

File summary

File Description

Title	Main St/Brascote Ln
Location	Newbold Verdon
Site number	
Date	28/06/2021
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	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	2021	AM	ONE HOUR	07:45	09:15	15	✓
D2	2021	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029	AM	ONE HOUR	07:45	09:15	15	✓
D6	2029	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 + Dev	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, 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

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	8.50			75.0	✓	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	3.56	30	22

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	526	0.085	0.216	0.136	0.308
B-C	674	0.092	0.233	-	-
C-B	617	0.213	0.213	-	-

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	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	92	100.000
B		ONE HOUR	✓	82	100.000
C		ONE HOUR	✓	99	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	39	53
	B	28	0	54
	C	61	38	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A	B	C
	A	0	0	7
	B	0	0	2
	C	8	6	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	0.15	7.34	0.2	A	75	113
C-AB	0.07	6.44	0.1	A	38	58
C-A					52	79
A-B					36	54
A-C					49	73

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	15	596	0.104	61	0.0	0.1	6.817	A
C-AB	31	8	633	0.049	31	0.0	0.1	6.340	A
C-A	44	11			44				
A-B	29	7			29				
A-C	40	10			40				

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	74	18	592	0.125	74	0.1	0.1	7.033	A
C-AB	37	9	636	0.059	37	0.1	0.1	6.379	A
C-A	52	13			52				
A-B	35	9			35				
A-C	48	12			48				

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	90	23	587	0.154	90	0.1	0.2	7.340	A
C-AB	47	12	641	0.073	47	0.1	0.1	6.435	A
C-A	62	16			62				
A-B	43	11			43				
A-C	58	15			58				

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	90	23	587	0.154	90	0.2	0.2	7.343	A
C-AB	47	12	641	0.073	47	0.1	0.1	6.437	A
C-A	62	16			62				
A-B	43	11			43				
A-C	58	15			58				

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	74	18	592	0.125	74	0.2	0.1	7.040	A
C-AB	37	9	636	0.059	37	0.1	0.1	6.387	A
C-A	52	13			52				
A-B	35	9			35				
A-C	48	12			48				

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	15	596	0.104	62	0.1	0.1	6.831	A
C-AB	31	8	633	0.049	31	0.1	0.1	6.345	A
C-A	44	11			44				
A-B	29	7			29				
A-C	40	10			40				

2021, 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		4.57	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.57	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2021	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	127	100.000
B		ONE HOUR	✓	139	100.000
C		ONE HOUR	✓	129	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From	A	B	C	
	0	46	81	
	64	0	75	
	58	71	0	

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From	A	B	C	
	0	0	8	
	2	0	0	
	5	4	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	0.28	9.12	0.4	A	128	191
C-AB	0.14	6.90	0.2	A	71	107
C-A					47	70
A-B					42	63
A-C					74	111

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	105	26	566	0.185	104	0.0	0.2	7.844	A
C-AB	57	14	626	0.092	57	0.0	0.1	6.578	A
C-A	40	10			40				
A-B	35	9			35				
A-C	61	15			61				

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	125	31	560	0.223	125	0.2	0.3	8.343	A
C-AB	70	17	628	0.111	70	0.1	0.1	6.709	A
C-A	46	12			46				
A-B	41	10			41				
A-C	73	18			73				

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	153	38	552	0.277	153	0.3	0.4	9.097	A
C-AB	87	22	631	0.138	87	0.1	0.2	6.892	A
C-A	55	14			55				
A-B	51	13			51				
A-C	89	22			89				

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	153	38	552	0.278	153	0.4	0.4	9.116	A
C-AB	87	22	631	0.138	87	0.2	0.2	6.897	A
C-A	55	14			55				
A-B	51	13			51				
A-C	89	22			89				

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	125	31	560	0.223	125	0.4	0.3	8.366	A
C-AB	70	17	628	0.111	70	0.2	0.1	6.717	A
C-A	46	12			46				
A-B	41	10			41				
A-C	73	18			73				

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	105	26	566	0.185	105	0.3	0.2	7.884	A
C-AB	57	14	626	0.092	58	0.1	0.1	6.590	A
C-A	40	10			40				
A-B	35	9			35				
A-C	61	15			61				

2024, 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
D3	2024	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	93	100.000
B		ONE HOUR	✓	83	100.000
C		ONE HOUR	✓	100	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From	A	B	C	
	0	39	54	
	28	0	55	
	62	38	0	

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From	A	B	C	
	0	0	7	
	0	0	2	
	8	6	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	0.16	7.35	0.2	A	76	114
C-AB	0.07	6.43	0.1	A	38	58
C-A					53	80
A-B					36	54
A-C					50	74

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	596	0.105	62	0.0	0.1	6.821	A
C-AB	31	8	634	0.049	31	0.0	0.1	6.337	A
C-A	44	11			44				
A-B	29	7			29				
A-C	41	10			41				

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	592	0.126	75	0.1	0.1	7.039	A
C-AB	37	9	637	0.059	37	0.1	0.1	6.376	A
C-A	52	13			52				
A-B	35	9			35				
A-C	49	12			49				

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	587	0.156	91	0.1	0.2	7.351	A
C-AB	47	12	641	0.073	47	0.1	0.1	6.430	A
C-A	63	16			63				
A-B	43	11			43				
A-C	59	15			59				

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	587	0.156	91	0.2	0.2	7.354	A
C-AB	47	12	641	0.073	47	0.1	0.1	6.432	A
C-A	63	16			63				
A-B	43	11			43				
A-C	59	15			59				

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	592	0.126	75	0.2	0.1	7.049	A
C-AB	37	9	637	0.059	38	0.1	0.1	6.380	A
C-A	52	13			52				
A-B	35	9			35				
A-C	49	12			49				

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	596	0.105	63	0.1	0.1	6.835	A
C-AB	31	8	634	0.049	31	0.1	0.1	6.342	A
C-A	44	11			44				
A-B	29	7			29				
A-C	41	10			41				

2024, 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		4.70	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.70	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	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	129	100.000
B		ONE HOUR	✓	140	100.000
C		ONE HOUR	✓	131	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From	A	B	C	
	0	47	82	
	76	0	64	
	59	72	0	

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From	A	B	C	
	0	0	8	
	2	0	0	
	5	4	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	0.29	9.52	0.4	A	128	193
C-AB	0.14	6.91	0.2	A	73	109
C-A					48	72
A-B					43	65
A-C					75	113

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	105	26	552	0.191	104	0.0	0.2	8.114	A
C-AB	58	15	626	0.093	58	0.0	0.1	6.586	A
C-A	40	10			40				
A-B	35	9			35				
A-C	62	15			62				

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	126	31	545	0.231	126	0.2	0.3	8.661	A
C-AB	71	18	628	0.113	71	0.1	0.1	6.719	A
C-A	47	12			47				
A-B	42	11			42				
A-C	74	18			74				

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	154	39	537	0.287	154	0.3	0.4	9.495	A
C-AB	88	22	631	0.140	88	0.1	0.2	6.906	A
C-A	56	14			56				
A-B	52	13			52				
A-C	90	23			90				

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	154	39	536	0.287	154	0.4	0.4	9.516	A
C-AB	88	22	631	0.140	88	0.2	0.2	6.911	A
C-A	56	14			56				
A-B	52	13			52				
A-C	90	23			90				

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	126	31	545	0.231	126	0.4	0.3	8.690	A
C-AB	71	18	628	0.113	71	0.2	0.1	6.728	A
C-A	47	12			47				
A-B	42	11			42				
A-C	74	18			74				

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	105	26	552	0.191	106	0.3	0.2	8.160	A
C-AB	58	15	626	0.093	58	0.1	0.1	6.601	A
C-A	40	10			40				
A-B	35	9			35				
A-C	62	15			62				

2029, 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		3.22	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.22	A

Traffic Demand

Demand Set Details

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	97	100.000
B		ONE HOUR	✓	87	100.000
C		ONE HOUR	✓	105	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From	A	B	C	
	0	41	56	
	29	0	58	
	65	40	0	

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From	A	B	C	
	0	0	7	
	0	0	2	
	8	6	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	0.16	7.43	0.2	A	80	120
C-AB	0.08	6.45	0.1	A	41	61
C-A					56	84
A-B					38	56
A-C					51	77

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	65	16	596	0.110	65	0.0	0.1	6.862	A
C-AB	33	8	634	0.051	32	0.0	0.1	6.347	A
C-A	46	12			46				
A-B	31	8			31				
A-C	42	11			42				

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	78	20	592	0.132	78	0.1	0.2	7.093	A
C-AB	40	10	638	0.062	40	0.1	0.1	6.388	A
C-A	55	14			55				
A-B	37	9			37				
A-C	50	13			50				

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	96	24	587	0.163	96	0.2	0.2	7.425	A
C-AB	50	12	643	0.077	50	0.1	0.1	6.446	A
C-A	66	17			66				
A-B	45	11			45				
A-C	62	15			62				

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	96	24	587	0.163	96	0.2	0.2	7.428	A
C-AB	50	12	643	0.077	50	0.1	0.1	6.451	A
C-A	66	17			66				
A-B	45	11			45				
A-C	62	15			62				

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	78	20	592	0.132	78	0.2	0.2	7.101	A
C-AB	40	10	638	0.062	40	0.1	0.1	6.395	A
C-A	55	14			55				
A-B	37	9			37				
A-C	50	13			50				

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	65	16	596	0.110	66	0.2	0.1	6.877	A
C-AB	33	8	634	0.051	33	0.1	0.1	6.355	A
C-A	46	12			46				
A-B	31	8			31				
A-C	42	11			42				

2029, 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		4.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.83	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	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	135	100.000
B		ONE HOUR	✓	148	100.000
C		ONE HOUR	✓	136	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	49	86
	B	80	0	68
	C	61	75	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A	B	C
	A	0	0	8
	B	2	0	0
	C	5	4	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	0.30	9.79	0.4	A	136	204
C-AB	0.15	6.96	0.2	A	76	114
C-A					49	74
A-B					45	67
A-C					79	118

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	111	28	551	0.202	110	0.0	0.3	8.241	A
C-AB	61	15	626	0.097	60	0.0	0.1	6.620	A
C-A	41	10			41				
A-B	37	9			37				
A-C	65	16			65				

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	133	33	544	0.245	133	0.3	0.3	8.839	A
C-AB	74	18	628	0.118	74	0.1	0.2	6.756	A
C-A	48	12			48				
A-B	44	11			44				
A-C	77	19			77				

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	163	41	535	0.305	162	0.3	0.4	9.762	A
C-AB	92	23	631	0.147	92	0.2	0.2	6.954	A
C-A	57	14			57				
A-B	54	13			54				
A-C	95	24			95				

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	163	41	535	0.305	163	0.4	0.4	9.786	A
C-AB	92	23	631	0.147	92	0.2	0.2	6.962	A
C-A	57	14			57				
A-B	54	13			54				
A-C	95	24			95				

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	133	33	544	0.245	133	0.4	0.3	8.871	A
C-AB	74	18	628	0.118	74	0.2	0.2	6.766	A
C-A	48	12			48				
A-B	44	11			44				
A-C	77	19			77				

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	111	28	551	0.202	112	0.3	0.3	8.294	A
C-AB	61	15	626	0.097	61	0.2	0.1	6.628	A
C-A	41	10			41				
A-B	37	9			37				
A-C	65	16			65				

2029 + Dev, 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		5.90	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.90	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	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	98	100.000
B		ONE HOUR	✓	175	100.000
C		ONE HOUR	✓	110	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	42	56
	B	128	0	47
	C	65	45	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A	B	C
	A	0	0	7
	B	0	0	2
	C	8	6	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	0.37	11.05	0.6	B	161	241
C-AB	0.09	6.52	0.1	A	46	69
C-A					55	83
A-B					39	58
A-C					51	77

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	132	33	533	0.247	130	0.0	0.3	8.971	A
C-AB	37	9	634	0.058	36	0.0	0.1	6.389	A
C-A	46	12			46				
A-B	32	8			32				
A-C	42	11			42				

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	157	39	527	0.298	157	0.3	0.4	9.760	A
C-AB	45	11	638	0.070	44	0.1	0.1	6.443	A
C-A	54	14			54				
A-B	38	9			38				
A-C	50	13			50				

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	193	48	520	0.370	192	0.4	0.6	11.005	B
C-AB	56	14	642	0.087	56	0.1	0.1	6.517	A
C-A	65	16			65				
A-B	46	12			46				
A-C	62	15			62				

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	193	48	520	0.370	193	0.6	0.6	11.047	B
C-AB	56	14	642	0.087	56	0.1	0.1	6.522	A
C-A	65	16			65				
A-B	46	12			46				
A-C	62	15			62				

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	157	39	527	0.298	158	0.6	0.4	9.813	A
C-AB	45	11	638	0.070	45	0.1	0.1	6.449	A
C-A	54	14			54				
A-B	38	9			38				
A-C	50	13			50				

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	132	33	532	0.247	132	0.4	0.3	9.048	A
C-AB	37	9	634	0.058	37	0.1	0.1	6.397	A
C-A	46	12			46				
A-B	32	8			32				
A-C	42	11			42				

2029 + Dev, 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		5.81	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.81	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	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	162	100.000
B		ONE HOUR	✓	168	100.000
C		ONE HOUR	✓	209	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From	A	B	C	
	0	76	86	
	74	0	94	
	61	148	0	

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From	A	B	C	
	0	0	8	
	2	0	0	
	5	4	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	0.35	10.41	0.5	B	154	231
C-AB	0.29	8.48	0.5	A	150	225
C-A					42	63
A-B					70	105
A-C					79	118

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	32	555	0.228	125	0.0	0.3	8.421	A
C-AB	120	30	622	0.193	119	0.0	0.3	7.437	A
C-A	37	9			37				
A-B	57	14			57				
A-C	65	16			65				

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	151	38	546	0.276	151	0.3	0.4	9.169	A
C-AB	146	36	623	0.234	146	0.3	0.3	7.842	A
C-A	42	10			42				
A-B	68	17			68				
A-C	77	19			77				

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	185	46	534	0.346	184	0.4	0.5	10.372	B
C-AB	183	46	625	0.292	182	0.3	0.5	8.459	A
C-A	47	12			47				
A-B	84	21			84				
A-C	95	24			95				

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	185	46	534	0.347	185	0.5	0.5	10.408	B
C-AB	183	46	625	0.292	183	0.5	0.5	8.478	A
C-A	47	12			47				
A-B	84	21			84				
A-C	95	24			95				

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	151	38	546	0.277	152	0.5	0.4	9.217	A
C-AB	146	37	623	0.234	147	0.5	0.3	7.868	A
C-A	42	10			42				
A-B	68	17			68				
A-C	77	19			77				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	32	555	0.228	127	0.4	0.3	8.487	A
C-AB	120	30	622	0.193	121	0.3	0.3	7.475	A
C-A	37	9			37				
A-B	57	14			57				
A-C	65	16			65				

T24516

Brascote Lane, Newbold Verdon Phase 2



Appendix E

Main Street/Brascote Lane – PICADY Assessment

Junctions 10										
PICADY 10 - Priority Intersection Module										
Version: 10.1.0.1820										
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Filename: T24516 - Main St-Brascote Ln.j10

Path: C:\Users\NeilBateman\Hub Transport Planning Ltd\Hub Transport Planning - General\Projects\T24516 Newbold Verdon Phase 2\Modelling\Picady

Report generation date: 09/06/2024 17:22:09

»2021, AM
»2021, PM
»2024, AM
»2024, PM
»2029, AM
»2029, PM
»2029 + Dev, AM
»2029 + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2021									
Stream B-AC	D1	0.2	7.34	0.15	A	D2	0.4	9.12	0.28	A
Stream C-AB		0.1	6.44	0.07	A		0.2	6.90	0.14	A
	2024									
Stream B-AC	D3	0.2	7.35	0.16	A	D4	0.4	9.52	0.29	A
Stream C-AB		0.1	6.43	0.07	A		0.2	6.91	0.14	A
	2029									
Stream B-AC	D5	0.2	7.43	0.16	A	D6	0.4	9.79	0.30	A
Stream C-AB		0.1	6.45	0.08	A		0.2	6.96	0.15	A
	2029 + Dev									
Stream B-AC	D7	0.6	11.05	0.37	B	D8	0.5	10.41	0.35	B
Stream C-AB		0.1	6.52	0.09	A		0.5	8.48	0.29	A

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