUR	✓	58	100.000
C		ONE HOUR	✓	215	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	8	189
	B	5	0	51
	C	175	40	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	4
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.10	6.77	0.1	A	51	77
C-AB	0.08	5.57	0.1	A	48	72
C-A					149	224
A-B					6	8
A-C					173	280

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-AC	42	11	628	0.067	42	0.0	0.1	6.362	A
C-AB	37	9	686	0.054	37	0.0	0.1	5.565	A
C-A	125	31			125				
A-B	5	1			5				
A-C	142	36			142				

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-AC	50	13	622	0.081	50	0.1	0.1	6.530	A
C-AB	46	12	698	0.067	46	0.1	0.1	5.547	A
C-A	147	37			147				
A-B	5	1			5				
A-C	170	42			170				

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-AC	62	15	613	0.101	62	0.1	0.1	6.771	A
C-AB	60	15	715	0.084	60	0.1	0.1	5.524	A
C-A	176	44			176				
A-B	7	2			7				
A-C	208	52			208				

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-AC	62	15	613	0.101	62	0.1	0.1	6.771	A
C-AB	60	15	715	0.084	60	0.1	0.1	5.529	A
C-A	176	44			176				
A-B	7	2			7				
A-C	208	52			208				

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-AC	50	13	622	0.081	50	0.1	0.1	6.535	A
C-AB	47	12	698	0.067	47	0.1	0.1	5.555	A
C-A	147	37			147				
A-B	5	1			5				
A-C	170	42			170				

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-AC	42	11	628	0.067	42	0.1	0.1	6.368	A
C-AB	37	9	688	0.054	37	0.1	0.1	5.573	A
C-A	125	31			125				
A-B	5	1			5				
A-C	142	36			142				

2024 Growth Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.56	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.56	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	152	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	283	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	13	139
	B	9	0	34
	C	224	59	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	0
	C	1	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	6.62	0.1	A	39	59
C-AB	0.13	5.57	0.2	A	76	114
C-A					184	276
A-B					12	18
A-C					128	191

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	607	0.053	32	0.0	0.1	6.264	A
C-AB	58	15	716	0.081	58	0.0	0.1	5.580	A
C-A	155	39			155				
A-B	10	2			10				
A-C	105	26			105				

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-AC	39	10	600	0.064	39	0.1	0.1	6.408	A
C-AB	73	18	734	0.100	73	0.1	0.2	5.539	A
C-A	181	45			181				
A-B	12	3			12				
A-C	125	31			125				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	12	591	0.080	47	0.1	0.1	6.617	A
C-AB	96	24	760	0.127	96	0.2	0.2	5.520	A
C-A	215	54			215				
A-B	14	4			14				
A-C	153	38			153				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	47	12	591	0.080	47	0.1	0.1	6.617	A
C-AB	96	24	760	0.127	96	0.2	0.2	5.524	A
C-A	215	54			215				
A-B	14	4			14				
A-C	153	38			153				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	10	600	0.064	39	0.1	0.1	6.412	A
C-AB	73	18	735	0.100	74	0.2	0.2	5.542	A
C-A	181	45			181				
A-B	12	3			12				
A-C	125	31			125				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	607	0.053	32	0.1	0.1	6.267	A
C-AB	58	15	716	0.081	58	0.2	0.1	5.568	A
C-A	155	39			155				
A-B	10	2			10				
A-C	105	26			105				

2029 Adjusted Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.33	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.33	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2029 Adjusted Base	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	✓	191	100.000
B		ONE HOUR	✓	56	100.000
C		ONE HOUR	✓	205	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	6	185
	B	5	0	51
	C	174	31	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	4
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.10	6.75	0.1	A	51	77
C-AB	0.07	5.50	0.1	A	37	58
C-A					151	228
A-B					8	8
A-C					170	255

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-AC	42	11	629	0.067	42	0.0	0.1	6.352	A
C-AB	29	7	686	0.042	29	0.0	0.1	5.494	A
C-A	125	31			125				
A-B	5	1			5				
A-C	139	35			139				

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-AC	50	13	623	0.081	50	0.1	0.1	6.518	A
C-AB	36	9	698	0.052	36	0.1	0.1	5.459	A
C-A	148	37			148				
A-B	5	1			5				
A-C	166	42			166				

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-AC	62	15	614	0.100	62	0.1	0.1	6.754	A
C-AB	47	12	715	0.065	47	0.1	0.1	5.409	A
C-A	179	45			179				
A-B	7	2			7				
A-C	204	51			204				

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-AC	62	15	614	0.100	62	0.1	0.1	6.754	A
C-AB	47	12	715	0.065	47	0.1	0.1	5.415	A
C-A	179	45			179				
A-B	7	2			7				
A-C	204	51			204				

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-AC	50	13	623	0.081	50	0.1	0.1	6.522	A
C-AB	36	9	698	0.052	36	0.1	0.1	5.466	A
C-A	148	37			148				
A-B	5	1			5				
A-C	166	42			166				

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-AC	42	11	629	0.067	42	0.1	0.1	6.361	A
C-AB	29	7	686	0.042	29	0.1	0.1	5.501	A
C-A	125	31			125				
A-B	5	1			5				
A-C	139	35			139				

2029 Adjusted Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.68	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.68	A

Traffic Demand

Demand Set Details

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

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	114	100.000
B		ONE HOUR	✓	49	100.000
C		ONE HOUR	✓	289	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	13	101
	B	9	0	40
	C	232	57	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	0
	C	1	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.09	6.52	0.1	A	45	67
C-AB	0.12	5.48	0.2	A	74	111
C-A					191	287
A-B					12	18
A-C					93	139

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	618	0.060	37	0.0	0.1	6.187	A
C-AB	57	14	725	0.078	56	0.0	0.1	5.472	A
C-A	161	40			161				
A-B	10	2			10				
A-C	76	19			76				

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-AC	44	11	613	0.072	44	0.1	0.1	6.325	A
C-AB	71	18	745	0.096	71	0.1	0.2	5.438	A
C-A	188	47			188				
A-B	12	3			12				
A-C	91	23			91				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	606	0.089	54	0.1	0.1	6.521	A
C-AB	94	23	772	0.122	94	0.2	0.2	5.399	A
C-A	224	56			224				
A-B	14	4			14				
A-C	111	28			111				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	606	0.089	54	0.1	0.1	6.521	A
C-AB	94	24	772	0.122	94	0.2	0.2	5.401	A
C-A	224	56			224				
A-B	14	4			14				
A-C	111	28			111				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	613	0.072	44	0.1	0.1	6.327	A
C-AB	71	18	745	0.096	72	0.2	0.2	5.439	A
C-A	188	47			188				
A-B	12	3			12				
A-C	91	23			91				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	618	0.060	37	0.1	0.1	6.195	A
C-AB	57	14	725	0.078	57	0.2	0.1	5.482	A
C-A	161	40			161				
A-B	10	2			10				
A-C	76	19			76				

2029 + Dev Adjusted, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.25	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.25	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 + Dev Adjusted	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	✓	228	100.000
B		ONE HOUR	✓	57	100.000
C		ONE HOUR	✓	210	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	0	8	222	
	5	0	52	
From	179	31	0	

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	0	0	2	
	0	0	4	
From	2	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.10	6.87	0.1	A	52	78
C-AB	0.07	5.53	0.1	A	38	56
C-A					155	233
A-B					6	8
A-C					204	306

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-AC	43	11	623	0.069	43	0.0	0.1	6.420	A
C-AB	29	7	684	0.043	29	0.0	0.1	5.516	A
C-A	129	32			129				
A-B	5	1			5				
A-C	167	42			167				

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-AC	51	13	616	0.083	51	0.1	0.1	6.604	A
C-AB	36	9	696	0.052	36	0.1	0.1	5.483	A
C-A	152	38			152				
A-B	5	1			5				
A-C	200	50			200				

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-AC	63	16	606	0.104	63	0.1	0.1	6.869	A
C-AB	47	12	712	0.066	47	0.1	0.1	5.441	A
C-A	184	46			184				
A-B	7	2			7				
A-C	244	61			244				

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-AC	63	16	606	0.104	63	0.1	0.1	6.869	A
C-AB	47	12	712	0.066	47	0.1	0.1	5.445	A
C-A	184	46			184				
A-B	7	2			7				
A-C	244	61			244				

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-AC	51	13	616	0.083	51	0.1	0.1	6.809	A
C-AB	38	9	696	0.052	38	0.1	0.1	5.490	A
C-A	152	38			152				
A-B	5	1			5				
A-C	200	50			200				

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-AC	43	11	623	0.069	43	0.1	0.1	6.429	A
C-AB	29	7	684	0.043	29	0.1	0.1	5.525	A
C-A	129	32			129				
A-B	5	1			5				
A-C	167	42			167				

2029 + Dev Adjusted, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.58	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.58	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	136	100.000
B		ONE HOUR	✓	49	100.000
C		ONE HOUR	✓	304	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	13	123
	B	9	0	40
	C	247	57	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	0
	C	1	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.09	6.59	0.1	A	45	67
C-AB	0.12	5.45	0.2	A	76	114
C-A					203	305
A-B					12	18
A-C					113	169

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	614	0.060	37	0.0	0.1	6.227	A
C-AB	58	14	730	0.079	57	0.0	0.1	5.442	A
C-A	171	43			171				
A-B	10	2			10				
A-C	93	23			93				

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-AC	44	11	609	0.072	44	0.1	0.1	6.377	A
C-AB	73	18	751	0.097	73	0.1	0.2	5.405	A
C-A	200	50			200				
A-B	12	3			12				
A-C	111	28			111				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	600	0.090	54	0.1	0.1	6.588	A
C-AB	97	24	779	0.124	96	0.2	0.2	5.363	A
C-A	238	60			238				
A-B	14	4			14				
A-C	135	34			135				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	600	0.090	54	0.1	0.1	6.588	A
C-AB	97	24	780	0.124	97	0.2	0.2	5.365	A
C-A	238	60			238				
A-B	14	4			14				
A-C	135	34			135				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	608	0.072	44	0.1	0.1	6.381	A
C-AB	73	18	751	0.097	73	0.2	0.2	5.406	A
C-A	200	50			200				
A-B	12	3			12				
A-C	111	28			111				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	614	0.060	37	0.1	0.1	6.236	A
C-AB	58	14	730	0.079	58	0.2	0.1	5.452	A
C-A	171	43			171				
A-B	10	2			10				
A-C	93	23			93				

T20517

Brascote Lane, Newbold Verdon



Appendix Z

Stapleton Lane/Kirkby Road – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
© Copyright TRL Software Limited, 2021				
For sales and distribution information, program advice and maintenance, contact TRL Software: +44 (0)1344 379777 software@trl.co.uk trlsoftware.com				
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution				

Filename: T20517 - Stapleton Ln-Kirkby Rd PRTM.j10
 Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs
 Report generation date: 28/04/2023 14:11:01

- » 2023 Base, AM
- » 2023 Base, PM
- » 2024 Growth Base, AM
- » 2024 Growth Base, PM
- » 2029 Adjusted Base, AM
- » 2029 Adjusted Base, PM
- » 2029 + Dev Adjusted, AM
- » 2029 + Dev Adjusted, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2023 Base									
Stream B-AC	D1	0.7	11.32	0.42	B	D2	0.5	9.17	0.32	A
Stream C-AB		0.7	8.12	0.38	A		1.3	10.48	0.51	B
	2024 Growth Base									
Stream B-AC	D3	0.7	11.45	0.43	B	D4	0.5	9.21	0.32	A
Stream C-AB		0.7	8.15	0.38	A		1.3	10.59	0.52	B
	2029 Adjusted Base									
Stream B-AC	D5	0.7	10.64	0.41	B	D6	0.4	9.17	0.27	A
Stream C-AB		0.5	8.25	0.32	A		1.1	10.78	0.50	B
	2029 + Dev Adjusted									
Stream B-AC	D7	0.9	11.43	0.47	B	D8	0.4	9.29	0.31	A
Stream C-AB		0.6	8.28	0.32	A		1.2	11.15	0.52	B

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

File summary

File Description

Title	Stapleton Lane/Kirkby Road
Location	Newbold Verdon
Site number	
Date	03/04/2023
Version	
Status	(new file)
Identifier	
Client	Richborough Estates
Jobnumber	T20517
Enumerator	AzureAD/MaxLaw
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	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	38.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Growth Base	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029 Adjusted Base	AM	ONE HOUR	07:45	09:15	15	✓
D6	2029 Adjusted Base	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 + Dev Adjusted	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2023 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.02	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.02	A

Arms

Arms

Arm	Name	Description	Arm type
A	Stapleton Lane (N)		Major
B	Kirkby Road		Minor
C	Stapleton Lane (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.20			90.0	✓	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	4.36	25	45

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	577	0.107	0.271	0.171	0.388
B-C	741	0.109	0.276	-	-
C-B	626	0.240	0.240	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	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	✓	287	100.000
B		ONE HOUR	✓	214	100.000
C		ONE HOUR	✓	350	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	0	108	161	From
	74	0	140	
	191	159	0	

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	0	4	2	From
	1	0	0	
	2	1	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.42	11.32	0.7	B	196	295
C-AB	0.38	8.12	0.7	A	198	297
C-A					123	185
A-B					97	146
A-C					148	222

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-AC	161	40	595	0.271	160	0.0	0.4	8.287	A
C-AB	152	38	675	0.225	151	0.0	0.4	6.931	A
C-A	111	28			111				
A-B	80	20			80				
A-C	121	30			121				

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-AC	192	48	578	0.333	192	0.4	0.5	9.335	A
C-AB	191	48	686	0.278	191	0.4	0.5	7.358	A
C-A	124	31			124				
A-B	95	24			95				
A-C	145	36			145				

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-AC	236	59	555	0.425	235	0.5	0.7	11.250	B
C-AB	251	63	701	0.358	250	0.5	0.7	8.083	A
C-A	135	34			135				
A-B	117	29			117				
A-C	177	44			177				

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-AC	236	59	555	0.425	236	0.7	0.7	11.320	B
C-AB	251	63	701	0.358	251	0.7	0.7	8.119	A
C-A	134	34			134				
A-B	117	29			117				
A-C	177	44			177				

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-AC	192	48	578	0.333	193	0.7	0.5	9.411	A
C-AB	191	48	686	0.279	192	0.7	0.5	7.402	A
C-A	123	31			123				
A-B	95	24			95				
A-C	145	36			145				

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-AC	161	40	595	0.271	162	0.5	0.4	8.352	A
C-AB	152	38	676	0.226	153	0.5	0.4	6.988	A
C-A	111	28			111				
A-B	80	20			80				
A-C	121	30			121				

2023 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	252	100.000
B		ONE HOUR	✓	186	100.000
C		ONE HOUR	✓	421	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	90	162
	B	38	0	128
	C	193	228	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	2	1
	B	3	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.32	9.17	0.5	A	152	228
C-AB	0.51	10.48	1.3	B	285	427
C-A					102	152
A-B					83	124
A-C					149	223

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	125	31	619	0.202	124	0.0	0.3	7.307	A
C-AB	218	55	679	0.322	216	0.0	0.6	7.772	A
C-A	99	25			99				
A-B	68	17			68				
A-C	122	30			122				

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-AC	149	37	602	0.248	149	0.3	0.3	7.990	A
C-AB	274	69	690	0.398	274	0.6	0.8	8.659	A
C-A	104	26			104				
A-B	81	20			81				
A-C	146	36			146				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	46	578	0.316	182	0.3	0.5	9.141	A
C-AB	360	90	706	0.510	358	0.8	1.3	10.369	B
C-A	103	26			103				
A-B	99	25			99				
A-C	178	45			178				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	46	578	0.316	183	0.5	0.5	9.171	A
C-AB	361	90	707	0.510	361	1.3	1.3	10.483	B
C-A	103	26			103				
A-B	99	25			99				
A-C	178	45			178				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	149	37	602	0.248	150	0.5	0.3	8.026	A
C-AB	275	69	691	0.398	277	1.3	0.8	8.782	A
C-A	103	26			103				
A-B	81	20			81				
A-C	146	36			146				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	125	31	618	0.202	125	0.3	0.3	7.355	A
C-AB	219	55	679	0.322	220	0.8	0.6	7.886	A
C-A	98	24			98				
A-B	68	17			68				
A-C	122	30			122				

2024 Growth Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Growth Base	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	✓	289	100.000
B		ONE HOUR	✓	216	100.000
C		ONE HOUR	✓	353	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	107	162
	B	75	0	141
	C	193	160	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	4	2
	B	1	0	0
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.43	11.45	0.7	B	198	297
C-AB	0.36	8.15	0.7	A	200	300
C-A					124	186
A-B					98	147
A-C					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-AC	163	41	594	0.274	161	0.0	0.4	8.316	A
C-AB	153	38	676	0.227	152	0.0	0.4	6.940	A
C-A	112	28			112				
A-B	81	20			81				
A-C	122	30			122				

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-AC	194	49	577	0.336	194	0.4	0.5	9.407	A
C-AB	193	48	687	0.281	192	0.4	0.5	7.372	A
C-A	124	31			124				
A-B	96	24			96				
A-C	146	36			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-AC	238	59	553	0.430	237	0.5	0.7	11.375	B
C-AB	253	63	702	0.361	252	0.5	0.7	8.110	A
C-A	135	34			135				
A-B	118	29			118				
A-C	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-AC	238	59	553	0.430	238	0.7	0.7	11.446	B
C-AB	254	63	702	0.361	254	0.7	0.7	8.146	A
C-A	135	34			135				
A-B	118	29			118				
A-C	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-AC	194	49	577	0.337	195	0.7	0.5	9.483	A
C-AB	193	48	687	0.281	194	0.7	0.5	7.418	A
C-A	124	31			124				
A-B	96	24			96				
A-C	146	36			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-AC	163	41	594	0.274	163	0.5	0.4	8.400	A
C-AB	154	38	676	0.227	154	0.5	0.4	6.997	A
C-A	112	28			112				
A-B	81	20			81				
A-C	122	30			122				

2024 Growth Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.75	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.75	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	254	100.000
B		ONE HOUR	✓	167	100.000
C		ONE HOUR	✓	425	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	91	163
	B	38	0	129
	C	195	230	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	2	1
	B	3	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.32	9.21	0.5	A	153	230
C-AB	0.52	10.59	1.3	B	288	432
C-A					102	153
A-B					84	125
A-C					150	224

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	31	619	0.203	125	0.0	0.3	7.321	A
C-AB	221	55	680	0.325	219	0.0	0.6	7.801	A
C-A	99	25			99				
A-B	69	17			69				
A-C	123	31			123				

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-AC	150	38	602	0.249	150	0.3	0.3	8.012	A
C-AB	278	69	691	0.402	277	0.6	0.8	8.708	A
C-A	104	26			104				
A-B	82	20			82				
A-C	147	37			147				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	578	0.318	183	0.3	0.5	9.177	A
C-AB	365	91	707	0.516	363	0.8	1.3	10.473	B
C-A	103	26			103				
A-B	100	25			100				
A-C	179	45			179				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	577	0.319	184	0.5	0.5	9.210	A
C-AB	365	91	708	0.516	365	1.3	1.3	10.594	B
C-A	103	26			103				
A-B	100	25			100				
A-C	179	45			179				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	38	601	0.250	151	0.5	0.3	8.049	A
C-AB	278	70	692	0.402	280	1.3	0.8	8.836	A
C-A	104	26			104				
A-B	82	20			82				
A-C	147	37			147				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	31	618	0.203	126	0.3	0.3	7.370	A
C-AB	222	55	680	0.326	223	0.8	0.6	7.916	A
C-A	98	25			98				
A-B	69	17			69				
A-C	123	31			123				

2029 Adjusted Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.15	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.15	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2029 Adjusted Base	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	251	100.000
B		ONE HOUR	✓	213	100.000
C		ONE HOUR	✓	283	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	108	143
	B	72	0	141
	C	114	149	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	4	2
	B	1	0	0
	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.41	10.64	0.7	B	195	293
C-AB	0.32	8.25	0.5	A	164	247
C-A					77	115
A-B					99	149
A-C					131	197

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-AC	160	40	608	0.264	159	0.0	0.4	8.048	A
C-AB	130	32	639	0.203	128	0.0	0.3	7.121	A
C-A	68	17			68				
A-B	81	20			81				
A-C	108	27			108				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	191	48	594	0.323	191	0.4	0.5	8.960	A
C-AB	160	40	642	0.249	159	0.3	0.4	7.546	A
C-A	77	19			77				
A-B	97	24			97				
A-C	129	32			129				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	235	59	574	0.409	234	0.5	0.7	10.589	B
C-AB	204	51	646	0.316	203	0.4	0.5	8.221	A
C-A	86	21			86				
A-B	119	30			119				
A-C	157	39			157				

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-AC	235	59	574	0.409	234	0.7	0.7	10.643	B
C-AB	204	51	646	0.316	204	0.5	0.5	8.246	A
C-A	86	21			86				
A-B	119	30			119				
A-C	157	39			157				

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-AC	191	48	593	0.323	192	0.7	0.5	9.023	A
C-AB	160	40	642	0.249	160	0.5	0.4	7.577	A
C-A	77	19			77				
A-B	97	24			97				
A-C	129	32			129				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	160	40	607	0.264	161	0.5	0.4	8.095	A
C-AB	130	32	639	0.203	130	0.4	0.3	7.168	A
C-A	68	17			68				
A-B	81	20			81				
A-C	108	27			108				

2029 Adjusted Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.26	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.26	A

Traffic Demand

Demand Set Details

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

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	200	100.000
B		ONE HOUR	✓	134	100.000
C		ONE HOUR	✓	367	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	87	113
	B	52	0	82
	C	128	239	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	2	1
	B	3	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.27	9.17	0.4	A	123	184
C-AB	0.50	10.78	1.1	B	269	403
C-A					88	102
A-B					80	120
A-C					104	156

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	25	587	0.172	100	0.0	0.2	7.467	A
C-AB	211	53	655	0.322	209	0.0	0.5	8.058	A
C-A	65	16			65				
A-B	65	16			65				
A-C	85	21			85				

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-AC	120	30	589	0.212	120	0.2	0.3	8.101	A
C-AB	261	65	661	0.394	260	0.5	0.7	8.985	A
C-A	69	17			69				
A-B	78	20			78				
A-C	102	25			102				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	148	37	545	0.271	147	0.3	0.4	9.144	A
C-AB	334	84	670	0.499	332	0.7	1.1	10.682	B
C-A	70	18			70				
A-B	96	24			96				
A-C	124	31			124				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	148	37	545	0.271	148	0.4	0.4	9.171	A
C-AB	334	84	670	0.499	334	1.1	1.1	10.784	B
C-A	70	17			70				
A-B	96	24			96				
A-C	124	31			124				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	120	30	569	0.212	121	0.4	0.3	8.134	A
C-AB	261	65	661	0.395	262	1.1	0.8	9.095	A
C-A	69	17			69				
A-B	78	20			78				
A-C	102	25			102				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	25	588	0.172	101	0.3	0.2	7.511	A
C-AB	211	53	655	0.323	212	0.8	0.5	8.169	A
C-A	65	16			65				
A-B	65	16			65				
A-C	85	21			85				

2029 + Dev Adjusted, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 + Dev Adjusted	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	✓	232	100.000
B		ONE HOUR	✓	251	100.000
C		ONE HOUR	✓	268	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	108	124
	B	73	0	178
From	C	114	154	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	4	2
	B	1	0	0
From	C	2	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.47	11.43	0.9	B	230	345
C-AB	0.32	8.28	0.6	A	170	255
C-A					76	114
A-B					99	149
A-C					114	171

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	189	47	623	0.303	187	0.0	0.4	8.258	A
C-AB	134	33	642	0.208	133	0.0	0.3	7.134	A
C-A	68	17			68				
A-B	81	20			81				
A-C	93	23			93				

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-AC	226	56	610	0.370	225	0.4	0.6	9.364	A
C-AB	165	41	646	0.255	164	0.3	0.4	7.562	A
C-A	76	19			76				
A-B	97	24			97				
A-C	111	28			111				

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-AC	276	69	592	0.467	275	0.6	0.9	11.355	B
C-AB	210	53	651	0.323	210	0.4	0.6	8.253	A
C-A	85	21			85				
A-B	119	30			119				
A-C	137	34			137				

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-AC	276	69	592	0.467	276	0.9	0.9	11.435	B
C-AB	211	53	651	0.323	210	0.6	0.6	8.278	A
C-A	85	21			85				
A-B	119	30			119				
A-C	137	34			137				

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-AC	228	58	810	0.370	227	0.9	0.8	9.452	A
C-AB	165	41	848	0.255	168	0.6	0.4	7.598	A
C-A	78	19			78				
A-B	97	24			97				
A-C	111	28			111				

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-AC	189	47	823	0.304	190	0.6	0.4	8.351	A
C-AB	134	34	842	0.209	134	0.4	0.3	7.179	A
C-A	68	17			68				
A-B	81	20			81				
A-C	93	23			93				

2029 + Dev Adjusted, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.72	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.72	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	189	100.000
B		ONE HOUR	✓	157	100.000
C		ONE HOUR	✓	377	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	92	97
	B	52	0	105
	C	128	249	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	2	1
	B	3	0	0
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.31	9.29	0.4	A	144	216
C-AB	0.52	11.15	1.2	B	280	420
C-A					66	99
A-B					84	127
A-C					89	134

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	118	30	604	0.196	117	0.0	0.2	7.458	A
C-AB	220	55	657	0.335	217	0.0	0.6	8.180	A
C-A	64	16			64				
A-B	69	17			69				
A-C	73	18			73				

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-AC	141	35	587	0.240	141	0.2	0.3	8.134	A
C-AB	271	68	663	0.409	270	0.6	0.8	9.177	A
C-A	68	17			68				
A-B	83	21			83				
A-C	87	22			87				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	173	43	565	0.306	172	0.3	0.4	9.255	A
C-AB	348	87	672	0.517	346	0.8	1.2	11.033	B
C-A	67	17			67				
A-B	101	25			101				
A-C	107	27			107				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	173	43	564	0.306	173	0.4	0.4	9.287	A
C-AB	348	87	673	0.517	348	1.2	1.2	11.147	B
C-A	67	17			67				
A-B	101	25			101				
A-C	107	27			107				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	141	35	587	0.240	142	0.4	0.3	8.171	A
C-AB	272	68	664	0.409	273	1.2	0.8	9.303	A
C-A	67	17			67				
A-B	83	21			83				
A-C	87	22			87				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	118	30	603	0.196	118	0.3	0.2	7.509	A
C-AB	220	55	657	0.335	221	0.8	0.6	8.302	A
C-A	64	16			64				
A-B	69	17			69				
A-C	73	18			73				

T20517

Brascote Lane, Newbold Verdon

Appendix AA

Stapleton Lane/Shilton Road/Chapel Street/High Street – ARCADY Assessment

Junctions 10

ARCADY 10 - Roundabout Module

Version: 10.0.4.1693

© Copyright TRL Software Limited, 2021

For sales and distribution information, program advice and maintenance, contact TRL Software:

+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: T20517 - Stapleton Ln-Shilton Rd-Chapel St-High St PRTM.j10

Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs

Report generation date: 28/04/2023 14:12:07

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

Summary of junction performance

AM						PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
2023 Base										
Arm 1	D1	0.5	6.10	0.35	A	D2	0.6	6.34	0.36	A
Arm 2		0.2	3.88	0.19	A		0.2	3.63	0.13	A
Arm 3		0.9	12.48	0.48	B		1.2	13.16	0.55	B
Arm 4		0.2	4.23	0.16	A		0.3	4.90	0.24	A
2024 Growth Base										
Arm 1	D3	0.6	6.17	0.36	A	D4	0.6	6.37	0.37	A
Arm 2		0.2	3.90	0.19	A		0.2	3.64	0.13	A
Arm 3		1.0	12.70	0.49	B		1.3	13.36	0.56	B
Arm 4		0.2	4.25	0.16	A		0.3	4.93	0.24	A
2029 Adjusted Base										
Arm 1	D5	0.5	5.85	0.33	A	D6	0.3	5.31	0.24	A
Arm 2		0.2	3.78	0.15	A		0.1	3.43	0.09	A
Arm 3		1.1	12.82	0.51	B		1.7	14.75	0.64	B
Arm 4		0.1	3.85	0.07	A		0.2	4.51	0.13	A
2029 + Dev Adjusted										
Arm 1	D7	0.6	6.06	0.35	A	D8	0.3	5.36	0.25	A
Arm 2		0.2	3.83	0.15	A		0.1	3.44	0.09	A
Arm 3		1.1	13.61	0.53	B		1.9	15.62	0.65	C
Arm 4		0.1	3.86	0.07	A		0.2	4.55	0.13	A

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

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

File summary

File Description

Title	Stapleton Lane/Shilton Road/Chapel Street/High Street
Location	Newbold Verdon
Site number	
Date	03/04/2023
Version	
Status	(new file)
Identifier	
Client	Richborough Estates
Jobnumber	T20517
Enumerator	AzureAD/MaxLaw
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

Mini-roundabout model	Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
JUNCTIONS 9	5.75						0.85	38.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Growth Base	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029 Adjusted Base	AM	ONE HOUR	07:45	09:15	15	✓
D6	2029 Adjusted Base	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 + Dev Adjusted	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2023 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	7.06	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		7.06	A

Arms

Arms

Arm	Name	Description
1	Stapleton Lane	
2	Shilton Road	
3	Chapel Street	
4	High Street	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1	3.00	3.00	5.50	10.0	5.00	9.75	0.0	✓
2	2.75	2.75	5.25	20.0	17.00	11.00	0.0	
3	3.00	3.00	3.00	0.0	5.00	2.00	0.0	
4	3.00	3.00	4.75	20.0	13.00	9.00	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.534	982
2	0.652	1301
3	0.590	803
4	0.643	1249

The slope and intercept shown above include any corrections and adjustments.

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	2023 Base	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 (%)
1		ONE HOUR	✓	296	100.000
2		ONE HOUR	✓	204	100.000
3		ONE HOUR	✓	249	100.000
4		ONE HOUR	✓	149	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	14	144	0	138
	2	81	2	0	121
	3	174	23	0	52
	4	85	62	0	2

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	3	0	2
	2	0	0	0	7
	3	3	4	0	2
	4	0	8	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.35	6.10	0.5	A	272	407
2	0.19	3.88	0.2	A	187	281
3	0.48	12.48	0.9	B	228	343
4	0.16	4.23	0.2	A	137	205

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	223	56	67	947	0.235	222	265	0.0	0.3	5.076	A
2	154	38	115	1226	0.125	153	173	0.0	0.1	3.490	A
3	187	47	268	645	0.291	186	0	0.0	0.4	8.038	A
4	112	28	220	1108	0.101	112	234	0.0	0.1	3.725	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	266	67	80	940	0.283	266	318	0.3	0.4	5.468	A
2	183	46	138	1211	0.151	183	207	0.1	0.2	3.645	A
3	224	56	322	614	0.365	223	0	0.4	0.6	9.471	A
4	134	33	284	1080	0.124	134	281	0.1	0.1	3.928	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	326	81	98	930	0.350	325	389	0.4	0.5	6.089	A
2	225	56	169	1190	0.189	224	254	0.2	0.2	3.876	A
3	274	69	394	571	0.480	273	0	0.6	0.9	12.361	B
4	164	41	322	1042	0.157	164	344	0.1	0.2	4.228	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	326	81	98	930	0.350	326	390	0.5	0.5	6.102	A
2	225	56	170	1190	0.189	225	254	0.2	0.2	3.878	A
3	274	69	394	571	0.480	274	0	0.9	0.9	12.481	B
4	164	41	324	1041	0.158	164	345	0.2	0.2	4.234	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	266	67	80	939	0.283	267	319	0.5	0.4	5.483	A
2	183	46	139	1210	0.152	184	208	0.2	0.2	3.650	A
3	224	56	322	613	0.365	225	0	0.9	0.6	9.583	A
4	134	33	285	1079	0.124	134	282	0.2	0.1	3.934	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	223	56	67	946	0.235	223	267	0.4	0.3	5.099	A
2	154	38	116	1225	0.125	154	174	0.2	0.1	3.495	A
3	187	47	270	644	0.291	188	0	0.6	0.4	8.136	A
4	112	28	222	1107	0.101	112	236	0.1	0.1	3.735	A

2023 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	7.80	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		7.80	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	295	100.000
2		ONE HOUR	✓	143	100.000
3		ONE HOUR	✓	309	100.000
4		ONE HOUR	✓	217	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
From		1	2	3	4
	1	17	151	0	127
	2	76	2	0	65
	3	222	40	0	47
	4	111	104	0	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	1	0	0
	2	0	0	0	11
	3	1	0	0	0
	4	0	7	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.36	6.34	0.6	A	271	406
2	0.13	3.63	0.2	A	131	197
3	0.55	13.16	1.2	B	284	425
4	0.24	4.90	0.3	A	199	299

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	222	58	111	923	0.241	221	319	0.0	0.3	5.143	A
2	108	27	109	1229	0.088	107	222	0.0	0.1	3.359	A
3	233	58	217	675	0.344	231	0	0.0	0.5	8.111	A
4	163	41	267	1078	0.152	163	180	0.0	0.2	4.057	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	265	66	133	911	0.291	265	382	0.3	0.4	5.593	A
2	129	32	131	1215	0.108	128	267	0.1	0.1	3.468	A
3	278	69	260	650	0.427	277	0	0.5	0.7	9.691	A
4	195	49	320	1044	0.187	195	216	0.2	0.2	4.378	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	325	81	163	895	0.363	324	467	0.4	0.6	6.327	A
2	157	39	160	1196	0.132	157	326	0.1	0.2	3.628	A
3	340	85	318	616	0.552	338	0	0.7	1.2	12.979	B
4	239	60	391	998	0.239	239	265	0.2	0.3	4.893	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	325	81	163	895	0.363	325	469	0.6	0.6	6.342	A
2	157	39	161	1196	0.132	157	327	0.2	0.2	3.629	A
3	340	85	318	616	0.553	340	0	1.2	1.2	13.156	B
4	239	60	393	997	0.240	239	265	0.3	0.3	4.904	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	265	66	133	911	0.291	266	385	0.6	0.4	5.615	A
2	129	32	132	1215	0.108	129	268	0.2	0.1	3.472	A
3	278	69	260	650	0.428	280	0	1.2	0.8	9.846	A
4	195	49	323	1042	0.187	195	217	0.3	0.2	4.391	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	222	56	112	923	0.241	222	322	0.4	0.3	5.172	A
2	108	27	110	1229	0.088	108	224	0.1	0.1	3.361	A
3	233	58	218	675	0.345	234	0	0.8	0.5	8.237	A
4	163	41	270	1076	0.152	164	182	0.2	0.2	4.075	A

2024 Growth Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	7.13	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		7.13	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Growth Base	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 (%)
1		ONE HOUR	✓	302	100.000
2		ONE HOUR	✓	206	100.000
3		ONE HOUR	✓	250	100.000
4		ONE HOUR	✓	151	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	1	2	3	4	
From	1	14	145	1	142
	2	82	2	0	122
	3	175	23	0	52
	4	86	63	0	2

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	3	0	2
	2	0	0	0	7
	3	3	4	0	2
	4	0	8	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.38	8.17	0.6	A	277	416
2	0.19	3.90	0.2	A	189	284
3	0.49	12.70	1.0	B	229	344
4	0.16	4.25	0.2	A	139	208

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	227	57	87	946	0.240	226	267	0.0	0.3	5.108	A
2	155	39	119	1223	0.127	154	174	0.0	0.2	3.503	A
3	188	47	273	642	0.293	187	0.75	0.0	0.4	8.096	A
4	114	28	221	1107	0.103	113	238	0.0	0.1	3.735	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	271	68	81	939	0.289	271	320	0.3	0.4	5.516	A
2	185	46	143	1208	0.153	185	209	0.2	0.2	3.661	A
3	225	56	327	610	0.368	224	0.90	0.4	0.6	9.569	A
4	136	34	265	1079	0.126	136	285	0.1	0.1	3.939	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	333	83	99	929	0.358	332	392	0.4	0.6	6.161	A
2	227	57	175	1187	0.191	227	256	0.2	0.2	3.899	A
3	275	69	400	567	0.485	274	1	0.6	0.9	12.565	B
4	166	42	325	1041	0.160	166	349	0.1	0.2	4.246	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	333	83	99	929	0.358	332	393	0.6	0.6	6.174	A
2	227	57	175	1187	0.191	227	257	0.2	0.2	3.901	A
3	275	69	401	567	0.486	275	1	0.9	1.0	12.695	B
4	166	42	326	1040	0.160	166	350	0.2	0.2	4.252	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	271	68	81	939	0.289	272	322	0.6	0.4	5.533	A
2	185	46	143	1207	0.153	185	210	0.2	0.2	3.667	A
3	225	56	328	610	0.369	226	0.90	1.0	0.6	9.687	A
4	136	34	267	1077	0.126	136	287	0.2	0.1	3.945	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	227	57	68	946	0.240	228	269	0.4	0.3	5.135	A
2	155	39	120	1223	0.127	155	176	0.2	0.2	3.511	A
3	188	47	274	641	0.293	189	0.75	0.6	0.4	8.200	A
4	114	28	223	1106	0.103	114	240	0.1	0.1	3.747	A

2024 Growth Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	7.88	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		7.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	297	100.000
2		ONE HOUR	✓	145	100.000
3		ONE HOUR	✓	311	100.000
4		ONE HOUR	✓	219	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	17	152	0	128
	2	77	2	0	66
	3	224	40	0	47
	4	112	105	0	2

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1	2	3	4
	1	0	1	0	0
	2	0	0	0	11
	3	1	0	0	0
	4	0	7	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.37	6.37	0.6	A	273	409
2	0.13	3.64	0.2	A	133	200
3	0.56	13.36	1.3	B	285	428
4	0.24	4.93	0.3	A	201	301

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	224	56	112	923	0.242	222	322	0.0	0.3	5.157	A
2	109	27	110	1229	0.089	109	224	0.0	0.1	3.365	A
3	234	59	219	674	0.347	232	0	0.0	0.5	8.162	A
4	165	41	269	1076	0.153	164	182	0.0	0.2	4.070	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	267	67	134	911	0.293	267	386	0.3	0.4	5.613	A
2	130	33	132	1215	0.107	130	268	0.1	0.1	3.476	A
3	280	70	262	649	0.431	279	0	0.5	0.7	9.780	A
4	197	49	323	1042	0.189	197	218	0.2	0.2	4.396	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	327	82	164	895	0.365	326	472	0.4	0.6	6.358	A
2	160	40	162	1195	0.134	160	328	0.1	0.2	3.639	A
3	342	86	321	614	0.558	340	0	0.7	1.2	13.170	B
4	241	60	395	996	0.242	241	267	0.2	0.3	4.921	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	327	82	164	895	0.366	327	473	0.6	0.6	6.373	A
2	160	40	162	1195	0.134	160	329	0.2	0.2	3.639	A
3	342	86	321	614	0.558	342	0	1.2	1.3	13.358	B
4	241	60	396	995	0.242	241	268	0.3	0.3	4.932	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	267	67	134	910	0.293	268	388	0.6	0.4	5.633	A
2	130	33	132	1214	0.107	130	270	0.2	0.1	3.478	A
3	280	70	263	648	0.431	281	0	1.3	0.8	9.939	A
4	197	49	325	1040	0.189	197	219	0.3	0.2	4.412	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	224	58	112	922	0.242	224	325	0.4	0.3	5.184	A
2	109	27	111	1228	0.089	109	226	0.1	0.1	3.370	A
3	234	59	220	673	0.348	235	0	0.8	0.5	8.291	A
4	185	41	272	1075	0.153	185	183	0.2	0.2	4.087	A

2029 Adjusted Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	7.68	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		7.68	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2029 Adjusted Base	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 (%)
1		ONE HOUR	✓	282	100.000
2		ONE HOUR	✓	162	100.000
3		ONE HOUR	✓	275	100.000
4		ONE HOUR	✓	70	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
From		1	2	3	4
	1	14	120	0	148
	2	31	2	0	129
	3	200	23	0	52
	4	23	45	0	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	3	0	2
	2	0	0	0	7
	3	3	4	0	2
	4	0	8	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.33	5.85	0.5	A	259	388
2	0.15	3.78	0.2	A	149	223
3	0.51	12.82	1.1	B	252	379
4	0.07	3.85	0.1	A	64	96

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	212	53	54	953	0.223	211	200	0.0	0.3	4.963	A
2	122	30	123	1221	0.100	121	142	0.0	0.1	3.453	A
3	207	52	244	659	0.314	205	0	0.0	0.5	8.127	A
4	53	13	202	1120	0.047	52	248	0.0	0.1	3.541	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	254	63	65	948	0.268	253	240	0.3	0.4	5.301	A
2	146	36	147	1205	0.121	146	171	0.1	0.1	3.585	A
3	247	62	293	631	0.392	246	0	0.5	0.7	9.625	A
4	63	16	242	1094	0.058	63	297	0.1	0.1	3.666	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	310	78	79	940	0.330	310	294	0.4	0.5	5.842	A
2	178	45	180	1183	0.151	178	209	0.1	0.2	3.778	A
3	303	76	358	592	0.512	301	0	0.7	1.0	12.677	B
4	77	19	296	1059	0.073	77	364	0.1	0.1	3.848	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	310	78	79	940	0.330	310	295	0.5	0.5	5.852	A
2	178	45	181	1183	0.151	178	209	0.2	0.2	3.779	A
3	303	76	359	591	0.512	303	0	1.0	1.1	12.815	B
4	77	19	297	1058	0.073	77	364	0.1	0.1	3.852	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	254	63	65	948	0.268	254	242	0.5	0.4	5.314	A
2	146	36	148	1204	0.121	146	171	0.2	0.1	3.587	A
3	247	62	294	630	0.392	249	0	1.1	0.7	9.755	A
4	63	16	244	1092	0.058	63	298	0.1	0.1	3.671	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	212	53	54	953	0.223	213	202	0.4	0.3	4.975	A
2	122	30	124	1220	0.100	122	143	0.1	0.1	3.461	A
3	207	52	246	658	0.315	208	0	0.7	0.5	8.239	A
4	53	13	204	1118	0.047	53	250	0.1	0.1	3.546	A

2029 Adjusted Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 73% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	9.54	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		9.54	A

Traffic Demand

Demand Set Details

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

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	200	100.000
2		ONE HOUR	✓	97	100.000
3		ONE HOUR	✓	388	100.000
4		ONE HOUR	✓	116	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	17	98	0	85
	2	35	2	0	60
	3	301	40	0	47
	4	20	94	0	2

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1	2	3	4
	1	0	1	0	0
	2	0	0	0	11
	3	1	0	0	0
	4	0	7	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.24	5.31	0.3	A	184	275
2	0.09	3.43	0.1	A	89	134
3	0.64	14.75	1.7	B	356	534
4	0.13	4.51	0.2	A	108	180

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	151	38	103	927	0.162	150	278	0.0	0.2	4.649	A
2	73	18	78	1250	0.058	73	175	0.0	0.1	3.257	A
3	292	73	151	714	0.409	289	0	0.0	0.7	8.483	A
4	87	22	295	1060	0.082	87	145	0.0	0.1	3.908	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	180	45	124	916	0.196	180	334	0.2	0.2	4.910	A
2	87	22	93	1240	0.070	87	210	0.1	0.1	3.326	A
3	349	87	181	697	0.501	348	0	0.7	1.0	10.352	B
4	104	26	354	1022	0.102	104	174	0.1	0.1	4.143	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	220	55	152	901	0.244	220	408	0.2	0.3	5.306	A
2	107	27	114	1226	0.087	107	257	0.1	0.1	3.425	A
3	427	107	221	673	0.635	424	0	1.0	1.7	14.439	B
4	128	32	432	971	0.131	128	213	0.1	0.2	4.506	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	220	55	152	901	0.244	220	411	0.3	0.3	5.312	A
2	107	27	115	1226	0.087	107	258	0.1	0.1	3.425	A
3	427	107	221	673	0.635	427	0	1.7	1.7	14.748	B
4	128	32	435	970	0.132	128	214	0.2	0.2	4.514	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	180	45	124	916	0.196	180	338	0.3	0.2	4.919	A
2	87	22	94	1240	0.070	87	211	0.1	0.1	3.330	A
3	349	87	181	697	0.501	352	0	1.7	1.0	10.597	B
4	104	26	358	1019	0.102	104	175	0.2	0.1	4.156	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	151	38	104	927	0.163	151	282	0.2	0.2	4.683	A
2	73	18	78	1250	0.058	73	176	0.1	0.1	3.261	A
3	292	73	151	714	0.409	293	0	1.0	0.7	8.654	A
4	87	22	299	1057	0.083	87	146	0.1	0.1	3.920	A

2029 + Dev Adjusted, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 71% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	8.02	A

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		8.02	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 + Dev Adjusted	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 (%)
1		ONE HOUR	✓	302	100.000
2		ONE HOUR	✓	162	100.000
3		ONE HOUR	✓	279	100.000
4		ONE HOUR	✓	70	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1	2	3	4
	1	14	120	1	167
	2	31	2	0	129
	3	204	23	0	52
	4	23	45	0	2

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1	2	3	4
	1	0	3	0	2
	2	0	0	0	7
	3	3	4	0	2
	4	0	8	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.35	6.06	0.6	A	277	416
2	0.15	3.83	0.2	A	149	223
3	0.53	13.61	1.1	B	256	384
4	0.07	3.86	0.1	A	64	96

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	227	57	54	953	0.238	226	203	0.0	0.3	5.055	A
2	122	30	138	1211	0.101	121	142	0.0	0.1	3.484	A
3	210	53	258	651	0.323	208	0.75	0.0	0.5	8.336	A
4	53	13	205	1118	0.047	52	262	0.0	0.1	3.547	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	271	68	65	948	0.286	271	244	0.3	0.4	5.441	A
2	146	36	165	1193	0.122	146	171	0.1	0.1	3.625	A
3	251	63	310	620	0.404	250	0.90	0.5	0.7	9.977	A
4	63	16	246	1091	0.058	63	314	0.1	0.1	3.674	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	333	83	79	940	0.354	332	296	0.4	0.6	6.049	A
2	178	45	202	1169	0.153	178	209	0.1	0.2	3.833	A
3	307	77	379	579	0.530	305	1	0.7	1.1	13.428	B
4	77	19	300	1056	0.073	77	385	0.1	0.1	3.859	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	333	83	79	940	0.354	332	299	0.6	0.6	6.062	A
2	178	45	203	1169	0.153	178	209	0.2	0.2	3.834	A
3	307	77	380	579	0.530	307	1	1.1	1.1	13.606	B
4	77	19	302	1055	0.073	77	385	0.1	0.1	3.863	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	271	68	65	948	0.287	272	246	0.6	0.4	5.456	A
2	146	36	166	1193	0.122	146	171	0.2	0.1	3.630	A
3	251	63	311	620	0.405	253	0.90	1.1	0.7	10.128	B
4	63	16	248	1090	0.058	63	315	0.1	0.1	3.679	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	227	57	54	953	0.239	228	205	0.4	0.3	5.078	A
2	122	30	139	1210	0.101	122	143	0.1	0.1	3.492	A
3	210	53	260	650	0.323	211	0.75	0.7	0.5	8.457	A
4	53	13	207	1116	0.047	53	264	0.1	0.1	3.556	A

2029 + Dev Adjusted, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 73% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3, 4	10.01	B

Junction Network

Driving side	Lighting	Road surface	In London	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		10.01	B

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	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	208	100.000
2		ONE HOUR	✓	97	100.000
3		ONE HOUR	✓	397	100.000
4		ONE HOUR	✓	116	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1	2	3	4
	1	17	98	0	91
	2	35	2	0	60
	3	310	40	0	47
	4	20	94	0	2

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1	2	3	4
	1	0	1	0	0
	2	0	0	0	11
	3	1	0	0	0
	4	0	7	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.25	5.36	0.3	A	189	284
2	0.09	3.44	0.1	A	89	134
3	0.65	15.62	1.9	C	364	546
4	0.13	4.55	0.2	A	106	160

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	155	39	103	927	0.167	154	285	0.0	0.2	4.675	A
2	73	18	82	1247	0.059	73	175	0.0	0.1	3.266	A
3	299	75	155	712	0.420	296	0	0.0	0.7	8.669	A
4	87	22	301	1056	0.083	87	150	0.0	0.1	3.925	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	185	46	124	916	0.202	185	342	0.2	0.3	4.946	A
2	87	22	99	1236	0.071	87	210	0.1	0.1	3.336	A
3	357	89	186	694	0.515	356	0	0.7	1.0	10.691	B
4	104	26	362	1017	0.103	104	180	0.1	0.1	4.166	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	227	57	151	901	0.252	226	418	0.3	0.3	5.357	A
2	107	27	121	1222	0.087	107	257	0.1	0.1	3.438	A
3	437	109	228	669	0.653	434	0	1.0	1.8	15.239	C
4	128	32	442	965	0.132	128	220	0.1	0.2	4.539	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	227	57	152	901	0.252	227	420	0.3	0.3	5.363	A
2	107	27	121	1222	0.087	107	258	0.1	0.1	3.438	A
3	437	109	228	669	0.654	437	0	1.8	1.9	15.617	C
4	128	32	445	963	0.133	128	220	0.2	0.2	4.548	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	185	46	124	916	0.202	186	346	0.3	0.3	4.957	A
2	87	22	99	1236	0.071	87	211	0.1	0.1	3.337	A
3	357	89	186	693	0.515	360	0	1.9	1.1	10.981	B
4	104	26	366	1014	0.103	104	180	0.2	0.1	4.181	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	155	39	104	927	0.167	155	289	0.3	0.2	4.690	A
2	73	18	83	1247	0.059	73	176	0.1	0.1	3.269	A
3	299	75	156	711	0.420	300	0	1.1	0.7	8.859	A
4	87	22	305	1053	0.083	87	151	0.1	0.1	3.938	A

T20517

Brascote Lane, Newbold Verdon



Appendix AB

A447/Bosworth Road – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
© Copyright TRL Software Limited, 2021				
For sales and distribution information, program advice and maintenance, contact TRL Software: +44 (0)1344 379777 software@trl.co.uk trlsoftware.com				
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution				

Filename: T20517 - A447-Bosworth Rd PRTM.j10

Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs

Report generation date: 28/04/2023 14:13:00

- »2023 Base, AM
- »2023 Base, PM
- »2024 Growth Base, AM
- »2024 Growth Base, PM
- »2029 Adjusted Base, AM
- »2029 Adjusted Base, PM
- »2029 + Dev Adjusted, AM
- »2029 + Dev Adjusted, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2023 Base									
Stream B-C	D1	0.2	11.27	0.13	B	D2	0.1	8.55	0.08	A
Stream B-A		1.1	24.41	0.53	C		0.5	15.20	0.32	C
Stream C-AB		0.1	4.84	0.07	A		0.3	4.61	0.11	A
	2024 Growth Base									
Stream B-C	D3	0.2	11.44	0.14	B	D4	0.1	8.60	0.08	A
Stream B-A		1.1	24.98	0.54	C		0.5	15.40	0.32	C
Stream C-AB		0.1	4.83	0.07	A		0.3	4.60	0.11	A
	2029 Adjusted Base									
Stream B-C	D5	0.2	13.50	0.16	B	D6	0.1	9.04	0.09	A
Stream B-A		1.8	28.55	0.65	D		0.7	16.15	0.41	C
Stream C-AB		0.1	5.09	0.07	A		0.3	4.84	0.12	A
	2029 + Dev Adjusted									
Stream B-C	D7	0.1	10.61	0.05	B	D8	0.1	8.74	0.08	A
Stream B-A		1.5	23.03	0.60	C		0.6	15.68	0.38	C
Stream C-AB		0.1	4.95	0.07	A		0.4	5.29	0.19	A

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

File summary

File Description

Title	A447/Bosworth Road
Location	Newbold Verdon
Site number	
Date	03/04/2023
Version	
Status	(new file)
Identifier	
Client	Richborough Estates
Jobnumber	T20517
Enumerator	AzureAD/MaxLaw
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	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	38.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2023 Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Growth Base	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029 Adjusted Base	AM	ONE HOUR	07:45	09:15	15	✓
D6	2029 Adjusted Base	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 + Dev Adjusted	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2023 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.15	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.15	A

Arms

Arms

Arm	Name	Description	Arm type
A	A447 (N)		Major
B	Bosworth Road		Minor
C	A447 (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.80			240.0	✓	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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	10.00	6.20	4.00	3.20	3.20	✓	1.00	80	80

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	600	0.105	0.267	0.168	0.381
B-C	689	0.102	0.258	-	-
C-B	713	0.267	0.267	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2023 Base	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	✓	747	100.000
B		ONE HOUR	✓	198	100.000
C		ONE HOUR	✓	478	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	175	572
	B	152	0	46
	C	452	24	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	6
	B	1	0	2
	C	6	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.13	11.27	0.2	B	42	63
B-A	0.53	24.41	1.1	C	139	209
C-AB	0.07	4.84	0.1	A	46	69
C-A					391	586
A-B					161	241
A-C					525	787

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-C	35	9	514	0.067	34	0.0	0.1	7.642	A
B-A	114	29	407	0.281	113	0.0	0.4	12.311	B
C-AB	32	8	797	0.040	31	0.0	0.1	4.818	A
C-A	327	82			327				
A-B	132	33			132				
A-C	431	108			431				

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-C	41	10	467	0.089	41	0.1	0.1	8.626	A
B-A	137	34	369	0.370	136	0.4	0.6	15.552	C
C-AB	43	11	820	0.052	43	0.1	0.1	4.760	A
C-A	385	96			385				
A-B	157	39			157				
A-C	514	129			514				

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-C	51	13	379	0.133	50	0.1	0.2	11.153	B
B-A	167	42	316	0.530	165	0.6	1.1	23.822	C
C-AB	63	16	855	0.074	63	0.1	0.1	4.693	A
C-A	461	115			461				
A-B	193	48			193				
A-C	630	157			630				

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-C	51	13	376	0.135	51	0.2	0.2	11.271	B
B-A	167	42	316	0.530	167	1.1	1.1	24.407	C
C-AB	64	16	855	0.074	64	0.1	0.1	4.707	A
C-A	461	115			461				
A-B	193	48			193				
A-C	630	157			630				

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-C	41	10	464	0.089	42	0.2	0.1	8.697	A
B-A	137	34	369	0.370	139	1.1	0.6	15.924	C
C-AB	43	11	820	0.052	43	0.1	0.1	4.786	A
C-A	385	96			385				
A-B	157	39			157				
A-C	514	129			514				

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-C	35	9	513	0.068	35	0.1	0.1	7.684	A
B-A	114	29	407	0.281	115	0.6	0.4	12.510	B
C-AB	32	8	797	0.040	32	0.1	0.1	4.836	A
C-A	327	82			327				
A-B	132	33			132				
A-C	431	108			431				

2023 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.82	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.82	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2023 Base	PM	ONE HOUR	18:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	558	100.000
B		ONE HOUR	✓	137	100.000
C		ONE HOUR	✓	517	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	114	444
	B	100	0	37
	C	478	39	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	1	0	8
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	8.55	0.1	A	34	51
B-A	0.32	15.20	0.5	C	92	138
C-AB	0.11	4.61	0.3	A	74	111
C-A					400	600
A-B					105	157
A-C					407	611

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	571	0.049	28	0.0	0.1	7.143	A
B-A	75	19	428	0.176	74	0.0	0.2	10.255	B
C-AB	51	13	841	0.061	51	0.0	0.1	4.597	A
C-A	338	84			338				
A-B	86	21			86				
A-C	334	84			334				

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-C	33	8	542	0.061	33	0.1	0.1	7.636	A
B-A	90	22	395	0.228	90	0.2	0.3	11.887	B
C-AB	69	17	871	0.080	69	0.1	0.1	4.534	A
C-A	395	99			395				
A-B	102	26			102				
A-C	399	100			399				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	496	0.082	41	0.1	0.1	8.530	A
B-A	110	28	349	0.315	109	0.3	0.5	15.123	C
C-AB	102	25	915	0.111	101	0.1	0.2	4.474	A
C-A	468	117			468				
A-B	126	31			126				
A-C	469	122			469				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	496	0.082	41	0.1	0.1	8.545	A
B-A	110	28	349	0.315	110	0.5	0.5	15.201	C
C-AB	102	25	915	0.111	102	0.2	0.3	4.482	A
C-A	468	117			468				
A-B	126	31			126				
A-C	469	122			469				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	542	0.061	33	0.1	0.1	7.654	A
B-A	90	22	395	0.228	91	0.5	0.3	11.966	B
C-AB	70	17	871	0.080	70	0.3	0.2	4.548	A
C-A	395	99			395				
A-B	102	26			102				
A-C	399	100			399				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	571	0.049	28	0.1	0.1	7.162	A
B-A	75	19	428	0.176	76	0.3	0.2	10.329	B
C-AB	52	13	841	0.061	52	0.2	0.1	4.607	A
C-A	338	84			338				
A-B	86	21			86				
A-C	334	84			334				

2024 Growth Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Growth Base	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	✓	753	100.000
B		ONE HOUR	✓	199	100.000
C		ONE HOUR	✓	480	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	178	577
	B	153	0	46
	C	456	24	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	6
	B	1	0	2
	C	6	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.14	11.44	0.2	B	42	63
B-A	0.54	24.98	1.1	C	140	211
C-AB	0.07	4.83	0.1	A	46	70
C-A					394	591
A-B					162	242
A-C					529	794

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-C	35	9	513	0.068	34	0.0	0.1	7.673	A
B-A	115	29	405	0.284	114	0.0	0.4	12.407	B
C-AB	32	8	798	0.040	31	0.0	0.1	4.813	A
C-A	330	82			330				
A-B	133	33			133				
A-C	434	109			434				

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-C	41	10	464	0.089	41	0.1	0.1	8.680	A
B-A	138	34	367	0.375	137	0.4	0.6	15.735	C
C-AB	43	11	821	0.053	43	0.1	0.1	4.755	A
C-A	388	97			388				
A-B	158	40			158				
A-C	519	130			519				

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-C	51	13	375	0.135	50	0.1	0.2	11.313	B
B-A	168	42	314	0.537	166	0.6	1.1	24.344	C
C-AB	64	16	857	0.075	64	0.1	0.1	4.686	A
C-A	464	116			464				
A-B	194	48			194				
A-C	635	159			635				

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-C	51	13	372	0.136	51	0.2	0.2	11.440	B
B-A	168	42	314	0.537	168	1.1	1.1	24.975	C
C-AB	64	16	857	0.075	64	0.1	0.1	4.699	A
C-A	464	116			464				
A-B	194	48			194				
A-C	635	159			635				

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-C	41	10	461	0.090	42	0.2	0.1	8.753	A
B-A	138	34	367	0.375	140	1.1	0.6	16.132	C
C-AB	43	11	821	0.053	44	0.1	0.1	4.780	A
C-A	388	97			388				
A-B	158	40			158				
A-C	519	130			519				

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-C	35	9	511	0.068	35	0.1	0.1	7.715	A
B-A	115	29	405	0.284	116	0.6	0.4	12.613	B
C-AB	32	8	798	0.040	32	0.1	0.1	4.829	A
C-A	330	82			330				
A-B	133	33			133				
A-C	434	109			434				

2024 Growth Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.84	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.84	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Growth Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	563	100.000
B		ONE HOUR	✓	138	100.000
C		ONE HOUR	✓	521	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	115	448
	B	101	0	37
	C	482	39	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	1	0	8
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	8.60	0.1	A	34	51
B-A	0.32	15.40	0.5	C	93	139
C-AB	0.11	4.60	0.3	A	75	112
C-A					403	605
A-B					106	158
A-C					411	617

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	570	0.049	28	0.0	0.1	7.166	A
B-A	76	19	427	0.178	75	0.0	0.2	10.315	B
C-AB	52	13	842	0.061	51	0.0	0.1	4.592	A
C-A	341	85			341				
A-B	87	22			87				
A-C	337	84			337				

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-C	33	8	540	0.062	33	0.1	0.1	7.666	A
B-A	91	23	394	0.231	90	0.2	0.3	11.984	B
C-AB	70	17	872	0.080	70	0.1	0.1	4.530	A
C-A	398	100			398				
A-B	103	26			103				
A-C	403	101			403				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	493	0.083	41	0.1	0.1	8.584	A
B-A	111	28	347	0.320	111	0.3	0.5	15.309	C
C-AB	102	26	917	0.112	102	0.1	0.3	4.468	A
C-A	471	118			471				
A-B	127	32			127				
A-C	493	123			493				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	493	0.083	41	0.1	0.1	8.599	A
B-A	111	28	347	0.320	111	0.5	0.5	15.397	C
C-AB	103	26	917	0.112	103	0.3	0.3	4.474	A
C-A	471	118			471				
A-B	127	32			127				
A-C	493	123			493				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	540	0.062	33	0.1	0.1	7.684	A
B-A	91	23	393	0.231	91	0.5	0.3	12.088	B
C-AB	70	18	873	0.080	71	0.3	0.2	4.542	A
C-A	398	100			398				
A-B	103	26			103				
A-C	403	101			403				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	569	0.049	28	0.1	0.1	7.184	A
B-A	76	19	427	0.178	76	0.3	0.2	10.390	B
C-AB	52	13	842	0.062	52	0.2	0.1	4.603	A
C-A	340	85			340				
A-B	87	22			87				
A-C	337	84			337				

2029 Adjusted Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.29	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.29	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2029 Adjusted Base	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	✓	889	100.000
B		ONE HOUR	✓	256	100.000
C		ONE HOUR	✓	389	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	169	500
	B	210	0	46
	C	343	26	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	6
	B	1	0	2
	C	6	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.16	13.50	0.2	B	42	63
B-A	0.65	28.55	1.8	D	193	289
C-AB	0.07	5.09	0.1	A	41	62
C-A					297	446
A-B					155	233
A-C					459	688

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-C	35	9	498	0.070	34	0.0	0.1	7.912	A
B-A	158	40	437	0.362	158	0.0	0.6	12.854	B
C-AB	30	7	754	0.039	30	0.0	0.1	5.067	A
C-A	248	62			248				
A-B	127	32			127				
A-C	376	94			376				

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-C	41	10	440	0.094	41	0.1	0.1	9.208	A
B-A	189	47	404	0.468	188	0.6	0.9	16.723	C
C-AB	39	10	766	0.051	39	0.1	0.1	5.058	A
C-A	293	73			293				
A-B	152	38			152				
A-C	449	112			449				

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-C	51	13	328	0.154	50	0.1	0.2	13.193	B
B-A	231	58	358	0.646	228	0.9	1.7	27.283	D
C-AB	55	14	786	0.070	55	0.1	0.1	5.056	A
C-A	351	88			351				
A-B	186	47			186				
A-C	551	138			551				

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-C	51	13	323	0.157	51	0.2	0.2	13.499	B
B-A	231	58	358	0.647	231	1.7	1.8	28.553	D
C-AB	55	14	786	0.070	55	0.1	0.1	5.069	A
C-A	351	88			351				
A-B	186	47			186				
A-C	551	138			551				

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-C	41	10	435	0.095	42	0.2	0.1	9.350	A
B-A	189	47	404	0.468	192	1.8	0.9	17.480	C
C-AB	39	10	766	0.051	39	0.1	0.1	5.088	A
C-A	292	73			292				
A-B	152	38			152				
A-C	449	112			449				

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-C	35	9	495	0.070	35	0.1	0.1	7.975	A
B-A	158	40	436	0.362	159	0.9	0.6	13.189	B
C-AB	30	7	754	0.040	30	0.1	0.1	5.082	A
C-A	248	62			248				
A-B	127	32			127				
A-C	376	94			376				

2029 Adjusted Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.58	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.58	A

Traffic Demand

Demand Set Details

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

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	542	100.000
B		ONE HOUR	✓	178	100.000
C		ONE HOUR	✓	451	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	191	351
	B	141	0	37
	C	405	46	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	1	0	8
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	9.04	0.1	A	34	51
B-A	0.41	16.15	0.7	C	129	194
C-AB	0.12	4.84	0.3	A	78	118
C-A					335	503
A-B					175	283
A-C					322	483

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	559	0.050	28	0.0	0.1	7.311	A
B-A	106	27	451	0.235	105	0.0	0.3	10.475	B
C-AB	56	14	807	0.069	55	0.0	0.1	4.823	A
C-A	284	71			284				
A-B	144	38			144				
A-C	264	66			264				

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-C	33	8	527	0.063	33	0.1	0.1	7.879	A
B-A	127	32	421	0.301	126	0.3	0.4	12.301	B
C-AB	74	18	829	0.089	74	0.1	0.2	4.805	A
C-A	331	83			331				
A-B	172	43			172				
A-C	316	79			316				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	472	0.086	41	0.1	0.1	9.012	A
B-A	155	39	380	0.408	154	0.4	0.7	16.008	C
C-AB	105	26	883	0.122	105	0.2	0.3	4.801	A
C-A	391	98			391				
A-B	210	53			210				
A-C	386	97			386				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	471	0.087	41	0.1	0.1	9.039	A
B-A	155	39	380	0.408	155	0.7	0.7	16.148	C
C-AB	105	26	883	0.122	105	0.3	0.3	4.809	A
C-A	391	98			391				
A-B	210	53			210				
A-C	386	97			386				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	525	0.063	33	0.1	0.1	7.904	A
B-A	127	32	421	0.301	128	0.7	0.4	12.429	B
C-AB	74	19	830	0.089	75	0.3	0.2	4.822	A
C-A	331	83			331				
A-B	172	43			172				
A-C	316	79			316				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	558	0.050	28	0.1	0.1	7.338	A
B-A	106	27	451	0.236	107	0.4	0.3	10.585	B
C-AB	56	14	807	0.069	56	0.2	0.1	4.838	A
C-A	284	71			284				
A-B	144	36			144				
A-C	264	66			264				

2029 + Dev Adjusted, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.68	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.68	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 + Dev Adjusted	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	✓	549	100.000
B		ONE HOUR	✓	234	100.000
C		ONE HOUR	✓	371	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	171	378
	B	216	0	18
	C	343	28	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	6
	B	1	0	2
	C	6	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	10.61	0.1	B	17	25
B-A	0.60	23.03	1.5	C	198	297
C-AB	0.07	4.95	0.1	A	44	65
C-A					297	445
A-B					157	235
A-C					347	520

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-C	14	3	520	0.026	13	0.0	0.0	7.244	A
B-A	163	41	461	0.353	160	0.0	0.5	12.016	B
C-AB	32	8	775	0.041	31	0.0	0.1	4.936	A
C-A	248	62			248				
A-B	129	32			129				
A-C	285	71			285				

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-C	16	4	468	0.035	16	0.0	0.0	8.131	A
B-A	194	49	433	0.448	193	0.5	0.8	15.069	C
C-AB	41	10	790	0.052	41	0.1	0.1	4.910	A
C-A	292	73			292				
A-B	154	38			154				
A-C	340	85			340				

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-C	20	5	370	0.054	20	0.0	0.1	10.487	B
B-A	238	59	395	0.602	235	0.8	1.4	22.370	C
C-AB	58	14	814	0.071	58	0.1	0.1	4.880	A
C-A	351	88			351				
A-B	188	47			188				
A-C	416	104			416				

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-C	20	5	366	0.054	20	0.1	0.1	10.614	B
B-A	238	59	395	0.602	238	1.4	1.5	23.026	C
C-AB	58	14	814	0.071	58	0.1	0.1	4.894	A
C-A	351	88			351				
A-B	188	47			188				
A-C	416	104			416				

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-C	16	4	464	0.035	16	0.1	0.0	8.205	A
B-A	194	49	433	0.448	197	1.5	0.8	15.529	C
C-AB	41	10	790	0.052	42	0.1	0.1	4.934	A
C-A	292	73			292				
A-B	154	38			154				
A-C	340	85			340				

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-C	14	3	518	0.026	14	0.0	0.0	7.287	A
B-A	163	41	461	0.353	164	0.8	0.6	12.282	B
C-AB	32	8	775	0.041	32	0.1	0.1	4.953	A
C-A	248	62			248				
A-B	129	32			129				
A-C	285	71			285				

2029 + Dev Adjusted, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.67	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.67	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 + Dev Adjusted	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	529	100.000
B		ONE HOUR	✓	168	100.000
C		ONE HOUR	✓	460	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	195	334
	B	131	0	37
	C	386	74	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	2
	B	1	0	8
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	8.74	0.1	A	34	51
B-A	0.38	15.68	0.6	C	120	180
C-AB	0.19	5.29	0.4	A	122	184
C-A					300	450
A-B					179	268
A-C					308	460

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	568	0.049	28	0.0	0.1	7.196	A
B-A	99	25	448	0.220	97	0.0	0.3	10.349	B
C-AB	88	22	799	0.109	87	0.0	0.2	5.086	A
C-A	259	65			259				
A-B	147	37			147				
A-C	251	63			251				

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-C	33	8	537	0.062	33	0.1	0.1	7.714	A
B-A	118	29	418	0.282	117	0.3	0.4	12.087	B
C-AB	116	29	820	0.141	115	0.2	0.3	5.151	A
C-A	298	74			298				
A-B	175	44			175				
A-C	300	75			300				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	486	0.084	41	0.1	0.1	8.719	A
B-A	144	36	376	0.383	143	0.4	0.6	15.559	C
C-AB	163	41	851	0.192	163	0.3	0.4	5.284	A
C-A	343	86			343				
A-B	215	54			215				
A-C	368	92			368				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	485	0.084	41	0.1	0.1	8.741	A
B-A	144	36	376	0.384	144	0.6	0.6	15.681	C
C-AB	164	41	852	0.192	164	0.4	0.4	5.295	A
C-A	343	86			343				
A-B	215	54			215				
A-C	368	92			368				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	536	0.062	33	0.1	0.1	7.737	A
B-A	118	29	417	0.282	119	0.6	0.4	12.200	B
C-AB	116	29	821	0.141	117	0.4	0.3	5.172	A
C-A	298	74			298				
A-B	175	44			175				
A-C	300	75			300				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	567	0.049	28	0.1	0.1	7.221	A
B-A	99	25	447	0.220	99	0.4	0.3	10.450	B
C-AB	88	22	800	0.110	88	0.3	0.2	5.108	A
C-A	258	65			258				
A-B	147	37			147				
A-C	251	63			251				