

T20517

Brascote Lane, Newbold Verdon



Appendix K

B585/Bagworth Road – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
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Filename: T20517 - Barlestone Rd-Bagworth Rd PRTM.j10
 Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs
 Report generation date: 28/04/2023 13:53:01

- »2021 Base, AM
- »2021 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
	2021 Base									
Stream B-C	D1	0.7	10.09	0.40	B	D2	0.7	9.74	0.41	A
Stream B-A		0.0	9.79	0.04	A		0.1	10.32	0.08	B
Stream C-AB		0.8	9.11	0.40	A		1.0	7.98	0.44	A
	2024 Growth Base									
Stream B-C	D3	0.7	10.32	0.41	B	D4	0.7	9.95	0.42	A
Stream B-A		0.0	9.91	0.04	A		0.1	10.47	0.09	B
Stream C-AB		0.9	9.31	0.42	A		1.0	8.16	0.45	A
	2029 Adjusted Base									
Stream B-C	D5	2.6	21.49	0.72	C	D6	0.8	10.39	0.44	B
Stream B-A		0.0	9.16	0.04	A		0.1	10.64	0.09	B
Stream C-AB		0.5	7.56	0.28	A		1.1	8.47	0.47	A
	2029 + Dev Adjusted									
Stream B-C	D7	2.5	21.25	0.72	C	D8	1.0	11.36	0.49	B
Stream B-A		0.0	9.47	0.04	A		0.1	10.77	0.09	B
Stream C-AB		0.6	8.18	0.34	A		1.2	8.72	0.49	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	Barlestone Rd (B585)/Bagworth Rd (B585) TWO-LANES
Location	Newbold Verdon
Site number	
Date	23/08/2021
Version	
Status	(new file)
Identifier	
Client	Richborough Estates
Jobnumber	T20517
Enumerator	HUBTRANSPORT\Max.Law
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	2021 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2021 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

2021 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		5.84	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.84	A

Arms

Arms

Arm	Name	Description	Arm type
A	untitled		Major
B	untitled		Minor
C	untitled		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	6.00			250.0	✓	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 (Left) (m)	Lane Width (Right) (m)	Visibility to left (m)	Visibility to right (m)
B	Two lanes	3.10	2.76	110	100

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	551	0.100	0.254	0.159	0.382
B-C	694	0.106	0.269	-	-
C-B	719	0.278	0.278	-	-

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	2021 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	✓	245	100.000
B		ONE HOUR	✓	239	100.000
C		ONE HOUR	✓	328	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	44	201
	B	13	0	228
	C	109	219	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	4
	B	0	0	5
	C	9	9	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	0.40	10.09	0.7	B	207	311
B-A	0.04	9.79	0.0	A	12	18
C-AB	0.40	9.11	0.8	A	235	352
C-A					66	99
A-B					40	61
A-C					184	277

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	170	43	646	0.263	169	0.0	0.4	7.896	A
B-A	10	2	436	0.022	10	0.0	0.0	8.439	A
C-AB	188	47	719	0.259	184	0.0	0.4	7.322	A
C-A	61	15			61				
A-B	33	8			33				
A-C	151	38			151				

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	203	51	636	0.319	203	0.4	0.5	8.705	A
B-A	12	3	413	0.028	12	0.0	0.0	8.961	A
C-AB	228	57	720	0.317	228	0.4	0.6	7.971	A
C-A	67	17			67				
A-B	40	10			40				
A-C	181	45			181				

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	249	62	623	0.399	248	0.5	0.7	10.053	B
B-A	14	4	382	0.037	14	0.0	0.0	9.775	A
C-AB	290	72	721	0.402	289	0.6	0.8	9.070	A
C-A	71	18			71				
A-B	48	12			48				
A-C	221	55			221				

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	249	62	623	0.399	249	0.7	0.7	10.095	B
B-A	14	4	382	0.037	14	0.0	0.0	9.785	A
C-AB	290	72	721	0.402	290	0.8	0.8	9.111	A
C-A	71	18			71				
A-B	48	12			48				
A-C	221	55			221				

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	203	51	636	0.319	204	0.7	0.5	8.756	A
B-A	12	3	413	0.028	12	0.0	0.0	8.976	A
C-AB	228	57	720	0.317	229	0.8	0.6	8.022	A
C-A	67	17			67				
A-B	40	10			40				
A-C	181	45			181				

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	170	43	646	0.263	171	0.5	0.4	7.961	A
B-A	10	2	435	0.022	10	0.0	0.0	8.480	A
C-AB	186	47	719	0.259	187	0.6	0.4	7.383	A
C-A	61	15			61				
A-B	33	8			33				
A-C	151	38			151				

2021 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		5.97	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.97	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2021 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	✓	148	100.000
B		ONE HOUR	✓	288	100.000
C		ONE HOUR	✓	436	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	10	138
	B	29	0	237
	C	201	235	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	6
	B	0	0	2
	C	3	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	0.41	9.74	0.7	A	217	326
B-A	0.08	10.32	0.1	B	27	40
C-AB	0.44	7.98	1.0	A	283	425
C-A					117	175
A-B					9	14
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-C	178	45	657	0.272	177	0.0	0.4	7.631	A
B-A	22	5	435	0.050	22	0.0	0.1	8.696	A
C-AB	219	55	781	0.281	218	0.0	0.5	8.412	A
C-A	109	27			109				
A-B	8	2			8				
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-C	213	53	649	0.328	213	0.4	0.5	8.405	A
B-A	26	7	412	0.063	26	0.1	0.1	9.316	A
C-AB	274	68	794	0.345	273	0.5	0.6	8.955	A
C-A	118	30			118				
A-B	9	2			9				
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-C	261	65	638	0.409	260	0.5	0.7	9.696	A
B-A	32	8	381	0.084	32	0.1	0.1	10.301	B
C-AB	356	89	812	0.439	355	0.6	0.9	7.931	A
C-A	124	31			124				
A-B	11	3			11				
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-C	261	65	638	0.409	261	0.7	0.7	9.737	A
B-A	32	8	381	0.084	32	0.1	0.1	10.316	B
C-AB	357	89	813	0.439	357	0.9	1.0	7.983	A
C-A	123	31			123				
A-B	11	3			11				
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-C	213	53	649	0.328	214	0.7	0.5	8.457	A
B-A	26	7	412	0.063	26	0.1	0.1	9.338	A
C-AB	274	69	795	0.345	276	1.0	0.6	7.020	A
C-A	118	29			118				
A-B	9	2			9				
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-C	178	45	657	0.272	179	0.5	0.4	7.696	A
B-A	22	5	435	0.050	22	0.1	0.1	8.724	A
C-AB	220	55	782	0.281	221	0.6	0.5	6.475	A
C-A	108	27			108				
A-B	8	2			8				
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		5.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.98	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	✓	251	100.000
B		ONE HOUR	✓	245	100.000
C		ONE HOUR	✓	337	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	45	206
	B	13	0	232
	C	112	225	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	4
	B	0	0	5
	C	9	9	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	0.41	10.32	0.7	B	213	319
B-A	0.04	9.91	0.0	A	12	18
C-AB	0.42	9.31	0.9	A	242	383
C-A					67	100
A-B					41	62
A-C					189	284

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	175	44	645	0.271	173	0.0	0.4	7.989	A
B-A	10	2	433	0.023	10	0.0	0.0	8.499	A
C-AB	192	48	719	0.267	190	0.0	0.4	7.399	A
C-A	62	15			62				
A-B	34	8			34				
A-C	155	39			155				

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	209	52	635	0.328	208	0.4	0.5	8.842	A
B-A	12	3	410	0.029	12	0.0	0.0	9.043	A
C-AB	235	59	720	0.327	235	0.4	0.6	8.084	A
C-A	68	17			68				
A-B	40	10			40				
A-C	185	46			185				

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	255	64	622	0.411	255	0.5	0.7	10.275	B
B-A	14	4	378	0.038	14	0.0	0.0	9.895	A
C-AB	299	75	721	0.415	298	0.6	0.9	9.286	A
C-A	72	18			72				
A-B	50	12			50				
A-C	227	57			227				

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	255	64	622	0.411	255	0.7	0.7	10.322	B
B-A	14	4	378	0.038	14	0.0	0.0	9.906	A
C-AB	299	75	722	0.415	299	0.9	0.9	9.310	A
C-A	72	18			72				
A-B	50	12			50				
A-C	227	57			227				

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	209	52	635	0.328	209	0.7	0.5	8.897	A
B-A	12	3	409	0.029	12	0.0	0.0	9.057	A
C-AB	236	59	720	0.327	237	0.9	0.6	8.141	A
C-A	67	17			67				
A-B	40	10			40				
A-C	185	46			185				

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	175	44	645	0.271	175	0.5	0.4	8.058	A
B-A	10	2	432	0.023	10	0.0	0.0	8.521	A
C-AB	192	48	719	0.267	193	0.6	0.4	7.466	A
C-A	62	15			62				
A-B	34	8			34				
A-C	155	39			155				

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		6.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.12	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	✓	151	100.000
B		ONE HOUR	✓	273	100.000
C		ONE HOUR	✓	447	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	10	141
	B	30	0	243
	C	206	241	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	6
	B	0	0	2
	C	3	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	0.42	9.95	0.7	A	223	334
B-A	0.09	10.47	0.1	B	28	41
C-AB	0.45	8.16	1.0	A	293	439
C-A					117	176
A-B					9	14
A-C					129	194

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	183	46	656	0.279	181	0.0	0.4	7.715	A
B-A	23	6	433	0.052	22	0.0	0.1	8.772	A
C-AB	226	57	783	0.289	224	0.0	0.5	8.467	A
C-A	110	28			110				
A-B	8	2			8				
A-C	106	27			106				

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	218	55	648	0.337	218	0.4	0.5	8.536	A
B-A	27	7	409	0.066	27	0.1	0.1	9.420	A
C-AB	283	71	796	0.355	282	0.5	0.7	7.044	A
C-A	119	30			119				
A-B	9	2			9				
A-C	127	32			127				

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	268	67	636	0.420	267	0.5	0.7	9.905	A
B-A	33	8	377	0.088	33	0.1	0.1	10.456	B
C-AB	369	92	815	0.452	367	0.7	1.0	8.099	A
C-A	124	31			124				
A-B	11	3			11				
A-C	155	39			155				

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	268	67	636	0.420	268	0.7	0.7	9.951	A
B-A	33	8	377	0.088	33	0.1	0.1	10.474	B
C-AB	369	92	815	0.453	369	1.0	1.0	8.155	A
C-A	123	31			123				
A-B	11	3			11				
A-C	155	39			155				

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	218	55	648	0.337	219	0.7	0.5	8.588	A
B-A	27	7	408	0.066	27	0.1	0.1	9.442	A
C-AB	283	71	797	0.356	285	1.0	0.7	7.118	A
C-A	119	30			119				
A-B	9	2			9				
A-C	127	32			127				

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	183	46	656	0.279	183	0.5	0.4	7.784	A
B-A	23	6	432	0.052	23	0.1	0.1	8.801	A
C-AB	227	57	783	0.290	228	0.7	0.5	6.537	A
C-A	110	27			110				
A-B	8	2			8				
A-C	106	27			106				

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		10.92	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.92	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
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	✓	249	100.000
B		ONE HOUR	✓	420	100.000
C		ONE HOUR	✓	287	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	46	203
	B	13	0	407
	C	114	153	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	4
	B	0	0	5
	C	9	9	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	0.72	21.49	2.6	C	373	580
B-A	0.04	9.16	0.0	A	12	18
C-AB	0.28	7.56	0.5	A	165	248
C-A					80	120
A-B					42	63
A-C					188	279

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	306	77	645	0.475	303	0.0	0.9	10.914	B
B-A	10	2	453	0.022	10	0.0	0.0	8.117	A
C-AB	131	33	721	0.181	130	0.0	0.3	6.631	A
C-A	70	18			70				
A-B	35	9			35				
A-C	153	38			153				

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	366	91	636	0.575	364	0.9	1.4	13.806	B
B-A	12	3	434	0.027	12	0.0	0.0	8.529	A
C-AB	160	40	722	0.222	160	0.3	0.3	6.969	A
C-A	80	20			80				
A-B	41	10			41				
A-C	182	46			182				

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	448	112	623	0.720	444	1.4	2.5	20.578	C
B-A	14	4	407	0.035	14	0.0	0.0	9.157	A
C-AB	204	51	723	0.282	204	0.3	0.5	7.548	A
C-A	90	22			90				
A-B	51	13			51				
A-C	224	56			224				

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	448	112	623	0.720	448	2.5	2.6	21.488	C
B-A	14	4	407	0.035	14	0.0	0.0	9.161	A
C-AB	204	51	723	0.282	204	0.5	0.5	7.564	A
C-A	90	22			90				
A-B	51	13			51				
A-C	224	56			224				

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	366	91	636	0.575	370	2.6	1.5	14.460	B
B-A	12	3	433	0.027	12	0.0	0.0	8.538	A
C-AB	161	40	722	0.223	161	0.5	0.4	7.012	A
C-A	79	20			79				
A-B	41	10			41				
A-C	182	46			182				

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	306	77	645	0.475	308	1.5	1.0	11.281	B
B-A	10	2	453	0.022	10	0.0	0.0	8.132	A
C-AB	131	33	721	0.182	131	0.4	0.3	6.662	A
C-A	70	18			70				
A-B	35	9			35				
A-C	153	38			153				

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		6.47	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.47	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	✓	154	100.000
B		ONE HOUR	✓	287	100.000
C		ONE HOUR	✓	455	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	12	142
	B	31	0	256
	C	204	251	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	6
	B	0	0	2
	C	3	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	0.44	10.39	0.8	B	235	352
B-A	0.09	10.64	0.1	B	28	43
C-AB	0.47	8.47	1.1	A	304	456
C-A					113	170
A-B					11	17
A-C					130	195

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	193	48	655	0.294	191	0.0	0.4	7.886	A
B-A	23	6	430	0.054	23	0.0	0.1	8.849	A
C-AB	235	59	781	0.301	233	0.0	0.5	6.588	A
C-A	107	27			107				
A-B	9	2			9				
A-C	107	27			107				

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	230	58	647	0.356	230	0.4	0.6	8.787	A
B-A	28	7	406	0.069	28	0.1	0.1	9.528	A
C-AB	294	73	795	0.370	293	0.5	0.7	7.225	A
C-A	115	29			115				
A-B	11	3			11				
A-C	128	32			128				

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	282	70	635	0.444	281	0.6	0.8	10.331	B
B-A	34	9	373	0.092	34	0.1	0.1	10.619	B
C-AB	383	96	813	0.471	381	0.7	1.1	8.402	A
C-A	118	30			118				
A-B	13	3			13				
A-C	156	39			156				

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	282	70	635	0.444	282	0.8	0.8	10.387	B
B-A	34	9	372	0.092	34	0.1	0.1	10.639	B
C-AB	383	96	813	0.471	383	1.1	1.1	8.470	A
C-A	118	29			118				
A-B	13	3			13				
A-C	156	39			156				

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	230	58	647	0.356	231	0.8	0.6	8.852	A
B-A	28	7	405	0.069	28	0.1	0.1	9.552	A
C-AB	294	74	795	0.370	296	1.1	0.7	7.306	A
C-A	115	29			115				
A-B	11	3			11				
A-C	128	32			128				

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	193	48	655	0.294	193	0.6	0.4	7.965	A
B-A	23	6	429	0.054	23	0.1	0.1	8.880	A
C-AB	236	59	782	0.302	237	0.7	0.5	6.661	A
C-A	107	27			107				
A-B	9	2			9				
A-C	107	27			107				

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		10.86	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.86	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
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	✓	249	100.000
B		ONE HOUR	✓	418	100.000
C		ONE HOUR	✓	300	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	46	203
	B	13	0	405
	C	117	183	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	4
	B	0	0	5
	C	9	9	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	0.72	21.25	2.5	C	372	557
B-A	0.04	9.47	0.0	A	12	18
C-AB	0.34	8.18	0.6	A	198	298
C-A					77	115
A-B					42	63
A-C					188	279

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	305	76	645	0.472	301	0.0	0.9	10.872	B
B-A	10	2	445	0.022	10	0.0	0.0	8.276	A
C-AB	157	39	722	0.217	156	0.0	0.3	6.916	A
C-A	69	17			69				
A-B	35	9			35				
A-C	153	38			153				

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	364	91	636	0.573	362	0.9	1.4	13.725	B
B-A	12	3	423	0.028	12	0.0	0.0	8.742	A
C-AB	193	48	723	0.266	192	0.3	0.4	7.388	A
C-A	77	19			77				
A-B	41	10			41				
A-C	182	46			182				

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	446	111	623	0.716	441	1.4	2.5	20.371	C
B-A	14	4	395	0.036	14	0.0	0.0	9.458	A
C-AB	245	61	725	0.338	245	0.4	0.6	8.159	A
C-A	85	21			85				
A-B	51	13			51				
A-C	224	56			224				

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	446	111	623	0.716	446	2.5	2.5	21.247	C
B-A	14	4	395	0.036	14	0.0	0.0	9.466	A
C-AB	245	61	726	0.338	245	0.6	0.6	8.164	A
C-A	85	21			85				
A-B	51	13			51				
A-C	224	56			224				

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	364	91	636	0.573	368	2.5	1.5	14.361	B
B-A	12	3	423	0.028	12	0.0	0.0	8.752	A
C-AB	193	48	724	0.267	194	0.6	0.5	7.419	A
C-A	77	19			77				
A-B	41	10			41				
A-C	182	46			182				

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	305	76	645	0.472	307	1.5	1.0	11.231	B
B-A	10	2	444	0.022	10	0.0	0.0	8.294	A
C-AB	157	39	722	0.218	158	0.5	0.3	6.958	A
C-A	69	17			69				
A-B	35	9			35				
A-C	153	38			153				

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		7.00	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.00	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	✓	155	100.000
B		ONE HOUR	✓	314	100.000
C		ONE HOUR	✓	486	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	12	143
	B	31	0	283
	C	207	259	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	6
	B	0	0	2
	C	3	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	0.49	11.36	1.0	B	260	390
B-A	0.09	10.77	0.1	B	28	43
C-AB	0.49	8.72	1.2	A	315	473
C-A					112	169
A-B					11	17
A-C					131	197

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	213	53	655	0.325	211	0.0	0.5	8.238	A
B-A	23	6	427	0.055	23	0.0	0.1	8.909	A
C-AB	243	61	783	0.311	241	0.0	0.5	6.672	A
C-A	107	27			107				
A-B	9	2			9				
A-C	108	27			108				

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	254	64	647	0.393	254	0.5	0.7	9.331	A
B-A	28	7	402	0.069	28	0.1	0.1	9.611	A
C-AB	304	76	796	0.382	304	0.5	0.7	7.359	A
C-A	114	29			114				
A-B	11	3			11				
A-C	129	32			129				

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	312	78	635	0.491	310	0.7	1.0	11.271	B
B-A	34	9	389	0.093	34	0.1	0.1	10.747	B
C-AB	397	99	815	0.487	395	0.7	1.1	8.645	A
C-A	116	29			116				
A-B	13	3			13				
A-C	157	39			157				

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	312	78	635	0.491	312	1.0	1.0	11.355	B
B-A	34	9	388	0.093	34	0.1	0.1	10.769	B
C-AB	397	99	815	0.488	397	1.1	1.2	8.722	A
C-A	116	29			116				
A-B	13	3			13				
A-C	157	39			157				

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	254	64	646	0.394	256	1.0	0.7	9.422	A
B-A	28	7	402	0.069	28	0.1	0.1	9.639	A
C-AB	305	76	797	0.383	307	1.2	0.8	7.445	A
C-A	114	28			114				
A-B	11	3			11				
A-C	129	32			129				

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	213	53	655	0.325	214	0.7	0.5	8.341	A
B-A	23	6	426	0.055	23	0.1	0.1	8.942	A
C-AB	244	61	783	0.312	245	0.8	0.5	6.752	A
C-A	107	27			107				
A-B	9	2			9				
A-C	108	27			108				

T20517

Brascote Lane, Newbold Verdon



Appendix L

A447/B585/Bosworth Road – PICADY Assessment

Junctions 10	
PICADY 10 - Priority Intersection Module	
Version: 10.0.4.1693	
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Filename: T20517 - A447-B585-Bosworth Rd PRTM.j10

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

Report generation date: 28/04/2023 13:54:00

- »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	0.4	12.65	0.29	B	D2	0.3	9.41	0.22	A
Stream B-AD		1.5	33.43	0.60	D		1.1	23.83	0.51	C
Stream A-BCD		0.2	7.97	0.13	A		0.1	7.38	0.10	A
Stream D-A		0.6	40.11	0.36	E		0.3	15.13	0.24	C
Stream D-BC		5.0	65.79	0.86	F		2.3	33.14	0.70	D
Stream C-ABD		0.3	9.91	0.21	A		0.4	9.56	0.29	A
	2024 Growth Base									
Stream B-C	D3	0.4	13.01	0.30	B	D4	0.3	9.55	0.23	A
Stream B-AD		1.6	34.87	0.61	D		1.1	24.49	0.52	C
Stream A-BCD		0.2	8.02	0.13	A		0.1	7.41	0.10	A
Stream D-A		0.7	48.11	0.41	E		0.3	15.79	0.25	C
Stream D-BC		5.4	70.66	0.87	F		2.4	34.54	0.71	D
Stream C-ABD		0.3	9.99	0.22	A		0.4	9.63	0.29	A
	2029 Adjusted Base									
Stream B-C	D5	1.1	23.43	0.51	C	D6	0.3	9.22	0.23	A
Stream B-AD		3.1	57.48	0.77	F		1.0	21.97	0.50	C
Stream A-BCD		0.2	8.35	0.14	A		0.1	7.51	0.10	A
Stream D-A		0.9	60.16	0.47	F		0.3	16.28	0.26	C
Stream D-BC		5.8	76.70	0.88	F		2.4	35.21	0.72	E
Stream C-ABD		0.3	9.90	0.22	A		0.3	8.76	0.24	A
	2029 + Dev Adjusted									
Stream B-C	D7	1.1	28.62	0.53	D	D8	0.3	8.93	0.20	A
Stream B-AD		3.8	67.19	0.82	F		1.0	21.21	0.49	C
Stream A-BCD		0.2	8.47	0.14	A		0.1	7.46	0.10	A
Stream D-A		1.0	66.80	0.50	F		0.4	19.35	0.29	C
Stream D-BC		5.9	79.19	0.89	F		3.0	41.03	0.76	E
Stream C-ABD		0.3	9.89	0.21	A		0.3	8.77	0.23	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/B585/Bosworth Rd
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	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		15.63	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	15.63	C

Arms

Arms

Arm	Name	Description	Arm type
A	A447 (N)		Major
B	B585		Minor
C	A447 (S)		Major
D	Bosworth Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A	6.50		✓	3.00	210.0	✓	16.00
C	6.50		✓	3.00	150.0	✓	12.00

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	10.00	7.00	4.50	3.50	✓	2.00	105	152
D	One lane plus flare	10.00	7.00	4.00	2.75	2.75	✓	1.00	85	141

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
A-D	756	-	-	-	0.287	0.287	0.287	-	0.287	-	-
B-AD	659	0.117	0.297	-	-	-	0.187	0.424	0.187	0.117	0.297
B-C	769	0.115	0.292	-	-	-	-	-	-	0.115	0.292
C-B	718	0.272	0.272	-	-	-	-	-	-	0.272	0.272
D-A	748	-	-	-	0.284	0.112	0.284	-	0.112	-	-
D-BC	628	0.178	0.178	0.404	0.283	0.112	0.283	-	0.112	-	-

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	✓	558	100.000
B		ONE HOUR	✓	263	100.000
C		ONE HOUR	✓	633	100.000
D		ONE HOUR	✓	321	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	10	484	64
	B	2	0	109	152
	C	345	94	0	194
	D	52	155	114	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	20	6	3
	B	0	0	4	5
	C	10	5	0	2
	D	13	4	3	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	0.29	12.65	0.4	B	100	150
B-AD	0.60	33.43	1.5	D	141	212
A-BCD	0.13	7.97	0.2	A	59	88
A-B					9	14
A-C					444	686
D-A	0.36	40.11	0.6	E	48	72
D-BC	0.86	85.79	5.0	F	247	370
C-ABD	0.21	9.91	0.3	A	86	129
C-D					178	287
C-A					317	475

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	82	21	576	0.143	81	0.0	0.2	7.580	A
B-AD	116	29	405	0.287	114	0.0	0.4	12.940	B
A-BCD	48	12	607	0.079	48	0.0	0.1	6.631	A
A-B	8	2			8				
A-C	364	91			364				
D-A	39	10	515	0.076	39	0.0	0.1	8.538	A
D-BC	203	51	438	0.462	199	0.0	0.9	15.371	C
C-ABD	71	18	562	0.126	70	0.0	0.1	7.677	A
C-D	146	37			146				
C-A	260	65			260				

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	98	24	526	0.186	98	0.2	0.2	8.742	A
B-AD	138	35	354	0.391	137	0.4	0.7	17.357	C
A-BCD	58	14	577	0.100	57	0.1	0.1	7.132	A
A-B	9	2			9				
A-C	435	109			435				
D-A	47	12	413	0.113	47	0.1	0.1	11.081	B
D-BC	242	60	400	0.604	239	0.9	1.5	22.800	C
C-ABD	85	21	531	0.159	84	0.1	0.2	8.465	A
C-D	174	44			174				
C-A	310	78			310				

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	120	30	425	0.283	119	0.2	0.4	12.230	B
B-AD	170	42	284	0.597	166	0.7	1.4	31.378	D
A-BCD	70	18	537	0.131	70	0.1	0.2	7.947	A
A-B	11	3			11				
A-C	533	133			533				
D-A	57	14	192	0.299	56	0.1	0.5	29.718	D
D-BC	296	74	346	0.855	285	1.5	4.4	52.763	F
C-ABD	103	26	488	0.212	103	0.2	0.3	9.814	A
C-D	214	53			214				
C-A	380	95			380				

08:30 - 08:45

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	120	30	416	0.289	120	0.4	0.4	12.646	B
B-AD	170	42	282	0.602	169	1.4	1.5	33.432	D
A-BCD	70	18	536	0.132	70	0.2	0.2	7.967	A
A-B	11	3			11				
A-C	533	133			533				
D-A	57	14	157	0.364	57	0.5	0.6	40.111	E
D-BC	296	74	345	0.857	294	4.4	5.0	65.786	F
C-ABD	103	26	485	0.213	103	0.3	0.3	9.910	A
C-D	214	53			214				
C-A	380	95			380				

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	98	24	518	0.189	99	0.4	0.2	8.938	A
B-AD	138	35	351	0.394	142	1.5	0.7	18.303	C
A-BCD	58	14	576	0.100	58	0.2	0.1	7.157	A
A-B	9	2			9				
A-C	435	109			435				
D-A	47	12	384	0.122	49	0.6	0.2	12.208	B
D-BC	242	60	399	0.606	255	5.0	1.7	27.872	D
C-ABD	85	21	526	0.161	85	0.3	0.2	8.572	A
C-D	174	44			174				
C-A	310	78			310				

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	82	21	573	0.143	82	0.2	0.2	7.639	A
B-AD	116	29	403	0.287	117	0.7	0.4	13.248	B
A-BCD	48	12	606	0.080	48	0.1	0.1	6.651	A
A-B	8	2			8				
A-C	364	91			364				
D-A	39	10	507	0.077	39	0.2	0.1	8.714	A
D-BC	203	51	438	0.463	206	1.7	0.9	16.263	C
C-ABD	71	18	560	0.126	71	0.2	0.2	7.730	A
C-D	146	37			146				
C-A	260	65			260				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		9.31	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.31	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	✓	400	100.000
B		ONE HOUR	✓	250	100.000
C		ONE HOUR	✓	863	100.000
D		ONE HOUR	✓	303	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	6	343	51
	B	5	0	100	145
	C	434	143	0	88
	D	70	138	97	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	20	0	1	3
	C	2	2	0	3
	D	3	1	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-C	0.22	9.41	0.3	A	92	138
B-AD	0.51	23.83	1.1	C	138	206
A-BCD	0.10	7.38	0.1	A	47	70
A-B					6	8
A-C					315	472
D-A	0.24	15.13	0.3	C	64	96
D-BC	0.70	33.14	2.3	D	214	321
C-ABD	0.29	9.56	0.4	A	131	197
C-D					79	118
C-A					398	597

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	75	19	612	0.123	75	0.0	0.1	6.754	A
B-AD	113	28	431	0.262	111	0.0	0.4	11.619	B
A-BCD	38	10	612	0.063	38	0.0	0.1	6.275	A
A-B	5	1			5				
A-C	258	65			258				
D-A	53	13	543	0.097	52	0.0	0.1	7.546	A
D-BC	175	44	452	0.388	173	0.0	0.6	12.932	B
C-ABD	108	27	599	0.180	107	0.0	0.2	7.445	A
C-D	65	16			65				
C-A	327	82			327				

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	90	22	573	0.157	90	0.1	0.2	7.522	A
B-AD	135	34	385	0.350	134	0.4	0.5	14.803	B
A-BCD	46	11	583	0.079	46	0.1	0.1	6.699	A
A-B	5	1			5				
A-C	308	77			308				
D-A	63	16	472	0.133	63	0.1	0.2	9.046	A
D-BC	209	52	416	0.504	208	0.6	1.0	17.360	C
C-ABD	129	32	575	0.223	128	0.2	0.3	8.210	A
C-D	77	19			77				
C-A	390	98			390				

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	110	28	500	0.220	110	0.2	0.3	9.302	A
B-AD	165	41	322	0.513	163	0.5	1.0	23.165	C
A-BCD	56	14	544	0.103	56	0.1	0.1	7.374	A
A-B	7	2			7				
A-C	378	94			378				
D-A	77	19	332	0.232	76	0.2	0.3	14.490	B
D-BC	257	64	365	0.702	252	1.0	2.1	30.877	D
C-ABD	157	39	543	0.290	157	0.3	0.4	9.503	A
C-D	95	24			95				
C-A	478	119			478				

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	110	28	496	0.222	110	0.3	0.3	9.411	A
B-AD	165	41	321	0.514	165	1.0	1.1	23.829	C
A-BCD	56	14	544	0.103	56	0.1	0.1	7.385	A
A-B	7	2			7				
A-C	378	94			378				
D-A	77	19	322	0.239	77	0.3	0.3	15.130	C
D-BC	257	64	365	0.703	256	2.1	2.3	33.136	D
C-ABD	157	39	542	0.291	157	0.4	0.4	9.559	A
C-D	95	24			95				
C-A	478	119			478				

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	90	22	569	0.158	90	0.3	0.2	7.595	A
B-AD	135	34	384	0.351	137	1.1	0.6	15.202	C
A-BCD	46	11	582	0.079	46	0.1	0.1	6.712	A
A-B	5	1			5				
A-C	308	77			308				
D-A	63	16	464	0.136	64	0.3	0.2	9.277	A
D-BC	209	52	415	0.504	214	2.3	1.1	18.478	C
C-ABD	129	32	573	0.224	129	0.4	0.3	8.270	A
C-D	77	19			77				
C-A	390	98			390				

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	75	19	610	0.123	75	0.2	0.1	6.802	A
B-AD	113	28	430	0.263	114	0.6	0.4	11.821	B
A-BCD	38	10	611	0.063	38	0.1	0.1	6.288	A
A-B	5	1			5				
A-C	258	65			258				
D-A	53	13	539	0.098	53	0.2	0.1	7.630	A
D-BC	175	44	451	0.389	177	1.1	0.7	13.341	B
C-ABD	108	27	598	0.180	108	0.3	0.2	7.500	A
C-D	65	16			65				
C-A	327	82			327				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		16.74	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	16.74	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	563	100.000
B		ONE HOUR	✓	285	100.000
C		ONE HOUR	✓	639	100.000
D		ONE HOUR	✓	323	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	10	488	65
	B	2	0	110	153
	C	348	95	0	196
	D	52	156	115	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	20	6	3
	B	0	0	4	5
	C	10	5	0	2
	D	13	4	3	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	0.30	13.01	0.4	B	101	151
B-AD	0.61	34.87	1.6	D	142	213
A-BCD	0.13	8.02	0.2	A	60	89
A-B					9	14
A-C					448	672
D-A	0.41	48.11	0.7	E	48	72
D-BC	0.87	70.68	5.4	F	249	373
C-ABD	0.22	9.99	0.3	A	87	131
C-D					180	270
C-A					319	479

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	83	21	574	0.144	82	0.0	0.2	7.597	A
B-AD	117	29	402	0.290	115	0.0	0.4	13.073	B
A-BCD	49	12	605	0.081	49	0.0	0.1	6.655	A
A-B	8	2			8				
A-C	367	92			367				
D-A	39	10	512	0.077	39	0.0	0.1	8.605	A
D-BC	204	51	437	0.467	201	0.0	0.9	15.572	C
C-ABD	72	18	561	0.128	71	0.0	0.2	7.708	A
C-D	148	37			148				
C-A	262	65			262				

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	99	25	523	0.189	99	0.2	0.2	8.813	A
B-AD	139	35	351	0.397	138	0.4	0.7	17.650	C
A-BCD	58	15	576	0.102	58	0.1	0.1	7.166	A
A-B	9	2			9				
A-C	439	110			439				
D-A	47	12	407	0.115	47	0.1	0.1	11.268	B
D-BC	244	61	398	0.612	241	0.9	1.5	23.327	C
C-ABD	85	21	529	0.161	85	0.2	0.2	8.510	A
C-D	176	44			176				
C-A	313	78			313				

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	121	30	419	0.289	120	0.2	0.4	12.524	B
B-AD	171	43	280	0.609	167	0.7	1.5	32.511	D
A-BCD	72	18	535	0.134	71	0.1	0.2	7.999	A
A-B	11	3			11				
A-C	537	134			537				
D-A	57	14	178	0.322	56	0.1	0.5	32.907	D
D-BC	298	75	344	0.868	286	1.5	4.6	55.476	F
C-ABD	105	26	486	0.215	104	0.2	0.3	9.888	A
C-D	216	54			216				
C-A	383	96			383				

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	121	30	409	0.296	121	0.4	0.4	13.008	B
B-AD	171	43	278	0.614	170	1.5	1.6	34.867	D
A-BCD	72	18	534	0.134	72	0.2	0.2	8.020	A
A-B	11	3			11				
A-C	537	134			537				
D-A	57	14	140	0.409	56	0.5	0.7	48.106	E
D-BC	298	75	343	0.871	295	4.6	5.4	70.682	F
C-ABD	105	26	483	0.217	105	0.3	0.3	9.994	A
C-D	216	54			216				
C-A	383	96			383				

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	99	25	515	0.192	100	0.4	0.3	9.028	A
B-AD	139	35	348	0.400	143	1.6	0.7	18.697	C
A-BCD	58	15	574	0.102	59	0.2	0.1	7.192	A
A-B	9	2			9				
A-C	439	110			439				
D-A	47	12	374	0.125	49	0.7	0.2	12.598	B
D-BC	244	61	397	0.614	258	5.4	1.8	29.228	D
C-ABD	85	21	524	0.163	86	0.3	0.2	8.626	A
C-D	176	44			176				
C-A	313	78			313				

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	83	21	571	0.145	83	0.3	0.2	7.682	A
B-AD	117	29	401	0.291	118	0.7	0.4	13.398	B
A-BCD	49	12	604	0.081	49	0.1	0.1	6.676	A
A-B	8	2			8				
A-C	367	92			367				
D-A	39	10	503	0.078	39	0.2	0.1	8.785	A
D-BC	204	51	436	0.468	207	1.8	0.9	16.522	C
C-ABD	72	18	559	0.128	72	0.2	0.2	7.764	A
C-D	148	37			148				
C-A	262	65			262				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		9.61	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.61	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	✓	403	100.000
B		ONE HOUR	✓	252	100.000
C		ONE HOUR	✓	669	100.000
D		ONE HOUR	✓	306	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	6	346	51
	B	5	0	101	146
	C	438	144	0	87
	D	71	137	98	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	20	0	1	3
	C	2	2	0	3
	D	3	1	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-C	0.23	9.55	0.3	A	93	139
B-AD	0.52	24.49	1.1	C	139	208
A-BCD	0.10	7.41	0.1	A	47	70
A-B					6	8
A-C					317	476
D-A	0.25	15.79	0.3	C	65	98
D-BC	0.71	34.54	2.4	D	216	323
C-ABD	0.29	9.63	0.4	A	132	198
C-D					80	120
C-A					402	603

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	76	19	611	0.124	75	0.0	0.1	6.781	A
B-AD	114	28	429	0.265	112	0.0	0.4	11.722	B
A-BCD	38	10	610	0.063	38	0.0	0.1	6.289	A
A-B	5	1			5				
A-C	260	65			260				
D-A	53	13	541	0.099	53	0.0	0.1	7.598	A
D-BC	177	44	450	0.393	174	0.0	0.6	13.069	B
C-ABD	108	27	598	0.181	108	0.0	0.2	7.472	A
C-D	65	16			65				
C-A	330	82			330				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	91	23	571	0.159	91	0.1	0.2	7.562	A
B-AD	136	34	383	0.355	135	0.4	0.6	15.004	C
A-BCD	46	11	582	0.079	46	0.1	0.1	6.719	A
A-B	5	1			5				
A-C	311	78			311				
D-A	64	16	468	0.136	64	0.1	0.2	9.159	A
D-BC	211	53	414	0.510	210	0.6	1.0	17.656	C
C-ABD	129	32	574	0.226	129	0.2	0.3	8.250	A
C-D	78	20			78				
C-A	394	98			394				

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	111	28	496	0.224	111	0.2	0.3	9.429	A
B-AD	166	42	319	0.521	164	0.6	1.1	23.757	C
A-BCD	56	14	542	0.104	56	0.1	0.1	7.402	A
A-B	7	2			7				
A-C	381	95			381				
D-A	78	20	323	0.242	78	0.2	0.3	15.038	C
D-BC	259	65	363	0.713	254	1.0	2.2	31.985	D
C-ABD	159	40	541	0.293	158	0.3	0.4	9.569	A
C-D	96	24			96				
C-A	482	121			482				

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	111	28	492	0.226	111	0.3	0.3	9.548	A
B-AD	166	42	318	0.523	166	1.1	1.1	24.488	C
A-BCD	56	14	542	0.104	56	0.1	0.1	7.414	A
A-B	7	2			7				
A-C	381	95			381				
D-A	78	20	313	0.250	78	0.3	0.3	15.788	C
D-BC	259	65	362	0.714	258	2.2	2.4	34.544	D
C-ABD	159	40	540	0.294	159	0.4	0.4	9.627	A
C-D	96	24			96				
C-A	482	121			482				

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	91	23	567	0.160	91	0.3	0.2	7.646	A
B-AD	136	34	381	0.356	138	1.1	0.6	15.434	C
A-BCD	46	11	581	0.079	46	0.1	0.1	6.732	A
A-B	5	1			5				
A-C	311	78			311				
D-A	64	16	459	0.139	65	0.3	0.2	9.414	A
D-BC	211	53	413	0.511	216	2.4	1.1	18.886	C
C-ABD	129	32	572	0.226	130	0.4	0.3	8.313	A
C-D	78	20			78				
C-A	394	98			394				

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	76	19	609	0.125	76	0.2	0.1	6.830	A
B-AD	114	28	428	0.266	115	0.6	0.4	11.934	B
A-BCD	38	10	610	0.063	38	0.1	0.1	6.303	A
A-B	5	1			5				
A-C	260	65			260				
D-A	53	13	536	0.100	54	0.2	0.1	7.684	A
D-BC	177	44	450	0.393	179	1.1	0.7	13.498	B
C-ABD	108	27	597	0.182	109	0.3	0.2	7.528	A
C-D	65	16			65				
C-A	330	82			330				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		21.00	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	21.00	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	555	100.000
B		ONE HOUR	✓	339	100.000
C		ONE HOUR	✓	661	100.000
D		ONE HOUR	✓	318	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	10	480	65
	B	2	0	152	185
	C	374	95	0	192
	D	52	151	115	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	20	6	3
	B	0	0	4	5
	C	10	5	0	2
	D	13	4	3	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	0.51	23.43	1.1	C	139	209
B-AD	0.77	57.48	3.1	F	172	257
A-BCD	0.14	8.35	0.2	A	60	89
A-B					9	14
A-C					440	681
D-A	0.47	60.16	0.9	F	48	72
D-BC	0.88	76.70	5.8	F	244	366
C-ABD	0.22	9.90	0.3	A	87	131
C-D					176	284
C-A					343	515

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	114	29	568	0.202	113	0.0	0.3	8.223	A
B-AD	141	35	397	0.354	139	0.0	0.6	14.470	B
A-BCD	49	12	594	0.082	49	0.0	0.1	6.798	A
A-B	8	2			8				
A-C	361	90			361				
D-A	39	10	506	0.077	39	0.0	0.1	8.700	A
D-BC	200	50	430	0.466	197	0.0	0.9	15.776	C
C-ABD	72	18	563	0.127	71	0.0	0.2	7.666	A
C-D	145	36			145				
C-A	282	70			282				

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	137	34	505	0.271	136	0.3	0.4	10.144	B
B-AD	168	42	346	0.486	167	0.6	1.0	20.902	C
A-BCD	58	15	561	0.104	58	0.1	0.1	7.367	A
A-B	9	2			9				
A-C	432	108			432				
D-A	47	12	400	0.117	47	0.1	0.1	11.490	B
D-BC	239	60	390	0.613	236	0.9	1.5	23.872	C
C-ABD	85	21	532	0.160	85	0.2	0.2	8.450	A
C-D	173	43			173				
C-A	336	84			336				

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	167	42	350	0.478	165	0.4	0.9	20.046	C
B-AD	206	51	271	0.760	199	1.0	2.7	48.337	E
A-BCD	72	18	517	0.138	71	0.1	0.2	8.309	A
A-B	11	3			11				
A-C	528	132			528				
D-A	57	14	165	0.347	56	0.1	0.6	36.689	E
D-BC	293	73	334	0.878	280	1.5	4.8	58.691	F
C-ABD	105	26	490	0.213	104	0.2	0.3	9.790	A
C-D	211	53			211				
C-A	412	103			412				

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	167	42	326	0.514	167	0.9	1.1	23.427	C
B-AD	206	51	288	0.769	205	2.7	3.1	57.483	F
A-BCD	72	18	515	0.139	72	0.2	0.2	8.353	A
A-B	11	3			11				
A-C	528	132			528				
D-A	57	14	122	0.469	56	0.6	0.9	60.164	F
D-BC	293	73	332	0.882	289	4.8	5.8	76.700	F
C-ABD	105	26	486	0.215	105	0.3	0.3	9.898	A
C-D	211	53			211				
C-A	412	103			412				

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	137	34	489	0.279	139	1.1	0.4	10.781	B
B-AD	166	42	342	0.492	176	3.1	1.1	23.754	C
A-BCD	58	15	559	0.105	59	0.2	0.1	7.417	A
A-B	9	2			9				
A-C	432	108			432				
D-A	47	12	363	0.129	50	0.9	0.2	13.105	B
D-BC	239	60	388	0.616	255	5.8	1.8	30.794	D
C-ABD	85	21	527	0.162	86	0.3	0.2	8.572	A
C-D	173	43			173				
C-A	336	84			336				

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	114	29	563	0.203	115	0.4	0.3	8.367	A
B-AD	141	35	396	0.356	143	1.1	0.6	15.017	C
A-BCD	49	12	592	0.083	49	0.1	0.1	6.826	A
A-B	8	2			8				
A-C	361	90			361				
D-A	39	10	497	0.079	39	0.2	0.1	8.899	A
D-BC	200	50	429	0.467	204	1.8	0.9	16.778	C
C-ABD	72	18	561	0.127	72	0.2	0.2	7.721	A
C-D	145	36			145				
C-A	282	70			282				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		9.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.46	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	374	100.000
B		ONE HOUR	✓	261	100.000
C		ONE HOUR	✓	662	100.000
D		ONE HOUR	✓	305	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
	A	B	C	D	
From	A	0	6	317	51
	B	5	0	109	147
	C	471	118	0	73
	D	71	147	87	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	A	B	C	D	
From	A	0	0	2	0
	B	20	0	1	3
	C	2	2	0	3
	D	3	1	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-C	0.23	9.22	0.3	A	100	150
B-AD	0.50	21.97	1.0	C	139	209
A-BCD	0.10	7.51	0.1	A	47	70
A-B					6	8
A-C					291	436
D-A	0.26	16.28	0.3	C	65	98
D-BC	0.72	35.21	2.4	E	215	322
C-ABD	0.24	8.76	0.3	A	108	162
C-D					67	100
C-A					432	648

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	82	21	622	0.132	81	0.0	0.2	6.716	A
B-AD	114	29	440	0.260	113	0.0	0.4	11.331	B
A-BCD	38	10	606	0.063	38	0.0	0.1	6.337	A
A-B	5	1			5				
A-C	239	60			239				
D-A	53	13	536	0.100	53	0.0	0.1	7.678	A
D-BC	176	44	448	0.393	174	0.0	0.6	13.129	B
C-ABD	89	22	604	0.147	88	0.0	0.2	7.107	A
C-D	55	14			55				
C-A	355	89			355				

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	98	24	585	0.168	98	0.2	0.2	7.460	A
B-AD	137	34	397	0.344	136	0.4	0.5	14.220	B
A-BCD	46	11	576	0.080	46	0.1	0.1	6.784	A
A-B	5	1			5				
A-C	285	71			285				
D-A	64	16	462	0.138	64	0.1	0.2	9.293	A
D-BC	210	53	412	0.511	209	0.6	1.0	17.793	C
C-ABD	106	27	581	0.182	106	0.2	0.2	7.720	A
C-D	66	16			66				
C-A	423	106			423				

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	120	30	518	0.232	120	0.2	0.3	9.127	A
B-AD	167	42	338	0.496	166	0.5	1.0	21.443	C
A-BCD	56	14	536	0.105	56	0.1	0.1	7.499	A
A-B	7	2			7				
A-C	349	87			349				
D-A	78	20	317	0.247	78	0.2	0.3	15.463	C
D-BC	258	64	360	0.716	253	1.0	2.3	32.747	D
C-ABD	130	32	550	0.236	130	0.2	0.3	8.721	A
C-D	80	20			80				
C-A	519	130			519				

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	120	30	514	0.233	120	0.3	0.3	9.221	A
B-AD	167	42	337	0.497	167	1.0	1.0	21.966	C
A-BCD	56	14	535	0.105	56	0.1	0.1	7.510	A
A-B	7	2			7				
A-C	349	87			349				
D-A	78	20	306	0.256	78	0.3	0.3	16.277	C
D-BC	258	64	359	0.718	257	2.3	2.4	35.209	E
C-ABD	130	32	549	0.237	130	0.3	0.3	8.763	A
C-D	80	20			80				
C-A	519	130			519				

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	98	24	582	0.169	98	0.3	0.2	7.534	A
B-AD	137	34	396	0.345	138	1.0	0.6	14.559	B
A-BCD	46	11	576	0.080	46	0.1	0.1	6.799	A
A-B	5	1			5				
A-C	285	71			285				
D-A	64	16	453	0.141	65	0.3	0.2	9.561	A
D-BC	210	53	411	0.512	216	2.4	1.1	19.060	C
C-ABD	106	27	579	0.183	106	0.3	0.2	7.770	A
C-D	66	16			66				
C-A	423	106			423				

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	82	21	620	0.132	82	0.2	0.2	6.762	A
B-AD	114	29	439	0.260	115	0.6	0.4	11.514	B
A-BCD	38	10	605	0.063	38	0.1	0.1	6.353	A
A-B	5	1			5				
A-C	239	60			239				
D-A	53	13	531	0.101	54	0.2	0.1	7.767	A
D-BC	176	44	448	0.394	178	1.1	0.7	13.566	B
C-ABD	89	22	603	0.147	89	0.2	0.2	7.149	A
C-D	55	14			55				
C-A	355	89			355				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		23.16	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	23.16	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	555	100.000
B		ONE HOUR	✓	334	100.000
C		ONE HOUR	✓	664	100.000
D		ONE HOUR	✓	317	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	10	480	65
	B	2	0	132	200
	C	377	95	0	192
	D	52	151	114	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	20	6	3
	B	0	0	4	5
	C	10	5	0	2
	D	13	4	3	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	0.53	28.62	1.1	D	121	182
B-AD	0.82	67.19	3.8	F	185	278
A-BCD	0.14	8.47	0.2	A	60	89
A-B					9	14
A-C					440	661
D-A	0.50	66.80	1.0	F	48	72
D-BC	0.89	79.19	5.9	F	243	365
C-ABD	0.21	9.89	0.3	A	87	131
C-D					176	284
C-A					346	519

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	99	25	554	0.179	98	0.0	0.2	8.202	A
B-AD	152	38	403	0.377	150	0.0	0.6	14.777	B
A-BCD	49	12	590	0.083	49	0.0	0.1	6.847	A
A-B	8	2			8				
A-C	361	90			361				
D-A	39	10	504	0.078	39	0.0	0.1	8.731	A
D-BC	200	50	428	0.466	196	0.0	0.9	15.853	C
C-ABD	72	18	564	0.127	71	0.0	0.2	7.683	A
C-D	145	36			145				
C-A	284	71			284				

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	119	30	486	0.244	118	0.2	0.3	10.161	B
B-AD	182	45	351	0.518	180	0.6	1.1	21.853	C
A-BCD	58	15	557	0.105	58	0.1	0.1	7.436	A
A-B	9	2			9				
A-C	432	108			432				
D-A	47	12	398	0.117	47	0.1	0.1	11.569	B
D-BC	238	60	388	0.615	236	0.9	1.6	24.083	C
C-ABD	85	21	533	0.160	85	0.2	0.2	8.445	A
C-D	173	43			173				
C-A	339	85			339				

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	145	36	307	0.473	143	0.3	0.9	22.525	C
B-AD	222	56	276	0.805	213	1.1	3.3	54.021	F
A-BCD	72	18	512	0.140	71	0.1	0.2	8.419	A
A-B	11	3			11				
A-C	528	132			528				
D-A	57	14	160	0.358	55	0.1	0.6	38.377	E
D-BC	292	73	331	0.882	278	1.6	4.9	59.930	F
C-ABD	105	26	490	0.213	104	0.2	0.3	9.783	A
C-D	211	53			211				
C-A	415	104			415				

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	145	36	274	0.530	144	0.9	1.1	28.624	D
B-AD	222	56	273	0.815	220	3.3	3.8	67.191	F
A-BCD	72	18	509	0.141	72	0.2	0.2	8.475	A
A-B	11	3			11				
A-C	528	132			528				
D-A	57	14	115	0.498	56	0.6	1.0	66.800	F
D-BC	292	73	329	0.888	288	4.9	5.9	79.188	F
C-ABD	105	26	487	0.215	105	0.3	0.3	9.893	A
C-D	211	53			211				
C-A	415	104			415				

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	119	30	466	0.255	122	1.1	0.4	10.962	B
B-AD	182	45	347	0.523	192	3.8	1.2	25.837	D
A-BCD	58	15	553	0.106	59	0.2	0.1	7.503	A
A-B	9	2			9				
A-C	432	108			432				
D-A	47	12	358	0.130	50	1.0	0.2	13.326	B
D-BC	238	60	385	0.618	255	5.9	1.8	31.497	D
C-ABD	85	21	527	0.162	86	0.3	0.2	8.571	A
C-D	173	43			173				
C-A	339	85			339				

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	99	25	549	0.181	100	0.4	0.2	8.345	A
B-AD	152	38	402	0.379	154	1.2	0.7	15.415	C
A-BCD	49	12	588	0.083	49	0.1	0.1	6.878	A
A-B	8	2			8				
A-C	361	90			361				
D-A	39	10	495	0.079	39	0.2	0.1	8.937	A
D-BC	200	50	427	0.467	203	1.8	0.9	16.879	C
C-ABD	72	18	562	0.127	72	0.2	0.2	7.720	A
C-D	145	36			145				
C-A	284	71			284				

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	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		10.73	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.73	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 (%)
A		ONE HOUR	✓	375	100.000
B		ONE HOUR	✓	245	100.000
C		ONE HOUR	✓	648	100.000
D		ONE HOUR	✓	321	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	6	318	51
	B	5	0	94	146
	C	462	113	0	73
	D	71	163	87	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	20	0	1	3
	C	2	2	0	3
	D	3	1	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-C	0.20	8.93	0.3	A	86	129
B-AD	0.49	21.21	1.0	C	139	208
A-BCD	0.10	7.46	0.1	A	47	70
A-B					6	8
A-C					292	438
D-A	0.29	19.35	0.4	C	65	98
D-BC	0.76	41.03	3.0	E	229	344
C-ABD	0.23	8.77	0.3	A	104	156
C-D					67	100
C-A					424	636

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	71	18	616	0.115	70	0.0	0.1	6.657	A
B-AD	114	28	446	0.255	112	0.0	0.3	11.136	B
A-BCD	38	10	608	0.063	38	0.0	0.1	6.313	A
A-B	5	1			5				
A-C	239	60			239				
D-A	53	13	527	0.101	53	0.0	0.1	7.813	A
D-BC	188	47	450	0.418	185	0.0	0.7	13.610	B
C-ABD	85	21	601	0.142	84	0.0	0.2	7.103	A
C-D	55	14			55				
C-A	348	87			348				

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	85	21	579	0.146	84	0.1	0.2	7.345	A
B-AD	136	34	402	0.337	135	0.3	0.5	13.903	B
A-BCD	46	11	579	0.079	46	0.1	0.1	6.751	A
A-B	5	1			5				
A-C	286	71			286				
D-A	64	16	447	0.143	64	0.1	0.2	9.668	A
D-BC	225	56	414	0.543	223	0.7	1.2	18.889	C
C-ABD	102	25	577	0.176	101	0.2	0.2	7.715	A
C-D	66	16			66				
C-A	415	104			415				

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	103	26	514	0.201	103	0.2	0.3	8.845	A
B-AD	166	42	343	0.485	166	0.5	0.9	20.718	C
A-BCD	56	14	539	0.104	56	0.1	0.1	7.450	A
A-B	7	2			7				
A-C	350	88			350				
D-A	78	20	284	0.275	77	0.2	0.4	17.853	C
D-BC	275	69	362	0.761	269	1.2	2.8	36.799	E
C-ABD	124	31	545	0.228	124	0.2	0.3	8.715	A
C-D	80	20			80				
C-A	509	127			509				

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	103	26	510	0.203	103	0.3	0.3	8.933	A
B-AD	166	42	341	0.487	166	0.9	1.0	21.213	C
A-BCD	56	14	539	0.104	56	0.1	0.1	7.480	A
A-B	7	2			7				
A-C	350	88			350				
D-A	78	20	289	0.290	78	0.4	0.4	19.352	C
D-BC	275	69	361	0.762	274	2.8	3.0	41.030	E
C-ABD	124	31	543	0.229	124	0.3	0.3	8.766	A
C-D	80	20			80				
C-A	509	127			509				

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	85	21	576	0.147	85	0.3	0.2	7.414	A
B-AD	136	34	401	0.339	137	1.0	0.5	14.239	B
A-BCD	46	11	578	0.079	46	0.1	0.1	6.763	A
A-B	5	1			5				
A-C	286	71			286				
D-A	64	16	434	0.147	65	0.4	0.2	10.061	B
D-BC	225	56	413	0.544	232	3.0	1.3	20.728	C
C-ABD	102	25	575	0.177	102	0.3	0.2	7.774	A
C-D	66	16			66				
C-A	415	104			415				

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	71	18	614	0.115	71	0.2	0.1	6.701	A
B-AD	114	28	444	0.256	114	0.5	0.4	11.312	B
A-BCD	38	10	608	0.063	38	0.1	0.1	6.329	A
A-B	5	1			5				
A-C	239	60			239				
D-A	53	13	522	0.102	54	0.2	0.1	7.920	A
D-BC	188	47	449	0.419	190	1.3	0.7	14.141	B
C-ABD	85	21	599	0.142	85	0.2	0.2	7.147	A
C-D	55	14			55				
C-A	348	87			348				

T20517

Brascote Lane, Newbold Verdon

Appendix M

B582/Mill Lane – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
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Filename: T20517 - B582-Mill Ln PRTM.j10

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

Report generation date: 09/05/2023 09:49:34

- »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	0.2	8.97	0.18	A	D2	0.1	8.28	0.10	A
Stream C-AB		0.1	5.23	0.07	A		0.2	5.37	0.11	A
	2024 Growth Base									
Stream B-AC	D3	0.2	8.99	0.18	A	D4	0.1	8.30	0.10	A
Stream C-AB		0.1	5.22	0.07	A		0.2	5.36	0.11	A
	2029 Adjusted Base									
Stream B-AC	D5	0.2	9.04	0.18	A	D6	0.1	8.36	0.10	A
Stream C-AB		0.1	5.24	0.07	A		0.2	5.36	0.11	A
	2029 + Dev Adjusted									
Stream B-AC	D7	0.2	9.05	0.18	A	D8	0.1	8.33	0.10	A
Stream C-AB		0.1	5.24	0.07	A		0.2	5.35	0.11	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	B582/Mill Lane
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		1.25	A

Junction Network

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

Arms

Arms

Arm	Name	Description	Arm type
A	B582 (E)		Major
B	Mill Lane		Minor
C	B582 (W)		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	6.00			105.0	✓	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	3.68	30	60

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	552	0.101	0.254	0.160	0.383
B-C	707	0.108	0.274	-	-
C-B	635	0.246	0.246	-	-

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	✓	330	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	385	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	A	0	30	300
	B	32	0	51
	C	357	28	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	A	0	3	6
	B	0	0	4
	C	2	7	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	0.18	8.97	0.2	A	76	114
C-AB	0.07	5.23	0.1	A	45	68
C-A					308	462
A-B					28	41
A-C					275	413

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	62	16	547	0.114	62	0.0	0.1	7.599	A
C-AB	33	8	757	0.043	32	0.0	0.1	5.226	A
C-A	257	64			257				
A-B	23	6			23				
A-C	226	56			226				

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	75	19	528	0.141	74	0.1	0.2	8.121	A
C-AB	43	11	783	0.055	43	0.1	0.1	5.109	A
C-A	303	76			303				
A-B	27	7			27				
A-C	270	67			270				

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	91	23	503	0.182	91	0.2	0.2	8.959	A
C-AB	59	15	819	0.073	59	0.1	0.1	4.960	A
C-A	364	91			364				
A-B	33	8			33				
A-C	330	83			330				

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	91	23	503	0.182	91	0.2	0.2	8.967	A
C-AB	60	15	820	0.073	60	0.1	0.1	4.953	A
C-A	364	91			364				
A-B	33	8			33				
A-C	330	83			330				

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	75	19	528	0.141	75	0.2	0.2	8.137	A
C-AB	43	11	783	0.055	43	0.1	0.1	5.098	A
C-A	303	76			303				
A-B	27	7			27				
A-C	270	67			270				

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	62	16	547	0.114	63	0.2	0.1	7.619	A
C-AB	33	8	757	0.043	33	0.1	0.1	5.222	A
C-A	257	64			257				
A-B	23	6			23				
A-C	226	56			226				

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		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	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	✓	383	100.000
B		ONE HOUR	✓	47	100.000
C		ONE HOUR	✓	365	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	38	345
	B	15	0	32
	C	322	43	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	2
	B	0	0	6
	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	0.10	8.28	0.1	A	43	65
C-AB	0.11	5.37	0.2	A	66	99
C-A					269	403
A-B					35	52
A-C					317	475

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	35	9	551	0.064	35	0.0	0.1	7.252	A
C-AB	48	12	730	0.066	48	0.0	0.1	5.362	A
C-A	226	57			226				
A-B	29	7			29				
A-C	260	65			260				

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	42	11	532	0.079	42	0.1	0.1	7.651	A
C-AB	63	16	751	0.084	63	0.1	0.2	5.320	A
C-A	265	66			265				
A-B	34	9			34				
A-C	310	78			310				

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	52	13	504	0.103	52	0.1	0.1	8.276	A
C-AB	87	22	781	0.111	87	0.2	0.2	5.271	A
C-A	315	79			315				
A-B	42	10			42				
A-C	380	95			380				

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	52	13	504	0.103	52	0.1	0.1	8.280	A
C-AB	87	22	781	0.112	87	0.2	0.2	5.271	A
C-A	315	79			315				
A-B	42	10			42				
A-C	380	95			380				

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	42	11	532	0.080	42	0.1	0.1	7.658	A
C-AB	63	16	751	0.084	63	0.2	0.2	5.323	A
C-A	265	66			265				
A-B	34	9			34				
A-C	310	78			310				

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	35	9	551	0.064	35	0.1	0.1	7.261	A
C-AB	49	12	731	0.067	49	0.2	0.1	5.373	A
C-A	226	57			226				
A-B	29	7			29				
A-C	260	65			260				

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		1.25	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
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	✓	332	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	388	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	30	302
	B	32	0	51
	C	360	28	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	6
	B	0	0	4
	C	2	7	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	0.18	8.99	0.2	A	76	114
C-AB	0.07	5.22	0.1	A	45	68
C-A					311	466
A-B					28	41
A-C					277	416

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	62	16	546	0.114	62	0.0	0.1	7.609	A
C-AB	33	8	758	0.043	33	0.0	0.1	5.217	A
C-A	259	65			259				
A-B	23	6			23				
A-C	227	57			227				

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	75	19	528	0.141	74	0.1	0.2	8.135	A
C-AB	43	11	784	0.055	43	0.1	0.1	5.101	A
C-A	306	76			306				
A-B	27	7			27				
A-C	271	68			271				

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	91	23	502	0.182	91	0.2	0.2	8.980	A
C-AB	60	15	821	0.073	60	0.1	0.1	4.949	A
C-A	367	92			367				
A-B	33	8			33				
A-C	333	83			333				

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	91	23	502	0.182	91	0.2	0.2	8.988	A
C-AB	60	15	821	0.073	60	0.1	0.1	4.942	A
C-A	367	92			367				
A-B	33	8			33				
A-C	333	83			333				

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	75	19	528	0.141	75	0.2	0.2	8.149	A
C-AB	43	11	784	0.055	43	0.1	0.1	5.088	A
C-A	308	78			308				
A-B	27	7			27				
A-C	271	68			271				

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	62	16	546	0.114	63	0.2	0.1	7.632	A
C-AB	33	8	758	0.043	33	0.1	0.1	5.213	A
C-A	259	65			259				
A-B	23	6			23				
A-C	227	57			227				

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		0.97	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.97	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	388	100.000
B		ONE HOUR	✓	47	100.000
C		ONE HOUR	✓	388	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	38	348
	B	15	0	32
	C	325	43	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	6
	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	0.10	8.30	0.1	A	43	65
C-AB	0.11	5.36	0.2	A	67	100
C-A					271	407
A-B					35	52
A-C					319	479

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	35	9	550	0.064	35	0.0	0.1	7.283	A
C-AB	49	12	731	0.067	48	0.0	0.1	5.355	A
C-A	228	57			228				
A-B	29	7			29				
A-C	262	65			262				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	11	531	0.080	42	0.1	0.1	7.666	A
C-AB	63	16	753	0.084	63	0.1	0.2	5.312	A
C-A	267	67			267				
A-B	34	9			34				
A-C	313	78			313				

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	52	13	503	0.103	52	0.1	0.1	8.298	A
C-AB	88	22	783	0.112	87	0.2	0.2	5.260	A
C-A	318	79			318				
A-B	42	10			42				
A-C	383	96			383				

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	52	13	503	0.103	52	0.1	0.1	8.302	A
C-AB	88	22	783	0.112	88	0.2	0.2	5.282	A
C-A	318	79			318				
A-B	42	10			42				
A-C	383	96			383				

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	42	11	531	0.080	42	0.1	0.1	7.670	A
C-AB	64	16	753	0.084	64	0.2	0.2	5.315	A
C-A	267	67			267				
A-B	34	9			34				
A-C	313	78			313				

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	35	9	550	0.064	35	0.1	0.1	7.272	A
C-AB	49	12	732	0.067	49	0.2	0.1	5.363	A
C-A	228	57			228				
A-B	29	7			29				
A-C	262	65			262				

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		1.25	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
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	✓	342	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	384	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	30	312
	B	32	0	51
	C	356	28	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	6
	B	0	0	4
	C	2	7	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	0.18	9.04	0.2	A	76	114
C-AB	0.07	5.24	0.1	A	45	68
C-A					307	481
A-B					28	41
A-C					288	429

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	62	16	544	0.115	62	0.0	0.1	7.636	A
C-AB	33	8	754	0.043	32	0.0	0.1	5.243	A
C-A	256	64			256				
A-B	23	6			23				
A-C	235	59			235				

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	75	19	525	0.142	74	0.1	0.2	8.173	A
C-AB	43	11	780	0.055	43	0.1	0.1	5.131	A
C-A	302	76			302				
A-B	27	7			27				
A-C	280	70			280				

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	91	23	499	0.183	91	0.2	0.2	9.033	A
C-AB	60	15	816	0.073	59	0.1	0.1	4.980	A
C-A	363	91			363				
A-B	33	8			33				
A-C	344	86			344				

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	91	23	499	0.183	91	0.2	0.2	9.045	A
C-AB	60	15	816	0.073	60	0.1	0.1	4.975	A
C-A	363	91			363				
A-B	33	8			33				
A-C	344	86			344				

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	75	19	525	0.142	75	0.2	0.2	8.188	A
C-AB	43	11	780	0.055	43	0.1	0.1	5.117	A
C-A	302	78			302				
A-B	27	7			27				
A-C	280	70			280				

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	62	16	544	0.115	63	0.2	0.1	7.660	A
C-AB	33	8	754	0.044	33	0.1	0.1	5.241	A
C-A	256	64			256				
A-B	23	6			23				
A-C	235	59			235				

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		0.96	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.96	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	394	100.000
B		ONE HOUR	✓	47	100.000
C		ONE HOUR	✓	373	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	A	0	38	356
	B	15	0	32
From	C	330	43	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	A	0	0	2
	B	0	0	6
From	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	0.10	8.36	0.1	A	43	65
C-AB	0.11	5.36	0.2	A	67	101
C-A					275	413
A-B					35	52
A-C					327	490

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	35	9	548	0.065	35	0.0	0.1	7.291	A
C-AB	49	12	733	0.067	49	0.0	0.1	5.347	A
C-A	232	58			232				
A-B	29	7			29				
A-C	268	67			268				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	11	528	0.080	42	0.1	0.1	7.702	A
C-AB	64	16	754	0.085	64	0.1	0.2	5.301	A
C-A	271	68			271				
A-B	34	9			34				
A-C	320	80			320				

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	52	13	500	0.104	52	0.1	0.1	8.353	A
C-AB	89	22	785	0.113	88	0.2	0.2	5.253	A
C-A	322	81			322				
A-B	42	10			42				
A-C	392	98			392				

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	52	13	500	0.104	52	0.1	0.1	8.357	A
C-AB	89	22	785	0.113	89	0.2	0.2	5.255	A
C-A	322	81			322				
A-B	42	10			42				
A-C	392	98			392				

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	42	11	528	0.080	42	0.1	0.1	7.709	A
C-AB	64	16	754	0.085	64	0.2	0.2	5.306	A
C-A	271	68			271				
A-B	34	9			34				
A-C	320	80			320				

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	35	9	548	0.065	35	0.1	0.1	7.303	A
C-AB	49	12	733	0.067	49	0.2	0.1	5.358	A
C-A	232	58			232				
A-B	29	7			29				
A-C	268	67			268				

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	✓	342	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	385	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	0	30	312	
	32	0	51	
From	357	28	0	

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	0	3	6	
	0	0	4	
From	2	7	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	0.18	9.05	0.2	A	76	114
C-AB	0.07	5.24	0.1	A	45	68
C-A					308	462
A-B					28	41
A-C					286	429

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	62	16	544	0.115	62	0.0	0.1	7.638	A
C-AB	33	8	755	0.043	32	0.0	0.1	5.239	A
C-A	257	64			257				
A-B	23	6			23				
A-C	235	59			235				

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	75	19	525	0.142	74	0.1	0.2	8.174	A
C-AB	43	11	780	0.055	43	0.1	0.1	5.126	A
C-A	303	76			303				
A-B	27	7			27				
A-C	280	70			280				

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	91	23	499	0.183	91	0.2	0.2	9.035	A
C-AB	60	15	817	0.073	59	0.1	0.1	4.978	A
C-A	364	91			364				
A-B	33	8			33				
A-C	344	86			344				

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	91	23	499	0.183	91	0.2	0.2	9.047	A
C-AB	60	15	817	0.073	60	0.1	0.1	4.972	A
C-A	364	91			364				
A-B	33	8			33				
A-C	344	86			344				

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	75	19	525	0.142	75	0.2	0.2	8.188	A
C-AB	43	11	781	0.055	43	0.1	0.1	5.111	A
C-A	303	78			303				
A-B	27	7			27				
A-C	280	70			280				

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	62	16	544	0.115	63	0.2	0.1	7.658	A
C-AB	33	8	755	0.044	33	0.1	0.1	5.235	A
C-A	257	64			257				
A-B	23	6			23				
A-C	235	59			235				

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		0.97	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.97	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	390	100.000
B		ONE HOUR	✓	47	100.000
C		ONE HOUR	✓	373	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	38	352
	B	15	0	32
	C	330	43	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	6
	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	0.10	8.33	0.1	A	43	65
C-AB	0.11	5.35	0.2	A	67	101
C-A					275	413
A-B					35	52
A-C					323	485

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	35	9	549	0.064	35	0.0	0.1	7.279	A
C-AB	49	12	733	0.067	48	0.0	0.1	5.342	A
C-A	232	58			232				
A-B	29	7			29				
A-C	265	66			265				

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	42	11	529	0.080	42	0.1	0.1	7.687	A
C-AB	64	16	755	0.085	64	0.1	0.2	5.297	A
C-A	271	68			271				
A-B	34	9			34				
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-AC	52	13	501	0.103	52	0.1	0.1	8.330	A
C-AB	88	22	786	0.113	88	0.2	0.2	5.246	A
C-A	322	81			322				
A-B	42	10			42				
A-C	388	97			388				

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	52	13	501	0.103	52	0.1	0.1	8.334	A
C-AB	89	22	786	0.113	89	0.2	0.2	5.246	A
C-A	322	81			322				
A-B	42	10			42				
A-C	388	97			388				

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	42	11	529	0.080	42	0.1	0.1	7.694	A
C-AB	64	16	755	0.085	64	0.2	0.2	5.298	A
C-A	271	68			271				
A-B	34	9			34				
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-AC	35	9	549	0.064	35	0.1	0.1	7.288	A
C-AB	49	12	734	0.067	49	0.2	0.1	5.353	A
C-A	232	58			232				
A-B	29	7			29				
A-C	265	66			265				

T20517

Brascote Lane, Newbold Verdon



Appendix N

B582/Kirkby Lane – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
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Filename: T20517 - B582-Kirkby Ln PRTM.j10
Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs
Report generation date: 28/04/2023 13:56:16

- »2021 Base, AM
- »2021 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
	2021 Base									
Stream B-AC	D1	0.1	9.64	0.08	A	D2	0.1	10.11	0.10	B
Stream C-AB		0.1	4.85	0.03	A		0.0	4.57	0.02	A
	2024 Growth Base									
Stream B-AC	D3	0.1	9.80	0.09	A	D4	0.1	10.28	0.10	B
Stream C-AB		0.1	4.83	0.04	A		0.0	4.55	0.02	A
	2029 Adjusted Base									
Stream B-AC	D5	0.1	9.10	0.06	A	D6	0.3	11.95	0.22	B
Stream C-AB		0.1	4.86	0.04	A		0.0	4.54	0.02	A
	2029 + Dev Adjusted									
Stream B-AC	D7	0.1	9.16	0.06	A	D8	0.3	13.31	0.23	B
Stream C-AB		0.1	4.81	0.04	A		0.0	4.64	0.02	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	B582/Kirkby Lane
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	2021 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2021 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

2021 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		0.57	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.57	A

Arms

Arms

Arm	Name	Description	Arm type
A	B582 (E)		Major
B	Kirkby Lane		Minor
C	B582 (W)		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	7.00			250.0	✓	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	3.82	20	40

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	545	0.095	0.240	0.151	0.343
B-C	702	0.103	0.260	-	-
C-B	719	0.266	0.266	-	-

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	2021 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	✓	347	100.000
B		ONE HOUR	✓	33	100.000
C		ONE HOUR	✓	395	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	A	0	38	311
	B	22	0	11
	C	380	15	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	A	0	8	7
	B	9	0	9
	C	4	13	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	9.64	0.1	A	30	45
C-AB	0.03	4.85	0.1	A	24	35
C-A					339	508
A-B					33	50
A-C					285	428

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	25	8	490	0.051	25	0.0	0.1	8.422	A
C-AB	17	4	832	0.021	17	0.0	0.0	4.847	A
C-A	280	70			280				
A-B	27	7			27				
A-C	234	59			234				

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	30	7	471	0.063	30	0.1	0.1	8.896	A
C-AB	22	6	857	0.026	22	0.0	0.0	4.722	A
C-A	333	83			333				
A-B	32	8			32				
A-C	280	70			280				

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	36	9	443	0.082	36	0.1	0.1	9.636	A
C-AB	31	8	892	0.035	31	0.0	0.1	4.552	A
C-A	404	101			404				
A-B	40	10			40				
A-C	342	86			342				

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	36	9	443	0.082	36	0.1	0.1	9.640	A
C-AB	31	8	892	0.035	31	0.1	0.1	4.540	A
C-A	404	101			404				
A-B	40	10			40				
A-C	342	86			342				

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	30	7	471	0.063	30	0.1	0.1	8.903	A
C-AB	23	6	857	0.026	23	0.1	0.0	4.697	A
C-A	333	83			333				
A-B	32	8			32				
A-C	280	70			280				

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	25	6	490	0.051	25	0.1	0.1	8.433	A
C-AB	17	4	832	0.021	17	0.0	0.0	4.836	A
C-A	280	70			280				
A-B	27	7			27				
A-C	234	59			234				

2021 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		0.52	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.52	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2021 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	✓	407	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	351	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	15	392
	B	32	0	4
	C	344	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	0	1
	B	0	0	0
	C	3	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	10.11	0.1	B	33	50
C-AB	0.02	4.57	0.0	A	11	16
C-A					311	467
A-B					14	21
A-C					380	540

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	27	7	448	0.061	27	0.0	0.1	8.552	A
C-AB	8	2	804	0.010	8	0.0	0.0	4.581	A
C-A	258	64			258				
A-B	11	3			11				
A-C	295	74			295				

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	32	8	426	0.076	32	0.1	0.1	9.148	A
C-AB	10	3	824	0.012	10	0.0	0.0	4.469	A
C-A	305	78			305				
A-B	13	3			13				
A-C	352	88			352				

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	40	10	396	0.100	40	0.1	0.1	10.108	B
C-AB	14	3	852	0.016	14	0.0	0.0	4.347	A
C-A	373	93			373				
A-B	17	4			17				
A-C	432	108			432				

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	40	10	396	0.100	40	0.1	0.1	10.112	B
C-AB	14	3	852	0.016	14	0.0	0.0	4.353	A
C-A	373	93			373				
A-B	17	4			17				
A-C	432	108			432				

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	32	8	426	0.076	32	0.1	0.1	9.157	A
C-AB	10	3	824	0.012	10	0.0	0.0	4.480	A
C-A	305	76			305				
A-B	13	3			13				
A-C	352	88			352				

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	27	7	448	0.061	27	0.1	0.1	8.567	A
C-AB	8	2	804	0.010	8	0.0	0.0	4.565	A
C-A	256	64			256				
A-B	11	3			11				
A-C	295	74			295				

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		0.58	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.58	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
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	✓	356	100.000
B		ONE HOUR	✓	34	100.000
C		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	37	319
	B	23	0	11
From	C	390	15	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	6	7
	B	9	0	9
From	C	4	13	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	9.80	0.1	A	31	47
C-AB	0.04	4.83	0.1	A	24	38
C-A					348	521
A-B					34	51
A-C					293	439

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	26	6	486	0.053	25	0.0	0.1	8.513	A
C-AB	17	4	835	0.021	17	0.0	0.0	4.826	A
C-A	287	72			287				
A-B	28	7			28				
A-C	240	60			240				

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	31	8	466	0.066	31	0.1	0.1	9.011	A
C-AB	23	6	861	0.026	23	0.0	0.0	4.698	A
C-A	341	85			341				
A-B	33	8			33				
A-C	287	72			287				

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	37	9	438	0.086	37	0.1	0.1	9.796	A
C-AB	32	8	897	0.035	32	0.0	0.1	4.524	A
C-A	414	104			414				
A-B	41	10			41				
A-C	351	88			351				

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	37	9	438	0.086	37	0.1	0.1	9.800	A
C-AB	32	8	897	0.035	32	0.1	0.1	4.514	A
C-A	414	104			414				
A-B	41	10			41				
A-C	351	88			351				

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	31	8	488	0.068	31	0.1	0.1	9.017	A
C-AB	23	6	861	0.027	23	0.1	0.0	4.874	A
C-A	341	85			341				
A-B	33	8			33				
A-C	287	72			287				

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	26	8	488	0.053	26	0.1	0.1	8.528	A
C-AB	17	4	835	0.021	17	0.0	0.0	4.812	A
C-A	287	72			287				
A-B	28	7			28				
A-C	240	60			240				

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		0.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	417	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	380	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	15	402
	B	33	0	4
	C	353	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	1
	B	0	0	0
	C	3	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	10.28	0.1	B	34	51
C-AB	0.02	4.55	0.0	A	11	16
C-A					320	479
A-B					14	21
A-C					369	553

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	28	7	444	0.083	28	0.0	0.1	8.634	A
C-AB	8	2	807	0.010	8	0.0	0.0	4.547	A
C-A	283	66			283				
A-B	11	3			11				
A-C	303	76			303				

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	33	8	422	0.079	33	0.1	0.1	9.260	A
C-AB	10	3	827	0.012	10	0.0	0.0	4.453	A
C-A	313	78			313				
A-B	13	3			13				
A-C	361	90			361				

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	41	10	391	0.104	41	0.1	0.1	10.270	B
C-AB	14	4	856	0.017	14	0.0	0.0	4.327	A
C-A	382	96			382				
A-B	17	4			17				
A-C	443	111			443				

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	41	10	391	0.104	41	0.1	0.1	10.276	B
C-AB	14	4	856	0.017	14	0.0	0.0	4.331	A
C-A	382	96			382				
A-B	17	4			17				
A-C	443	111			443				

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	33	8	422	0.079	33	0.1	0.1	9.288	A
C-AB	10	3	827	0.012	10	0.0	0.0	4.462	A
C-A	313	78			313				
A-B	13	3			13				
A-C	361	90			361				

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	28	7	444	0.063	28	0.1	0.1	8.647	A
C-AB	8	2	807	0.010	8	0.0	0.0	4.552	A
C-A	263	66			263				
A-B	11	3			11				
A-C	303	76			303				

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		0.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.45	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	✓	382	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	397	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	35	327
	B	14	0	11
	C	382	15	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	6	7
	B	9	0	9
	C	4	13	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	0.06	9.10	0.1	A	23	34
C-AB	0.04	4.86	0.1	A	24	36
C-A					341	511
A-B					32	48
A-C					300	450

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	19	5	506	0.037	19	0.0	0.0	8.049	A
C-AB	17	4	831	0.021	17	0.0	0.0	4.856	A
C-A	282	70			282				
A-B	26	7			26				
A-C	246	62			246				

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	22	6	486	0.046	22	0.0	0.1	8.458	A
C-AB	23	6	855	0.026	23	0.0	0.0	4.732	A
C-A	334	84			334				
A-B	31	8			31				
A-C	294	73			294				

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	28	7	459	0.060	27	0.1	0.1	9.094	A
C-AB	31	8	890	0.035	31	0.0	0.1	4.562	A
C-A	406	101			406				
A-B	39	10			39				
A-C	360	90			360				

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	28	7	459	0.060	28	0.1	0.1	9.096	A
C-AB	31	8	890	0.035	31	0.1	0.1	4.550	A
C-A	406	101			406				
A-B	39	10			39				
A-C	360	90			360				

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	22	6	486	0.046	23	0.1	0.1	8.461	A
C-AB	23	6	855	0.026	23	0.1	0.0	4.706	A
C-A	334	84			334				
A-B	31	8			31				
A-C	294	73			294				

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	19	5	506	0.037	19	0.1	0.0	8.057	A
C-AB	17	4	831	0.021	17	0.0	0.0	4.845	A
C-A	282	70			282				
A-B	26	7			26				
A-C	246	62			246				

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		1.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.12	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	✓	414	100.000
B		ONE HOUR	✓	75	100.000
C		ONE HOUR	✓	382	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	A	0	15	399
	B	71	0	4
From	C	355	7	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	A	0	0	1
	B	0	0	0
From	C	3	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	0.22	11.95	0.3	B	69	103
C-AB	0.02	4.54	0.0	A	11	16
C-A					321	482
A-B					14	21
A-C					366	549

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	56	14	437	0.129	56	0.0	0.1	9.433	A
C-AB	8	2	809	0.010	8	0.0	0.0	4.539	A
C-A	265	66			265				
A-B	11	3			11				
A-C	300	75			300				

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	67	17	415	0.163	67	0.1	0.2	10.358	B
C-AB	10	3	829	0.012	10	0.0	0.0	4.443	A
C-A	315	79			315				
A-B	13	3			13				
A-C	359	90			359				

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	83	21	384	0.215	82	0.2	0.3	11.931	B
C-AB	14	4	858	0.017	14	0.0	0.0	4.317	A
C-A	384	96			384				
A-B	17	4			17				
A-C	439	110			439				

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	83	21	384	0.215	83	0.3	0.3	11.955	B
C-AB	14	4	859	0.017	14	0.0	0.0	4.322	A
C-A	384	96			384				
A-B	17	4			17				
A-C	439	110			439				

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	67	17	415	0.163	68	0.3	0.2	10.388	B
C-AB	10	3	829	0.012	10	0.0	0.0	4.452	A
C-A	315	79			315				
A-B	13	3			13				
A-C	359	90			359				

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	56	14	437	0.129	57	0.2	0.2	9.471	A
C-AB	8	2	809	0.010	8	0.0	0.0	4.543	A
C-A	285	66			285				
A-B	11	3			11				
A-C	300	75			300				

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		0.44	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.44	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
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	✓	364	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	412	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	33	331
	B	14	0	11
From	C	397	15	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	6	7
	B	9	0	9
From	C	4	13	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	0.06	9.16	0.1	A	23	34
C-AB	0.04	4.81	0.1	A	24	36
C-A					354	531
A-B					30	45
A-C					304	456

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	19	5	504	0.037	19	0.0	0.0	8.080	A
C-AB	18	4	837	0.021	17	0.0	0.0	4.812	A
C-A	293	73			293				
A-B	25	6			25				
A-C	249	62			249				

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	22	6	484	0.046	22	0.0	0.1	8.500	A
C-AB	23	6	863	0.027	23	0.0	0.0	4.683	A
C-A	347	87			347				
A-B	30	7			30				
A-C	298	74			298				

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	28	7	456	0.080	27	0.1	0.1	9.158	A
C-AB	32	8	901	0.036	32	0.0	0.1	4.508	A
C-A	421	105			421				
A-B	36	9			36				
A-C	384	91			384				

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	28	7	456	0.080	28	0.1	0.1	9.158	A
C-AB	32	8	901	0.036	32	0.1	0.1	4.497	A
C-A	421	105			421				
A-B	36	9			36				
A-C	384	91			384				

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	22	6	484	0.046	23	0.1	0.1	8.505	A
C-AB	23	6	863	0.027	23	0.1	0.0	4.657	A
C-A	347	87			347				
A-B	30	7			30				
A-C	298	74			298				

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	19	5	504	0.037	19	0.1	0.0	8.088	A
C-AB	18	4	837	0.021	18	0.0	0.0	4.801	A
C-A	293	73			293				
A-B	25	6			25				
A-C	249	62			249				

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		1.03	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.03	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	✓	536	100.000
B		ONE HOUR	✓	72	100.000
C		ONE HOUR	✓	373	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
	0	15	521	
	68	0	4	
	366	7	0	

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
	0	0	1	
	0	0	0	
	3	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	0.23	13.31	0.3	B	66	99
C-AB	0.02	4.64	0.0	A	11	17
C-A					331	497
A-B					14	21
A-C					478	717

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	54	14	414	0.131	54	0.0	0.1	9.979	A
C-AB	8	2	793	0.010	8	0.0	0.0	4.631	A
C-A	273	68			273				
A-B	11	3			11				
A-C	392	98			392				

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	65	16	387	0.167	65	0.1	0.2	11.160	B
C-AB	11	3	812	0.013	11	0.0	0.0	4.544	A
C-A	325	81			325				
A-B	13	3			13				
A-C	468	117			468				

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	79	20	350	0.227	79	0.2	0.3	13.279	B
C-AB	15	4	839	0.018	15	0.0	0.0	4.426	A
C-A	396	99			396				
A-B	17	4			17				
A-C	574	143			574				

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	79	20	350	0.227	79	0.3	0.3	13.313	B
C-AB	15	4	839	0.018	15	0.0	0.0	4.432	A
C-A	396	99			396				
A-B	17	4			17				
A-C	574	143			574				

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	65	16	387	0.167	65	0.3	0.2	11.199	B
C-AB	11	3	812	0.013	11	0.0	0.0	4.556	A
C-A	325	81			325				
A-B	13	3			13				
A-C	468	117			468				

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	54	14	414	0.131	54	0.2	0.2	10.024	B
C-AB	8	2	793	0.010	8	0.0	0.0	4.638	A
C-A	273	68			273				
A-B	11	3			11				
A-C	392	98			392				

T20517

Brascote Lane, Newbold Verdon

Appendix O

B585 Garland Lane/B585 Bagworth Road/Barlestone Road – PICADY Assessment

Junctions 10				
PICADY 10 - Priority Intersection Module				
Version: 10.0.4.1693				
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Filename: T20517 - Barlestone Rd-Garland Ln-Bagworth Rd PRTM.j10
Path: C:\Users\MaxLaw\OneDrive - Hub Transport Planning Ltd\Desktop\NV Juncs
Report generation date: 28/04/2023 13:57:05

- »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	0.1	7.12	0.09	A	D2	0.1	6.67	0.05	A
Stream B-A		0.5	10.29	0.34	B		0.4	9.38	0.29	A
Stream C-AB		0.2	7.85	0.12	A		0.1	6.95	0.09	A
	2024 Growth Base									
Stream B-C	D3	0.1	7.13	0.09	A	D4	0.1	6.68	0.05	A
Stream B-A		0.5	10.34	0.34	B		0.4	9.42	0.29	A
Stream C-AB		0.2	7.84	0.12	A		0.1	6.95	0.09	A
	2029 Adjusted Base									
Stream B-C	D5	0.1	7.21	0.09	A	D6	0.1	6.78	0.05	A
Stream B-A		0.7	11.46	0.41	B		0.5	9.76	0.31	A
Stream C-AB		0.2	7.00	0.12	A		0.1	6.70	0.07	A
	2029 + Dev Adjusted									
Stream B-C	D7	0.1	6.53	0.08	A	D8	0.1	6.89	0.05	A
Stream B-A		0.3	8.84	0.21	A		0.5	10.30	0.34	B
Stream C-AB		0.2	7.08	0.12	A		0.1	6.61	0.07	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	Barlestone Road/Garland lane/Bagworth 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		4.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.85	A

Arms

Arms

Arm	Name	Description	Arm type
A	Garland Lane		Major
B	Bagworth Road		Minor
C	Barlestone Road		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	6.10			0.0	✓	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	8.70	6.20	4.60	4.20	✓	3.00	100	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	640	0.116	0.292	0.184	0.417
B-C	658	0.101	0.255	-	-
C-B	574	0.221	0.221	-	-

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	✓	198	100.000
B		ONE HOUR	✓	220	100.000
C		ONE HOUR	✓	121	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	125	73
	B	173	0	47
	C	64	57	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	6	7
	B	6	0	2
	C	2	11	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	7.12	0.1	A	43	65
B-A	0.34	10.29	0.5	B	159	238
C-AB	0.12	7.85	0.2	A	58	88
C-A					53	79
A-B					115	172
A-C					67	100

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	599	0.059	35	0.0	0.1	6.514	A
B-A	130	33	586	0.222	129	0.0	0.3	8.325	A
C-AB	47	12	575	0.082	46	0.0	0.1	7.505	A
C-A	44	11			44				
A-B	94	24			94				
A-C	55	14			55				

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	42	11	588	0.072	42	0.1	0.1	6.753	A
B-A	156	39	576	0.270	155	0.3	0.4	9.067	A
C-AB	57	14	575	0.099	57	0.1	0.1	7.650	A
C-A	52	13			52				
A-B	112	28			112				
A-C	66	16			66				

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	52	13	588	0.091	52	0.1	0.1	7.115	A
B-A	190	48	561	0.339	190	0.4	0.5	10.259	B
C-AB	72	18	576	0.124	71	0.1	0.2	7.848	A
C-A	62	15			62				
A-B	138	34			138				
A-C	80	20			80				

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	52	13	587	0.091	52	0.1	0.1	7.119	A
B-A	190	48	561	0.339	190	0.5	0.5	10.292	B
C-AB	72	18	576	0.124	72	0.2	0.2	7.846	A
C-A	62	15			62				
A-B	138	34			138				
A-C	80	20			80				

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	42	11	588	0.072	42	0.1	0.1	6.762	A
B-A	156	39	576	0.270	156	0.5	0.4	9.109	A
C-AB	57	14	575	0.099	57	0.2	0.1	7.644	A
C-A	52	13			52				
A-B	112	28			112				
A-C	66	16			66				

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	598	0.059	35	0.1	0.1	6.529	A
B-A	130	33	588	0.222	131	0.4	0.3	8.385	A
C-AB	47	12	575	0.082	47	0.1	0.1	7.511	A
C-A	44	11			44				
A-B	94	24			94				
A-C	55	14			55				

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		3.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.46	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	246	100.000
B		ONE HOUR	✓	175	100.000
C		ONE HOUR	✓	123	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	188	58
	B	150	0	25
	C	85	38	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	0
	B	5	0	0
	C	0	3	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	6.67	0.1	A	23	34
B-A	0.29	9.38	0.4	A	138	206
C-AB	0.09	6.95	0.1	A	41	61
C-A					72	109
A-B					173	259
A-C					53	80

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	19	5	595	0.032	19	0.0	0.0	6.245	A
B-A	113	28	593	0.190	112	0.0	0.2	7.845	A
C-AB	32	8	578	0.056	32	0.0	0.1	6.764	A
C-A	60	15			60				
A-B	142	35			142				
A-C	44	11			44				

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	22	6	583	0.039	22	0.0	0.0	6.416	A
B-A	135	34	582	0.232	135	0.2	0.3	8.436	A
C-AB	39	10	579	0.068	39	0.1	0.1	6.843	A
C-A	71	18			71				
A-B	169	42			169				
A-C	52	13			52				

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	28	7	567	0.049	27	0.0	0.1	6.668	A
B-A	165	41	568	0.291	165	0.3	0.4	9.361	A
C-AB	50	12	581	0.086	50	0.1	0.1	6.951	A
C-A	85	21			85				
A-B	207	52			207				
A-C	64	16			64				

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	28	7	567	0.049	28	0.1	0.1	6.670	A
B-A	165	41	568	0.291	165	0.4	0.4	9.382	A
C-AB	50	12	581	0.086	50	0.1	0.1	6.951	A
C-A	85	21			85				
A-B	207	52			207				
A-C	64	16			64				

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	22	6	583	0.039	23	0.1	0.0	6.422	A
B-A	135	34	582	0.232	135	0.4	0.3	8.465	A
C-AB	39	10	579	0.068	40	0.1	0.1	6.844	A
C-A	71	18			71				
A-B	169	42			169				
A-C	52	13			52				

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	19	5	595	0.032	19	0.0	0.0	6.252	A
B-A	113	28	593	0.191	113	0.3	0.2	7.889	A
C-AB	32	8	578	0.056	32	0.1	0.1	6.770	A
C-A	60	15			60				
A-B	142	35			142				
A-C	44	11			44				

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		4.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.85	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	✓	200	100.000
B		ONE HOUR	✓	221	100.000
C		ONE HOUR	✓	122	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	126	74
	B	174	0	47
	C	65	57	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	6	7
	B	6	0	2
	C	2	11	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	7.13	0.1	A	43	65
B-A	0.34	10.34	0.5	B	160	239
C-AB	0.12	7.84	0.2	A	59	88
C-A					53	80
A-B					116	173
A-C					68	102

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	598	0.059	35	0.0	0.1	6.521	A
B-A	131	33	586	0.224	130	0.0	0.3	8.345	A
C-AB	47	12	575	0.082	46	0.0	0.1	7.502	A
C-A	45	11			45				
A-B	95	24			95				
A-C	56	14			56				

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	42	11	585	0.072	42	0.1	0.1	6.762	A
B-A	156	39	575	0.272	156	0.3	0.4	9.095	A
C-AB	57	14	575	0.099	57	0.1	0.1	7.647	A
C-A	53	13			53				
A-B	113	28			113				
A-C	67	17			67				

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	52	13	567	0.091	52	0.1	0.1	7.128	A
B-A	192	48	561	0.342	191	0.4	0.5	10.302	B
C-AB	72	18	576	0.125	72	0.1	0.2	7.845	A
C-A	63	16			63				
A-B	139	35			139				
A-C	81	20			81				

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	52	13	567	0.091	52	0.1	0.1	7.132	A
B-A	192	48	561	0.342	192	0.5	0.5	10.337	B
C-AB	72	18	576	0.125	72	0.2	0.2	7.841	A
C-A	63	16			63				
A-B	139	35			139				
A-C	81	20			81				

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	42	11	585	0.072	42	0.1	0.1	6.772	A
B-A	156	39	575	0.272	157	0.5	0.4	9.136	A
C-AB	57	14	575	0.099	57	0.2	0.1	7.638	A
C-A	53	13			53				
A-B	113	28			113				
A-C	67	17			67				

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	597	0.059	35	0.1	0.1	6.537	A
B-A	131	33	586	0.224	131	0.4	0.3	8.405	A
C-AB	47	12	575	0.082	47	0.1	0.1	7.511	A
C-A	45	11			45				
A-B	95	24			95				
A-C	56	14			56				

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		3.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.46	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
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	✓	248	100.000
B		ONE HOUR	✓	176	100.000
C		ONE HOUR	✓	124	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	190	58
	B	151	0	25
	C	86	38	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	0
	B	5	0	0
	C	0	3	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	6.68	0.1	A	23	34
B-A	0.29	9.42	0.4	A	139	208
C-AB	0.09	6.95	0.1	A	41	61
C-A					73	110
A-B					174	262
A-C					53	80

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	19	5	595	0.032	19	0.0	0.0	6.249	A
B-A	114	28	593	0.192	113	0.0	0.2	7.862	A
C-AB	32	8	578	0.056	32	0.0	0.1	6.762	A
C-A	61	15			61				
A-B	143	36			143				
A-C	44	11			44				

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	22	6	583	0.039	22	0.0	0.0	6.422	A
B-A	136	34	582	0.233	135	0.2	0.3	8.459	A
C-AB	39	10	579	0.068	39	0.1	0.1	6.841	A
C-A	72	18			72				
A-B	171	43			171				
A-C	52	13			52				

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	28	7	567	0.049	27	0.0	0.1	6.676	A
B-A	166	42	568	0.293	166	0.3	0.4	9.397	A
C-AB	50	13	581	0.086	50	0.1	0.1	6.948	A
C-A	86	22			86				
A-B	209	52			209				
A-C	64	16			64				

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	28	7	567	0.049	28	0.1	0.1	6.678	A
B-A	166	42	568	0.293	166	0.4	0.4	9.418	A
C-AB	50	13	581	0.086	50	0.1	0.1	6.947	A
C-A	86	22			86				
A-B	209	52			209				
A-C	64	16			64				

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	22	6	583	0.039	23	0.1	0.0	6.425	A
B-A	136	34	582	0.233	136	0.4	0.3	8.487	A
C-AB	39	10	579	0.068	40	0.1	0.1	6.842	A
C-A	72	18			72				
A-B	171	43			171				
A-C	52	13			52				

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	19	5	594	0.032	19	0.0	0.0	6.259	A
B-A	114	28	592	0.192	114	0.3	0.3	7.904	A
C-AB	32	8	578	0.056	32	0.1	0.1	6.768	A
C-A	61	15			61				
A-B	143	36			143				
A-C	44	11			44				

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		5.37	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.37	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	✓	180	100.000
B		ONE HOUR	✓	281	100.000
C		ONE HOUR	✓	189	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	151	9
	B	214	0	47
	C	134	55	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	6	7
	B	6	0	2
	C	2	11	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	7.21	0.1	A	43	65
B-A	0.41	11.46	0.7	B	196	295
C-AB	0.12	7.00	0.2	A	63	95
C-A					110	165
A-B					139	208
A-C					8	12

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	596	0.059	35	0.0	0.1	6.549	A
B-A	161	40	593	0.272	160	0.0	0.4	8.782	A
C-AB	49	12	618	0.080	49	0.0	0.1	6.926	A
C-A	93	23			93				
A-B	114	28			114				
A-C	7	2			7				

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	42	11	582	0.073	42	0.1	0.1	6.800	A
B-A	192	48	582	0.330	192	0.4	0.5	9.758	A
C-AB	61	15	626	0.098	61	0.1	0.1	6.961	A
C-A	109	27			109				
A-B	136	34			136				
A-C	8	2			8				

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	52	13	561	0.092	52	0.1	0.1	7.203	A
B-A	236	59	569	0.414	235	0.5	0.7	11.397	B
C-AB	79	20	639	0.124	79	0.1	0.2	7.005	A
C-A	129	32			129				
A-B	166	42			166				
A-C	10	2			10				

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	52	13	561	0.092	52	0.1	0.1	7.208	A
B-A	236	59	569	0.414	236	0.7	0.7	11.457	B
C-AB	79	20	639	0.124	79	0.2	0.2	7.000	A
C-A	129	32			129				
A-B	166	42			166				
A-C	10	2			10				

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	42	11	582	0.073	42	0.1	0.1	6.812	A
B-A	192	48	582	0.330	193	0.7	0.5	9.829	A
C-AB	61	15	626	0.098	62	0.2	0.2	6.945	A
C-A	109	27			109				
A-B	136	34			136				
A-C	8	2			8				

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	595	0.059	35	0.1	0.1	6.566	A
B-A	161	40	592	0.272	162	0.5	0.4	8.870	A
C-AB	50	12	618	0.080	50	0.2	0.1	6.931	A
C-A	93	23			93				
A-B	114	28			114				
A-C	7	2			7				

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		3.17	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.17	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	✓	294	100.000
B		ONE HOUR	✓	184	100.000
C		ONE HOUR	✓	137	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	238	58
	B	159	0	25
	C	109	28	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	0
	B	5	0	0
	C	0	3	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	6.78	0.1	A	23	34
B-A	0.31	9.76	0.5	A	146	219
C-AB	0.07	6.70	0.1	A	31	47
C-A					95	142
A-B					218	328
A-C					51	77

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	19	5	589	0.032	19	0.0	0.0	6.307	A
B-A	120	30	589	0.203	119	0.0	0.3	8.018	A
C-AB	25	6	583	0.042	24	0.0	0.1	6.607	A
C-A	79	20			79				
A-B	179	45			179				
A-C	42	11			42				

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	22	6	577	0.039	22	0.0	0.0	6.495	A
B-A	143	36	578	0.247	143	0.3	0.3	8.678	A
C-AB	30	8	585	0.052	30	0.1	0.1	6.650	A
C-A	93	23			93				
A-B	214	53			214				
A-C	50	13			50				

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	28	7	559	0.049	27	0.0	0.1	6.776	A
B-A	175	44	562	0.311	175	0.3	0.5	9.733	A
C-AB	39	10	589	0.066	39	0.1	0.1	6.702	A
C-A	112	28			112				
A-B	262	66			262				
A-C	62	15			62				

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	28	7	559	0.049	28	0.1	0.1	6.778	A
B-A	175	44	562	0.311	175	0.5	0.5	9.758	A
C-AB	39	10	589	0.066	39	0.1	0.1	6.703	A
C-A	112	28			112				
A-B	262	66			262				
A-C	62	15			62				

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	22	6	576	0.039	23	0.1	0.0	6.502	A
B-A	143	36	578	0.247	143	0.5	0.3	8.712	A
C-AB	30	8	585	0.052	30	0.1	0.1	6.647	A
C-A	93	23			93				
A-B	214	53			214				
A-C	50	13			50				

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	19	5	589	0.032	19	0.0	0.0	6.315	A
B-A	120	30	589	0.203	120	0.3	0.3	8.066	A
C-AB	25	6	583	0.042	25	0.1	0.1	6.611	A
C-A	79	20			79				
A-B	179	45			179				
A-C	42	11			42				

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		3.19	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.19	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	✓	192	100.000
B		ONE HOUR	✓	149	100.000
C		ONE HOUR	✓	188	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	159	33
	B	102	0	47
	C	134	54	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A	B	C
	A	0	6	7
	B	6	0	2
	C	2	11	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	6.53	0.1	A	43	65
B-A	0.21	8.84	0.3	A	94	140
C-AB	0.12	7.08	0.2	A	62	93
C-A					110	165
A-B					146	219
A-C					30	45

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	635	0.056	35	0.0	0.1	6.117	A
B-A	77	19	570	0.135	76	0.0	0.2	7.724	A
C-AB	49	12	612	0.079	48	0.0	0.1	6.977	A
C-A	93	23			93				
A-B	120	30			120				
A-C	25	6			25				

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	42	11	626	0.067	42	0.1	0.1	6.285	A
B-A	92	23	559	0.164	92	0.2	0.2	8.166	A
C-AB	60	15	620	0.097	60	0.1	0.1	7.022	A
C-A	109	27			109				
A-B	143	36			143				
A-C	30	7			30				

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	52	13	614	0.084	52	0.1	0.1	6.524	A
B-A	112	28	544	0.207	112	0.2	0.3	8.832	A
C-AB	78	19	632	0.123	78	0.1	0.2	7.079	A
C-A	129	32			129				
A-B	175	44			175				
A-C	36	9			36				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	52	13	614	0.084	52	0.1	0.1	6.525	A
B-A	112	28	544	0.207	112	0.3	0.3	8.843	A
C-AB	78	19	632	0.123	78	0.2	0.2	7.074	A
C-A	129	32			129				
A-B	175	44			175				
A-C	36	9			36				

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	42	11	626	0.067	42	0.1	0.1	6.289	A
B-A	92	23	559	0.164	92	0.3	0.2	8.182	A
C-AB	80	15	620	0.097	61	0.2	0.2	7.005	A
C-A	109	27			109				
A-B	143	38			143				
A-C	30	7			30				

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	635	0.056	35	0.1	0.1	6.127	A
B-A	77	19	569	0.135	77	0.2	0.2	7.751	A
C-AB	49	12	613	0.080	49	0.2	0.1	6.979	A
C-A	93	23			93				
A-B	120	30			120				
A-C	25	6			25				

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		3.35	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.35	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	✓	303	100.000
B		ONE HOUR	✓	198	100.000
C		ONE HOUR	✓	150	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	A	B	C	
From	A	0	239	64
	B	173	0	25
	C	122	28	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	1	0
	B	5	0	0
	C	0	3	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	6.89	0.1	A	23	34
B-A	0.34	10.30	0.5	B	159	238
C-AB	0.07	6.61	0.1	A	32	48
C-A					106	159
A-B					219	329
A-C					59	88

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	19	5	584	0.032	19	0.0	0.0	6.366	A
B-A	130	33	586	0.222	129	0.0	0.3	8.252	A
C-AB	25	6	589	0.042	25	0.0	0.1	6.544	A
C-A	88	22			88				
A-B	180	45			180				
A-C	48	12			48				

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	22	6	570	0.039	22	0.0	0.0	6.571	A
B-A	156	39	574	0.271	155	0.3	0.4	9.018	A
C-AB	31	8	592	0.052	31	0.1	0.1	6.573	A
C-A	104	26			104				
A-B	215	54			215				
A-C	58	14			58				

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	28	7	550	0.050	27	0.0	0.1	6.884	A
B-A	190	48	558	0.342	190	0.4	0.5	10.262	B
C-AB	40	10	597	0.067	40	0.1	0.1	6.614	A
C-A	125	31			125				
A-B	263	66			263				
A-C	70	18			70				

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	28	7	550	0.050	28	0.1	0.1	6.886	A
B-A	190	48	558	0.342	190	0.5	0.5	10.297	B
C-AB	40	10	597	0.067	40	0.1	0.1	6.613	A
C-A	125	31			125				
A-B	263	66			263				
A-C	70	18			70				

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	22	6	570	0.039	23	0.1	0.0	6.575	A
B-A	156	39	574	0.271	156	0.5	0.4	9.060	A
C-AB	31	8	592	0.052	31	0.1	0.1	6.570	A
C-A	104	26			104				
A-B	215	54			215				
A-C	58	14			58				

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	19	5	584	0.032	19	0.0	0.0	6.374	A
B-A	130	33	586	0.222	131	0.4	0.3	8.311	A
C-AB	25	6	589	0.043	25	0.1	0.1	6.549	A
C-A	88	22			88				
A-B	180	45			180				
A-C	48	12			48				