2020 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.59	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D4	2020 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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	178.00	100.000
B		✓	104.00	100.000
C		✓	192.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	50.000	128.000
	B	36.000	0.000	68.000
	C	128.000	64.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.12	6.69	0.1	A
B-A	0.09	9.16	0.1	A
C-AB	0.12	6.78	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	51.19	630.88	0.081	50.84	0.1	6.202	A
B-A	27.10	458.10	0.059	26.85	0.1	8.344	A
C-AB	48.80	608.10	0.080	48.45	0.1	6.428	A
C-A	95.74			95.74			
A-B	37.64			37.64			
A-C	96.37			96.37			

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	61.13	623.37	0.098	61.05	0.1	6.402	A
B-A	32.36	447.42	0.072	32.30	0.1	8.671	A
C-AB	58.61	605.51	0.097	58.53	0.1	6.581	A
C-A	113.99			113.99			
A-B	44.95			44.95			
A-C	115.07			115.07			

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	74.87	612.86	0.122	74.75	0.1	6.688	A
B-A	39.64	432.66	0.092	39.55	0.1	9.155	A
C-AB	72.50	603.01	0.120	72.38	0.1	6.782	A
C-A	138.89			138.89			
A-B	55.05			55.05			
A-C	140.93			140.93			

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	74.87	612.82	0.122	74.87	0.1	6.691	A
B-A	39.64	432.62	0.092	39.63	0.1	9.160	A
C-AB	72.50	603.01	0.120	72.50	0.1	6.785	A
C-A	138.89			138.89			
A-B	55.05			55.05			
A-C	140.93			140.93			

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	61.13	623.31	0.098	61.25	0.1	6.405	A
B-A	32.36	447.35	0.072	32.45	0.1	8.679	A
C-AB	58.61	605.51	0.097	58.73	0.1	6.584	A
C-A	113.99			113.99			
A-B	44.95			44.95			
A-C	115.07			115.07			

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	51.19	630.76	0.081	51.28	0.1	6.215	A
B-A	27.10	457.96	0.059	27.16	0.1	8.359	A
C-AB	48.80	608.10	0.080	48.89	0.1	6.437	A
C-A	95.74			95.74			
A-B	37.64			37.64			
A-C	96.37			96.37			

2020 Base plus Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.35	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D5	2020 Base plus Dev	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	179.00	100.000
B		✓	97.00	100.000
C		✓	211.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	43.000	136.000
	B	57.000	0.000	40.000
	C	157.000	54.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.08	6.67	0.1	A
B-A	0.14	8.99	0.2	A
C-AB	0.10	6.64	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	30.11	604.69	0.050	29.91	0.1	6.262	A
B-A	42.91	490.89	0.087	42.53	0.1	8.023	A
C-AB	41.20	608.20	0.068	40.90	0.1	6.343	A
C-A	117.66			117.66			
A-B	32.37			32.37			
A-C	102.39			102.39			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	35.96	595.93	0.060	35.91	0.1	6.428	A
B-A	51.24	479.26	0.107	51.15	0.1	8.407	A
C-AB	49.49	605.69	0.082	49.42	0.1	6.471	A
C-A	140.20			140.20			
A-B	38.66			38.66			
A-C	122.26			122.26			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	44.04	583.78	0.075	43.97	0.1	6.669	A
B-A	62.76	463.20	0.135	62.61	0.2	8.984	A
C-AB	61.24	603.36	0.101	61.13	0.1	6.639	A
C-A	171.08			171.08			
A-B	47.34			47.34			
A-C	149.74			149.74			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	44.04	583.64	0.075	44.04	0.1	6.670	A
B-A	62.76	463.17	0.136	62.75	0.2	8.990	A
C-AB	61.24	603.36	0.101	61.23	0.1	6.639	A
C-A	171.08			171.08			
A-B	47.34			47.34			
A-C	149.74			149.74			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	35.96	595.68	0.060	36.03	0.1	6.432	A
B-A	51.24	479.22	0.107	51.38	0.1	8.416	A
C-AB	49.49	605.69	0.082	49.58	0.1	6.476	A
C-A	140.20			140.20			
A-B	38.66			38.66			
A-C	122.26			122.26			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	30.11	604.23	0.050	30.16	0.1	6.273	A
B-A	42.91	490.81	0.087	43.01	0.1	8.042	A
C-AB	41.20	608.20	0.068	41.27	0.1	6.350	A
C-A	117.66			117.66			
A-B	32.37			32.37			
A-C	102.39			102.39			

2020 Base plus dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	Arm B - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.77	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D6	2020 Base plus dev	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	199.00	100.000
B		✓	121.00	100.000
C		✓	200.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	128.000	71.000
	B	48.000	0.000	73.000
	C	128.000	72.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.13	6.78	0.2	A
B-A	0.12	9.02	0.1	A
C-AB	0.14	6.95	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	54.96	628.52	0.087	54.58	0.1	6.268	A
B-A	36.14	477.33	0.076	35.81	0.1	8.148	A
C-AB	55.00	605.48	0.091	54.60	0.1	6.531	A
C-A	95.57			95.57			
A-B	96.37			96.37			
A-C	53.45			53.45			

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	65.63	621.22	0.106	65.54	0.1	6.478	A
B-A	43.15	466.82	0.092	43.07	0.1	8.495	A
C-AB	66.11	602.64	0.110	66.01	0.1	6.709	A
C-A	113.68			113.68			
A-B	115.07			115.07			
A-C	63.83			63.83			

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	80.37	610.95	0.132	80.24	0.2	6.781	A
B-A	52.85	452.07	0.117	52.73	0.1	9.011	A
C-AB	81.90	599.97	0.137	81.75	0.2	6.945	A
C-A	138.30			138.30			
A-B	140.93			140.93			
A-C	78.17			78.17			

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	80.37	610.89	0.132	80.37	0.2	6.785	A
B-A	52.85	452.07	0.117	52.85	0.1	9.017	A
C-AB	81.90	599.97	0.137	81.90	0.2	6.951	A
C-A	138.30			138.30			
A-B	140.93			140.93			
A-C	78.17			78.17			

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	65.63	621.12	0.106	65.75	0.1	6.483	A
B-A	43.15	466.85	0.092	43.27	0.1	8.501	A
C-AB	66.11	602.64	0.110	66.25	0.1	6.715	A
C-A	113.68			113.68			
A-B	115.07			115.07			
A-C	63.83			63.83			

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	54.96	628.31	0.087	55.05	0.1	6.282	A
B-A	36.14	477.40	0.076	36.22	0.1	8.161	A
C-AB	55.00	605.48	0.091	55.10	0.1	6.541	A
C-A	95.57			95.57			
A-B	96.37			96.37			
A-C	53.45			53.45			

S|C|P

APPENDIX 10

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []
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Filename: Picady Barnsley Rd_Manor Rd priority.j9
Path: Z:\Job Library\2014\14923 - Carrs Lane, Cudworth, Barnsley\Traffic Data\Models\JUnction Models and PDF outputs
Report generation date: 05/10/2015 10:52:37

»2015, AM
»2015, PM
»2020 Base, AM
»2020 Base, PM
»2020 Base plus Dev, AM
»2020 Base plus Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2015							
Stream B-AC	0.6	10.90	0.38	B	0.4	10.34	0.27	B
Stream C-AB	0.2	6.55	0.17	A	0.4	7.14	0.25	A
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base							
Stream B-AC	0.7	12.08	0.43	B	0.4	11.31	0.31	B
Stream C-AB	0.3	6.67	0.19	A	0.5	7.34	0.28	A
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base plus Dev							
Stream B-AC	1.1	14.23	0.53	B	0.6	12.13	0.37	B
Stream C-AB	0.3	6.86	0.23	A	0.7	8.03	0.37	A
Stream C-A								
Stream A-B								
Stream A-C								

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	Barnsley Road / Manor Road
Location	Cudworth
Site number	
Date	16/07/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	14932
Enumerator	SCP"Tony Harrigan
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

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2015	AM	ONE HOUR	08:00	09:30	15
2015	PM	ONE HOUR	16:45	18:15	15
2020 Base	AM	ONE HOUR	08:00	09:30	15
2020 Base	PM	ONE HOUR	16:45	18:15	15
2020 Base plus Dev	AM	ONE HOUR	08:00	09:30	15
2020 Base plus Dev	PM	ONE HOUR	16:45	18:15	15

2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.87	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Barnsley Rd (N)		Major
B	Manor Road		Minor
C	Barnsley Road (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	8.40			214.0	✓	1.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.30	40	23

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	567.151	0.093	0.234	0.147	0.334
1	B-C	721.507	0.099	0.250	-	-
1	C-B	697.893	0.242	0.242	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D1	2015	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	350.00	100.000
B		✓	186.00	100.000
C		✓	395.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	73.000	277.000
	B	62.000	0.000	124.000
	C	303.000	92.000	0.000

Vehicle Mix

Heavy Vehicle proportion

	To			
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.38	10.90	0.6	B
C-AB	0.17	6.55	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	140.03	576.61	0.243	138.76	0.3	8.198	A
C-AB	71.98	659.00	0.109	71.48	0.1	6.122	A
C-A	225.39			225.39			
A-B	54.96			54.96			
A-C	208.54			208.54			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	167.21	559.36	0.299	166.80	0.4	9.160	A
C-AB	87.53	657.93	0.133	87.39	0.2	6.310	A
C-A	267.57			267.57			
A-B	65.63			65.63			
A-C	249.02			249.02			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	204.79	535.12	0.383	204.04	0.6	10.848	B
C-AB	110.66	660.47	0.168	110.43	0.2	6.544	A
C-A	324.24			324.24			
A-B	80.37			80.37			
A-C	304.98			304.98			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	204.79	535.08	0.383	204.77	0.6	10.896	B
C-AB	110.66	660.47	0.168	110.65	0.2	6.548	A
C-A	324.24			324.24			
A-B	80.37			80.37			
A-C	304.98			304.98			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	167.21	559.30	0.299	167.94	0.4	9.217	A
C-AB	87.53	657.93	0.133	87.75	0.2	6.318	A
C-A	267.57			267.57			
A-B	65.63			65.63			
A-C	249.02			249.02			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	140.03	576.50	0.243	140.46	0.3	8.264	A
C-AB	71.98	659.00	0.109	72.13	0.1	6.135	A
C-A	225.39			225.39			
A-B	54.96			54.96			
A-C	208.54			208.54			

2015, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.33	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D2	2015	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	409.00	100.000
B		✓	116.00	100.000
C		✓	441.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	127.000	282.000
	B	58.000	0.000	58.000
	C	307.000	134.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.27	10.34	0.4	B
C-AB	0.25	7.14	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	87.33	528.33	0.165	86.55	0.2	8.136	A
C-AB	106.94	660.73	0.162	106.13	0.2	6.482	A
C-A	225.07			225.07			
A-B	95.61			95.61			
A-C	212.30			212.30			

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	104.28	506.47	0.206	104.04	0.3	8.940	A
C-AB	131.27	663.46	0.198	131.01	0.3	6.761	A
C-A	265.18			265.18			
A-B	114.17			114.17			
A-C	253.51			253.51			

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	127.72	475.79	0.268	127.30	0.4	10.317	B
C-AB	168.76	673.53	0.251	168.31	0.4	7.125	A
C-A	316.79			316.79			
A-B	139.83			139.83			
A-C	310.49			310.49			

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	127.72	475.69	0.268	127.71	0.4	10.345	B
C-AB	168.76	673.53	0.251	168.74	0.4	7.138	A
C-A	316.79			316.79			
A-B	139.83			139.83			
A-C	310.49			310.49			

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	104.28	506.31	0.206	104.69	0.3	8.974	A
C-AB	131.27	663.46	0.198	131.70	0.3	6.779	A
C-A	265.18			265.18			
A-B	114.17			114.17			
A-C	253.51			253.51			

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	87.33	528.08	0.165	87.58	0.2	8.178	A
C-AB	106.94	660.73	0.162	107.20	0.2	6.507	A
C-A	225.07			225.07			
A-B	95.61			95.61			
A-C	212.30			212.30			

2020 Base, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.13	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D3	2020 Base	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	383.00	100.000
B		✓	204.00	100.000
C		✓	432.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	80.000	303.000
	B	68.000	0.000	136.000
	C	331.000	101.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.43	12.08	0.7	B
C-AB	0.19	6.67	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	153.58	568.31	0.270	152.12	0.4	8.620	A
C-AB	79.69	658.24	0.121	79.12	0.1	6.212	A
C-A	245.54			245.54			
A-B	60.23			60.23			
A-C	228.11			228.11			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	183.39	549.26	0.334	182.88	0.5	9.812	A
C-AB	97.29	658.48	0.148	97.13	0.2	6.411	A
C-A	291.07			291.07			
A-B	71.92			71.92			
A-C	272.39			272.39			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	224.61	522.42	0.430	223.63	0.7	12.005	B
C-AB	123.90	663.80	0.187	123.63	0.3	6.664	A
C-A	351.74			351.74			
A-B	88.08			88.08			
A-C	333.61			333.61			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	224.61	522.37	0.430	224.58	0.7	12.084	B
C-AB	123.90	663.80	0.187	123.89	0.3	6.669	A
C-A	351.74			351.74			
A-B	88.08			88.08			
A-C	333.61			333.61			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	183.39	549.19	0.334	184.34	0.5	9.894	A
C-AB	97.29	658.48	0.148	97.56	0.2	6.421	A
C-A	291.07			291.07			
A-B	71.92			71.92			
A-C	272.39			272.39			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	153.58	568.18	0.270	154.12	0.4	8.705	A
C-AB	79.69	658.24	0.121	79.86	0.1	6.226	A
C-A	245.54			245.54			
A-B	60.23			60.23			
A-C	228.11			228.11			

2020 Base, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.52	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D4	2020 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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	448.00	100.000
B		✓	128.00	100.000
C		✓	483.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	139.000	309.000
	B	64.000	0.000	64.000
	C	336.000	147.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.31	11.31	0.4	B
C-AB	0.28	7.34	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	96.37	517.70	0.186	95.46	0.2	8.508	A
C-AB	118.83	661.65	0.180	117.90	0.2	6.610	A
C-A	244.80			244.80			
A-B	104.65			104.65			
A-C	232.63			232.63			

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	115.07	493.51	0.233	114.77	0.3	9.497	A
C-AB	146.79	666.85	0.220	146.48	0.3	6.918	A
C-A	287.42			287.42			
A-B	124.96			124.96			
A-C	277.78			277.78			

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	140.93	459.46	0.307	140.39	0.4	11.263	B
C-AB	190.81	681.95	0.280	190.25	0.4	7.320	A
C-A	340.98			340.98			
A-B	153.04			153.04			
A-C	340.22			340.22			

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	140.93	459.34	0.307	140.92	0.4	11.305	B
C-AB	190.81	681.95	0.280	190.80	0.5	7.338	A
C-A	340.98			340.98			
A-B	153.04			153.04			
A-C	340.22			340.22			

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	115.07	493.32	0.233	115.59	0.3	9.545	A
C-AB	146.79	666.85	0.220	147.33	0.3	6.942	A
C-A	287.42			287.42			
A-B	124.96			124.96			
A-C	277.78			277.78			

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	96.37	517.41	0.186	96.67	0.2	8.562	A
C-AB	118.83	661.65	0.180	119.15	0.2	6.643	A
C-A	244.80			244.80			
A-B	104.65			104.65			
A-C	232.63			232.63			

2020 Base plus Dev, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.21	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D5	2020 Base plus Dev	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	383.00	100.000
B		✓	259.00	100.000
C		✓	453.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	80.000	303.000
	B	68.000	0.000	191.000
	C	331.000	122.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.53	14.23	1.1	B
C-AB	0.23	6.86	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	194.99	582.92	0.335	193.01	0.5	9.188	A
C-AB	97.18	664.51	0.146	96.46	0.2	6.329	A
C-A	243.86			243.86			
A-B	60.23			60.23			
A-C	228.11			228.11			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	232.84	564.30	0.413	232.06	0.7	10.809	B
C-AB	119.15	667.62	0.178	118.94	0.2	6.560	A
C-A	288.08			288.08			
A-B	71.92			71.92			
A-C	272.39			272.39			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	285.16	537.97	0.530	283.55	1.1	14.058	B
C-AB	152.85	677.94	0.225	152.48	0.3	6.849	A
C-A	345.91			345.91			
A-B	88.08			88.08			
A-C	333.61			333.61			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	285.16	537.91	0.530	285.10	1.1	14.228	B
C-AB	152.85	677.94	0.225	152.84	0.3	6.861	A
C-A	345.91			345.91			
A-B	88.08			88.08			
A-C	333.61			333.61			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	232.84	564.21	0.413	234.41	0.7	10.968	B
C-AB	119.15	667.62	0.178	119.51	0.2	6.576	A
C-A	288.08			288.08			
A-B	71.92			71.92			
A-C	272.39			272.39			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	194.99	582.78	0.335	195.81	0.5	9.322	A
C-AB	97.18	664.51	0.146	97.40	0.2	6.353	A
C-A	243.86			243.86			
A-B	60.23			60.23			
A-C	228.11			228.11			

2020 Base plus Dev, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.29	A

Junction Network Options

[same as above]

Arms

Arms

[same as above]

Major Arm Geometry

[same as above]

Minor Arm Geometry

[same as above]

Slope / Intercept / Capacity

[same as above]

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D6	2020 Base plus Dev	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	448.00	100.000
B		✓	156.00	100.000
C		✓	532.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	139.000	309.000
	B	64.000	0.000	92.000
	C	336.000	196.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.37	12.13	0.6	B
C-AB	0.37	8.03	0.7	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (16:45-17:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	117.44	529.63	0.222	116.32	0.3	8.687	A
C-AB	162.06	676.79	0.239	160.70	0.3	6.960	A
C-A	238.45			238.45			
A-B	104.65			104.65			
A-C	232.63			232.63			

Main results: (17:00-17:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	140.24	504.43	0.278	139.85	0.4	9.863	A
C-AB	202.22	689.01	0.293	201.71	0.5	7.385	A
C-A	276.04			276.04			
A-B	124.96			124.96			
A-C	277.78			277.78			

Main results: (17:15-17:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	171.76	468.62	0.367	171.01	0.6	12.064	B
C-AB	267.29	716.46	0.373	266.29	0.7	7.997	A
C-A	318.45			318.45			
A-B	153.04			153.04			
A-C	340.22			340.22			

Main results: (17:30-17:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	171.76	468.41	0.367	171.74	0.6	12.132	B
C-AB	267.29	716.46	0.373	267.25	0.7	8.031	A
C-A	318.45			318.45			
A-B	153.04			153.04			
A-C	340.22			340.22			

Main results: (17:45-18:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	140.24	504.13	0.278	140.97	0.4	9.932	A
C-AB	202.22	689.01	0.293	203.19	0.5	7.434	A
C-A	276.04			276.04			
A-B	124.96			124.96			
A-C	277.78			277.78			

Main results: (18:00-18:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	117.44	529.23	0.222	117.85	0.3	8.759	A
C-AB	162.06	676.79	0.239	162.60	0.4	7.011	A
C-A	238.45			238.45			
A-B	104.65			104.65			
A-C	232.63			232.63			

S|C|P

APPENDIX 11

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.0.4211 []
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Filename: Picady Manor Rd_Newland Av priority.j9
Path: Z:\Job Library\2014\14923 - Carrs Lane, Cudworth, Barnsley\Traffic Data\Models\JUnction Models and PDF outputs
Report generation date: 05/10/2015 10:48:16

»2015, AM
»2015, PM
»2020 Base, AM
»2020 Base, PM
»2020 Base plus Dev, AM
»2020 Base plus Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2015							
Stream B-C	0.1	6.26	0.12	A	0.1	6.02	0.09	A
Stream B-A	0.1	8.93	0.09	A	0.1	9.05	0.10	A
Stream C-AB	0.1	6.69	0.11	A	0.2	6.84	0.18	A
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base							
Stream B-C	0.2	6.40	0.14	A	0.1	6.12	0.10	A
Stream B-A	0.1	9.17	0.10	A	0.1	9.34	0.11	A
Stream C-AB	0.1	6.80	0.12	A	0.3	6.95	0.20	A
Stream C-A								
Stream A-B								
Stream A-C								
	2020 Base plus Dev							
Stream B-C	0.3	7.28	0.23	A	0.2	6.47	0.15	A
Stream B-A	0.2	10.08	0.15	B	0.2	10.26	0.14	B
Stream C-AB	0.2	7.07	0.16	A	0.4	7.62	0.29	A
Stream C-A								
Stream A-B								
Stream A-C								

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	Manor Rd_Newland Av
Location	Cudworth
Site number	
Date	16/07/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	14923
Enumerator	SCP"Tony Harrigan
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

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
2015	AM	ONE HOUR	08:00	09:30	15
2015	PM	ONE HOUR	16:45	18:15	15
2020 Base	AM	ONE HOUR	08:00	09:30	15
2020 Base	PM	ONE HOUR	16:45	18:15	15
2020 Base plus Dev	AM	ONE HOUR	08:00	09:30	15
2020 Base plus Dev	PM	ONE HOUR	16:45	18:15	15

2015, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	2.76	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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 bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.80			108.0	✓	1.00

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	4.80	3.80	3.80	3.80	✓	1.00	30	29

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	516.627	0.091	0.230	0.144	0.328
1	B-C	712.917	0.105	0.267	-	-
1	C-B	636.507	0.238	0.238	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Model start time (HH:mm)	Model finish time (HH:mm)	Time segment length (min)
D1	2015	AM	ONE HOUR	08:00	09:30	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	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	165.00	100.000
B		✓	111.00	100.000
C		✓	159.00	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0.000	49.000	116.000
	B	37.000	0.000	74.000
	C	99.000	60.000	0.000

Vehicle Mix

Heavy Vehicle proportion

		To		
		A	B	C
From	A	0	0	0
	B	0	0	0
	C	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-C	0.12	6.26	0.1	A
B-A	0.09	8.93	0.1	A
C-AB	0.11	6.69	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

Main results: (08:00-08:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	55.71	675.34	0.082	55.35	0.1	5.804	A
B-A	27.86	467.39	0.060	27.60	0.1	8.182	A
C-AB	45.58	612.49	0.074	45.26	0.1	6.344	A
C-A	74.12			74.12			
A-B	36.89			36.89			
A-C	87.33			87.33			

Main results: (08:15-08:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	66.52	667.60	0.100	66.44	0.1	5.988	A
B-A	33.26	457.64	0.073	33.20	0.1	8.481	A
C-AB	54.66	609.18	0.090	54.58	0.1	6.491	A
C-A	88.28			88.28			
A-B	44.05			44.05			
A-C	104.28			104.28			

Main results: (08:30-08:45)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	81.48	656.89	0.124	81.35	0.1	6.253	A
B-A	40.74	444.07	0.092	40.65	0.1	8.921	A
C-AB	67.41	605.40	0.111	67.30	0.1	6.690	A
C-A	107.65			107.65			
A-B	53.95			53.95			
A-C	127.72			127.72			

Main results: (08:45-09:00)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	81.48	656.83	0.124	81.47	0.1	6.256	A
B-A	40.74	444.04	0.092	40.74	0.1	8.925	A
C-AB	67.41	605.40	0.111	67.41	0.1	6.690	A
C-A	107.65			107.65			
A-B	53.95			53.95			
A-C	127.72			127.72			

Main results: (09:00-09:15)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	66.52	667.49	0.100	66.64	0.1	5.994	A
B-A	33.26	457.60	0.073	33.35	0.1	8.488	A
C-AB	54.66	609.18	0.090	54.76	0.1	6.496	A
C-A	88.28			88.28			
A-B	44.05			44.05			
A-C	104.28			104.28			

Main results: (09:15-09:30)

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	55.71	675.11	0.083	55.79	0.1	5.813	A
B-A	27.86	467.34	0.060	27.92	0.1	8.193	A
C-AB	45.58	612.49	0.074	45.66	0.1	6.351	A
C-A	74.12			74.12			
A-B	36.89			36.89			
A-C	87.33			87.33			