

Junctions 10			
PICADY 10 - Priority Intersection Module			
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Filename: A5_Wolvey Road.j10

Path: P:\2021\P21-390\T&T\Capacity Assessments\Junctions 10\Response to NH (5015)

Report generation date: 18/04/2024 14:15:31

»2021, AM
»2021, PM
»2026, AM
»2026, PM
»2026 + Dev, AM
»2026 + Dev, PM
»2031, AM
»2031, PM
»2031 + Dev, AM
»2031 + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	LOS	Queue (Veh)	Delay (s)	RFC	LOS
2021								
Stream B-C	0.7	281.65	0.53	F	0.1	15.58	0.06	C
Stream B-A	4.1	144.53	0.87	F	1.1	74.01	0.55	F
Stream C-AB	0.1	9.02	0.05	A	0.2	8.68	0.14	A
2026								
Stream B-C	0.1	53.44	0.13	F	0.3	81.67	0.28	F
Stream B-A	2.2	86.12	0.71	F	2.9	192.24	0.82	F
Stream C-AB	0.0	9.01	0.03	A	0.5	7.95	0.24	A
2026 + Dev								
Stream B-C	0.2	99.11	0.22	F	0.5	117.15	0.37	F
Stream B-A	3.2	114.25	0.81	F	3.0	189.69	0.83	F
Stream C-AB	0.0	9.03	0.03	A	0.5	7.98	0.25	A
2031								
Stream B-C	0.1	53.58	0.13	F	2.9	561.14	1.22	F
Stream B-A	2.0	91.81	0.70	F	8.4	428.19	1.21	F
Stream C-AB	0.0	9.34	0.02	A	0.6	7.68	0.27	A
2031 + Dev								
Stream B-C	0.3	106.24	0.23	F	3.0	578.06	1.25	F
Stream B-A	3.1	124.06	0.81	F	8.9	445.04	1.24	F
Stream C-AB	0.0	9.37	0.02	A	0.6	7.71	0.27	A

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

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

File summary

File Description

Title	
Location	
Site number	
Date	04/03/2024
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	HQ\jake.blay
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	Veh	Veh	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 simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75						0.85	36.00	20.00		

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2021	AM	ONE HOUR	07:45	09:15	15	✓
D2	2021	PM	ONE HOUR	16:45	18:15	15	✓
D3	2026	AM	ONE HOUR	07:45	09:15	15	✓
D4	2026	PM	ONE HOUR	16:45	18:15	15	✓
D5	2026 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2026 + Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2031	AM	ONE HOUR	07:45	09:15	15	✓
D8	2031	PM	ONE HOUR	16:45	18:15	15	✓
D9	2031 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2031 + 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

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		9.32	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.32	A

Arms

Arms

Arm	Name	Description	Arm type
A	A5 (NW)		Major
B	Wolvey Road		Minor
C	A5 (SE)		Major

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)
C - A5 (SE)	7.30		✓	3.30	110.0	✓	1.30

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 - Wolvey Road	One lane plus flare	10.00	7.20	4.90	4.20	3.80		1.00	143	60

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	649	0.111	0.282	0.177	0.403
B-C	640	0.093	0.234	-	-
C-B	714	0.261	0.261	-	-

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 (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1086	100.000
B - Wolvey Road		ONE HOUR	✓	109	100.000
C - A5 (SE)		ONE HOUR	✓	977	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	87	999
	B - Wolvey Road	99	0	10
	C - A5 (SE)	959	18	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	13	0
	B - Wolvey Road	2	0	100
	C - A5 (SE)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.53	281.65	0.7	F	9	14
B-A	0.87	144.53	4.1	F	91	136
C-AB	0.05	9.02	0.1	A	17	26
C-A					879	1319
A-B					80	120
A-C					917	1375

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	207	0.036	7	0.0	0.0	18.050	C
B-A	75	19	288	0.259	73	0.0	0.3	16.673	C
C-AB	14	3	505	0.027	14	0.0	0.0	7.322	A
C-A	722	180			722				
A-B	65	16			65				
A-C	752	188			752				

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	9	2	170	0.053	9	0.0	0.1	22.385	C
B-A	89	22	220	0.404	88	0.3	0.6	26.926	D
C-AB	17	4	468	0.035	17	0.0	0.0	7.978	A
C-A	862	215			862				
A-B	78	20			78				
A-C	898	225			898				

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	46	0.238	10	0.1	0.3	97.496	F
B-A	109	27	126	0.864	99	0.6	3.3	106.376	F
C-AB	21	5	420	0.050	21	0.0	0.1	9.016	A
C-A	1055	264			1055				
A-B	96	24			96				
A-C	1100	275			1100				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	21	0.527	9	0.3	0.7	281.654	F
B-A	109	27	126	0.868	106	3.3	4.1	144.527	F
C-AB	21	5	420	0.050	21	0.1	0.1	9.020	A
C-A	1055	264			1055				
A-B	96	24			96				
A-C	1100	275			1100				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	9	2	158	0.057	12	0.7	0.1	25.032	D
B-A	89	22	219	0.406	102	4.1	0.7	33.980	D
C-AB	17	4	468	0.035	17	0.1	0.0	7.982	A
C-A	862	215			862				
A-B	78	20			78				
A-C	898	225			898				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	205	0.037	8	0.1	0.0	18.211	C
B-A	75	19	288	0.259	76	0.7	0.4	17.116	C
C-AB	14	3	505	0.027	14	0.0	0.0	7.327	A
C-A	722	180			722				
A-B	65	16			65				
A-C	752	188			752				

2021, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		1.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.98	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	2021	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1093	100.000
B - Wolvey Road		ONE HOUR	✓	65	100.000
C - A5 (SE)		ONE HOUR	✓	1066	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	176	917
	B - Wolvey Road	52	0	13
	C - A5 (SE)	1015	51	0

Vehicle Mix

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

Heavy Vehicle %

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	9	0
	B - Wolvey Road	0	0	8
	C - A5 (SE)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.06	15.58	0.1	C	12	18
B-A	0.55	74.01	1.1	F	48	72
C-AB	0.14	8.68	0.2	A	53	80
C-A					925	1387
A-B					162	242
A-C					841	1262

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	416	0.024	10	0.0	0.0	8.853	A
B-A	39	10	276	0.142	38	0.0	0.2	15.137	C
C-AB	41	10	524	0.077	40	0.0	0.1	7.443	A
C-A	762	191			762				
A-B	133	33			133				
A-C	690	173			690				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	12	3	373	0.031	12	0.0	0.0	9.962	A
B-A	47	12	204	0.229	46	0.2	0.3	22.747	C
C-AB	51	13	500	0.101	50	0.1	0.1	8.003	A
C-A	908	227			908				
A-B	158	40			158				
A-C	824	206			824				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	14	4	256	0.056	14	0.0	0.1	14.888	B
B-A	57	14	105	0.546	54	0.3	1.0	67.747	F
C-AB	69	17	482	0.142	68	0.1	0.2	8.667	A
C-A	1105	276			1105				
A-B	194	48			194				
A-C	1010	252			1010				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	14	4	245	0.058	14	0.1	0.1	15.577	C
B-A	57	14	105	0.546	57	1.0	1.1	74.010	F
C-AB	69	17	484	0.142	69	0.2	0.2	8.681	A
C-A	1105	276			1105				
A-B	194	48			194				
A-C	1010	252			1010				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	12	3	369	0.032	12	0.1	0.0	10.071	B
B-A	47	12	204	0.229	50	1.1	0.3	23.788	C
C-AB	51	13	502	0.101	51	0.2	0.1	8.018	A
C-A	908	227			908				
A-B	158	40			158				
A-C	824	206			824				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	415	0.024	10	0.0	0.0	8.878	A
B-A	39	10	276	0.142	40	0.3	0.2	15.295	C
C-AB	41	10	524	0.077	41	0.1	0.1	7.457	A
C-A	762	191			762				
A-B	133	33			133				
A-C	690	173			690				

2026, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		4.16	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.16	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	2026	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1078	100.000
B - Wolvey Road		ONE HOUR	✓	98	100.000
C - A5 (SE)		ONE HOUR	✓	943	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	84	994
	B - Wolvey Road	89	0	9
	C - A5 (SE)	933	10	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	13	0
	B - Wolvey Road	2	0	100
	C - A5 (SE)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.13	53.44	0.1	F	8	12
B-A	0.71	86.12	2.2	F	82	123
C-AB	0.03	9.01	0.0	A	9	14
C-A					856	1284
A-B					77	116
A-C					912	1368

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	211	0.032	7	0.0	0.0	17.611	C
B-A	67	17	295	0.227	66	0.0	0.3	15.635	C
C-AB	8	2	503	0.015	8	0.0	0.0	7.264	A
C-A	702	176			702				
A-B	63	16			63				
A-C	748	187			748				

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	179	0.045	8	0.0	0.0	21.064	C
B-A	80	20	229	0.349	79	0.3	0.5	23.876	C
C-AB	9	2	464	0.020	9	0.0	0.0	7.920	A
C-A	839	210			839				
A-B	76	19			76				
A-C	894	223			894				

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	88	0.113	10	0.0	0.1	45.910	E
B-A	98	24	137	0.714	92	0.5	1.9	72.956	F
C-AB	11	3	411	0.027	11	0.0	0.0	9.011	A
C-A	1027	257			1027				
A-B	92	23			92				
A-C	1094	274			1094				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	77	0.129	10	0.1	0.1	53.441	F
B-A	98	24	137	0.715	97	1.9	2.2	86.119	F
C-AB	11	3	411	0.027	11	0.0	0.0	9.013	A
C-A	1027	257			1027				
A-B	92	23			92				
A-C	1094	274			1094				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	174	0.047	8	0.1	0.1	21.821	C
B-A	80	20	229	0.349	86	2.2	0.6	26.276	D
C-AB	9	2	464	0.020	9	0.0	0.0	7.921	A
C-A	839	210			839				
A-B	76	19			76				
A-C	894	223			894				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	210	0.032	7	0.1	0.0	17.719	C
B-A	67	17	295	0.227	68	0.6	0.3	15.938	C
C-AB	8	2	503	0.015	8	0.0	0.0	7.265	A
C-A	702	176			702				
A-B	63	16			63				
A-C	748	187			748				

2026, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		5.32	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.32	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	2026	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1058	100.000
B - Wolvey Road		ONE HOUR	✓	70	100.000
C - A5 (SE)		ONE HOUR	✓	1194	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	145	913
	B - Wolvey Road	55	0	15
	C - A5 (SE)	1104	90	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	9	0
	B - Wolvey Road	0	0	8
	C - A5 (SE)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.28	81.67	0.3	F	14	21
B-A	0.82	192.24	2.9	F	50	76
C-AB	0.24	7.95	0.5	A	107	161
C-A					989	1483
A-B					133	200
A-C					838	1257

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	417	0.027	11	0.0	0.0	8.866	A
B-A	41	10	254	0.163	41	0.0	0.2	16.781	C
C-AB	76	19	565	0.135	75	0.0	0.2	7.346	A
C-A	823	206			823				
A-B	109	27			109				
A-C	687	172			687				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	369	0.037	13	0.0	0.0	10.133	B
B-A	49	12	179	0.277	49	0.2	0.4	27.538	D
C-AB	99	25	564	0.175	99	0.2	0.3	7.710	A
C-A	974	244			974				
A-B	130	33			130				
A-C	821	205			821				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	128	0.129	16	0.0	0.1	32.160	D
B-A	61	15	74	0.816	53	0.4	2.3	139.861	F
C-AB	146	37	598	0.245	146	0.3	0.5	7.920	A
C-A	1168	292			1168				
A-B	160	40			160				
A-C	1005	251			1005				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	59	0.280	16	0.1	0.3	81.672	F
B-A	61	15	74	0.818	58	2.3	2.9	192.240	F
C-AB	146	37	600	0.244	146	0.5	0.5	7.950	A
C-A	1168	292			1168				
A-B	160	40			160				
A-C	1005	251			1005				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	355	0.038	15	0.3	0.0	10.604	B
B-A	49	12	179	0.277	59	2.9	0.4	32.356	D
C-AB	99	25	569	0.174	100	0.5	0.3	7.749	A
C-A	974	244			974				
A-B	130	33			130				
A-C	821	205			821				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	416	0.027	11	0.0	0.0	8.899	A
B-A	41	10	254	0.163	42	0.4	0.2	17.042	C
C-AB	76	19	566	0.134	76	0.3	0.2	7.379	A
C-A	823	206			823				
A-B	109	27			109				
A-C	687	172			687				

2026 + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		6.30	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.30	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	2026 + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1081	100.000
B - Wolvey Road		ONE HOUR	✓	109	100.000
C - A5 (SE)		ONE HOUR	✓	943	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	87	994
	B - Wolvey Road	100	0	9
	C - A5 (SE)	933	10	0

Vehicle Mix

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

Heavy Vehicle %

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	13	0
	B - Wolvey Road	2	0	100
	C - A5 (SE)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.22	99.11	0.2	F	8	12
B-A	0.81	114.25	3.2	F	92	138
C-AB	0.03	9.03	0.0	A	9	14
C-A					856	1284
A-B					80	120
A-C					912	1368

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	207	0.033	7	0.0	0.0	17.952	C
B-A	75	19	295	0.255	74	0.0	0.3	16.167	C
C-AB	8	2	502	0.015	8	0.0	0.0	7.274	A
C-A	702	176			702				
A-B	65	16			65				
A-C	748	187			748				

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	172	0.047	8	0.0	0.0	22.014	C
B-A	90	22	229	0.393	89	0.3	0.6	25.461	D
C-AB	9	2	463	0.020	9	0.0	0.0	7.933	A
C-A	839	210			839				
A-B	78	20			78				
A-C	894	223			894				

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	63	0.157	9	0.0	0.2	66.584	F
B-A	110	28	137	0.805	102	0.6	2.7	88.501	F
C-AB	11	3	410	0.028	11	0.0	0.0	9.033	A
C-A	1027	257			1027				
A-B	96	24			96				
A-C	1094	274			1094				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	46	0.217	10	0.2	0.2	99.106	F
B-A	110	28	137	0.807	108	2.7	3.2	114.249	F
C-AB	11	3	410	0.028	11	0.0	0.0	9.035	A
C-A	1027	257			1027				
A-B	96	24			96				
A-C	1094	274			1094				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	163	0.050	9	0.2	0.1	23.464	C
B-A	90	22	229	0.393	100	3.2	0.7	29.839	D
C-AB	9	2	463	0.020	9	0.0	0.0	7.935	A
C-A	839	210			839				
A-B	78	20			78				
A-C	894	223			894				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	206	0.033	7	0.1	0.0	18.095	C
B-A	75	19	295	0.255	77	0.7	0.4	16.562	C
C-AB	8	2	502	0.015	8	0.0	0.0	7.277	A
C-A	702	176			702				
A-B	65	16			65				
A-C	748	187			748				

2026 + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		5.48	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.48	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	2026 + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1067	100.000
B - Wolvey Road		ONE HOUR	✓	70	100.000
C - A5 (SE)		ONE HOUR	✓	1194	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	154	913
	B - Wolvey Road	55	0	15
	C - A5 (SE)	1104	90	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	9	0
	B - Wolvey Road	0	0	8
	C - A5 (SE)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.37	117.15	0.5	F	14	21
B-A	0.83	189.69	3.0	F	50	76
C-AB	0.25	7.98	0.5	A	107	161
C-A					988	1482
A-B					141	212
A-C					838	1257

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	416	0.027	11	0.0	0.0	8.881	A
B-A	41	10	254	0.163	41	0.0	0.2	16.845	C
C-AB	76	19	563	0.135	75	0.0	0.2	7.372	A
C-A	823	206			823				
A-B	116	29			116				
A-C	687	172			687				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	368	0.037	13	0.0	0.0	10.161	B
B-A	49	12	178	0.278	49	0.2	0.4	27.742	D
C-AB	99	25	563	0.176	99	0.2	0.3	7.740	A
C-A	974	244			974				
A-B	138	35			138				
A-C	821	205			821				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	119	0.139	16	0.0	0.2	34.851	D
B-A	61	15	73	0.830	53	0.4	2.4	144.550	F
C-AB	147	37	597	0.247	146	0.3	0.5	7.953	A
C-A	1167	292			1167				
A-B	170	42			170				
A-C	1005	251			1005				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	45	0.369	15	0.2	0.5	117.154	F
B-A	61	15	73	0.832	58	2.4	3.0	189.693	F
C-AB	147	37	599	0.246	147	0.5	0.5	7.983	A
C-A	1167	292			1167				
A-B	170	42			170				
A-C	1005	251			1005				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	354	0.038	15	0.5	0.0	10.689	B
B-A	49	12	178	0.278	60	3.0	0.4	32.955	D
C-AB	99	25	567	0.175	100	0.5	0.3	7.780	A
C-A	974	244			974				
A-B	138	35			138				
A-C	821	205			821				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	415	0.027	11	0.0	0.0	8.914	A
B-A	41	10	253	0.163	42	0.4	0.2	17.112	C
C-AB	76	19	565	0.135	76	0.3	0.2	7.405	A
C-A	823	206			823				
A-B	116	29			116				
A-C	687	172			687				

2031, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		3.90	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.90	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	2031	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1128	100.000
B - Wolvey Road		ONE HOUR	✓	88	100.000
C - A5 (SE)		ONE HOUR	✓	936	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	From			
	A - A5 (NW)	0	84	1044
	B - Wolvey Road	79	0	9
	C - A5 (SE)	928	8	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	From			
	A - A5 (NW)	0	13	0
	B - Wolvey Road	2	0	100
	C - A5 (SE)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.13	53.58	0.1	F	8	12
B-A	0.70	91.81	2.0	F	72	109
C-AB	0.02	9.34	0.0	A	7	11
C-A					851	1277
A-B					77	116
A-C					958	1437

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	209	0.032	7	0.0	0.0	17.738	C
B-A	59	15	285	0.209	58	0.0	0.3	15.808	C
C-AB	6	2	493	0.012	6	0.0	0.0	7.398	A
C-A	699	175			699				
A-B	63	16			63				
A-C	786	196			786				

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	178	0.045	8	0.0	0.0	21.150	C
B-A	71	18	218	0.326	70	0.3	0.5	24.276	C
C-AB	7	2	451	0.016	7	0.0	0.0	8.117	A
C-A	834	209			834				
A-B	76	19			76				
A-C	939	235			939				

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	88	0.113	10	0.0	0.1	45.935	E
B-A	87	22	124	0.703	82	0.5	1.8	77.658	F
C-AB	9	2	394	0.023	9	0.0	0.0	9.343	A
C-A	1022	255			1022				
A-B	92	23			92				
A-C	1149	287			1149				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	77	0.129	10	0.1	0.1	53.580	F
B-A	87	22	124	0.704	86	1.8	2.0	91.815	F
C-AB	9	2	394	0.023	9	0.0	0.0	9.345	A
C-A	1022	255			1022				
A-B	92	23			92				
A-C	1149	287			1149				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	173	0.047	8	0.1	0.1	21.866	C
B-A	71	18	218	0.326	77	2.0	0.5	26.629	D
C-AB	7	2	451	0.016	7	0.0	0.0	8.118	A
C-A	834	209			834				
A-B	76	19			76				
A-C	939	235			939				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	209	0.032	7	0.1	0.0	17.838	C
B-A	59	15	285	0.209	60	0.5	0.3	16.081	C
C-AB	6	2	493	0.012	6	0.0	0.0	7.399	A
C-A	699	175			699				
A-B	63	16			63				
A-C	786	196			786				

2031, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		14.02	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	14.02	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	2031	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1053	100.000
B - Wolvey Road		ONE HOUR	✓	73	100.000
C - A5 (SE)		ONE HOUR	✓	1275	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	125	928
	B - Wolvey Road	58	0	15
	C - A5 (SE)	1175	100	0

Vehicle Mix

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

Heavy Vehicle %

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	9	0
	B - Wolvey Road	0	0	8
	C - A5 (SE)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	1.22	561.14	2.9	F	14	21
B-A	1.21	428.19	8.4	F	53	80
C-AB	0.27	7.68	0.6	A	125	187
C-A					1045	1568
A-B					115	172
A-C					852	1277

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	413	0.027	11	0.0	0.0	8.964	A
B-A	44	11	240	0.182	43	0.0	0.2	18.147	C
C-AB	86	22	579	0.149	86	0.0	0.2	7.281	A
C-A	873	218			873				
A-B	94	24			94				
A-C	699	175			699				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	358	0.038	13	0.0	0.0	10.462	B
B-A	52	13	162	0.322	51	0.2	0.5	32.301	D
C-AB	114	29	588	0.194	114	0.2	0.3	7.572	A
C-A	1032	258			1032				
A-B	112	28			112				
A-C	834	209			834				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	14	1.223	9	0.0	1.9	561.142	F
B-A	64	16	53	1.200	45	0.5	5.0	293.068	F
C-AB	174	43	641	0.271	173	0.3	0.6	7.648	A
C-A	1230	308			1230				
A-B	138	34			138				
A-C	1022	255			1022				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	15	1.087	13	1.9	2.9	461.930	F
B-A	64	16	53	1.211	50	5.0	8.4	428.191	F
C-AB	174	43	644	0.270	174	0.6	0.6	7.682	A
C-A	1230	308			1230				
A-B	138	34			138				
A-C	1022	255			1022				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	300	0.045	25	2.9	0.0	13.619	B
B-A	52	13	160	0.325	84	8.4	0.5	64.559	F
C-AB	114	29	593	0.192	115	0.6	0.3	7.616	A
C-A	1032	258			1032				
A-B	112	28			112				
A-C	834	209			834				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	411	0.027	11	0.0	0.0	9.009	A
B-A	44	11	240	0.182	45	0.5	0.2	18.542	C
C-AB	86	22	581	0.149	87	0.3	0.2	7.320	A
C-A	873	218			873				
A-B	94	24			94				
A-C	699	175			699				

2031 + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		6.13	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.13	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2031 + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1131	100.000
B - Wolvey Road		ONE HOUR	✓	99	100.000
C - A5 (SE)		ONE HOUR	✓	936	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	87	1044
	B - Wolvey Road	90	0	9
	C - A5 (SE)	928	8	0

Vehicle Mix

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

Heavy Vehicle %

	To			
From		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
	A - A5 (NW)	0	13	0
	B - Wolvey Road	2	0	100
	C - A5 (SE)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	0.23	106.24	0.3	F	8	12
B-A	0.81	124.06	3.1	F	83	124
C-AB	0.02	9.37	0.0	A	7	11
C-A					851	1277
A-B					80	120
A-C					958	1437

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	206	0.033	7	0.0	0.0	18.082	C
B-A	68	17	286	0.237	67	0.0	0.3	16.346	C
C-AB	6	2	492	0.012	6	0.0	0.0	7.409	A
C-A	699	175			699				
A-B	65	16			65				
A-C	786	196			786				

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	171	0.047	8	0.0	0.0	22.095	C
B-A	81	20	218	0.372	80	0.3	0.6	25.911	D
C-AB	7	2	450	0.016	7	0.0	0.0	8.132	A
C-A	834	209			834				
A-B	78	20			78				
A-C	939	235			939				

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	61	0.161	9	0.0	0.2	68.578	F
B-A	99	25	123	0.803	91	0.6	2.6	95.223	F
C-AB	9	2	393	0.023	9	0.0	0.0	9.366	A
C-A	1022	255			1022				
A-B	96	24			96				
A-C	1149	287			1149				

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	10	2	43	0.230	10	0.2	0.3	106.242	F
B-A	99	25	123	0.806	97	2.6	3.1	124.059	F
C-AB	9	2	393	0.023	9	0.0	0.0	9.366	A
C-A	1022	255			1022				
A-B	96	24			96				
A-C	1149	287			1149				

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	8	2	163	0.050	9	0.3	0.1	23.533	C
B-A	81	20	218	0.372	91	3.1	0.6	30.365	D
C-AB	7	2	450	0.016	7	0.0	0.0	8.133	A
C-A	834	209			834				
A-B	78	20			78				
A-C	939	235			939				

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	7	2	205	0.033	7	0.1	0.0	18.212	C
B-A	68	17	286	0.237	69	0.6	0.3	16.707	C
C-AB	6	2	492	0.012	6	0.0	0.0	7.409	A
C-A	699	175			699				
A-B	65	16			65				
A-C	786	196			786				

2031 + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm visibility to right	B - Wolvey Road - Minor arm geometry	Visibility to right expected to have two components if the arm has two lanes, or two lanes in a flared section.

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	A5 / Wolvey Road	T-Junction	Two-way	Two-way	Two-way		14.47	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	14.47	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
D10	2031 + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A5 (NW)		ONE HOUR	✓	1062	100.000
B - Wolvey Road		ONE HOUR	✓	73	100.000
C - A5 (SE)		ONE HOUR	✓	1275	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	134	928
	B - Wolvey Road	58	0	15
	C - A5 (SE)	1175	100	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		A - A5 (NW)	B - Wolvey Road	C - A5 (SE)
From	A - A5 (NW)	0	9	0
	B - Wolvey Road	0	0	8
	C - A5 (SE)	7	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
B-C	1.25	578.06	3.0	F	14	21
B-A	1.24	445.04	8.9	F	53	80
C-AB	0.27	7.71	0.6	A	125	188
C-A					1045	1567
A-B					123	184
A-C					852	1277

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	412	0.027	11	0.0	0.0	8.979	A
B-A	44	11	240	0.182	43	0.0	0.2	18.215	C
C-AB	86	22	578	0.150	86	0.0	0.2	7.305	A
C-A	873	218			873				
A-B	101	25			101				
A-C	699	175			699				

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	356	0.038	13	0.0	0.0	10.495	B
B-A	52	13	161	0.324	51	0.2	0.5	32.581	D
C-AB	114	29	586	0.195	114	0.2	0.3	7.600	A
C-A	1032	258			1032				
A-B	120	30			120				
A-C	834	209			834				

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	13	1.251	9	0.0	2.0	578.056	F
B-A	64	16	52	1.228	45	0.5	5.2	305.924	F
C-AB	175	44	640	0.273	174	0.3	0.6	7.677	A
C-A	1229	307			1229				
A-B	148	37			148				
A-C	1022	255			1022				

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	17	4	15	1.116	13	2.0	3.0	467.621	F
B-A	64	16	52	1.239	49	5.2	8.9	445.043	F
C-AB	175	44	643	0.272	175	0.6	0.6	7.711	A
C-A	1229	307			1229				
A-B	148	37			148				
A-C	1022	255			1022				

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	13	3	294	0.046	25	3.0	0.0	13.956	B
B-A	52	13	159	0.327	85	8.9	0.5	68.411	F
C-AB	114	29	591	0.193	115	0.6	0.3	7.649	A
C-A	1032	258			1032				
A-B	120	30			120				
A-C	834	209			834				

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
B-C	11	3	410	0.028	11	0.0	0.0	9.027	A
B-A	44	11	239	0.183	45	0.5	0.2	18.623	C
C-AB	86	22	580	0.149	87	0.3	0.2	7.342	A
C-A	873	218			873				
A-B	101	25			101				
A-C	699	175			699				