Appendix J-13

Junctions 10 Output – Redbrook Road / Church Street Junction

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Redbrook Road - Church Street
Report generation date: 09/11/2023 14:07:56

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a , AM
»2026 Residential Phase 1a , PM
»2033 Full Residential , AM
»2033 Full Residential , PM
»2026 Employment, AM
»2026 Employment, PM
»2026 Phase 1 (Without Link), AM
»2026 Phase 1 (Without Link), PM
»2026 Phase 1 (With Link), AM
»2026 Phase 1 (With Link), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	0.3	12.14	0.24	0.2	10.73	0.14
Stream C-AB	0.6	5.45	0.23	0.4	5.70	0.18
	2026 Do Minimum					
Stream B-AC	0.3	12.43	0.24	0.2	11.02	0.14
Stream C-AB	0.6	5.41	0.24	0.4	5.68	0.18
	2033 Do Minimum					
Stream B-AC	0.4	13.19	0.26	0.2	11.53	0.15
Stream C-AB	0.7	5.46	0.26	0.5	5.73	0.20
	2026 Residential Phase 1a					
Stream B-AC	0.3	12.55	0.24	0.2	11.18	0.14
Stream C-AB	0.6	5.37	0.24	0.4	5.67	0.18
	2033 Full Residential					
Stream B-AC	0.1	7.25	0.05	0.1	9.27	0.08
Stream C-AB	0.0	4.25	0.03	0.1	4.90	0.05
	2026 Employment					
Stream B-AC	0.3	12.74	0.24	0.2	11.19	0.14
Stream C-AB	0.6	5.44	0.25	0.4	5.62	0.18
	2026 Phase 1 (Without Link)					
Stream B-AC	0.3	12.87	0.25	0.2	11.35	0.15
Stream C-AB	0.7	5.41	0.25	0.4	5.61	0.18
	2026 Phase 1 (With Link)					
Stream B-AC	0.0	6.62	0.02	0.1	9.03	0.05
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
	2033 Full Development					
Stream B-AC	0.1	7.35	0.05	0.1	9.38	0.08
Stream C-AB	0.0	4.26	0.03	0.1	4.85	0.05

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	Redbrook Road/Church Street
Location	
Site number	
Date	22/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓
D13	2026 Phase 1 (Without Link)	AM	ONE HOUR	07:45	09:15	15	✓
D14	2026 Phase 1 (Without Link)	PM	ONE HOUR	16:15	17:45	15	✓
D15	2026 Phase 1 (With Link)	AM	ONE HOUR	07:45	09:15	15	✓
D16	2026 Phase 1 (With Link)	PM	ONE HOUR	16:15	17:45	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.89	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.89	A

Arms

Arms

Arm	Name	Description	Arm type
A	Redbrook Road East		Major
B	Church Street		Minor
C	Redbrook Road West		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	8.85			86.0	✓	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	3.46	20	110

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	563	0.089	0.224	0.141	0.320
B-C	725	0.099	0.249	-	-
C-B	624	0.212	0.212	-	-

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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	411	100.000
B		ONE HOUR	✓	85	100.000
C		ONE HOUR	✓	515	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	101	310
	B	76	0	9
	C	434	81	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	3
	B	1	0	13
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.24	12.14	0.3	B	78	117
C-AB	0.23	5.45	0.6	A	148	223
C-A					324	486
A-B					93	139
A-C					284	427

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	64	16	454	0.141	63	0.0	0.2	9.392	A
C-AB	105	26	784	0.133	104	0.0	0.3	5.314	A
C-A	283	71			283				
A-B	76	19			76				
A-C	233	58			233				

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	76	19	430	0.178	76	0.2	0.2	10.387	B
C-AB	140	35	818	0.171	139	0.3	0.4	5.338	A
C-A	323	81			323				
A-B	91	23			91				
A-C	279	70			279				

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	94	23	397	0.236	93	0.2	0.3	12.103	B
C-AB	200	50	866	0.231	199	0.4	0.6	5.435	A
C-A	367	92			367				
A-B	111	28			111				
A-C	341	85			341				

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	94	23	397	0.236	94	0.3	0.3	12.137	B
C-AB	200	50	867	0.231	200	0.6	0.6	5.449	A
C-A	367	92			367				
A-B	111	28			111				
A-C	341	85			341				

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	76	19	430	0.178	77	0.3	0.2	10.429	B
C-AB	140	35	818	0.171	141	0.6	0.4	5.361	A
C-A	323	81			323				
A-B	91	23			91				
A-C	279	70			279				

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	64	16	454	0.141	64	0.2	0.2	9.442	A
C-AB	105	26	784	0.134	106	0.4	0.3	5.341	A
C-A	283	71			283				
A-B	76	19			76				
A-C	233	58			233				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.19	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.19	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
D2	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	517	100.000
B		ONE HOUR	✓	48	100.000
C		ONE HOUR	✓	404	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	91	426
	B	43	0	5
	C	341	63	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.14	10.73	0.2	B	44	66
C-AB	0.18	5.70	0.4	A	102	153
C-A					269	403
A-B					84	125
A-C					391	586

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	448	0.081	36	0.0	0.1	8.719	A
C-AB	74	18	721	0.102	73	0.0	0.2	5.594	A
C-A	230	58			230				
A-B	69	17			69				
A-C	321	80			321				

16:30 - 16:45

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	43	11	423	0.102	43	0.1	0.1	9.468	A
C-AB	97	24	743	0.130	97	0.2	0.3	5.620	A
C-A	266	67			266				
A-B	82	20			82				
A-C	383	96			383				

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	53	13	389	0.136	53	0.1	0.2	10.714	B
C-AB	135	34	774	0.175	135	0.3	0.4	5.688	A
C-A	309	77			309				
A-B	100	25			100				
A-C	469	117			469				

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	53	13	388	0.136	53	0.2	0.2	10.727	B
C-AB	136	34	774	0.175	136	0.4	0.4	5.701	A
C-A	309	77			309				
A-B	100	25			100				
A-C	469	117			469				

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	43	11	423	0.102	43	0.2	0.1	9.484	A
C-AB	97	24	743	0.131	98	0.4	0.3	5.641	A
C-A	266	67			266				
A-B	82	20			82				
A-C	383	96			383				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	448	0.081	36	0.1	0.1	8.742	A
C-AB	74	19	721	0.103	74	0.3	0.2	5.615	A
C-A	230	58			230				
A-B	69	17			69				
A-C	321	80			321				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	423	100.000
B		ONE HOUR	✓	85	100.000
C		ONE HOUR	✓	542	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	102	321
	B	76	0	9
	C	460	82	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	3
	B	1	0	13
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.24	12.43	0.3	B	78	117
C-AB	0.24	5.41	0.6	A	157	235
C-A					341	511
A-B					94	140
A-C					295	442

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	64	16	449	0.142	63	0.0	0.2	9.510	A
C-AB	109	27	796	0.137	108	0.0	0.3	5.259	A
C-A	299	75			299				
A-B	77	19			77				
A-C	242	60			242				

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	76	19	424	0.180	76	0.2	0.2	10.561	B
C-AB	147	37	832	0.177	147	0.3	0.4	5.283	A
C-A	340	85			340				
A-B	92	23			92				
A-C	289	72			289				

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	94	23	390	0.240	93	0.2	0.3	12.394	B
C-AB	213	53	884	0.240	212	0.4	0.6	5.392	A
C-A	384	96			384				
A-B	112	28			112				
A-C	353	88			353				

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	94	23	389	0.240	94	0.3	0.3	12.432	B
C-AB	213	53	885	0.241	213	0.6	0.6	5.405	A
C-A	384	96			384				
A-B	112	28			112				
A-C	353	88			353				

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	76	19	424	0.180	77	0.3	0.2	10.605	B
C-AB	148	37	833	0.177	148	0.6	0.4	5.305	A
C-A	340	85			340				
A-B	92	23			92				
A-C	289	72			289				

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	64	16	449	0.143	64	0.2	0.2	9.564	A
C-AB	110	27	796	0.138	110	0.4	0.3	5.287	A
C-A	298	75			298				
A-B	77	19			77				
A-C	242	60			242				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.18	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.18	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 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	539	100.000
B		ONE HOUR	✓	49	100.000
C		ONE HOUR	✓	417	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	92	447
	B	44	0	5
	C	354	63	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.14	11.02	0.2	B	45	67
C-AB	0.18	5.68	0.4	A	105	157
C-A					278	417
A-B					84	127
A-C					410	615

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	443	0.083	37	0.0	0.1	8.849	A
C-AB	75	19	725	0.104	74	0.0	0.2	5.574	A
C-A	239	60			239				
A-B	69	17			69				
A-C	337	84			337				

16:30 - 16:45

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	44	11	417	0.106	44	0.1	0.1	9.649	A
C-AB	99	25	747	0.132	99	0.2	0.3	5.599	A
C-A	276	69			276				
A-B	83	21			83				
A-C	402	100			402				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	381	0.142	54	0.1	0.2	11.001	B
C-AB	139	35	780	0.178	139	0.3	0.4	5.669	A
C-A	320	80			320				
A-B	101	25			101				
A-C	492	123			492				

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	54	13	381	0.142	54	0.2	0.2	11.016	B
C-AB	139	35	781	0.179	139	0.4	0.4	5.684	A
C-A	320	80			320				
A-B	101	25			101				
A-C	492	123			492				

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	44	11	417	0.106	44	0.2	0.1	9.668	A
C-AB	99	25	748	0.133	100	0.4	0.3	5.621	A
C-A	276	69			276				
A-B	83	21			83				
A-C	402	100			402				

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	37	9	443	0.083	37	0.1	0.1	8.873	A
C-AB	75	19	725	0.104	76	0.3	0.2	5.595	A
C-A	239	60			239				
A-B	69	17			69				
A-C	337	84			337				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.99	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.99	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	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	447	100.000
B		ONE HOUR	✓	90	100.000
C		ONE HOUR	✓	573	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	108	339
	B	81	0	9
	C	487	86	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	3
	B	1	0	13
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.26	13.19	0.4	B	83	124
C-AB	0.26	5.46	0.7	A	172	258
C-A					354	531
A-B					99	149
A-C					311	467

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	68	17	441	0.154	67	0.0	0.2	9.803	A
C-AB	119	30	807	0.147	118	0.0	0.3	5.246	A
C-A	313	78			313				
A-B	81	20			81				
A-C	255	64			255				

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	81	20	415	0.195	81	0.2	0.2	10.997	B
C-AB	161	40	846	0.190	161	0.3	0.4	5.285	A
C-A	354	89			354				
A-B	97	24			97				
A-C	305	76			305				

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	99	25	378	0.262	99	0.2	0.4	13.138	B
C-AB	235	59	902	0.261	234	0.4	0.7	5.435	A
C-A	396	99			396				
A-B	119	30			119				
A-C	373	93			373				

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	99	25	378	0.262	99	0.4	0.4	13.186	B
C-AB	236	59	902	0.261	236	0.7	0.7	5.455	A
C-A	395	99			395				
A-B	119	30			119				
A-C	373	93			373				

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	81	20	414	0.195	81	0.4	0.3	11.053	B
C-AB	162	40	847	0.191	163	0.7	0.4	5.314	A
C-A	353	88			353				
A-B	97	24			97				
A-C	305	76			305				

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	68	17	441	0.154	68	0.3	0.2	9.865	A
C-AB	119	30	807	0.148	120	0.4	0.3	5.277	A
C-A	312	78			312				
A-B	81	20			81				
A-C	255	64			255				

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.23	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.23	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	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	571	100.000
B		ONE HOUR	✓	51	100.000
C		ONE HOUR	✓	442	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	97	474
	B	46	0	5
	C	375	67	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.15	11.53	0.2	B	47	70
C-AB	0.20	5.73	0.5	A	116	173
C-A					290	435
A-B					89	134
A-C					435	652

Main Results for each time segment

16:15 - 16:30

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	38	10	434	0.088	38	0.0	0.1	9.074	A
C-AB	82	21	732	0.112	81	0.0	0.2	5.582	A
C-A	251	63			251				
A-B	73	18			73				
A-C	357	89			357				

16:30 - 16:45

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	46	11	407	0.113	46	0.1	0.1	9.971	A
C-AB	109	27	756	0.144	109	0.2	0.3	5.615	A
C-A	288	72			288				
A-B	87	22			87				
A-C	426	107			426				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	56	14	368	0.152	56	0.1	0.2	11.516	B
C-AB	155	39	791	0.196	154	0.3	0.5	5.714	A
C-A	332	83			332				
A-B	107	27			107				
A-C	522	130			522				

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	56	14	368	0.152	56	0.2	0.2	11.534	B
C-AB	155	39	792	0.196	155	0.5	0.5	5.731	A
C-A	331	83			331				
A-B	107	27			107				
A-C	522	130			522				

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	46	11	406	0.113	46	0.2	0.1	9.995	A
C-AB	109	27	756	0.145	110	0.5	0.3	5.638	A
C-A	288	72			288				
A-B	87	22			87				
A-C	426	107			426				

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	38	10	434	0.088	39	0.1	0.1	9.104	A
C-AB	83	21	732	0.113	83	0.3	0.2	5.602	A
C-A	250	63			250				
A-B	73	18			73				
A-C	357	89			357				

2026 Residential Phase 1a , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	426	100.000
B		ONE HOUR	✓	85	100.000
C		ONE HOUR	✓	556	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	102	324
	B	76	0	9
	C	474	82	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	3
	B	1	0	13
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.24	12.55	0.3	B	78	117
C-AB	0.24	5.37	0.6	A	160	240
C-A					350	525
A-B					94	140
A-C					297	446

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	64	16	447	0.143	63	0.0	0.2	9.559	A
C-AB	111	28	803	0.139	110	0.0	0.3	5.221	A
C-A	307	77			307				
A-B	77	19			77				
A-C	244	61			244				

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	76	19	422	0.181	76	0.2	0.2	10.632	B
C-AB	150	38	841	0.179	150	0.3	0.4	5.243	A
C-A	350	87			350				
A-B	92	23			92				
A-C	291	73			291				

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	94	23	387	0.242	93	0.2	0.3	12.516	B
C-AB	218	54	895	0.244	217	0.4	0.6	5.351	A
C-A	394	99			394				
A-B	112	28			112				
A-C	357	89			357				

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	94	23	386	0.242	94	0.3	0.3	12.555	B
C-AB	218	55	895	0.244	218	0.6	0.6	5.366	A
C-A	394	98			394				
A-B	112	28			112				
A-C	357	89			357				

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	76	19	422	0.181	77	0.3	0.2	10.678	B
C-AB	151	38	841	0.179	152	0.6	0.4	5.267	A
C-A	349	87			349				
A-B	92	23			92				
A-C	291	73			291				

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	64	16	447	0.143	64	0.2	0.2	9.613	A
C-AB	112	28	803	0.139	112	0.4	0.3	5.249	A
C-A	307	77			307				
A-B	77	19			77				
A-C	244	61			244				

2026 Residential Phase 1a , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.17	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.17	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	553	100.000
B		ONE HOUR	✓	49	100.000
C		ONE HOUR	✓	425	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	92	461
	B	44	0	5
	C	362	63	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.14	11.18	0.2	B	45	67
C-AB	0.18	5.67	0.4	A	106	159
C-A					284	426
A-B					84	127
A-C					423	635

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	440	0.084	37	0.0	0.1	8.918	A
C-AB	76	19	727	0.104	75	0.0	0.2	5.562	A
C-A	244	61			244				
A-B	69	17			69				
A-C	347	87			347				

16:30 - 16:45

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	44	11	413	0.107	44	0.1	0.1	9.750	A
C-AB	100	25	750	0.134	100	0.2	0.3	5.586	A
C-A	282	70			282				
A-B	83	21			83				
A-C	414	104			414				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	376	0.143	54	0.1	0.2	11.161	B
C-AB	142	35	784	0.181	141	0.3	0.4	5.658	A
C-A	326	82			326				
A-B	101	25			101				
A-C	508	127			508				

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	54	13	376	0.143	54	0.2	0.2	11.178	B
C-AB	142	35	784	0.181	142	0.4	0.4	5.672	A
C-A	326	81			326				
A-B	101	25			101				
A-C	508	127			508				

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	44	11	413	0.107	44	0.2	0.1	9.770	A
C-AB	101	25	751	0.134	101	0.4	0.3	5.609	A
C-A	281	70			281				
A-B	83	21			83				
A-C	414	104			414				

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	37	9	440	0.084	37	0.1	0.1	8.946	A
C-AB	76	19	727	0.105	77	0.3	0.2	5.586	A
C-A	244	61			244				
A-B	69	17			69				
A-C	347	87			347				

2033 Full Residential , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.26	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.26	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	386	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	591	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	6	380
	B	5	0	20
	C	583	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	14	3
	B	1	0	6
	C	1	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	7.25	0.1	A	23	34
C-AB	0.03	4.25	0.0	A	18	27
C-A					524	786
A-B					6	8
A-C					349	523

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	594	0.032	19	0.0	0.0	6.571	A
C-AB	12	3	864	0.014	12	0.0	0.0	4.247	A
C-A	433	108			433				
A-B	5	1			5				
A-C	286	72			286				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	575	0.039	22	0.0	0.0	6.839	A
C-AB	17	4	914	0.018	17	0.0	0.0	4.033	A
C-A	514	129			514				
A-B	5	1			5				
A-C	342	85			342				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	548	0.050	27	0.0	0.1	7.252	A
C-AB	25	6	985	0.026	25	0.0	0.0	3.772	A
C-A	625	156			625				
A-B	7	2			7				
A-C	418	105			418				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	548	0.050	28	0.1	0.1	7.252	A
C-AB	25	6	985	0.026	25	0.0	0.0	3.773	A
C-A	625	156			625				
A-B	7	2			7				
A-C	418	105			418				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	575	0.039	23	0.1	0.0	6.843	A
C-AB	17	4	914	0.019	17	0.0	0.0	4.037	A
C-A	514	129			514				
A-B	5	1			5				
A-C	342	85			342				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	594	0.032	19	0.0	0.0	6.577	A
C-AB	12	3	864	0.014	12	0.0	0.0	4.250	A
C-A	433	108			433				
A-B	5	1			5				
A-C	286	72			286				

2033 Full Residential , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.42	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
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	547	100.000
B		ONE HOUR	✓	30	100.000
C		ONE HOUR	✓	438	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	6	541
	B	18	0	12
	C	423	15	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	9.27	0.1	A	28	41
C-AB	0.05	4.90	0.1	A	28	42
C-A					374	561
A-B					6	8
A-C					496	745

Main Results for each time segment

16:15 - 16:30

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	23	6	485	0.047	22	0.0	0.0	7.779	A
C-AB	19	5	760	0.026	19	0.0	0.0	4.900	A
C-A	310	78			310				
A-B	5	1			5				
A-C	407	102			407				

16:30 - 16:45

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	27	7	459	0.059	27	0.0	0.1	8.340	A
C-AB	26	7	790	0.033	26	0.0	0.0	4.753	A
C-A	368	92			368				
A-B	5	1			5				
A-C	486	122			486				

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	33	8	422	0.078	33	0.1	0.1	9.262	A
C-AB	38	9	834	0.045	37	0.0	0.1	4.568	A
C-A	445	111			445				
A-B	7	2			7				
A-C	596	149			596				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	8	422	0.078	33	0.1	0.1	9.266	A
C-AB	38	9	834	0.045	38	0.1	0.1	4.574	A
C-A	445	111			445				
A-B	7	2			7				
A-C	596	149			596				

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	27	7	458	0.059	27	0.1	0.1	8.345	A
C-AB	26	7	790	0.033	26	0.1	0.0	4.761	A
C-A	368	92			368				
A-B	5	1			5				
A-C	486	122			486				

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	23	6	485	0.047	23	0.1	0.0	7.789	A
C-AB	20	5	760	0.026	20	0.0	0.0	4.905	A
C-A	310	78			310				
A-B	5	1			5				
A-C	407	102			407				

2026 Employment, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	445	100.000
B		ONE HOUR	✓	85	100.000
C		ONE HOUR	✓	553	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	102	343
	B	76	0	9
	C	471	82	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	4
	B	1	0	13
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.24	12.74	0.3	B	78	117
C-AB	0.25	5.44	0.6	A	160	240
C-A					347	521
A-B					94	140
A-C					315	472

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	64	16	444	0.144	63	0.0	0.2	9.634	A
C-AB	111	28	799	0.139	110	0.0	0.3	5.273	A
C-A	305	76			305				
A-B	77	19			77				
A-C	258	65			258				

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	76	19	418	0.183	76	0.2	0.2	10.742	B
C-AB	150	38	836	0.180	150	0.3	0.4	5.300	A
C-A	347	87			347				
A-B	92	23			92				
A-C	308	77			308				

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	94	23	382	0.245	93	0.2	0.3	12.701	B
C-AB	218	54	889	0.245	217	0.4	0.6	5.423	A
C-A	391	98			391				
A-B	112	28			112				
A-C	378	94			378				

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	94	23	382	0.245	94	0.3	0.3	12.744	B
C-AB	218	55	890	0.245	218	0.6	0.6	5.443	A
C-A	391	98			391				
A-B	112	28			112				
A-C	378	94			378				

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	76	19	418	0.183	77	0.3	0.2	10.790	B
C-AB	151	38	837	0.180	151	0.6	0.4	5.330	A
C-A	347	87			347				
A-B	92	23			92				
A-C	308	77			308				

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	64	16	444	0.144	64	0.2	0.2	9.686	A
C-AB	112	28	799	0.140	112	0.4	0.3	5.304	A
C-A	305	76			305				
A-B	77	19			77				
A-C	258	65			258				

2026 Employment, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.17	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.17	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	548	100.000
B		ONE HOUR	✓	49	100.000
C		ONE HOUR	✓	435	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	92	456
	B	44	0	5
	C	372	63	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.14	11.19	0.2	B	45	67
C-AB	0.18	5.62	0.4	A	108	162
C-A					291	437
A-B					84	127
A-C					418	628

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	440	0.084	37	0.0	0.1	8.922	A
C-AB	77	19	733	0.105	76	0.0	0.2	5.519	A
C-A	251	63			251				
A-B	69	17			69				
A-C	343	86			343				

16:30 - 16:45

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	44	11	413	0.107	44	0.1	0.1	9.755	A
C-AB	102	25	758	0.134	101	0.2	0.3	5.536	A
C-A	289	72			289				
A-B	83	21			83				
A-C	410	102			410				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	376	0.144	54	0.1	0.2	11.170	B
C-AB	144	36	793	0.182	144	0.3	0.4	5.603	A
C-A	335	84			335				
A-B	101	25			101				
A-C	502	126			502				

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	54	13	376	0.144	54	0.2	0.2	11.187	B
C-AB	144	36	793	0.182	144	0.4	0.4	5.616	A
C-A	335	84			335				
A-B	101	25			101				
A-C	502	126			502				

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	44	11	413	0.107	44	0.2	0.1	9.775	A
C-AB	102	26	758	0.135	103	0.4	0.3	5.559	A
C-A	289	72			289				
A-B	83	21			83				
A-C	410	102			410				

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	37	9	439	0.084	37	0.1	0.1	8.950	A
C-AB	77	19	733	0.105	77	0.3	0.2	5.544	A
C-A	250	63			250				
A-B	69	17			69				
A-C	343	86			343				

2026 Phase 1 (Without Link), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.87	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.87	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
D13	2026 Phase 1 (Without Link)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	448	100.000
B		ONE HOUR	✓	85	100.000
C		ONE HOUR	✓	566	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	102	346
	B	76	0	9
	C	484	82	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	4
	B	1	0	13
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.25	12.87	0.3	B	78	117
C-AB	0.25	5.41	0.7	A	163	245
C-A					356	534
A-B					94	140
A-C					317	476

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	64	16	443	0.145	63	0.0	0.2	9.678	A
C-AB	113	28	805	0.140	112	0.0	0.3	5.239	A
C-A	313	78			313				
A-B	77	19			77				
A-C	260	65			260				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	76	19	416	0.184	76	0.2	0.2	10.812	B
C-AB	153	38	844	0.181	152	0.3	0.4	5.266	A
C-A	356	89			356				
A-B	92	23			92				
A-C	311	78			311				

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	94	23	380	0.247	93	0.2	0.3	12.823	B
C-AB	223	56	899	0.248	222	0.4	0.6	5.388	A
C-A	400	100			400				
A-B	112	28			112				
A-C	381	95			381				

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	94	23	379	0.247	94	0.3	0.3	12.866	B
C-AB	224	56	900	0.249	224	0.6	0.7	5.409	A
C-A	400	100			400				
A-B	112	28			112				
A-C	381	95			381				

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	76	19	416	0.184	77	0.3	0.2	10.861	B
C-AB	153	38	845	0.182	154	0.7	0.4	5.296	A
C-A	355	89			355				
A-B	92	23			92				
A-C	311	78			311				

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	64	16	442	0.145	64	0.2	0.2	9.736	A
C-AB	113	28	806	0.141	114	0.4	0.3	5.268	A
C-A	313	78			313				
A-B	77	19			77				
A-C	260	65			260				

2026 Phase 1 (Without Link), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.16	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.16	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
D14	2026 Phase 1 (Without Link)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	562	100.000
B		ONE HOUR	✓	49	100.000
C		ONE HOUR	✓	443	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	92	470
	B	44	0	5
	C	380	63	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.15	11.35	0.2	B	45	67
C-AB	0.18	5.61	0.4	A	109	164
C-A					297	446
A-B					84	127
A-C					431	647

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	37	9	436	0.085	37	0.0	0.1	8.993	A
C-AB	78	19	735	0.106	77	0.0	0.2	5.508	A
C-A	256	64			256				
A-B	69	17			69				
A-C	354	88			354				

16:30 - 16:45

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	44	11	409	0.108	44	0.1	0.1	9.858	A
C-AB	103	26	761	0.136	103	0.2	0.3	5.526	A
C-A	295	74			295				
A-B	83	21			83				
A-C	423	106			423				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	371	0.145	54	0.1	0.2	11.336	B
C-AB	147	37	797	0.184	146	0.3	0.4	5.593	A
C-A	341	85			341				
A-B	101	25			101				
A-C	517	129			517				

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	54	13	371	0.145	54	0.2	0.2	11.354	B
C-AB	147	37	797	0.184	147	0.4	0.4	5.609	A
C-A	341	85			341				
A-B	101	25			101				
A-C	517	129			517				

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	44	11	409	0.108	44	0.2	0.1	9.881	A
C-AB	104	26	761	0.136	104	0.4	0.3	5.549	A
C-A	295	74			295				
A-B	83	21			83				
A-C	423	106			423				

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	37	9	436	0.085	37	0.1	0.1	9.022	A
C-AB	78	20	736	0.106	78	0.3	0.2	5.530	A
C-A	255	64			255				
A-B	69	17			69				
A-C	354	88			354				

2026 Phase 1 (With Link), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2026 Phase 1 (With Link)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	368	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	517	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	368
	B	0	0	9
	C	517	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	62	4
	B	1	0	13
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	6.62	0.0	A	8	12
C-AB	0.00	0.00	0.0	A	0	0
C-A					474	712
A-B					0	0
A-C					338	507

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	7	2	656	0.010	7	0.0	0.0	6.264	A
C-AB	0	0	565	0.000	0	0.0	0.0	0.000	A
C-A	389	97			389				
A-B	0	0			0				
A-C	277	69			277				

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	8	2	643	0.013	8	0.0	0.0	6.409	A
C-AB	0	0	554	0.000	0	0.0	0.0	0.000	A
C-A	465	116			465				
A-B	0	0			0				
A-C	331	83			331				

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	10	2	624	0.016	10	0.0	0.0	6.621	A
C-AB	0	0	538	0.000	0	0.0	0.0	0.000	A
C-A	569	142			569				
A-B	0	0			0				
A-C	405	101			405				

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	10	2	624	0.016	10	0.0	0.0	6.621	A
C-AB	0	0	538	0.000	0	0.0	0.0	0.000	A
C-A	569	142			569				
A-B	0	0			0				
A-C	405	101			405				

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	8	2	643	0.013	8	0.0	0.0	6.412	A
C-AB	0	0	554	0.000	0	0.0	0.0	0.000	A
C-A	465	116			465				
A-B	0	0			0				
A-C	331	83			331				

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	7	2	656	0.010	7	0.0	0.0	6.264	A
C-AB	0	0	565	0.000	0	0.0	0.0	0.000	A
C-A	389	97			389				
A-B	0	0			0				
A-C	277	69			277				

2026 Phase 1 (With Link), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.22	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.22	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
D16	2026 Phase 1 (With Link)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	469	100.000
B		ONE HOUR	✓	21	100.000
C		ONE HOUR	✓	391	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	469
	B	16	0	5
	C	391	0	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	9.03	0.1	A	19	29
C-AB	0.00	0.00	0.0	A	0	0
C-A					359	538
A-B					0	0
A-C					430	646

Main Results for each time segment

16:15 - 16:30

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	16	4	477	0.033	16	0.0	0.0	7.806	A
C-AB	0	0	549	0.000	0	0.0	0.0	0.000	A
C-A	294	74			294				
A-B	0	0			0				
A-C	353	88			353				

16:30 - 16:45

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	19	5	454	0.042	19	0.0	0.0	8.278	A
C-AB	0	0	535	0.000	0	0.0	0.0	0.000	A
C-A	352	88			352				
A-B	0	0			0				
A-C	422	105			422				

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	23	6	422	0.055	23	0.0	0.1	9.031	A
C-AB	0	0	514	0.000	0	0.0	0.0	0.000	A
C-A	430	108			430				
A-B	0	0			0				
A-C	516	129			516				

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	23	6	422	0.055	23	0.1	0.1	9.033	A
C-AB	0	0	514	0.000	0	0.0	0.0	0.000	A
C-A	430	108			430				
A-B	0	0			0				
A-C	516	129			516				

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	19	5	454	0.042	19	0.1	0.0	8.280	A
C-AB	0	0	535	0.000	0	0.0	0.0	0.000	A
C-A	352	88			352				
A-B	0	0			0				
A-C	422	105			422				

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	16	4	477	0.033	16	0.0	0.0	7.810	A
C-AB	0	0	549	0.000	0	0.0	0.0	0.000	A
C-A	294	74			294				
A-B	0	0			0				
A-C	353	88			353				

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.26	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.26	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	408	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	602	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	6	402
	B	5	0	20
	C	594	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	14	4
	B	1	0	6
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	7.35	0.1	A	23	34
C-AB	0.03	4.26	0.0	A	19	28
C-A					534	801
A-B					6	8
A-C					369	553

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	589	0.032	19	0.0	0.0	6.624	A
C-AB	12	3	867	0.014	12	0.0	0.0	4.254	A
C-A	441	110			441				
A-B	5	1			5				
A-C	303	76			303				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	569	0.039	22	0.0	0.0	6.908	A
C-AB	17	4	918	0.019	17	0.0	0.0	4.039	A
C-A	524	131			524				
A-B	5	1			5				
A-C	361	90			361				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	542	0.051	27	0.0	0.1	7.348	A
C-AB	26	6	991	0.026	26	0.0	0.0	3.777	A
C-A	637	159			637				
A-B	7	2			7				
A-C	443	111			443				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	542	0.051	28	0.1	0.1	7.348	A
C-AB	26	7	991	0.026	26	0.0	0.0	3.783	A
C-A	637	159			637				
A-B	7	2			7				
A-C	443	111			443				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	569	0.039	23	0.1	0.0	6.912	A
C-AB	17	4	918	0.019	17	0.0	0.0	4.046	A
C-A	524	131			524				
A-B	5	1			5				
A-C	361	90			361				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	589	0.032	19	0.0	0.0	6.627	A
C-AB	12	3	867	0.014	13	0.0	0.0	4.258	A
C-A	441	110			441				
A-B	5	1			5				
A-C	303	76			303				

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.41	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.41	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
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	556	100.000
B		ONE HOUR	✓	30	100.000
C		ONE HOUR	✓	457	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	6	550
	B	18	0	12
	C	442	15	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	9.38	0.1	A	28	41
C-AB	0.05	4.85	0.1	A	29	43
C-A					391	586
A-B					6	8
A-C					505	757

Main Results for each time segment

16:15 - 16:30

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	23	6	482	0.047	22	0.0	0.0	7.834	A
C-AB	20	5	769	0.026	20	0.0	0.0	4.846	A
C-A	324	81			324				
A-B	5	1			5				
A-C	414	104			414				

16:30 - 16:45

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	27	7	455	0.059	27	0.0	0.1	8.416	A
C-AB	27	7	801	0.034	27	0.0	0.0	4.692	A
C-A	384	96			384				
A-B	5	1			5				
A-C	494	124			494				

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	33	8	417	0.079	33	0.1	0.1	9.379	A
C-AB	39	10	847	0.046	39	0.0	0.1	4.501	A
C-A	464	116			464				
A-B	7	2			7				
A-C	606	151			606				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	33	8	417	0.079	33	0.1	0.1	9.383	A
C-AB	39	10	847	0.046	39	0.1	0.1	4.506	A
C-A	464	116			464				
A-B	7	2			7				
A-C	606	151			606				

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	27	7	455	0.059	27	0.1	0.1	8.423	A
C-AB	27	7	801	0.034	27	0.1	0.0	4.703	A
C-A	384	96			384				
A-B	5	1			5				
A-C	494	124			494				

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	23	6	482	0.047	23	0.1	0.0	7.844	A
C-AB	20	5	769	0.026	20	0.0	0.0	4.853	A
C-A	324	81			324				
A-B	5	1			5				
A-C	414	104			414				

Appendix J-14

Junctions 10 Output – A635 / Redbrook Road Junction

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: A635 - Church Street.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\A635 - Church Street - Silkstone Lane Junctions
Report generation date: 09/11/2023 15:25:28

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a, PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment , AM
»2026 Employment , PM
»2026 Phase 1 (Without Link Road), AM
»2026 Phase 1 (Without Link Road), PM
»2026 Phase 1 (With Link Road), AM
»2026 Phase 1 (With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	0.1	6.85	0.07	0.1	6.16	0.06
Stream C-AB	0.1	5.74	0.07	0.4	5.15	0.16
	2026 Do Minimum					
Stream B-AC	0.1	6.89	0.07	0.1	6.17	0.06
Stream C-AB	0.2	5.70	0.08	0.4	5.14	0.16
	2033 Do Minimum					
Stream B-AC	0.1	7.00	0.07	0.1	6.30	0.06
Stream C-AB	0.2	5.68	0.09	0.4	5.12	0.18
	2026 Residential Phase 1a					
Stream B-AC	0.1	6.90	0.07	0.1	6.18	0.06
Stream C-AB	0.2	5.69	0.08	0.4	5.14	0.16
	2033 Full Residential					
Stream B-AC	0.1	6.97	0.07	0.1	6.31	0.07
Stream C-AB	0.2	5.61	0.09	0.5	5.11	0.19
	2026 Employment					
Stream B-AC	0.1	6.94	0.07	0.1	6.25	0.06
Stream C-AB	0.2	5.75	0.08	0.4	5.15	0.17
	2026 Phase 1 (Without Link Road)					
Stream B-AC	0.1	6.95	0.07	0.1	6.26	0.06
Stream C-AB	0.2	5.69	0.08	0.4	5.15	0.17
	2026 Phase 1 (With Link Road)					
Stream B-AC	0.1	6.95	0.07	0.1	6.26	0.06
Stream C-AB	0.2	5.69	0.08	0.4	5.15	0.17
	2033 Full Development					
Stream B-AC	0.1	7.09	0.08	0.1	6.39	0.07
Stream C-AB	0.2	5.64	0.10	0.5	5.13	0.19

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	A635/Church Street
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2022 Base	PM	ONE HOUR	16:30	18:00	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:30	18:00	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:30	18:00	15	✓
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓
D12	2026 Employment	PM	ONE HOUR	16:30	18:00	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:30	18:00	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:30	18:00	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:30	18:00	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.67	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.67	A

Arms

Arms

Arm	Name	Description	Arm type
A	A635/Lane Head Road West		Major
B	Church Street		Minor
C	A635/Lane Head Road East		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.35			95.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.50	50	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	625	0.109	0.275	0.173	0.393
B-C	790	0.112	0.283	-	-
C-B	629	0.229	0.229	-	-

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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	424	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	303	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	424
	B	5	0	32
	C	274	29	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.85	0.1	A	34	51
C-AB	0.07	5.74	0.1	A	42	63
C-A					236	354
A-B					0	0
A-C					389	584

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	662	0.042	28	0.0	0.0	6.191	A
C-AB	31	8	698	0.044	31	0.0	0.1	5.736	A
C-A	197	49			197				
A-B	0	0			0				
A-C	319	80			319				

07:30 - 07:45

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	33	8	642	0.052	33	0.0	0.1	6.451	A
C-AB	40	10	714	0.056	40	0.1	0.1	5.682	A
C-A	232	58			232				
A-B	0	0			0				
A-C	381	95			381				

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	41	10	614	0.066	41	0.1	0.1	6.849	A
C-AB	54	14	736	0.074	54	0.1	0.1	5.610	A
C-A	279	70			279				
A-B	0	0			0				
A-C	467	117			467				

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	41	10	614	0.066	41	0.1	0.1	6.849	A
C-AB	54	14	736	0.074	54	0.1	0.1	5.607	A
C-A	279	70			279				
A-B	0	0			0				
A-C	467	117			467				

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	33	8	642	0.052	33	0.1	0.1	6.453	A
C-AB	40	10	714	0.056	40	0.1	0.1	5.678	A
C-A	232	58			232				
A-B	0	0			0				
A-C	381	95			381				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	662	0.042	28	0.1	0.0	6.197	A
C-AB	31	8	698	0.045	31	0.1	0.1	5.738	A
C-A	197	49			197				
A-B	0	0			0				
A-C	319	80			319				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	286	100.000
B		ONE HOUR	✓	33	100.000
C		ONE HOUR	✓	485	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	286
	B	5	0	28
	C	426	59	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.16	0.1	A	30	45
C-AB	0.16	5.15	0.4	A	104	157
C-A					341	511
A-B					0	0
A-C					262	394

Main Results for each time segment

16:30 - 16:45

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	25	6	680	0.037	25	0.0	0.0	5.680	A
C-AB	74	19	797	0.093	74	0.0	0.2	5.143	A
C-A	291	73			291				
A-B	0	0			0				
A-C	215	54			215				

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	30	7	663	0.045	30	0.0	0.0	5.872	A
C-AB	99	25	832	0.119	98	0.2	0.3	5.070	A
C-A	337	84			337				
A-B	0	0			0				
A-C	257	64			257				

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	36	9	640	0.057	36	0.0	0.1	6.162	A
C-AB	140	35	881	0.158	139	0.3	0.4	5.003	A
C-A	394	99			394				
A-B	0	0			0				
A-C	315	79			315				

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	36	9	640	0.057	36	0.1	0.1	6.162	A
C-AB	140	35	881	0.159	140	0.4	0.4	5.001	A
C-A	394	99			394				
A-B	0	0			0				
A-C	315	79			315				

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	30	7	663	0.045	30	0.1	0.0	5.874	A
C-AB	99	25	832	0.119	99	0.4	0.3	5.066	A
C-A	337	84			337				
A-B	0	0			0				
A-C	257	64			257				

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	25	6	680	0.037	25	0.0	0.0	5.684	A
C-AB	75	19	797	0.094	75	0.3	0.2	5.150	A
C-A	290	73			290				
A-B	0	0			0				
A-C	215	54			215				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	433	100.000
B		ONE HOUR	✓	38	100.000
C		ONE HOUR	✓	323	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	433
	B	5	0	33
	C	292	31	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.89	0.1	A	35	52
C-AB	0.08	5.70	0.2	A	46	69
C-A					250	376
A-B					0	0
A-C					397	596

Main Results for each time segment

07:15 - 07:30

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	29	7	660	0.043	28	0.0	0.0	6.212	A
C-AB	34	8	706	0.048	34	0.0	0.1	5.691	A
C-A	209	52			209				
A-B	0	0			0				
A-C	326	81			326				

07:30 - 07:45

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	34	9	640	0.053	34	0.0	0.1	6.481	A
C-AB	44	11	724	0.061	44	0.1	0.1	5.630	A
C-A	247	62			247				
A-B	0	0			0				
A-C	389	97			389				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	10	611	0.068	42	0.1	0.1	6.894	A
C-AB	60	15	748	0.080	60	0.1	0.2	5.553	A
C-A	296	74			296				
A-B	0	0			0				
A-C	477	119			477				

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	42	10	611	0.068	42	0.1	0.1	6.894	A
C-AB	60	15	749	0.080	60	0.2	0.2	5.553	A
C-A	296	74			296				
A-B	0	0			0				
A-C	477	119			477				

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	34	9	640	0.053	34	0.1	0.1	6.483	A
C-AB	44	11	724	0.061	44	0.2	0.1	5.628	A
C-A	246	62			246				
A-B	0	0			0				
A-C	389	97			389				

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	29	7	660	0.043	29	0.1	0.0	6.218	A
C-AB	34	9	706	0.048	34	0.1	0.1	5.696	A
C-A	209	52			209				
A-B	0	0			0				
A-C	326	81			326				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2026 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	304	100.000
B		ONE HOUR	✓	35	100.000
C		ONE HOUR	✓	498	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	304
	B	5	0	30
	C	438	60	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	3
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.17	0.1	A	32	48
C-AB	0.16	5.14	0.4	A	108	163
C-A					349	523
A-B					0	0
A-C					279	418

Main Results for each time segment

16:30 - 16:45

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	26	7	678	0.039	26	0.0	0.0	5.664	A
C-AB	77	19	801	0.096	76	0.0	0.2	5.131	A
C-A	298	75			298				
A-B	0	0			0				
A-C	229	57			229				

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	31	8	661	0.048	31	0.0	0.1	5.866	A
C-AB	102	26	836	0.122	102	0.2	0.3	5.064	A
C-A	345	86			345				
A-B	0	0			0				
A-C	273	68			273				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	10	637	0.061	38	0.1	0.1	6.171	A
C-AB	146	36	887	0.164	145	0.3	0.4	5.002	A
C-A	403	101			403				
A-B	0	0			0				
A-C	335	84			335				

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	39	10	637	0.061	39	0.1	0.1	6.172	A
C-AB	146	36	887	0.164	146	0.4	0.4	5.000	A
C-A	403	101			403				
A-B	0	0			0				
A-C	335	84			335				

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	31	8	661	0.048	32	0.1	0.1	5.867	A
C-AB	103	26	837	0.123	103	0.4	0.3	5.057	A
C-A	345	86			345				
A-B	0	0			0				
A-C	273	68			273				

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	26	7	678	0.039	26	0.1	0.0	5.670	A
C-AB	77	19	801	0.096	78	0.3	0.2	5.141	A
C-A	298	74			298				
A-B	0	0			0				
A-C	229	57			229				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.71	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	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	458	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	341	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	458
	B	5	0	35
	C	308	33	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	7.00	0.1	A	37	55
C-AB	0.09	5.68	0.2	A	50	76
C-A					263	394
A-B					0	0
A-C					420	630

Main Results for each time segment

07:15 - 07:30

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	30	8	656	0.046	30	0.0	0.1	6.263	A
C-AB	37	9	711	0.052	37	0.0	0.1	5.676	A
C-A	220	55			220				
A-B	0	0			0				
A-C	345	86			345				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.1	0.1	6.552	A
C-AB	48	12	729	0.066	48	0.1	0.1	5.618	A
C-A	259	65			259				
A-B	0	0			0				
A-C	412	103			412				

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	44	11	604	0.073	44	0.1	0.1	7.000	A
C-AB	66	17	756	0.088	66	0.1	0.2	5.541	A
C-A	309	77			309				
A-B	0	0			0				
A-C	504	126			504				

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	44	11	604	0.073	44	0.1	0.1	7.000	A
C-AB	66	17	756	0.088	66	0.2	0.2	5.543	A
C-A	309	77			309				
A-B	0	0			0				
A-C	504	126			504				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.1	0.1	6.557	A
C-AB	48	12	729	0.066	48	0.2	0.1	5.614	A
C-A	258	65			258				
A-B	0	0			0				
A-C	412	103			412				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	8	656	0.046	30	0.1	0.1	6.267	A
C-AB	37	9	711	0.052	37	0.1	0.1	5.681	A
C-A	220	55			220				
A-B	0	0			0				
A-C	345	86			345				

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.02	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.02	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	322	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	528	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	322
	B	5	0	32
	C	464	64	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.30	0.1	A	34	51
C-AB	0.18	5.12	0.4	A	121	181
C-A					364	546
A-B					0	0
A-C					295	443

Main Results for each time segment

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	675	0.041	28	0.0	0.0	5.750	A
C-AB	85	21	811	0.104	84	0.0	0.2	5.107	A
C-A	313	78			313				
A-B	0	0			0				
A-C	242	61			242				

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	33	8	657	0.051	33	0.0	0.1	5.968	A
C-AB	114	28	850	0.134	113	0.2	0.3	5.047	A
C-A	361	90			361				
A-B	0	0			0				
A-C	289	72			289				

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	41	10	632	0.064	41	0.1	0.1	6.300	A
C-AB	163	41	903	0.180	162	0.3	0.4	5.003	A
C-A	418	105			418				
A-B	0	0			0				
A-C	355	89			355				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	41	10	632	0.065	41	0.1	0.1	6.301	A
C-AB	163	41	904	0.181	163	0.4	0.4	5.003	A
C-A	418	105			418				
A-B	0	0			0				
A-C	355	89			355				

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	33	8	657	0.051	33	0.1	0.1	5.969	A
C-AB	114	28	850	0.134	114	0.4	0.3	5.043	A
C-A	361	90			361				
A-B	0	0			0				
A-C	289	72			289				

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	28	7	675	0.041	28	0.1	0.0	5.756	A
C-AB	85	21	812	0.105	85	0.3	0.2	5.117	A
C-A	312	78			312				
A-B	0	0			0				
A-C	242	61			242				

2026 Residential Phase 1a, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	433	100.000
B		ONE HOUR	✓	38	100.000
C		ONE HOUR	✓	325	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	433
	B	5	0	33
	C	294	31	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.90	0.1	A	35	52
C-AB	0.08	5.69	0.2	A	46	69
C-A					252	378
A-B					0	0
A-C					397	596

Main Results for each time segment

07:15 - 07:30

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	29	7	660	0.043	28	0.0	0.0	6.212	A
C-AB	34	8	707	0.048	34	0.0	0.1	5.683	A
C-A	211	53			211				
A-B	0	0			0				
A-C	326	81			326				

07:30 - 07:45

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	34	9	640	0.053	34	0.0	0.1	6.482	A
C-AB	44	11	725	0.061	44	0.1	0.1	5.621	A
C-A	248	62			248				
A-B	0	0			0				
A-C	389	97			389				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	10	611	0.068	42	0.1	0.1	6.895	A
C-AB	60	15	750	0.080	60	0.1	0.2	5.542	A
C-A	298	74			298				
A-B	0	0			0				
A-C	477	119			477				

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	42	10	611	0.068	42	0.1	0.1	6.895	A
C-AB	60	15	750	0.080	60	0.2	0.2	5.544	A
C-A	297	74			297				
A-B	0	0			0				
A-C	477	119			477				

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	34	9	640	0.053	34	0.1	0.1	6.486	A
C-AB	44	11	725	0.061	44	0.2	0.1	5.621	A
C-A	248	62			248				
A-B	0	0			0				
A-C	389	97			389				

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	29	7	660	0.043	29	0.1	0.0	6.219	A
C-AB	34	9	708	0.048	34	0.1	0.1	5.685	A
C-A	211	53			211				
A-B	0	0			0				
A-C	326	81			326				

2026 Residential Phase 1a, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	307	100.000
B		ONE HOUR	✓	35	100.000
C		ONE HOUR	✓	500	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	307
	B	5	0	30
	C	440	60	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	3
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.18	0.1	A	32	48
C-AB	0.16	5.14	0.4	A	109	163
C-A					350	525
A-B					0	0
A-C					282	423

Main Results for each time segment

16:30 - 16:45

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	26	7	677	0.039	26	0.0	0.0	5.670	A
C-AB	77	19	801	0.096	76	0.0	0.2	5.128	A
C-A	299	75			299				
A-B	0	0			0				
A-C	231	58			231				

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	31	8	660	0.048	31	0.0	0.1	5.874	A
C-AB	103	26	837	0.123	102	0.2	0.3	5.061	A
C-A	347	87			347				
A-B	0	0			0				
A-C	276	69			276				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	10	636	0.061	38	0.1	0.1	6.183	A
C-AB	146	37	888	0.165	146	0.3	0.4	5.000	A
C-A	404	101			404				
A-B	0	0			0				
A-C	338	85			338				

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	39	10	636	0.061	39	0.1	0.1	6.183	A
C-AB	146	37	888	0.165	146	0.4	0.4	4.999	A
C-A	404	101			404				
A-B	0	0			0				
A-C	338	85			338				

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	31	8	660	0.048	32	0.1	0.1	5.878	A
C-AB	103	26	838	0.123	103	0.4	0.3	5.054	A
C-A	347	87			347				
A-B	0	0			0				
A-C	276	69			276				

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	26	7	677	0.039	26	0.1	0.0	5.676	A
C-AB	77	19	802	0.097	78	0.3	0.2	5.138	A
C-A	299	75			299				
A-B	0	0			0				
A-C	231	58			231				

2033 Full Residential, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.71	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	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	463	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	359	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	463
	B	5	0	35
	C	324	35	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	6
	C	5	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	0.07	6.97	0.1	A	37	55
C-AB	0.09	5.61	0.2	A	55	82
C-A					275	412
A-B					0	0
A-C					425	637

Main Results for each time segment

07:15 - 07:30

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	30	8	654	0.046	30	0.0	0.1	6.228	A
C-AB	40	10	719	0.056	40	0.0	0.1	5.601	A
C-A	230	58			230				
A-B	0	0			0				
A-C	349	87			349				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	632	0.057	36	0.1	0.1	6.521	A
C-AB	52	13	739	0.071	52	0.1	0.1	5.542	A
C-A	271	68			271				
A-B	0	0			0				
A-C	416	104			416				

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	44	11	602	0.073	44	0.1	0.1	6.975	A
C-AB	72	18	767	0.094	72	0.1	0.2	5.467	A
C-A	323	81			323				
A-B	0	0			0				
A-C	510	127			510				

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	44	11	602	0.073	44	0.1	0.1	6.975	A
C-AB	72	18	768	0.094	72	0.2	0.2	5.472	A
C-A	323	81			323				
A-B	0	0			0				
A-C	510	127			510				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	632	0.057	36	0.1	0.1	6.525	A
C-AB	52	13	739	0.071	53	0.2	0.1	5.542	A
C-A	270	68			270				
A-B	0	0			0				
A-C	416	104			416				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	8	654	0.046	30	0.1	0.1	6.231	A
C-AB	40	10	719	0.056	40	0.1	0.1	5.607	A
C-A	230	58			230				
A-B	0	0			0				
A-C	349	87			349				

2033 Full Residential, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.03	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.03	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2033 Full Residential	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	338	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	539	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	338
	B	5	0	35
	C	474	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	3
	C	1	5	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	0.07	6.31	0.1	A	37	55
C-AB	0.19	5.11	0.5	A	125	187
C-A					370	555
A-B					0	0
A-C					310	465

Main Results for each time segment

16:30 - 16:45

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	30	8	675	0.045	30	0.0	0.0	5.729	A
C-AB	87	22	814	0.107	86	0.0	0.2	5.102	A
C-A	319	80			319				
A-B	0	0			0				
A-C	254	64			254				

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	36	9	656	0.055	36	0.0	0.1	5.957	A
C-AB	117	29	853	0.137	117	0.2	0.3	5.046	A
C-A	367	92			367				
A-B	0	0			0				
A-C	304	76			304				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	630	0.070	44	0.1	0.1	6.305	A
C-AB	169	42	908	0.186	169	0.3	0.5	5.010	A
C-A	424	106			424				
A-B	0	0			0				
A-C	372	93			372				

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	44	11	630	0.070	44	0.1	0.1	6.306	A
C-AB	169	42	909	0.187	169	0.5	0.5	5.011	A
C-A	424	106			424				
A-B	0	0			0				
A-C	372	93			372				

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	36	9	656	0.055	36	0.1	0.1	5.961	A
C-AB	118	29	854	0.138	118	0.5	0.3	5.042	A
C-A	367	92			367				
A-B	0	0			0				
A-C	304	76			304				

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	30	8	674	0.045	30	0.1	0.0	5.733	A
C-AB	88	22	815	0.108	88	0.3	0.2	5.113	A
C-A	318	80			318				
A-B	0	0			0				
A-C	254	64			254				

2026 Employment , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.71	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
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	445	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	330	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	445
	B	5	0	35
	C	298	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	6	8	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	0.07	6.94	0.1	A	37	55
C-AB	0.08	5.75	0.2	A	48	72
C-A					255	382
A-B					0	0
A-C					408	613

Main Results for each time segment

07:15 - 07:30

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	30	8	659	0.046	30	0.0	0.1	6.231	A
C-AB	35	9	708	0.050	35	0.0	0.1	5.745	A
C-A	213	53			213				
A-B	0	0			0				
A-C	335	84			335				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.511	A
C-AB	46	11	725	0.063	46	0.1	0.1	5.687	A
C-A	251	63			251				
A-B	0	0			0				
A-C	400	100			400				

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	44	11	609	0.072	44	0.1	0.1	6.941	A
C-AB	63	16	751	0.084	63	0.1	0.2	5.609	A
C-A	301	75			301				
A-B	0	0			0				
A-C	490	122			490				

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	44	11	609	0.072	44	0.1	0.1	6.941	A
C-AB	63	16	751	0.084	63	0.2	0.2	5.612	A
C-A	300	75			300				
A-B	0	0			0				
A-C	490	122			490				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.513	A
C-AB	46	11	725	0.063	46	0.2	0.1	5.683	A
C-A	251	63			251				
A-B	0	0			0				
A-C	400	100			400				

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	30	8	659	0.046	30	0.1	0.1	6.237	A
C-AB	35	9	708	0.050	36	0.1	0.1	5.750	A
C-A	213	53			213				
A-B	0	0			0				
A-C	335	84			335				

2026 Employment , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D12	2026 Employment	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	309	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	511	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	309
	B	5	0	31
	C	449	62	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.25	0.1	A	33	50
C-AB	0.17	5.15	0.4	A	114	171
C-A					355	532
A-B					0	0
A-C					284	425

Main Results for each time segment

16:30 - 16:45

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	27	7	677	0.040	27	0.0	0.0	5.722	A
C-AB	80	20	806	0.100	80	0.0	0.2	5.142	A
C-A	304	76			304				
A-B	0	0			0				
A-C	233	58			233				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	660	0.049	32	0.0	0.1	5.930	A
C-AB	107	27	842	0.128	107	0.2	0.3	5.080	A
C-A	352	88			352				
A-B	0	0			0				
A-C	278	69			278				

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	40	10	636	0.062	40	0.1	0.1	6.246	A
C-AB	153	38	894	0.172	153	0.3	0.4	5.030	A
C-A	409	102			409				
A-B	0	0			0				
A-C	340	85			340				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	40	10	636	0.062	40	0.1	0.1	6.247	A
C-AB	154	38	895	0.172	154	0.4	0.4	5.031	A
C-A	409	102			409				
A-B	0	0			0				
A-C	340	85			340				

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	32	8	660	0.049	32	0.1	0.1	5.934	A
C-AB	108	27	843	0.128	108	0.4	0.3	5.077	A
C-A	352	88			352				
A-B	0	0			0				
A-C	278	69			278				

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	27	7	677	0.040	27	0.1	0.0	5.725	A
C-AB	81	20	806	0.100	81	0.3	0.2	5.152	A
C-A	304	76			304				
A-B	0	0			0				
A-C	233	58			233				

2026 Phase 1 (Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.70	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.70	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
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	446	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	332	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	446
	B	5	0	35
	C	300	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.95	0.1	A	37	55
C-AB	0.08	5.69	0.2	A	48	72
C-A					256	385
A-B					0	0
A-C					409	614

Main Results for each time segment

07:15 - 07:30

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	30	8	659	0.046	30	0.0	0.1	6.234	A
C-AB	35	9	709	0.050	35	0.0	0.1	5.684	A
C-A	215	54			215				
A-B	0	0			0				
A-C	336	84			336				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.514	A
C-AB	46	11	726	0.063	46	0.1	0.1	5.623	A
C-A	253	63			253				
A-B	0	0			0				
A-C	401	100			401				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.1	0.2	5.550	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.2	0.2	5.548	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.519	A
C-AB	46	11	726	0.063	46	0.2	0.1	5.624	A
C-A	252	63			252				
A-B	0	0			0				
A-C	401	100			401				

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	30	8	659	0.046	30	0.1	0.1	6.238	A
C-AB	35	9	709	0.050	36	0.1	0.1	5.689	A
C-A	214	54			214				
A-B	0	0			0				
A-C	336	84			336				

2026 Phase 1 (Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	312	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	312
	B	5	0	31
	C	450	62	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.26	0.1	A	33	50
C-AB	0.17	5.15	0.4	A	114	171
C-A					356	533
A-B					0	0
A-C					286	429

Main Results for each time segment

16:30 - 16:45

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	27	7	677	0.040	27	0.0	0.0	5.728	A
C-AB	81	20	806	0.100	80	0.0	0.2	5.142	A
C-A	305	76			305				
A-B	0	0			0				
A-C	235	59			235				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	659	0.049	32	0.0	0.1	5.938	A
C-AB	108	27	843	0.128	107	0.2	0.3	5.080	A
C-A	353	88			353				
A-B	0	0			0				
A-C	280	70			280				

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	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	38	895	0.172	153	0.3	0.4	5.029	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	39	895	0.172	154	0.4	0.4	5.030	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

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	32	8	659	0.049	32	0.1	0.1	5.942	A
C-AB	108	27	843	0.128	109	0.4	0.3	5.077	A
C-A	352	88			352				
A-B	0	0			0				
A-C	280	70			280				

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	27	7	677	0.040	27	0.1	0.0	5.734	A
C-AB	81	20	806	0.100	81	0.3	0.2	5.154	A
C-A	304	76			304				
A-B	0	0			0				
A-C	235	59			235				

2026 Phase 1 (With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.70	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.70	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
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	446	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	332	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	446
	B	5	0	35
	C	300	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.95	0.1	A	37	55
C-AB	0.08	5.69	0.2	A	48	72
C-A					256	385
A-B					0	0
A-C					409	614

Main Results for each time segment

07:15 - 07:30

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	30	8	659	0.046	30	0.0	0.1	6.234	A
C-AB	35	9	709	0.050	35	0.0	0.1	5.684	A
C-A	215	54			215				
A-B	0	0			0				
A-C	336	84			336				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.514	A
C-AB	46	11	726	0.063	46	0.1	0.1	5.623	A
C-A	253	63			253				
A-B	0	0			0				
A-C	401	100			401				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.1	0.2	5.550	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.2	0.2	5.548	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.519	A
C-AB	46	11	726	0.063	46	0.2	0.1	5.624	A
C-A	252	63			252				
A-B	0	0			0				
A-C	401	100			401				

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	30	8	659	0.046	30	0.1	0.1	6.238	A
C-AB	35	9	709	0.050	36	0.1	0.1	5.689	A
C-A	214	54			214				
A-B	0	0			0				
A-C	336	84			336				

2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	312	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	312
	B	5	0	31
	C	450	62	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.26	0.1	A	33	50
C-AB	0.17	5.15	0.4	A	114	171
C-A					356	533
A-B					0	0
A-C					286	429

Main Results for each time segment

16:30 - 16:45

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	27	7	677	0.040	27	0.0	0.0	5.728	A
C-AB	81	20	806	0.100	80	0.0	0.2	5.142	A
C-A	305	76			305				
A-B	0	0			0				
A-C	235	59			235				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	659	0.049	32	0.0	0.1	5.938	A
C-AB	108	27	843	0.128	107	0.2	0.3	5.080	A
C-A	353	88			353				
A-B	0	0			0				
A-C	280	70			280				

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	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	38	895	0.172	153	0.3	0.4	5.029	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	39	895	0.172	154	0.4	0.4	5.030	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

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	32	8	659	0.049	32	0.1	0.1	5.942	A
C-AB	108	27	843	0.128	109	0.4	0.3	5.077	A
C-A	352	88			352				
A-B	0	0			0				
A-C	280	70			280				

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	27	7	677	0.040	27	0.1	0.0	5.734	A
C-AB	81	20	806	0.100	81	0.3	0.2	5.154	A
C-A	304	76			304				
A-B	0	0			0				
A-C	235	59			235				

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.74	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.74	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
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	476	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	366	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	476
	B	5	0	38
	C	330	36	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	7.09	0.1	A	39	59
C-AB	0.10	5.64	0.2	A	57	86
C-A					279	418
A-B					0	0
A-C					437	655

Main Results for each time segment

07:15 - 07:30

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	32	8	654	0.050	32	0.0	0.1	6.301	A
C-AB	41	10	720	0.058	41	0.0	0.1	5.638	A
C-A	234	59			234				
A-B	0	0			0				
A-C	358	90			358				

07:30 - 07:45

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	39	10	631	0.061	39	0.1	0.1	6.609	A
C-AB	54	14	740	0.073	54	0.1	0.1	5.578	A
C-A	275	69			275				
A-B	0	0			0				
A-C	428	107			428				

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	47	12	600	0.079	47	0.1	0.1	7.088	A
C-AB	75	19	770	0.098	75	0.1	0.2	5.503	A
C-A	328	82			328				
A-B	0	0			0				
A-C	524	131			524				

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	47	12	600	0.079	47	0.1	0.1	7.088	A
C-AB	76	19	770	0.098	76	0.2	0.2	5.506	A
C-A	327	82			327				
A-B	0	0			0				
A-C	524	131			524				

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	39	10	631	0.061	39	0.1	0.1	6.613	A
C-AB	54	14	740	0.073	55	0.2	0.1	5.577	A
C-A	275	69			275				
A-B	0	0			0				
A-C	428	107			428				

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	32	8	654	0.050	32	0.1	0.1	6.307	A
C-AB	42	10	720	0.058	42	0.1	0.1	5.644	A
C-A	234	58			234				
A-B	0	0			0				
A-C	358	90			358				

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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
D18	2033 Full Development	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	343	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	551	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	343
	B	5	0	35
	C	484	67	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	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	0.07	6.39	0.1	A	37	55
C-AB	0.19	5.13	0.5	A	131	196
C-A					375	562
A-B					0	0
A-C					315	472

Main Results for each time segment

16:30 - 16:45

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	30	8	673	0.045	30	0.0	0.0	5.792	A
C-AB	91	23	819	0.111	90	0.0	0.2	5.119	A
C-A	324	81			324				
A-B	0	0			0				
A-C	258	65			258				

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	36	9	654	0.055	36	0.0	0.1	6.026	A
C-AB	123	31	859	0.143	122	0.2	0.3	5.067	A
C-A	373	93			373				
A-B	0	0			0				
A-C	308	77			308				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	627	0.070	44	0.1	0.1	6.386	A
C-AB	178	44	915	0.194	177	0.3	0.5	5.050	A
C-A	429	107			429				
A-B	0	0			0				
A-C	378	94			378				

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	44	11	627	0.070	44	0.1	0.1	6.386	A
C-AB	178	44	915	0.194	178	0.5	0.5	5.051	A
C-A	429	107			429				
A-B	0	0			0				
A-C	378	94			378				

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	36	9	654	0.055	36	0.1	0.1	6.028	A
C-AB	123	31	859	0.143	124	0.5	0.3	5.070	A
C-A	372	93			372				
A-B	0	0			0				
A-C	308	77			308				

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	30	8	673	0.045	30	0.1	0.0	5.796	A
C-AB	91	23	819	0.112	92	0.3	0.2	5.130	A
C-A	323	81			323				
A-B	0	0			0				
A-C	258	65			258				

Appendix J-15

Junctions 10 Output – Redbrook Road / Intake Lane Junction

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: Redbrook Road- Intake Lane Junction.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Redbrook Road - Intake Lane Junction
Report generation date: 09/11/2023 14:22:25

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a, PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment, AM
»2026 Employment, PM
»2026 Phase 1 (Without Link Road), AM
»2026 Phase 1 (Without Link Road), PM
»2026 Phase 1 (With Link Road), AM
»2026 Phase 1 (With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	0.9	12.24	0.46	0.7	11.55	0.41
Stream C-AB	0.8	6.61	0.33	0.7	7.56	0.33
	2026 Do Minimum					
Stream B-AC	0.9	12.70	0.48	0.8	12.02	0.44
Stream C-AB	1.0	7.07	0.38	0.8	7.75	0.35
	2033 Do Minimum					
Stream B-AC	1.1	13.82	0.51	0.9	12.99	0.47
Stream C-AB	1.2	7.30	0.41	0.9	8.02	0.38
	2026 Residential Phase 1a					
Stream B-AC	0.9	12.86	0.48	0.8	12.39	0.46
Stream C-AB	1.1	7.32	0.40	0.8	7.91	0.36
	2033 Full Residential					
Stream B-AC	1.0	12.94	0.51	0.4	8.32	0.26
Stream C-AB	1.3	8.05	0.46	0.9	7.57	0.38
	2026 Employment					
Stream B-AC	0.9	13.00	0.48	0.8	12.18	0.44
Stream C-AB	1.1	7.15	0.39	0.8	7.72	0.36
	2026 Phase 1 (Without Link Road)					
Stream B-AC	1.0	13.18	0.49	0.9	12.55	0.46
Stream C-AB	1.2	7.41	0.41	0.9	7.88	0.37
	2026 Phase 1 (With Link Road)					
Stream B-AC	0.8	11.48	0.45	0.2	7.51	0.18
Stream C-AB	0.9	7.21	0.37	0.7	6.93	0.32
	2033 Full Development					
Stream B-AC	1.1	13.25	0.51	0.4	8.39	0.26
Stream C-AB	1.3	8.14	0.46	0.9	7.57	0.39

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	Redbrook Road/Intake Lane Junction
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:15	17:45	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:15	17:45	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.19	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.19	A

Arms

Arms

Arm	Name	Description	Arm type
A	Redbrook Road East		Major
B	Intake Lane		Minor
C	Redbrook Road West		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	9.20			75.6	✓	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	3.73	53	73

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	570	0.090	0.226	0.142	0.323
B-C	719	0.095	0.239	-	-
C-B	618	0.206	0.206	-	-

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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	301	100.000
B		ONE HOUR	✓	232	100.000
C		ONE HOUR	✓	507	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	50	251
	B	61	0	171
	C	380	127	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	4
	B	2	0	2
	C	2	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.46	12.24	0.9	B	213	319
C-AB	0.33	6.61	0.8	A	211	317
C-A					254	381
A-B					46	69
A-C					230	345

Main Results for each time segment

07:15 - 07:30

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	175	44	595	0.294	173	0.0	0.4	8.682	A
C-AB	153	38	766	0.199	151	0.0	0.4	5.999	A
C-A	229	57			229				
A-B	38	9			38				
A-C	189	47			189				

07:30 - 07:45

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	209	52	578	0.361	208	0.4	0.6	9.897	A
C-AB	201	50	797	0.252	200	0.4	0.5	6.191	A
C-A	255	64			255				
A-B	45	11			45				
A-C	226	56			226				

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	255	64	555	0.460	254	0.6	0.8	12.148	B
C-AB	280	70	841	0.333	279	0.5	0.8	6.581	A
C-A	278	70			278				
A-B	55	14			55				
A-C	276	69			276				

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	255	64	555	0.460	255	0.8	0.9	12.241	B
C-AB	280	70	841	0.333	280	0.8	0.8	6.607	A
C-A	278	69			278				
A-B	55	14			55				
A-C	276	69			276				

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	209	52	578	0.361	210	0.9	0.6	9.994	A
C-AB	201	50	798	0.252	202	0.8	0.5	6.223	A
C-A	255	64			255				
A-B	45	11			45				
A-C	226	56			226				

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	175	44	594	0.294	175	0.6	0.4	8.775	A
C-AB	153	38	767	0.200	154	0.5	0.4	6.041	A
C-A	228	57			228				
A-B	38	9			38				
A-C	189	47			189				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.96	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.96	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	390	100.000
B		ONE HOUR	✓	204	100.000
C		ONE HOUR	✓	384	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	361
	B	49	0	155
	C	251	133	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.41	11.55	0.7	B	187	281
C-AB	0.33	7.56	0.7	A	184	276
C-A					168	252
A-B					27	40
A-C					331	497

Main Results for each time segment

16:15 - 16:30

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	38	587	0.262	152	0.0	0.4	8.435	A
C-AB	138	35	688	0.201	137	0.0	0.3	6.656	A
C-A	151	38			151				
A-B	22	5			22				
A-C	272	68			272				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	46	569	0.322	183	0.4	0.5	9.523	A
C-AB	177	44	703	0.251	176	0.3	0.5	6.974	A
C-A	169	42			169				
A-B	26	7			26				
A-C	325	81			325				

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	225	56	543	0.413	224	0.5	0.7	11.481	B
C-AB	238	59	725	0.328	237	0.5	0.7	7.532	A
C-A	185	46			185				
A-B	32	8			32				
A-C	397	99			397				

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	225	56	543	0.413	225	0.7	0.7	11.548	B
C-AB	238	59	725	0.328	238	0.7	0.7	7.561	A
C-A	185	46			185				
A-B	32	8			32				
A-C	397	99			397				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	46	569	0.322	184	0.7	0.5	9.596	A
C-AB	177	44	704	0.252	178	0.7	0.5	7.009	A
C-A	168	42			168				
A-B	26	7			26				
A-C	325	81			325				

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	38	587	0.262	154	0.5	0.4	8.516	A
C-AB	139	35	688	0.201	139	0.5	0.3	6.701	A
C-A	151	38			151				
A-B	22	5			22				
A-C	272	68			272				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.55	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.55	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 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	306	100.000
B		ONE HOUR	✓	239	100.000
C		ONE HOUR	✓	535	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	50	256
	B	61	0	178
	C	391	144	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	4
	B	2	0	2
	C	2	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.48	12.70	0.9	B	219	329
C-AB	0.38	7.07	1.0	A	244	366
C-A					247	371
A-B					46	69
A-C					235	352

Main Results for each time segment

07:15 - 07:30

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	180	45	593	0.303	178	0.0	0.4	8.809	A
C-AB	175	44	771	0.227	174	0.0	0.4	6.172	A
C-A	227	57			227				
A-B	38	9			38				
A-C	193	48			193				

07:30 - 07:45

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	215	54	576	0.373	214	0.4	0.6	10.121	B
C-AB	231	58	803	0.288	230	0.4	0.6	6.454	A
C-A	250	62			250				
A-B	45	11			45				
A-C	230	58			230				

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	263	66	552	0.476	262	0.6	0.9	12.587	B
C-AB	324	81	848	0.382	322	0.6	1.0	7.033	A
C-A	265	66			265				
A-B	55	14			55				
A-C	282	70			282				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	263	66	552	0.477	263	0.9	0.9	12.696	B
C-AB	324	81	849	0.382	324	1.0	1.0	7.068	A
C-A	265	66			265				
A-B	55	14			55				
A-C	282	70			282				

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	215	54	576	0.373	216	0.9	0.6	10.233	B
C-AB	232	58	804	0.288	233	1.0	0.6	6.497	A
C-A	249	62			249				
A-B	45	11			45				
A-C	230	58			230				

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	180	45	593	0.303	181	0.6	0.5	8.919	A
C-AB	176	44	772	0.228	177	0.6	0.5	6.226	A
C-A	227	57			227				
A-B	38	9			38				
A-C	193	48			193				

2026 Do Minimum, 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		4.23	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.23	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 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	398	100.000
B		ONE HOUR	✓	218	100.000
C		ONE HOUR	✓	397	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	369
	B	49	0	169
	C	256	141	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.44	12.02	0.8	B	200	300
C-AB	0.35	7.75	0.8	A	197	296
C-A					167	251
A-B					27	40
A-C					339	508

Main Results for each time segment

16:15 - 16:30

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	164	41	589	0.279	163	0.0	0.4	8.552	A
C-AB	147	37	689	0.214	146	0.0	0.4	6.701	A
C-A	152	38			152				
A-B	22	5			22				
A-C	278	69			278				

16:30 - 16:45

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	196	49	570	0.344	195	0.4	0.5	9.744	A
C-AB	189	47	705	0.268	188	0.4	0.5	7.064	A
C-A	168	42			168				
A-B	26	7			26				
A-C	332	83			332				

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	240	60	544	0.441	239	0.5	0.8	11.943	B
C-AB	254	64	727	0.350	253	0.5	0.8	7.709	A
C-A	183	46			183				
A-B	32	8			32				
A-C	406	102			406				

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	240	60	544	0.441	240	0.8	0.8	12.024	B
C-AB	255	64	728	0.350	255	0.8	0.8	7.748	A
C-A	182	46			182				
A-B	32	8			32				
A-C	406	102			406				

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	196	49	570	0.344	197	0.8	0.5	9.830	A
C-AB	189	47	705	0.268	190	0.8	0.5	7.113	A
C-A	168	42			168				
A-B	26	7			26				
A-C	332	83			332				

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	164	41	588	0.279	165	0.5	0.4	8.641	A
C-AB	148	37	690	0.214	148	0.5	0.4	6.754	A
C-A	151	38			151				
A-B	22	5			22				
A-C	278	69			278				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.91	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	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	324	100.000
B		ONE HOUR	✓	253	100.000
C		ONE HOUR	✓	565	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	53	271
	B	65	0	188
	C	414	151	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	4
	B	2	0	2
	C	2	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.51	13.82	1.1	B	232	348
C-AB	0.41	7.30	1.2	A	265	398
C-A					253	380
A-B					49	73
A-C					249	373

Main Results for each time segment

07:15 - 07:30

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	190	48	588	0.324	189	0.0	0.5	9.149	A
C-AB	189	47	781	0.242	187	0.0	0.5	6.214	A
C-A	236	59			236				
A-B	40	10			40				
A-C	204	51			204				

07:30 - 07:45

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	227	57	570	0.399	227	0.5	0.7	10.675	B
C-AB	251	63	815	0.308	250	0.5	0.7	6.547	A
C-A	257	64			257				
A-B	48	12			48				
A-C	244	61			244				

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	279	70	544	0.512	277	0.7	1.0	13.668	B
C-AB	355	89	863	0.411	353	0.7	1.1	7.256	A
C-A	267	67			267				
A-B	58	15			58				
A-C	298	75			298				

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	279	70	544	0.512	278	1.0	1.1	13.824	B
C-AB	355	89	864	0.411	355	1.1	1.2	7.303	A
C-A	267	67			267				
A-B	58	15			58				
A-C	298	75			298				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	227	57	570	0.399	229	1.1	0.7	10.824	B
C-AB	252	63	816	0.309	254	1.2	0.7	6.600	A
C-A	256	64			256				
A-B	48	12			48				
A-C	244	61			244				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	190	48	588	0.324	191	0.7	0.5	9.280	A
C-AB	190	48	782	0.243	191	0.7	0.5	6.273	A
C-A	235	59			235				
A-B	40	10			40				
A-C	204	51			204				

2033 Do Minimum, 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		4.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	423	100.000
B		ONE HOUR	✓	230	100.000
C		ONE HOUR	✓	421	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	31	392
	B	52	0	178
	C	272	149	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.47	12.99	0.9	B	211	317
C-AB	0.38	8.02	0.9	A	214	321
C-A					172	258
A-B					28	43
A-C					360	540

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	173	43	582	0.297	171	0.0	0.4	8.860	A
C-AB	159	40	694	0.229	158	0.0	0.4	6.786	A
C-A	158	39			158				
A-B	23	6			23				
A-C	295	74			295				

16:30 - 16:45

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	207	52	563	0.368	206	0.4	0.6	10.236	B
C-AB	205	51	711	0.288	204	0.4	0.6	7.204	A
C-A	174	43			174				
A-B	28	7			28				
A-C	352	88			352				

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	253	63	535	0.474	252	0.6	0.9	12.873	B
C-AB	278	70	735	0.378	277	0.6	0.9	7.977	A
C-A	185	46			185				
A-B	34	9			34				
A-C	432	108			432				

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	253	63	535	0.474	253	0.9	0.9	12.985	B
C-AB	279	70	735	0.379	278	0.9	0.9	8.023	A
C-A	185	46			185				
A-B	34	9			34				
A-C	432	108			432				

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	207	52	562	0.368	208	0.9	0.6	10.350	B
C-AB	205	51	712	0.289	207	0.9	0.6	7.264	A
C-A	173	43			173				
A-B	28	7			28				
A-C	352	88			352				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	173	43	582	0.297	174	0.6	0.4	8.966	A
C-AB	160	40	695	0.230	160	0.6	0.4	6.849	A
C-A	157	39			157				
A-B	23	6			23				
A-C	295	74			295				

2026 Residential Phase 1a, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.72	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.72	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	307	100.000
B		ONE HOUR	✓	241	100.000
C		ONE HOUR	✓	547	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	50	257
	B	61	0	180
	C	395	152	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	4
	B	2	0	2
	C	2	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.48	12.86	0.9	B	221	332
C-AB	0.40	7.32	1.1	A	259	388
C-A					243	364
A-B					46	69
A-C					236	354

Main Results for each time segment

07:15 - 07:30

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	181	45	593	0.306	180	0.0	0.4	8.854	A
C-AB	186	46	773	0.240	184	0.0	0.5	6.261	A
C-A	226	56			226				
A-B	38	9			38				
A-C	193	48			193				

07:30 - 07:45

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	217	54	575	0.377	216	0.4	0.6	10.199	B
C-AB	245	61	806	0.305	245	0.5	0.7	6.591	A
C-A	246	62			246				
A-B	45	11			45				
A-C	231	58			231				

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	265	66	551	0.482	264	0.6	0.9	12.742	B
C-AB	344	86	851	0.404	343	0.7	1.1	7.276	A
C-A	258	65			258				
A-B	55	14			55				
A-C	283	71			283				

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	265	66	551	0.482	265	0.9	0.9	12.858	B
C-AB	345	86	852	0.405	345	1.1	1.1	7.320	A
C-A	257	64			257				
A-B	55	14			55				
A-C	283	71			283				

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	217	54	575	0.377	218	0.9	0.6	10.315	B
C-AB	246	62	807	0.305	248	1.1	0.7	6.641	A
C-A	245	61			245				
A-B	45	11			45				
A-C	231	58			231				

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	181	45	592	0.306	182	0.6	0.5	8.968	A
C-AB	187	47	774	0.242	188	0.7	0.5	6.319	A
C-A	225	56			225				
A-B	38	9			38				
A-C	193	48			193				

2026 Residential Phase 1a, 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		4.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.42	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	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	403	100.000
B		ONE HOUR	✓	226	100.000
C		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	374
	B	49	0	177
	C	259	146	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.46	12.39	0.8	B	207	311
C-AB	0.36	7.91	0.8	A	205	308
C-A					166	250
A-B					27	40
A-C					343	515

Main Results for each time segment

16:15 - 16:30

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	170	43	589	0.289	169	0.0	0.4	8.663	A
C-AB	153	38	690	0.222	152	0.0	0.4	6.764	A
C-A	152	38			152				
A-B	22	5			22				
A-C	282	70			282				

16:30 - 16:45

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	203	51	570	0.356	203	0.4	0.6	9.927	A
C-AB	196	49	706	0.278	196	0.4	0.5	7.155	A
C-A	168	42			168				
A-B	26	7			26				
A-C	336	84			336				

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	249	62	544	0.457	248	0.6	0.8	12.292	B
C-AB	265	66	729	0.364	264	0.5	0.8	7.866	A
C-A	181	45			181				
A-B	32	8			32				
A-C	412	103			412				

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	249	62	544	0.458	249	0.8	0.8	12.386	B
C-AB	266	66	729	0.364	266	0.8	0.8	7.907	A
C-A	180	45			180				
A-B	32	8			32				
A-C	412	103			412				

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	203	51	570	0.356	204	0.8	0.6	10.024	B
C-AB	197	49	707	0.279	198	0.8	0.5	7.209	A
C-A	167	42			167				
A-B	26	7			26				
A-C	336	84			336				

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	170	43	589	0.289	171	0.6	0.4	8.759	A
C-AB	154	38	691	0.223	154	0.5	0.4	6.822	A
C-A	151	38			151				
A-B	22	5			22				
A-C	282	70			282				

2033 Full Residential, 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		5.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.91	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	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	203	100.000
B		ONE HOUR	✓	266	100.000
C		ONE HOUR	✓	550	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	54	149
	B	67	0	199
	C	367	183	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	7
	B	2	0	2
	C	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.51	12.94	1.0	B	244	366
C-AB	0.46	8.05	1.3	A	294	442
C-A					210	316
A-B					50	74
A-C					137	205

Main Results for each time segment

07:15 - 07:30

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	200	50	610	0.328	198	0.0	0.5	8.871	A
C-AB	214	54	773	0.278	212	0.0	0.5	6.565	A
C-A	200	50			200				
A-B	41	10			41				
A-C	112	28			112				

07:30 - 07:45

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	239	60	596	0.401	238	0.5	0.7	10.232	B
C-AB	280	70	804	0.348	279	0.5	0.8	7.030	A
C-A	214	54			214				
A-B	49	12			49				
A-C	134	33			134				

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	293	73	577	0.508	291	0.7	1.0	12.802	B
C-AB	387	97	848	0.456	385	0.8	1.3	7.981	A
C-A	219	55			219				
A-B	59	15			59				
A-C	164	41			164				

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	293	73	577	0.508	293	1.0	1.0	12.937	B
C-AB	388	97	849	0.457	388	1.3	1.3	8.052	A
C-A	218	54			218				
A-B	59	15			59				
A-C	164	41			164				

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	239	60	596	0.401	240	1.0	0.7	10.362	B
C-AB	281	70	805	0.349	283	1.3	0.8	7.114	A
C-A	213	53			213				
A-B	49	12			49				
A-C	134	33			134				

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	200	50	610	0.328	201	0.7	0.5	8.997	A
C-AB	216	54	773	0.279	217	0.8	0.6	6.648	A
C-A	198	50			198				
A-B	41	10			41				
A-C	112	28			112				

2033 Full Residential, 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		4.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.12	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	171	100.000
B		ONE HOUR	✓	141	100.000
C		ONE HOUR	✓	440	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	34	137
	B	36	0	105
	C	273	167	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.26	8.32	0.4	A	129	194
C-AB	0.38	7.57	0.9	A	233	349
C-A					171	256
A-B					31	47
A-C					126	189

Main Results for each time segment

16:15 - 16:30

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	106	27	619	0.171	105	0.0	0.2	7.045	A
C-AB	175	44	729	0.240	173	0.0	0.4	6.550	A
C-A	156	39			156				
A-B	26	6			26				
A-C	103	26			103				

16:30 - 16:45

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	127	32	608	0.209	127	0.2	0.3	7.534	A
C-AB	224	56	752	0.297	223	0.4	0.6	6.900	A
C-A	172	43			172				
A-B	31	8			31				
A-C	123	31			123				

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	155	39	591	0.263	155	0.3	0.4	8.301	A
C-AB	299	75	783	0.382	298	0.6	0.9	7.532	A
C-A	185	46			185				
A-B	37	9			37				
A-C	151	38			151				

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	155	39	591	0.263	155	0.4	0.4	8.317	A
C-AB	300	75	784	0.383	300	0.9	0.9	7.572	A
C-A	185	46			185				
A-B	37	9			37				
A-C	151	38			151				

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	127	32	607	0.209	127	0.4	0.3	7.557	A
C-AB	224	56	752	0.298	225	0.9	0.6	6.949	A
C-A	172	43			172				
A-B	31	8			31				
A-C	123	31			123				

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	106	27	619	0.172	106	0.3	0.2	7.077	A
C-AB	176	44	730	0.241	176	0.6	0.4	6.609	A
C-A	156	39			156				
A-B	26	6			26				
A-C	103	26			103				

2026 Employment, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.54	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.54	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	328	100.000
B		ONE HOUR	✓	239	100.000
C		ONE HOUR	✓	545	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	50	278
	B	61	0	178
	C	401	144	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	4
	B	2	0	2
	C	3	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.48	13.00	0.9	B	219	329
C-AB	0.39	7.15	1.1	A	248	373
C-A					252	378
A-B					46	69
A-C					255	383

Main Results for each time segment

07:15 - 07:30

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	180	45	589	0.306	178	0.0	0.4	8.904	A
C-AB	178	44	774	0.230	176	0.0	0.5	6.197	A
C-A	233	58			233				
A-B	38	9			38				
A-C	209	52			209				

07:30 - 07:45

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	215	54	571	0.376	214	0.4	0.6	10.274	B
C-AB	235	59	806	0.292	234	0.5	0.6	6.492	A
C-A	255	64			255				
A-B	45	11			45				
A-C	250	62			250				

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	263	66	546	0.482	262	0.6	0.9	12.884	B
C-AB	331	83	852	0.388	329	0.6	1.0	7.109	A
C-A	269	67			269				
A-B	55	14			55				
A-C	306	77			306				

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	263	66	545	0.483	263	0.9	0.9	13.003	B
C-AB	332	83	853	0.389	332	1.0	1.1	7.154	A
C-A	268	67			268				
A-B	55	14			55				
A-C	306	77			306				

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	215	54	571	0.377	216	0.9	0.6	10.392	B
C-AB	236	59	807	0.292	238	1.1	0.7	6.544	A
C-A	254	63			254				
A-B	45	11			45				
A-C	250	62			250				

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	180	45	589	0.306	181	0.6	0.5	9.018	A
C-AB	179	45	775	0.231	180	0.7	0.5	6.253	A
C-A	232	58			232				
A-B	38	9			38				
A-C	209	52			209				

2026 Employment, 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		4.19	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.19	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
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	407	100.000
B		ONE HOUR	✓	218	100.000
C		ONE HOUR	✓	416	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	378
	B	49	0	169
	C	275	141	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.44	12.18	0.8	B	200	300
C-AB	0.36	7.72	0.8	A	203	305
C-A					178	268
A-B					27	40
A-C					347	520

Main Results for each time segment

16:15 - 16:30

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	164	41	586	0.280	163	0.0	0.4	8.600	A
C-AB	151	38	698	0.216	149	0.0	0.4	6.659	A
C-A	162	41			162				
A-B	22	5			22				
A-C	285	71			285				

16:30 - 16:45

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	196	49	567	0.346	195	0.4	0.5	9.822	A
C-AB	194	49	715	0.272	194	0.4	0.5	7.019	A
C-A	180	45			180				
A-B	26	7			26				
A-C	340	85			340				

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	240	60	540	0.444	239	0.5	0.8	12.091	B
C-AB	264	66	740	0.356	263	0.5	0.8	7.680	A
C-A	194	49			194				
A-B	32	8			32				
A-C	416	104			416				

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	240	60	540	0.444	240	0.8	0.8	12.177	B
C-AB	264	66	741	0.357	264	0.8	0.8	7.722	A
C-A	194	48			194				
A-B	32	8			32				
A-C	416	104			416				

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	196	49	567	0.346	197	0.8	0.5	9.913	A
C-AB	195	49	716	0.272	196	0.8	0.5	7.077	A
C-A	179	45			179				
A-B	26	7			26				
A-C	340	85			340				

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	164	41	586	0.280	165	0.5	0.4	8.693	A
C-AB	152	38	698	0.217	152	0.5	0.4	6.719	A
C-A	162	40			162				
A-B	22	5			22				
A-C	285	71			285				

2026 Phase 1 (Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.71	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
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	329	100.000
B		ONE HOUR	✓	241	100.000
C		ONE HOUR	✓	558	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	50	279
	B	61	0	180
	C	406	152	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	4
	B	2	0	2
	C	3	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.49	13.18	1.0	B	221	332
C-AB	0.41	7.41	1.2	A	264	396
C-A					248	372
A-B					46	69
A-C					256	384

Main Results for each time segment

07:15 - 07:30

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	181	45	588	0.309	180	0.0	0.4	8.952	A
C-AB	189	47	776	0.243	187	0.0	0.5	6.285	A
C-A	231	58			231				
A-B	38	9			38				
A-C	210	53			210				

07:30 - 07:45

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	217	54	570	0.380	216	0.4	0.6	10.357	B
C-AB	250	63	809	0.309	249	0.5	0.7	6.630	A
C-A	252	63			252				
A-B	45	11			45				
A-C	251	63			251				

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	265	66	544	0.488	264	0.6	0.9	13.051	B
C-AB	352	88	856	0.412	351	0.7	1.1	7.360	A
C-A	262	65			262				
A-B	55	14			55				
A-C	307	77			307				

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	265	66	544	0.488	265	0.9	1.0	13.179	B
C-AB	353	88	857	0.412	353	1.1	1.2	7.409	A
C-A	261	65			261				
A-B	55	14			55				
A-C	307	77			307				

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	217	54	570	0.380	218	1.0	0.6	10.479	B
C-AB	251	63	811	0.310	253	1.2	0.7	6.690	A
C-A	251	63			251				
A-B	45	11			45				
A-C	251	63			251				

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	181	45	588	0.309	182	0.6	0.5	9.070	A
C-AB	190	47	777	0.244	191	0.7	0.5	6.347	A
C-A	230	58			230				
A-B	38	9			38				
A-C	210	53			210				

2026 Phase 1 (Without Link Road), 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		4.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.38	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	412	100.000
B		ONE HOUR	✓	226	100.000
C		ONE HOUR	✓	424	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	383
	B	49	0	177
	C	278	146	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.46	12.55	0.9	B	207	311
C-AB	0.37	7.88	0.9	A	212	317
C-A					177	266
A-B					27	40
A-C					351	527

Main Results for each time segment

16:15 - 16:30

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	170	43	587	0.290	169	0.0	0.4	8.712	A
C-AB	157	39	699	0.225	155	0.0	0.4	6.722	A
C-A	162	41			162				
A-B	22	5			22				
A-C	288	72			288				

16:30 - 16:45

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	203	51	567	0.358	203	0.4	0.6	10.006	B
C-AB	202	51	717	0.282	202	0.4	0.5	7.113	A
C-A	179	45			179				
A-B	26	7			26				
A-C	344	86			344				

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	249	62	540	0.461	248	0.6	0.8	12.446	B
C-AB	275	69	742	0.371	274	0.5	0.8	7.838	A
C-A	192	48			192				
A-B	32	8			32				
A-C	422	105			422				

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	249	62	540	0.461	249	0.8	0.9	12.547	B
C-AB	275	69	742	0.371	275	0.8	0.9	7.883	A
C-A	192	48			192				
A-B	32	8			32				
A-C	422	105			422				

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	203	51	567	0.358	204	0.9	0.6	10.108	B
C-AB	203	51	717	0.283	204	0.9	0.6	7.175	A
C-A	178	45			178				
A-B	26	7			26				
A-C	344	86			344				

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	170	43	586	0.290	171	0.6	0.4	8.812	A
C-AB	158	39	699	0.225	158	0.6	0.4	6.782	A
C-A	162	40			162				
A-B	22	5			22				
A-C	288	72			288				

2026 Phase 1 (With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.99	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.99	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
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	198	100.000
B		ONE HOUR	✓	242	100.000
C		ONE HOUR	✓	479	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	50	148
	B	61	0	181
	C	327	152	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	8
	B	2	0	2
	C	4	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.45	11.48	0.8	B	222	333
C-AB	0.37	7.21	0.9	A	230	345
C-A					209	314
A-B					46	69
A-C					136	204

Main Results for each time segment

07:15 - 07:30

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	182	46	616	0.296	180	0.0	0.4	8.399	A
C-AB	170	43	753	0.226	168	0.0	0.4	6.355	A
C-A	191	48			191				
A-B	38	9			38				
A-C	111	28			111				

07:30 - 07:45

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	218	54	604	0.360	217	0.4	0.6	9.482	A
C-AB	220	55	781	0.282	219	0.4	0.6	6.639	A
C-A	211	53			211				
A-B	45	11			45				
A-C	133	33			133				

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	266	67	586	0.455	265	0.6	0.8	11.406	B
C-AB	300	75	819	0.366	299	0.6	0.9	7.170	A
C-A	227	57			227				
A-B	55	14			55				
A-C	163	41			163				

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	266	67	586	0.455	266	0.8	0.8	11.483	B
C-AB	301	75	819	0.367	300	0.9	0.9	7.205	A
C-A	227	57			227				
A-B	55	14			55				
A-C	163	41			163				

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	218	54	603	0.361	219	0.8	0.6	9.566	A
C-AB	221	55	781	0.282	222	0.9	0.6	6.687	A
C-A	210	53			210				
A-B	45	11			45				
A-C	133	33			133				

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	182	46	616	0.296	183	0.6	0.4	8.493	A
C-AB	171	43	754	0.227	171	0.6	0.4	6.411	A
C-A	190	47			190				
A-B	38	9			38				
A-C	111	28			111				

2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.56	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.56	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	124	100.000
B		ONE HOUR	✓	99	100.000
C		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	95
	B	31	0	68
	C	260	145	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	11
	B	0	0	1
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	7.51	0.2	A	91	136
C-AB	0.32	6.93	0.7	A	197	296
C-A					174	261
A-B					27	40
A-C					87	131

Main Results for each time segment

16:15 - 16:30

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	75	19	616	0.121	74	0.0	0.1	6.677	A
C-AB	149	37	729	0.205	148	0.0	0.3	6.279	A
C-A	156	39			156				
A-B	22	5			22				
A-C	72	18			72				

16:30 - 16:45

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	89	22	606	0.147	89	0.1	0.2	7.006	A
C-AB	190	47	752	0.252	189	0.3	0.5	6.507	A
C-A	174	44			174				
A-B	26	7			26				
A-C	85	21			85				

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	109	27	592	0.184	109	0.2	0.2	7.499	A
C-AB	253	63	782	0.323	252	0.5	0.7	6.902	A
C-A	193	48			193				
A-B	32	8			32				
A-C	105	26			105				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	109	27	592	0.184	109	0.2	0.2	7.507	A
C-AB	253	63	783	0.323	253	0.7	0.7	6.930	A
C-A	193	48			193				
A-B	32	8			32				
A-C	105	26			105				

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	89	22	606	0.147	89	0.2	0.2	7.019	A
C-AB	190	48	752	0.253	191	0.7	0.5	6.546	A
C-A	174	44			174				
A-B	26	7			26				
A-C	85	21			85				

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	75	19	616	0.121	75	0.2	0.1	6.696	A
C-AB	150	37	730	0.205	150	0.5	0.3	6.326	A
C-A	155	39			155				
A-B	22	5			22				
A-C	72	18			72				

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

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

Junction Network

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	225	100.000
B		ONE HOUR	✓	266	100.000
C		ONE HOUR	✓	560	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	54	171
	B	67	0	199
	C	377	183	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	8
	B	2	0	2
	C	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.51	13.25	1.1	B	244	366
C-AB	0.46	8.14	1.3	A	300	450
C-A					214	321
A-B					50	74
A-C					157	235

Main Results for each time segment

07:15 - 07:30

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	200	50	606	0.331	198	0.0	0.5	8.968	A
C-AB	217	54	775	0.281	215	0.0	0.6	6.574	A
C-A	204	51			204				
A-B	41	10			41				
A-C	129	32			129				

07:30 - 07:45

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	239	60	591	0.405	238	0.5	0.7	10.391	B
C-AB	285	71	807	0.353	284	0.6	0.8	7.056	A
C-A	219	55			219				
A-B	49	12			49				
A-C	154	38			154				

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	293	73	570	0.514	291	0.7	1.0	13.109	B
C-AB	395	99	852	0.464	393	0.8	1.3	8.061	A
C-A	221	55			221				
A-B	59	15			59				
A-C	188	47			188				

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	293	73	570	0.514	293	1.0	1.1	13.250	B
C-AB	396	99	853	0.465	396	1.3	1.3	8.137	A
C-A	220	55			220				
A-B	59	15			59				
A-C	188	47			188				

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	239	60	591	0.405	241	1.1	0.7	10.528	B
C-AB	286	71	808	0.354	288	1.3	0.8	7.143	A
C-A	218	54			218				
A-B	49	12			49				
A-C	154	38			154				

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	200	50	605	0.331	201	0.7	0.5	9.098	A
C-AB	219	55	776	0.282	220	0.8	0.6	6.659	A
C-A	203	51			203				
A-B	41	10			41				
A-C	129	32			129				

2033 Full Development, 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		4.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.06	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
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	179	100.000
B		ONE HOUR	✓	141	100.000
C		ONE HOUR	✓	458	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	34	145
	B	36	0	105
	C	291	167	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	7
	B	0	0	1
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.26	8.39	0.4	A	129	194
C-AB	0.39	7.57	0.9	A	239	359
C-A					181	271
A-B					31	47
A-C					133	200

Main Results for each time segment

16:15 - 16:30

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	106	27	617	0.172	105	0.0	0.2	7.077	A
C-AB	179	45	737	0.243	177	0.0	0.4	6.520	A
C-A	166	41			166				
A-B	26	6			26				
A-C	109	27			109				

16:30 - 16:45

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	127	32	605	0.210	127	0.2	0.3	7.578	A
C-AB	229	57	762	0.301	229	0.4	0.6	6.873	A
C-A	182	46			182				
A-B	31	8			31				
A-C	130	33			130				

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	155	39	588	0.264	155	0.3	0.4	8.369	A
C-AB	309	77	795	0.389	308	0.6	0.9	7.524	A
C-A	195	49			195				
A-B	37	9			37				
A-C	160	40			160				

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	155	39	588	0.264	155	0.4	0.4	8.385	A
C-AB	310	77	796	0.389	310	0.9	0.9	7.569	A
C-A	195	49			195				
A-B	37	9			37				
A-C	160	40			160				

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	127	32	605	0.210	127	0.4	0.3	7.602	A
C-AB	230	57	762	0.302	231	0.9	0.6	6.933	A
C-A	182	45			182				
A-B	31	8			31				
A-C	130	33			130				

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	106	27	617	0.172	106	0.3	0.2	7.112	A
C-AB	180	45	738	0.243	180	0.6	0.4	6.581	A
C-A	165	41			165				
A-B	26	6			26				
A-C	109	27			109				

Appendix J-16

Junctions 10 Output – Pogmoor Road / Intake Lane Junction

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: Pogmoor Road - Intake Lane.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Pogmoor Road - Intake Lane
Report generation date: 09/11/2023 14:29:14

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a, PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment, AM
»2026 Employment, PM
»2026 Phase 1 (Without Link Road), AM
»2026 Phase 1 (Without Link Road), PM
»2026 Phase 1 (With Link Road), AM
»2026 Phase 1 (With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	1.6	34.58	0.63	1.8	33.86	0.65
Stream C-AB	0.4	5.87	0.16	0.5	4.39	0.19
	2026 Do Minimum					
Stream B-AC	3.0	56.21	0.77	2.7	46.13	0.74
Stream C-AB	0.4	5.88	0.16	0.6	4.41	0.20
	2033 Do Minimum					
Stream B-AC	4.9	87.65	0.87	3.9	65.86	0.82
Stream C-AB	0.5	5.98	0.18	0.7	4.40	0.22
	2026 Residential Phase 1a					
Stream B-AC	3.6	64.73	0.81	2.9	49.90	0.76
Stream C-AB	0.4	5.89	0.16	0.6	4.42	0.21
	2033 Full Residential					
Stream B-AC	14.2	201.50	1.05	8.0	120.65	0.95
Stream C-AB	0.5	5.93	0.20	0.9	4.32	0.27
	2026 Employment					
Stream B-AC	3.1	56.65	0.77	2.7	46.49	0.74
Stream C-AB	0.4	5.88	0.16	0.6	4.41	0.20
	2026 Phase 1 (Without Link Road)					
Stream B-AC	3.6	65.29	0.81	2.9	50.32	0.76
Stream C-AB	0.4	5.88	0.16	0.6	4.42	0.21
	2026 Phase 1 (With Link Road)					
Stream B-AC	3.9	69.48	0.82	3.1	53.96	0.78
Stream C-AB	0.4	5.75	0.17	0.7	4.15	0.22
	2033 Full Development					
Stream B-AC	14.2	202.10	1.05	8.1	121.61	0.95
Stream C-AB	0.5	5.93	0.20	0.9	4.32	0.27

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	Pogmoor Road/Intake Lane
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2022 Base	PM	ONE HOUR	16:00	17:30	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:00	17:30	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:00	17:30	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:00	17:30	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:00	17:30	15	✓
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓
D12	2026 Employment	PM	ONE HOUR	16:00	17:30	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:45	09:15	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:00	17:30	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:45	09:15	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:00	17:30	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:00	17:30	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.08	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.08	A

Arms

Arms

Arm	Name	Description	Arm type
A	Pogmoor Road West		Major
B	Intake Lane		Minor
C	Pogmoor Road East		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.90			215.0	✓	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	3.24	20	30

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	511	0.087	0.219	0.138	0.313
B-C	658	0.091	0.231	-	-
C-B	698	0.248	0.248	-	-

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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	928	100.000
B		ONE HOUR	✓	161	100.000
C		ONE HOUR	✓	409	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	193	735
	B	113	0	48
	C	360	49	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.63	34.58	1.6	D	148	222
C-AB	0.16	5.87	0.4	A	85	128
C-A					290	435
A-B					177	266
A-C					674	1012

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	121	30	368	0.329	119	0.0	0.5	14.626	B
C-AB	59	15	717	0.083	59	0.0	0.2	5.549	A
C-A	249	62			249				
A-B	145	36			145				
A-C	553	138			553				

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	145	36	333	0.435	144	0.5	0.8	19.310	C
C-AB	80	20	727	0.110	79	0.2	0.2	5.655	A
C-A	288	72			288				
A-B	174	43			174				
A-C	661	165			661				

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	177	44	283	0.627	174	0.8	1.6	32.864	D
C-AB	116	29	744	0.156	116	0.2	0.4	5.851	A
C-A	334	84			334				
A-B	212	53			212				
A-C	809	202			809				

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	177	44	282	0.628	177	1.6	1.6	34.583	D
C-AB	116	29	744	0.157	116	0.4	0.4	5.873	A
C-A	334	83			334				
A-B	212	53			212				
A-C	809	202			809				

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	145	36	333	0.435	148	1.6	0.8	20.235	C
C-AB	80	20	727	0.110	81	0.4	0.2	5.691	A
C-A	288	72			288				
A-B	174	43			174				
A-C	661	165			661				

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	121	30	368	0.329	122	0.8	0.5	15.010	C
C-AB	60	15	717	0.083	60	0.2	0.2	5.575	A
C-A	248	62			248				
A-B	145	36			145				
A-C	553	138			553				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		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
D2	2022 Base	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	564	100.000
B		ONE HOUR	✓	181	100.000
C		ONE HOUR	✓	697	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	164	400
	B	152	0	29
	C	641	56	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.65	33.86	1.8	D	166	249
C-AB	0.19	4.39	0.5	A	137	205
C-A					503	755
A-B					150	226
A-C					367	551

Main Results for each time segment

16:00 - 16:15

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	136	34	378	0.360	134	0.0	0.6	14.750	B
C-AB	89	22	917	0.097	88	0.0	0.2	4.368	A
C-A	436	109			436				
A-B	123	31			123				
A-C	301	75			301				

16:15 - 16:30

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	348	0.468	162	0.6	0.9	19.366	C
C-AB	125	31	966	0.130	125	0.2	0.3	4.311	A
C-A	501	125			501				
A-B	147	37			147				
A-C	360	90			360				

16:30 - 16:45

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	199	50	306	0.652	196	0.9	1.7	32.092	D
C-AB	194	49	1037	0.187	193	0.3	0.5	4.303	A
C-A	573	143			573				
A-B	181	45			181				
A-C	440	110			440				

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	199	50	305	0.653	199	1.7	1.8	33.862	D
C-AB	195	49	1038	0.188	195	0.5	0.5	4.312	A
C-A	573	143			573				
A-B	181	45			181				
A-C	440	110			440				

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	163	41	347	0.468	166	1.8	0.9	20.393	C
C-AB	126	31	967	0.130	127	0.5	0.3	4.326	A
C-A	501	125			501				
A-B	147	37			147				
A-C	360	90			360				

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	136	34	378	0.361	138	0.9	0.6	15.201	C
C-AB	90	22	917	0.098	90	0.3	0.2	4.386	A
C-A	435	109			435				
A-B	123	31			123				
A-C	301	75			301				

2026 Do Minimum, 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		7.14	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.14	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 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	955	100.000
B		ONE HOUR	✓	189	100.000
C		ONE HOUR	✓	424	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	207	748
	B	140	0	49
	C	374	50	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.77	56.21	3.0	F	173	260
C-AB	0.16	5.88	0.4	A	90	134
C-A					299	449
A-B					190	285
A-C					686	1030

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	142	36	358	0.397	140	0.0	0.6	16.515	C
C-AB	62	15	720	0.086	61	0.0	0.2	5.546	A
C-A	257	64			257				
A-B	156	39			156				
A-C	563	141			563				

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	170	42	321	0.529	168	0.6	1.1	23.547	C
C-AB	84	21	731	0.114	83	0.2	0.2	5.656	A
C-A	298	74			298				
A-B	186	47			186				
A-C	672	168			672				

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	208	52	270	0.772	201	1.1	2.8	49.077	E
C-AB	123	31	749	0.164	122	0.2	0.4	5.862	A
C-A	344	86			344				
A-B	228	57			228				
A-C	824	206			824				

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	208	52	270	0.772	207	2.8	3.0	56.212	F
C-AB	123	31	750	0.164	123	0.4	0.4	5.883	A
C-A	344	86			344				
A-B	228	57			228				
A-C	824	206			824				

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	170	42	321	0.529	177	3.0	1.2	26.493	D
C-AB	84	21	732	0.115	85	0.4	0.3	5.693	A
C-A	297	74			297				
A-B	186	47			186				
A-C	672	168			672				

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	142	36	358	0.398	144	1.2	0.7	17.236	C
C-AB	62	16	721	0.086	62	0.3	0.2	5.571	A
C-A	257	64			257				
A-B	156	39			156				
A-C	563	141			563				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2026 Do Minimum	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	602	100.000
B		ONE HOUR	✓	199	100.000
C		ONE HOUR	✓	712	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	188	414
	B	169	0	30
	C	654	58	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.74	46.13	2.7	E	183	274
C-AB	0.20	4.41	0.6	A	146	219
C-A					508	761
A-B					173	259
A-C					380	570

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	37	371	0.404	147	0.0	0.7	16.053	C
C-AB	94	24	918	0.103	93	0.0	0.2	4.389	A
C-A	442	110			442				
A-B	142	35			142				
A-C	312	78			312				

16:15 - 16:30

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	179	45	339	0.527	177	0.7	1.1	22.167	C
C-AB	133	33	968	0.138	133	0.2	0.4	4.341	A
C-A	507	127			507				
A-B	169	42			169				
A-C	372	93			372				

16:30 - 16:45

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	219	55	296	0.741	214	1.1	2.5	41.670	E
C-AB	209	52	1041	0.201	208	0.4	0.6	4.359	A
C-A	575	144			575				
A-B	207	52			207				
A-C	456	114			456				

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	219	55	295	0.742	218	2.5	2.7	46.134	E
C-AB	209	52	1042	0.201	209	0.6	0.6	4.370	A
C-A	575	144			575				
A-B	207	52			207				
A-C	456	114			456				

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	179	45	339	0.528	185	2.7	1.2	24.325	C
C-AB	134	34	969	0.138	135	0.6	0.4	4.358	A
C-A	506	126			506				
A-B	169	42			169				
A-C	372	93			372				

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	150	37	371	0.404	152	1.2	0.7	16.734	C
C-AB	95	24	919	0.103	95	0.4	0.2	4.407	A
C-A	441	110			441				
A-B	142	35			142				
A-C	312	78			312				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		10.90	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.90	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1012	100.000
B		ONE HOUR	✓	199	100.000
C		ONE HOUR	✓	449	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	219	793
	B	147	0	52
	C	396	53	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.87	87.65	4.9	F	183	274
C-AB	0.18	5.98	0.5	A	100	150
C-A					312	468
A-B					201	301
A-C					728	1092

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	150	37	347	0.432	147	0.0	0.7	17.958	C
C-AB	68	17	723	0.094	67	0.0	0.2	5.575	A
C-A	270	68			270				
A-B	165	41			165				
A-C	597	149			597				

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	179	45	308	0.581	177	0.7	1.3	27.281	D
C-AB	93	23	735	0.126	92	0.2	0.3	5.705	A
C-A	311	78			311				
A-B	197	49			197				
A-C	713	178			713				

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	219	55	253	0.866	208	1.3	4.2	68.071	F
C-AB	139	35	756	0.184	138	0.3	0.5	5.959	A
C-A	356	89			356				
A-B	241	60			241				
A-C	873	218			873				

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	219	55	253	0.867	216	4.2	4.9	87.651	F
C-AB	139	35	757	0.184	139	0.5	0.5	5.984	A
C-A	355	89			355				
A-B	241	60			241				
A-C	873	218			873				

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	179	45	308	0.581	192	4.9	1.5	34.669	D
C-AB	93	23	736	0.127	94	0.5	0.3	5.747	A
C-A	310	78			310				
A-B	197	49			197				
A-C	713	178			713				

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	150	37	347	0.432	153	1.5	0.8	19.038	C
C-AB	68	17	724	0.094	69	0.3	0.2	5.605	A
C-A	270	67			270				
A-B	165	41			165				
A-C	597	149			597				

2033 Do Minimum, 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		9.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.12	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 Do Minimum	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	638	100.000
B		ONE HOUR	✓	210	100.000
C		ONE HOUR	✓	755	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	199	439
	B	178	0	32
	C	694	61	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.82	65.86	3.9	F	193	289
C-AB	0.22	4.40	0.7	A	165	247
C-A					528	792
A-B					183	274
A-C					403	604

Main Results for each time segment

16:00 - 16:15

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	158	40	361	0.437	155	0.0	0.8	17.352	C
C-AB	104	26	934	0.112	103	0.0	0.2	4.359	A
C-A	464	116			464				
A-B	150	37			150				
A-C	331	83			331				

16:15 - 16:30

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	189	47	328	0.576	187	0.8	1.3	25.299	D
C-AB	150	37	988	0.152	149	0.2	0.4	4.326	A
C-A	529	132			529				
A-B	179	45			179				
A-C	395	99			395				

16:30 - 16:45

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	231	58	281	0.822	222	1.3	3.5	54.932	F
C-AB	239	60	1066	0.224	238	0.4	0.7	4.386	A
C-A	592	148			592				
A-B	219	55			219				
A-C	483	121			483				

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	231	58	281	0.822	229	3.5	3.9	65.860	F
C-AB	240	60	1067	0.225	240	0.7	0.7	4.398	A
C-A	592	148			592				
A-B	219	55			219				
A-C	483	121			483				

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	189	47	328	0.576	199	3.9	1.5	29.939	D
C-AB	151	38	989	0.152	152	0.7	0.4	4.348	A
C-A	528	132			528				
A-B	179	45			179				
A-C	395	99			395				

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	158	40	361	0.438	161	1.5	0.8	18.338	C
C-AB	105	26	934	0.113	106	0.4	0.3	4.381	A
C-A	463	116			463				
A-B	150	37			150				
A-C	331	83			331				

2026 Residential Phase 1a, 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		8.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.45	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	957	100.000
B		ONE HOUR	✓	197	100.000
C		ONE HOUR	✓	424	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	209	748
	B	147	0	50
	C	374	50	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.81	64.73	3.6	F	181	271
C-AB	0.16	5.89	0.4	A	90	134
C-A					299	449
A-B					192	288
A-C					686	1030

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	148	37	357	0.415	146	0.0	0.7	17.022	C
C-AB	62	15	720	0.086	61	0.0	0.2	5.549	A
C-A	257	64			257				
A-B	157	39			157				
A-C	563	141			563				

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	177	44	320	0.553	175	0.7	1.2	24.783	C
C-AB	84	21	731	0.114	83	0.2	0.2	5.658	A
C-A	298	74			298				
A-B	188	47			188				
A-C	672	168			672				

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	217	54	269	0.807	209	1.2	3.2	54.553	F
C-AB	123	31	749	0.164	122	0.2	0.4	5.869	A
C-A	344	86			344				
A-B	230	58			230				
A-C	824	206			824				

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	217	54	269	0.808	215	3.2	3.6	64.733	F
C-AB	123	31	749	0.164	123	0.4	0.4	5.888	A
C-A	344	86			344				
A-B	230	58			230				
A-C	824	206			824				

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	177	44	320	0.553	186	3.6	1.3	28.835	D
C-AB	84	21	731	0.115	85	0.4	0.3	5.694	A
C-A	297	74			297				
A-B	188	47			188				
A-C	672	168			672				

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	148	37	357	0.416	151	1.3	0.7	17.874	C
C-AB	62	16	720	0.086	63	0.3	0.2	5.574	A
C-A	257	64			257				
A-B	157	39			157				
A-C	563	141			563				

2026 Residential Phase 1a, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		7.14	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.14	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	2026 Residential Phase 1a	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	610	100.000
B		ONE HOUR	✓	204	100.000
C		ONE HOUR	✓	713	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	196	414
	B	173	0	31
	C	654	59	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.76	49.90	2.9	E	187	281
C-AB	0.21	4.42	0.6	A	149	223
C-A					506	758
A-B					180	270
A-C					380	570

Main Results for each time segment

16:00 - 16:15

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	154	38	370	0.415	151	0.0	0.7	16.349	C
C-AB	96	24	917	0.105	95	0.0	0.2	4.404	A
C-A	441	110			441				
A-B	148	37			148				
A-C	312	78			312				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	46	339	0.542	182	0.7	1.1	22.861	C
C-AB	136	34	967	0.141	136	0.2	0.4	4.361	A
C-A	505	126			505				
A-B	176	44			176				
A-C	372	93			372				

16:30 - 16:45

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	225	56	295	0.763	218	1.1	2.7	44.354	E
C-AB	213	53	1040	0.205	212	0.4	0.6	4.386	A
C-A	572	143			572				
A-B	216	54			216				
A-C	456	114			456				

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	225	56	294	0.763	224	2.7	2.9	49.902	E
C-AB	213	53	1040	0.205	213	0.6	0.6	4.400	A
C-A	572	143			572				
A-B	216	54			216				
A-C	456	114			456				

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	183	46	338	0.542	190	2.9	1.3	25.456	D
C-AB	137	34	968	0.141	138	0.6	0.4	4.380	A
C-A	504	126			504				
A-B	176	44			176				
A-C	372	93			372				

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	38	370	0.415	156	1.3	0.7	17.102	C
C-AB	97	24	918	0.105	97	0.4	0.2	4.423	A
C-A	440	110			440				
A-B	148	37			148				
A-C	312	78			312				

2033 Full Residential, 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		27.22	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	27.22	D

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	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1027	100.000
B		ONE HOUR	✓	231	100.000
C		ONE HOUR	✓	478	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	230	797
	B	175	0	56
	C	423	55	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.05	201.50	14.2	F	212	318
C-AB	0.20	5.93	0.5	A	109	164
C-A					330	494
A-B					211	317
A-C					731	1097

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	174	43	340	0.512	170	0.0	1.0	20.985	C
C-AB	73	18	735	0.099	72	0.0	0.2	5.520	A
C-A	287	72			287				
A-B	173	43			173				
A-C	600	150			600				

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	208	52	300	0.693	204	1.0	2.0	36.421	E
C-AB	101	25	751	0.134	100	0.2	0.3	5.644	A
C-A	329	82			329				
A-B	207	52			207				
A-C	716	179			716				

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	254	64	243	1.045	225	2.0	9.4	120.840	F
C-AB	153	38	776	0.197	152	0.3	0.5	5.905	A
C-A	374	93			374				
A-B	253	63			253				
A-C	878	219			878				

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	254	64	243	1.045	235	9.4	14.2	201.498	F
C-AB	153	38	776	0.197	153	0.5	0.5	5.932	A
C-A	373	93			373				
A-B	253	63			253				
A-C	878	219			878				

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	208	52	299	0.693	253	14.2	2.8	99.679	F
C-AB	101	25	751	0.135	102	0.5	0.3	5.690	A
C-A	329	82			329				
A-B	207	52			207				
A-C	716	179			716				

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	174	43	340	0.512	181	2.8	1.1	23.765	C
C-AB	74	18	736	0.100	74	0.3	0.2	5.554	A
C-A	286	72			286				
A-B	173	43			173				
A-C	600	150			600				

2033 Full Residential, 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		17.41	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	17.41	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2033 Full Residential	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	562	100.000
B		ONE HOUR	✓	230	100.000
C		ONE HOUR	✓	858	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	103	459
	B	196	0	34
	C	790	68	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.95	120.65	8.0	F	211	317
C-AB	0.27	4.32	0.9	A	208	313
C-A					579	868
A-B					95	142
A-C					421	632

Main Results for each time segment

16:00 - 16:15

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	173	43	353	0.491	169	0.0	0.9	19.457	C
C-AB	128	32	992	0.129	127	0.0	0.3	4.184	A
C-A	518	130			518				
A-B	78	19			78				
A-C	346	86			346				

16:15 - 16:30

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	207	52	317	0.652	204	0.9	1.7	31.055	D
C-AB	187	47	1058	0.177	187	0.3	0.5	4.167	A
C-A	584	146			584				
A-B	93	23			93				
A-C	413	103			413				

16:30 - 16:45

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	253	63	268	0.944	235	1.7	6.2	84.154	F
C-AB	309	77	1152	0.268	307	0.5	0.9	4.303	A
C-A	636	159			636				
A-B	113	28			113				
A-C	505	126			505				

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	253	63	268	0.945	246	6.2	8.0	120.646	F
C-AB	310	77	1153	0.268	309	0.9	0.9	4.321	A
C-A	635	159			635				
A-B	113	28			113				
A-C	505	126			505				

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	207	52	317	0.652	230	8.0	2.1	49.626	E
C-AB	188	47	1059	0.178	190	0.9	0.5	4.191	A
C-A	583	146			583				
A-B	93	23			93				
A-C	413	103			413				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	173	43	352	0.492	178	2.1	1.0	21.262	C
C-AB	129	32	993	0.130	130	0.5	0.3	4.208	A
C-A	517	129			517				
A-B	78	19			78				
A-C	346	86			346				

2026 Employment, 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		7.18	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.18	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
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	956	100.000
B		ONE HOUR	✓	189	100.000
C		ONE HOUR	✓	426	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	207	749
	B	140	0	49
	C	376	50	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.77	56.65	3.1	F	173	260
C-AB	0.16	5.88	0.4	A	90	135
C-A					301	452
A-B					190	285
A-C					687	1031

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	142	36	358	0.398	140	0.0	0.6	16.541	C
C-AB	62	15	721	0.086	61	0.0	0.2	5.540	A
C-A	259	65			259				
A-B	156	39			156				
A-C	564	141			564				

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	170	42	321	0.530	168	0.6	1.1	23.613	C
C-AB	84	21	732	0.115	84	0.2	0.2	5.647	A
C-A	299	75			299				
A-B	186	47			186				
A-C	673	168			673				

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	208	52	269	0.773	201	1.1	2.8	49.377	E
C-AB	123	31	751	0.164	123	0.2	0.4	5.856	A
C-A	346	86			346				
A-B	228	57			228				
A-C	825	206			825				

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	208	52	269	0.773	207	2.8	3.1	56.647	F
C-AB	124	31	751	0.165	124	0.4	0.4	5.875	A
C-A	345	86			345				
A-B	228	57			228				
A-C	825	206			825				

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	170	42	321	0.530	177	3.1	1.2	26.602	D
C-AB	84	21	733	0.115	85	0.4	0.3	5.684	A
C-A	299	75			299				
A-B	186	47			186				
A-C	673	168			673				

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	142	36	357	0.398	144	1.2	0.7	17.269	C
C-AB	62	16	721	0.086	63	0.3	0.2	5.567	A
C-A	258	65			258				
A-B	156	39			156				
A-C	564	141			564				

2026 Employment, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.57	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.57	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
D12	2026 Employment	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	604	100.000
B		ONE HOUR	✓	199	100.000
C		ONE HOUR	✓	713	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	188	416
	B	169	0	30
	C	655	58	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.74	46.49	2.7	E	183	274
C-AB	0.20	4.41	0.6	A	146	219
C-A					508	762
A-B					173	259
A-C					382	573

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	150	37	370	0.404	147	0.0	0.7	16.083	C
C-AB	94	24	918	0.103	93	0.0	0.2	4.388	A
C-A	442	111			442				
A-B	142	35			142				
A-C	313	78			313				

16:15 - 16:30

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	179	45	339	0.528	177	0.7	1.1	22.236	C
C-AB	134	33	968	0.138	133	0.2	0.4	4.339	A
C-A	507	127			507				
A-B	169	42			169				
A-C	374	93			374				

16:30 - 16:45

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	219	55	295	0.743	213	1.1	2.5	41.941	E
C-AB	209	52	1041	0.201	208	0.4	0.6	4.359	A
C-A	576	144			576				
A-B	207	52			207				
A-C	458	115			458				

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	219	55	295	0.744	218	2.5	2.7	46.494	E
C-AB	210	52	1042	0.201	210	0.6	0.6	4.371	A
C-A	575	144			575				
A-B	207	52			207				
A-C	458	115			458				

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	179	45	339	0.528	185	2.7	1.2	24.429	C
C-AB	134	34	969	0.139	135	0.6	0.4	4.360	A
C-A	507	127			507				
A-B	169	42			169				
A-C	374	93			374				

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	150	37	370	0.405	152	1.2	0.7	16.770	C
C-AB	95	24	919	0.103	96	0.4	0.2	4.407	A
C-A	442	110			442				
A-B	142	35			142				
A-C	313	78			313				

2026 Phase 1 (Without Link Road), 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		8.50	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.50	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
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	958	100.000
B		ONE HOUR	✓	197	100.000
C		ONE HOUR	✓	426	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	209	749
	B	147	0	50
	C	376	50	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.81	65.29	3.6	F	181	271
C-AB	0.16	5.88	0.4	A	90	135
C-A					301	451
A-B					192	288
A-C					687	1031

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	148	37	357	0.416	146	0.0	0.7	17.049	C
C-AB	62	15	721	0.086	61	0.0	0.2	5.543	A
C-A	259	65			259				
A-B	157	39			157				
A-C	564	141			564				

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	177	44	320	0.554	175	0.7	1.2	24.854	C
C-AB	84	21	732	0.115	84	0.2	0.2	5.651	A
C-A	299	75			299				
A-B	188	47			188				
A-C	673	168			673				

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	217	54	268	0.809	209	1.2	3.3	54.907	F
C-AB	124	31	751	0.165	123	0.2	0.4	5.859	A
C-A	346	86			346				
A-B	230	58			230				
A-C	825	206			825				

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	217	54	268	0.809	215	3.3	3.6	65.286	F
C-AB	124	31	751	0.165	124	0.4	0.4	5.882	A
C-A	345	86			345				
A-B	230	58			230				
A-C	825	206			825				

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	177	44	320	0.554	186	3.6	1.3	28.974	D
C-AB	84	21	732	0.115	85	0.4	0.3	5.689	A
C-A	299	75			299				
A-B	188	47			188				
A-C	673	168			673				

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	148	37	356	0.416	151	1.3	0.7	17.907	C
C-AB	62	16	721	0.086	63	0.3	0.2	5.568	A
C-A	258	65			258				
A-B	157	39			157				
A-C	564	141			564				

2026 Phase 1 (Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		7.18	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.18	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	612	100.000
B		ONE HOUR	✓	204	100.000
C		ONE HOUR	✓	714	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	196	416
	B	173	0	31
	C	655	59	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.76	50.32	2.9	F	187	281
C-AB	0.21	4.42	0.6	A	149	223
C-A					506	759
A-B					180	270
A-C					382	573

Main Results for each time segment

16:00 - 16:15

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	154	38	370	0.415	151	0.0	0.7	16.381	C
C-AB	96	24	917	0.105	95	0.0	0.2	4.403	A
C-A	441	110			441				
A-B	148	37			148				
A-C	313	78			313				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	183	46	338	0.542	182	0.7	1.1	22.934	C
C-AB	136	34	967	0.141	136	0.2	0.4	4.361	A
C-A	506	126			506				
A-B	176	44			176				
A-C	374	93			374				

16:30 - 16:45

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	225	56	294	0.764	218	1.1	2.7	44.653	E
C-AB	214	53	1040	0.205	213	0.4	0.6	4.387	A
C-A	573	143			573				
A-B	216	54			216				
A-C	458	115			458				

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	225	56	294	0.765	224	2.7	2.9	50.318	F
C-AB	214	54	1041	0.206	214	0.6	0.6	4.399	A
C-A	572	143			572				
A-B	216	54			216				
A-C	458	115			458				

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	183	46	338	0.543	190	2.9	1.3	25.571	D
C-AB	137	34	968	0.141	138	0.6	0.4	4.380	A
C-A	505	126			505				
A-B	176	44			176				
A-C	374	93			374				

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	38	370	0.416	156	1.3	0.7	17.137	C
C-AB	97	24	918	0.105	97	0.4	0.2	4.421	A
C-A	441	110			441				
A-B	148	37			148				
A-C	313	78			313				

2026 Phase 1 (With Link Road), 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		8.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.88	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	959	100.000
B		ONE HOUR	✓	197	100.000
C		ONE HOUR	✓	452	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	210	749
	B	147	0	50
	C	402	50	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.82	69.48	3.9	F	181	271
C-AB	0.17	5.75	0.4	A	94	141
C-A					321	481
A-B					193	289
A-C					687	1031

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	148	37	354	0.419	145	0.0	0.7	17.248	C
C-AB	64	16	735	0.087	63	0.0	0.2	5.450	A
C-A	276	69			276				
A-B	158	40			158				
A-C	564	141			564				

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	177	44	317	0.559	175	0.7	1.2	25.364	D
C-AB	87	22	749	0.117	87	0.2	0.3	5.539	A
C-A	319	80			319				
A-B	189	47			189				
A-C	673	168			673				

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	217	54	264	0.821	208	1.2	3.4	57.539	F
C-AB	130	32	772	0.168	129	0.3	0.4	5.728	A
C-A	368	92			368				
A-B	231	58			231				
A-C	825	206			825				

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	217	54	264	0.821	215	3.4	3.9	69.480	F
C-AB	130	33	772	0.168	130	0.4	0.4	5.747	A
C-A	368	92			368				
A-B	231	58			231				
A-C	825	206			825				

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	177	44	317	0.560	187	3.9	1.4	30.016	D
C-AB	88	22	749	0.117	88	0.4	0.3	5.579	A
C-A	319	80			319				
A-B	189	47			189				
A-C	673	168			673				

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	148	37	354	0.419	151	1.4	0.8	18.148	C
C-AB	64	16	735	0.088	65	0.3	0.2	5.478	A
C-A	276	69			276				
A-B	158	40			158				
A-C	564	141			564				

2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		7.72	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.72	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	504	100.000
B		ONE HOUR	✓	203	100.000
C		ONE HOUR	✓	810	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	70	434
	B	172	0	31
	C	751	59	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.78	53.96	3.1	F	186	279
C-AB	0.22	4.15	0.7	A	167	251
C-A					576	864
A-B					64	96
A-C					398	597

Main Results for each time segment

16:00 - 16:15

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	153	38	366	0.418	150	0.0	0.7	16.625	C
C-AB	105	26	980	0.107	104	0.0	0.2	4.135	A
C-A	505	126			505				
A-B	53	13			53				
A-C	327	82			327				

16:15 - 16:30

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	182	46	333	0.548	181	0.7	1.2	23.524	C
C-AB	152	38	1042	0.146	151	0.2	0.4	4.071	A
C-A	577	144			577				
A-B	63	16			63				
A-C	390	98			390				

16:30 - 16:45

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	224	56	288	0.777	217	1.2	2.9	47.227	E
C-AB	244	61	1131	0.216	243	0.4	0.7	4.091	A
C-A	648	162			648				
A-B	77	19			77				
A-C	478	119			478				

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	224	56	287	0.778	222	2.9	3.1	53.956	F
C-AB	244	61	1131	0.216	244	0.7	0.7	4.103	A
C-A	647	162			647				
A-B	77	19			77				
A-C	478	119			478				

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	182	46	333	0.548	190	3.1	1.3	26.539	D
C-AB	152	38	1043	0.146	153	0.7	0.4	4.090	A
C-A	576	144			576				
A-B	63	16			63				
A-C	390	98			390				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	153	38	365	0.418	155	1.3	0.7	17.426	C
C-AB	106	26	981	0.108	106	0.4	0.2	4.153	A
C-A	504	126			504				
A-B	53	13			53				
A-C	327	82			327				

2033 Full Development, 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		27.28	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	27.28	D

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
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1027	100.000
B		ONE HOUR	✓	231	100.000
C		ONE HOUR	✓	479	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	230	797
	B	175	0	56
	C	424	55	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.05	202.10	14.2	F	212	318
C-AB	0.20	5.93	0.5	A	109	164
C-A					330	496
A-B					211	317
A-C					731	1097

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	174	43	340	0.512	170	0.0	1.0	20.995	C
C-AB	73	18	736	0.099	72	0.0	0.2	5.516	A
C-A	287	72			287				
A-B	173	43			173				
A-C	600	150			600				

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	208	52	300	0.693	204	1.0	2.0	36.440	E
C-AB	101	25	751	0.134	100	0.2	0.3	5.639	A
C-A	330	82			330				
A-B	207	52			207				
A-C	716	179			716				

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	254	64	243	1.045	225	2.0	9.4	121.102	F
C-AB	153	38	777	0.197	152	0.3	0.5	5.902	A
C-A	375	94			375				
A-B	253	63			253				
A-C	878	219			878				

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	254	64	243	1.046	235	9.4	14.2	202.100	F
C-AB	153	38	777	0.197	153	0.5	0.5	5.927	A
C-A	374	94			374				
A-B	253	63			253				
A-C	878	219			878				

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	208	52	299	0.694	253	14.2	2.8	100.185	F
C-AB	101	25	752	0.135	102	0.5	0.3	5.685	A
C-A	329	82			329				
A-B	207	52			207				
A-C	716	179			716				

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	174	43	339	0.512	181	2.8	1.1	23.788	C
C-AB	74	18	736	0.100	74	0.3	0.2	5.548	A
C-A	287	72			287				
A-B	173	43			173				
A-C	600	150			600				

2033 Full Development, 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		17.53	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	17.53	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D18	2033 Full Development	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	563	100.000
B		ONE HOUR	✓	230	100.000
C		ONE HOUR	✓	859	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	103	460
	B	196	0	34
	C	791	68	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.95	121.61	8.1	F	211	317
C-AB	0.27	4.32	0.9	A	209	313
C-A					579	869
A-B					95	142
A-C					422	633

Main Results for each time segment

16:00 - 16:15

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	173	43	352	0.491	169	0.0	0.9	19.484	C
C-AB	128	32	992	0.129	127	0.0	0.3	4.183	A
C-A	519	130			519				
A-B	78	19			78				
A-C	346	87			346				

16:15 - 16:30

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	207	52	317	0.652	204	0.9	1.7	31.136	D
C-AB	188	47	1058	0.177	187	0.3	0.5	4.167	A
C-A	585	146			585				
A-B	93	23			93				
A-C	414	103			414				

16:30 - 16:45

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	253	63	268	0.946	235	1.7	6.2	84.619	F
C-AB	309	77	1153	0.268	308	0.5	0.9	4.302	A
C-A	637	159			637				
A-B	113	28			113				
A-C	506	127			506				

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	253	63	267	0.947	246	6.2	8.1	121.607	F
C-AB	310	78	1154	0.269	310	0.9	0.9	4.322	A
C-A	636	159			636				
A-B	113	28			113				
A-C	506	127			506				

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	207	52	317	0.653	231	8.1	2.1	50.048	F
C-AB	189	47	1060	0.178	190	0.9	0.5	4.192	A
C-A	584	146			584				
A-B	93	23			93				
A-C	414	103			414				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	173	43	352	0.492	178	2.1	1.0	21.299	C
C-AB	129	32	993	0.130	130	0.5	0.3	4.207	A
C-A	518	129			518				
A-B	78	19			78				
A-C	346	87			346				

Appendix J-17

Junctions 10 Output – Pogmoor Road / Farmhouse Lane

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: Pogmoor Road - Farmhouse Lane Junction.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Pogmoor Road - Farmhouse Lane Junction
Report generation date: 09/11/2023 14:35:38

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a , AM
»2026 Residential Phase 1a , PM
»2033 Full Residential , AM
»2033 Full Residential , PM
»2026 Employment, AM
»2026 Employment, PM
»2026 Phase 1 (Without Link Road), AM
»2026 Phase 1 (Without Link Road), PM
»2026 Phase 1 (With Link Road), AM
»2026 Phase 1 (With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	0.0	9.68	0.01	0.0	7.19	0.01
Stream B-A	0.5	18.80	0.31	0.1	12.33	0.12
Stream C-AB	0.0	10.57	0.02	0.0	7.62	0.03
	2026 Do Minimum					
Stream B-C	0.0	10.09	0.02	0.0	7.38	0.01
Stream B-A	0.5	20.86	0.34	0.2	13.28	0.13
Stream C-AB	0.0	10.80	0.02	0.0	7.80	0.03
	2033 Do Minimum					
Stream B-C	0.0	10.93	0.02	0.0	7.59	0.01
Stream B-A	0.7	24.86	0.40	0.2	14.55	0.15
Stream C-AB	0.0	11.24	0.02	0.0	7.99	0.03
	2026 Residential Phase 1a					
Stream B-C	0.0	10.12	0.02	0.0	7.42	0.01
Stream B-A	0.5	21.11	0.35	0.2	13.43	0.14
Stream C-AB	0.0	10.82	0.02	0.0	7.83	0.03
	2033 Full Residential					
Stream B-C	0.0	12.66	0.03	0.0	7.44	0.02
Stream B-A	1.1	33.22	0.52	0.2	15.38	0.20
Stream C-AB	0.0	11.35	0.03	0.0	7.78	0.03
	2026 Employment					
Stream B-C	0.0	10.10	0.02	0.0	7.39	0.01
Stream B-A	0.5	20.94	0.35	0.2	13.29	0.13
Stream C-AB	0.0	10.81	0.02	0.0	7.81	0.03
	2026 Phase 1 (Without Link Road)					
Stream B-C	0.0	10.13	0.02	0.0	7.42	0.01
Stream B-A	0.5	21.18	0.35	0.2	13.47	0.14
Stream C-AB	0.0	10.83	0.02	0.0	7.84	0.03
	2026 Phase 1 (With Link Road)					
Stream B-C	0.0	10.24	0.02	0.0	7.00	0.01
Stream B-A	0.6	22.08	0.36	0.1	12.72	0.13
Stream C-AB	0.0	10.86	0.02	0.0	7.39	0.02
	2033 Full Development					
Stream B-C	0.0	12.69	0.03	0.0	7.45	0.02
Stream B-A	1.1	33.43	0.52	0.2	15.44	0.20
Stream C-AB	0.0	11.35	0.03	0.0	7.79	0.03

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	Pogmoor Road/Farmhouse Lane Junction
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2022 Base	PM	ONE HOUR	16:00	17:30	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:00	17:30	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:00	17:30	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:00	17:30	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:00	17:30	15	✓
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓
D12	2026 Employment	PM	ONE HOUR	16:00	17:30	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:45	09:15	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:00	17:30	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:45	09:15	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:00	17:30	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:00	17:30	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.11	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.11	A

Arms

Arms

Arm	Name	Description	Arm type
A	Pogmoor Road South		Major
B	Farmhouse Lane		Minor
C	Pogmoor Road East		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	7.50		✓	2.58	75.0	✓	2.80

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	5.00	3.50	3.20	3.10	✓	1.00	250	105

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	671	0.115	0.290	0.183	0.415
B-C	666	0.095	0.240	-	-
C-B	643	0.233	0.233	-	-

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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	960	100.000
B		ONE HOUR	✓	86	100.000
C		ONE HOUR	✓	445	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	69	891
	B	81	0	5
	C	437	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	3	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	9.68	0.0	A	5	7
B-A	0.31	18.80	0.5	C	74	111
C-AB	0.02	10.57	0.0	B	7	11
C-A					401	601
A-B					63	95
A-C					818	1226

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	479	0.008	4	0.0	0.0	7.566	A
B-A	61	15	408	0.149	60	0.0	0.2	10.642	B
C-AB	6	2	475	0.013	6	0.0	0.0	8.755	A
C-A	329	82			329				
A-B	52	13			52				
A-C	671	168			671				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	440	0.010	4	0.0	0.0	8.272	A
B-A	73	18	357	0.204	72	0.2	0.3	13.023	B
C-AB	7	2	442	0.016	7	0.0	0.0	9.438	A
C-A	393	98			393				
A-B	62	16			62				
A-C	801	200			801				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	378	0.015	5	0.0	0.0	9.666	A
B-A	89	22	286	0.312	88	0.3	0.5	18.666	C
C-AB	9	2	397	0.022	9	0.0	0.0	10.575	B
C-A	481	120			481				
A-B	76	19			76				
A-C	981	245			981				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	377	0.015	6	0.0	0.0	9.682	A
B-A	89	22	286	0.312	89	0.5	0.5	18.805	C
C-AB	9	2	397	0.022	9	0.0	0.0	10.575	B
C-A	481	120			481				
A-B	76	19			76				
A-C	981	245			981				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	439	0.010	5	0.0	0.0	8.284	A
B-A	73	18	357	0.204	74	0.5	0.3	13.121	B
C-AB	7	2	442	0.016	7	0.0	0.0	9.439	A
C-A	393	98			393				
A-B	62	16			62				
A-C	801	200			801				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	479	0.008	4	0.0	0.0	7.574	A
B-A	61	15	408	0.149	61	0.3	0.2	10.706	B
C-AB	6	2	475	0.013	6	0.0	0.0	8.759	A
C-A	329	82			329				
A-B	52	13			52				
A-C	671	168			671				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.40	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.40	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	2022 Base	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	618	100.000
B		ONE HOUR	✓	41	100.000
C		ONE HOUR	✓	757	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	77	541
	B	36	0	5
	C	746	11	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.19	0.0	A	5	7
B-A	0.12	12.33	0.1	B	33	50
C-AB	0.03	7.62	0.0	A	10	15
C-A					685	1027
A-B					71	106
A-C					496	745

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	563	0.007	4	0.0	0.0	6.440	A
B-A	27	7	438	0.062	27	0.0	0.1	8.755	A
C-AB	8	2	535	0.015	8	0.0	0.0	6.839	A
C-A	562	140			562				
A-B	58	14			58				
A-C	407	102			407				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	540	0.008	4	0.0	0.0	6.727	A
B-A	32	8	393	0.082	32	0.1	0.1	9.971	A
C-AB	10	2	514	0.019	10	0.0	0.0	7.146	A
C-A	671	168			671				
A-B	69	17			69				
A-C	486	122			486				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	506	0.011	5	0.0	0.0	7.185	A
B-A	40	10	332	0.120	39	0.1	0.1	12.312	B
C-AB	12	3	485	0.025	12	0.0	0.0	7.619	A
C-A	821	205			821				
A-B	85	21			85				
A-C	596	149			596				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	506	0.011	6	0.0	0.0	7.186	A
B-A	40	10	332	0.120	40	0.1	0.1	12.327	B
C-AB	12	3	485	0.025	12	0.0	0.0	7.619	A
C-A	821	205			821				
A-B	85	21			85				
A-C	596	149			596				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	539	0.008	5	0.0	0.0	6.732	A
B-A	32	8	393	0.082	33	0.1	0.1	9.984	A
C-AB	10	2	514	0.019	10	0.0	0.0	7.147	A
C-A	671	168			671				
A-B	69	17			69				
A-C	486	122			486				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	562	0.007	4	0.0	0.0	6.442	A
B-A	27	7	438	0.062	27	0.1	0.1	8.771	A
C-AB	8	2	535	0.015	8	0.0	0.0	6.842	A
C-A	562	140			562				
A-B	58	14			58				
A-C	407	102			407				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	992	100.000
B		ONE HOUR	✓	89	100.000
C		ONE HOUR	✓	486	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	72	920
	B	84	0	5
	C	478	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.09	0.0	B	5	7
B-A	0.34	20.86	0.5	C	77	116
C-AB	0.02	10.80	0.0	B	7	11
C-A					439	658
A-B					66	99
A-C					844	1266

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	472	0.008	4	0.0	0.0	7.681	A
B-A	63	16	396	0.160	62	0.0	0.2	10.989	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.861	A
C-A	360	90			360				
A-B	54	14			54				
A-C	693	173			693				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	430	0.010	4	0.0	0.0	8.451	A
B-A	76	19	342	0.221	75	0.2	0.3	13.722	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.585	A
C-A	430	107			430				
A-B	65	16			65				
A-C	827	207			827				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	363	0.015	5	0.0	0.0	10.065	B
B-A	92	23	268	0.345	92	0.3	0.5	20.649	C
C-AB	9	2	389	0.023	9	0.0	0.0	10.803	B
C-A	526	132			526				
A-B	79	20			79				
A-C	1013	253			1013				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	362	0.015	6	0.0	0.0	10.089	B
B-A	92	23	268	0.345	92	0.5	0.5	20.856	C
C-AB	9	2	389	0.023	9	0.0	0.0	10.803	B
C-A	526	132			526				
A-B	79	20			79				
A-C	1013	253			1013				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	430	0.010	5	0.0	0.0	8.469	A
B-A	76	19	342	0.221	76	0.5	0.3	13.857	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.587	A
C-A	430	107			430				
A-B	65	16			65				
A-C	827	207			827				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	472	0.008	4	0.0	0.0	7.692	A
B-A	63	16	396	0.160	64	0.3	0.2	11.068	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.865	A
C-A	360	90			360				
A-B	54	14			54				
A-C	693	173			693				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.42	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 Do Minimum	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	661	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	787	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	580
	B	38	0	5
	C	776	11	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.38	0.0	A	5	7
B-A	0.13	13.28	0.2	B	35	52
C-AB	0.03	7.80	0.0	A	10	15
C-A					712	1068
A-B					74	111
A-C					532	798

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	554	0.007	4	0.0	0.0	6.545	A
B-A	29	7	425	0.067	28	0.0	0.1	9.066	A
C-AB	8	2	527	0.016	8	0.0	0.0	6.938	A
C-A	584	146			584				
A-B	61	15			61				
A-C	437	109			437				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	529	0.009	4	0.0	0.0	6.864	A
B-A	34	9	378	0.090	34	0.1	0.1	10.462	B
C-AB	10	2	505	0.020	10	0.0	0.0	7.276	A
C-A	698	174			698				
A-B	73	18			73				
A-C	521	130			521				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	493	0.011	5	0.0	0.0	7.383	A
B-A	42	10	313	0.134	42	0.1	0.2	13.257	B
C-AB	12	3	473	0.026	12	0.0	0.0	7.802	A
C-A	854	214			854				
A-B	89	22			89				
A-C	639	160			639				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	493	0.011	6	0.0	0.0	7.385	A
B-A	42	10	313	0.134	42	0.2	0.2	13.278	B
C-AB	12	3	473	0.026	12	0.0	0.0	7.802	A
C-A	854	214			854				
A-B	89	22			89				
A-C	639	160			639				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	529	0.009	5	0.0	0.0	6.870	A
B-A	34	9	378	0.090	34	0.2	0.1	10.483	B
C-AB	10	2	505	0.020	10	0.0	0.0	7.277	A
C-A	698	174			698				
A-B	73	18			73				
A-C	521	130			521				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	554	0.007	4	0.0	0.0	6.547	A
B-A	29	7	425	0.067	29	0.1	0.1	9.086	A
C-AB	8	2	527	0.016	8	0.0	0.0	6.941	A
C-A	584	146			584				
A-B	61	15			61				
A-C	437	109			437				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.42	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	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1050	100.000
B		ONE HOUR	✓	94	100.000
C		ONE HOUR	✓	512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	76	974
	B	89	0	5
	C	504	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.93	0.0	B	5	7
B-A	0.40	24.86	0.7	C	82	123
C-AB	0.02	11.24	0.0	B	7	11
C-A					462	694
A-B					70	105
A-C					894	1341

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	460	0.008	4	0.0	0.0	7.893	A
B-A	67	17	380	0.176	66	0.0	0.2	11.660	B
C-AB	6	2	459	0.013	6	0.0	0.0	9.060	A
C-A	379	95			379				
A-B	57	14			57				
A-C	733	183			733				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	414	0.011	4	0.0	0.0	8.789	A
B-A	80	20	324	0.247	80	0.2	0.3	15.012	C
C-AB	7	2	423	0.017	7	0.0	0.0	9.865	A
C-A	453	113			453				
A-B	68	17			68				
A-C	876	219			876				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	336	0.016	5	0.0	0.0	10.879	B
B-A	98	24	246	0.399	97	0.3	0.6	24.466	C
C-AB	9	2	374	0.024	9	0.0	0.0	11.243	B
C-A	555	139			555				
A-B	84	21			84				
A-C	1072	268			1072				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	335	0.016	6	0.0	0.0	10.926	B
B-A	98	24	245	0.399	98	0.6	0.7	24.858	C
C-AB	9	2	374	0.024	9	0.0	0.0	11.243	B
C-A	555	139			555				
A-B	84	21			84				
A-C	1072	268			1072				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	413	0.011	5	0.0	0.0	8.814	A
B-A	80	20	324	0.247	81	0.7	0.3	15.228	C
C-AB	7	2	423	0.017	7	0.0	0.0	9.867	A
C-A	453	113			453				
A-B	68	17			68				
A-C	876	219			876				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	459	0.008	4	0.0	0.0	7.904	A
B-A	67	17	380	0.176	67	0.3	0.2	11.759	B
C-AB	6	2	459	0.013	6	0.0	0.0	9.064	A
C-A	379	95			379				
A-B	57	14			57				
A-C	733	183			733				

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.46	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 Do Minimum	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	699	100.000
B		ONE HOUR	✓	46	100.000
C		ONE HOUR	✓	833	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	86	613
	B	41	0	5
	C	821	12	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.59	0.0	A	5	7
B-A	0.15	14.55	0.2	B	38	56
C-AB	0.03	7.99	0.0	A	11	17
C-A					753	1130
A-B					79	118
A-C					562	844

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	545	0.007	4	0.0	0.0	6.647	A
B-A	31	8	411	0.075	31	0.0	0.1	9.446	A
C-AB	9	2	520	0.017	9	0.0	0.0	7.039	A
C-A	618	155			618				
A-B	65	16			65				
A-C	461	115			461				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	519	0.009	4	0.0	0.0	7.001	A
B-A	37	9	361	0.102	37	0.1	0.1	11.077	B
C-AB	11	3	497	0.022	11	0.0	0.0	7.408	A
C-A	738	185			738				
A-B	77	19			77				
A-C	551	138			551				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	480	0.011	5	0.0	0.0	7.588	A
B-A	45	11	293	0.154	45	0.1	0.2	14.517	B
C-AB	13	3	464	0.028	13	0.0	0.0	7.989	A
C-A	904	226			904				
A-B	95	24			95				
A-C	675	169			675				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	480	0.011	6	0.0	0.0	7.591	A
B-A	45	11	293	0.154	45	0.2	0.2	14.548	B
C-AB	13	3	464	0.028	13	0.0	0.0	7.989	A
C-A	904	226			904				
A-B	95	24			95				
A-C	675	169			675				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	518	0.009	5	0.0	0.0	7.007	A
B-A	37	9	361	0.102	37	0.2	0.1	11.107	B
C-AB	11	3	497	0.022	11	0.0	0.0	7.412	A
C-A	738	185			738				
A-B	77	19			77				
A-C	551	138			551				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	545	0.007	4	0.0	0.0	6.653	A
B-A	31	8	411	0.075	31	0.1	0.1	9.470	A
C-AB	9	2	520	0.017	9	0.0	0.0	7.042	A
C-A	618	155			618				
A-B	65	16			65				
A-C	461	115			461				

2026 Residential Phase 1a , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	994	100.000
B		ONE HOUR	✓	89	100.000
C		ONE HOUR	✓	493	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	72	922
	B	84	0	5
	C	485	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.12	0.0	B	5	7
B-A	0.35	21.11	0.5	C	77	116
C-AB	0.02	10.82	0.0	B	7	11
C-A					445	668
A-B					66	99
A-C					846	1269

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	472	0.008	4	0.0	0.0	7.688	A
B-A	63	16	394	0.160	62	0.0	0.2	11.036	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.868	A
C-A	365	91			365				
A-B	54	14			54				
A-C	694	174			694				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	430	0.010	4	0.0	0.0	8.463	A
B-A	76	19	341	0.222	75	0.2	0.3	13.808	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.595	A
C-A	436	109			436				
A-B	65	16			65				
A-C	829	207			829				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	362	0.015	5	0.0	0.0	10.096	B
B-A	92	23	266	0.347	92	0.3	0.5	20.869	C
C-AB	9	2	388	0.023	9	0.0	0.0	10.818	B
C-A	534	133			534				
A-B	79	20			79				
A-C	1015	254			1015				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	361	0.015	6	0.0	0.0	10.121	B
B-A	92	23	266	0.347	92	0.5	0.5	21.108	C
C-AB	9	2	388	0.023	9	0.0	0.0	10.818	B
C-A	534	133			534				
A-B	79	20			79				
A-C	1015	254			1015				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	429	0.010	5	0.0	0.0	8.479	A
B-A	76	19	341	0.222	76	0.5	0.3	13.944	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.596	A
C-A	436	109			436				
A-B	65	16			65				
A-C	829	207			829				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	471	0.008	4	0.0	0.0	7.699	A
B-A	63	16	394	0.160	64	0.3	0.2	11.113	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.872	A
C-A	365	91			365				
A-B	54	14			54				
A-C	694	174			694				

2026 Residential Phase 1a , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.42	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	2026 Residential Phase 1a	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	668	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	791	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	587
	B	38	0	5
	C	780	11	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.42	0.0	A	5	7
B-A	0.14	13.43	0.2	B	35	52
C-AB	0.03	7.83	0.0	A	10	15
C-A					716	1074
A-B					74	111
A-C					539	808

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	552	0.007	4	0.0	0.0	6.560	A
B-A	29	7	423	0.068	28	0.0	0.1	9.114	A
C-AB	8	2	526	0.016	8	0.0	0.0	6.954	A
C-A	587	147			587				
A-B	61	15			61				
A-C	442	110			442				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	527	0.009	4	0.0	0.0	6.885	A
B-A	34	9	376	0.091	34	0.1	0.1	10.538	B
C-AB	10	2	503	0.020	10	0.0	0.0	7.298	A
C-A	701	175			701				
A-B	73	18			73				
A-C	528	132			528				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	491	0.011	5	0.0	0.0	7.413	A
B-A	42	10	310	0.135	42	0.1	0.2	13.407	B
C-AB	12	3	472	0.026	12	0.0	0.0	7.832	A
C-A	859	215			859				
A-B	89	22			89				
A-C	646	162			646				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	491	0.011	6	0.0	0.0	7.416	A
B-A	42	10	310	0.135	42	0.2	0.2	13.428	B
C-AB	12	3	472	0.026	12	0.0	0.0	7.832	A
C-A	859	215			859				
A-B	89	22			89				
A-C	646	162			646				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	527	0.009	5	0.0	0.0	6.891	A
B-A	34	9	376	0.091	34	0.2	0.1	10.559	B
C-AB	10	2	503	0.020	10	0.0	0.0	7.298	A
C-A	701	175			701				
A-B	73	18			73				
A-C	528	132			528				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	552	0.007	4	0.0	0.0	6.566	A
B-A	29	7	423	0.068	29	0.1	0.1	9.134	A
C-AB	8	2	526	0.016	8	0.0	0.0	6.955	A
C-A	587	147			587				
A-B	61	15			61				
A-C	442	110			442				

2033 Full Residential , 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		2.14	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.14	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	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1071	100.000
B		ONE HOUR	✓	115	100.000
C		ONE HOUR	✓	568	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	990
	B	107	0	8
	C	559	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	3	13	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	12.66	0.0	B	7	11
B-A	0.52	33.22	1.1	D	98	147
C-AB	0.03	11.35	0.0	B	8	12
C-A					513	769
A-B					74	111
A-C					908	1363

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	451	0.013	6	0.0	0.0	8.081	A
B-A	81	20	368	0.219	79	0.0	0.3	12.682	B
C-AB	7	2	455	0.015	7	0.0	0.0	9.069	A
C-A	421	105			421				
A-B	61	15			61				
A-C	745	186			745				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	399	0.018	7	0.0	0.0	9.186	A
B-A	96	24	309	0.311	96	0.3	0.4	17.136	C
C-AB	8	2	419	0.019	8	0.0	0.0	9.905	A
C-A	503	126			503				
A-B	73	18			73				
A-C	890	222			890				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	297	0.030	9	0.0	0.0	12.490	B
B-A	118	29	228	0.517	116	0.4	1.0	32.066	D
C-AB	10	2	368	0.027	10	0.0	0.0	11.343	B
C-A	615	154			615				
A-B	89	22			89				
A-C	1090	273			1090				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	293	0.030	9	0.0	0.0	12.655	B
B-A	118	29	228	0.517	118	1.0	1.1	33.219	D
C-AB	10	2	368	0.027	10	0.0	0.0	11.345	B
C-A	615	154			615				
A-B	89	22			89				
A-C	1090	273			1090				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	397	0.018	7	0.0	0.0	9.246	A
B-A	96	24	309	0.311	99	1.1	0.5	17.616	C
C-AB	8	2	419	0.019	8	0.0	0.0	9.906	A
C-A	503	126			503				
A-B	73	18			73				
A-C	890	222			890				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	450	0.013	6	0.0	0.0	8.103	A
B-A	81	20	368	0.219	81	0.5	0.3	12.847	B
C-AB	7	2	455	0.015	7	0.0	0.0	9.072	A
C-A	421	105			421				
A-B	61	15			61				
A-C	745	186			745				

2033 Full Residential , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.59	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.59	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
D10	2033 Full Residential	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	639	100.000
B		ONE HOUR	✓	59	100.000
C		ONE HOUR	✓	948	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	105	534
	B	52	0	7
	C	933	15	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	7.44	0.0	A	6	10
B-A	0.20	15.38	0.2	C	48	72
C-AB	0.03	7.78	0.0	A	14	21
C-A					856	1284
A-B					96	145
A-C					490	735

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	556	0.009	5	0.0	0.0	6.531	A
B-A	39	10	410	0.095	39	0.0	0.1	9.679	A
C-AB	11	3	531	0.021	11	0.0	0.0	6.927	A
C-A	702	176			702				
A-B	79	20			79				
A-C	402	101			402				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	531	0.012	6	0.0	0.0	6.863	A
B-A	47	12	360	0.130	47	0.1	0.1	11.469	B
C-AB	13	3	509	0.026	13	0.0	0.0	7.261	A
C-A	839	210			839				
A-B	94	24			94				
A-C	480	120			480				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	492	0.016	8	0.0	0.0	7.432	A
B-A	57	14	291	0.197	57	0.1	0.2	15.336	C
C-AB	17	4	479	0.034	16	0.0	0.0	7.780	A
C-A	1027	257			1027				
A-B	116	29			116				
A-C	588	147			588				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	492	0.016	8	0.0	0.0	7.437	A
B-A	57	14	291	0.197	57	0.2	0.2	15.383	C
C-AB	17	4	479	0.034	17	0.0	0.0	7.780	A
C-A	1027	257			1027				
A-B	116	29			116				
A-C	588	147			588				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	530	0.012	6	0.0	0.0	6.871	A
B-A	47	12	360	0.130	47	0.2	0.2	11.509	B
C-AB	13	3	509	0.026	14	0.0	0.0	7.262	A
C-A	839	210			839				
A-B	94	24			94				
A-C	480	120			480				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	556	0.009	5	0.0	0.0	6.535	A
B-A	39	10	410	0.095	39	0.2	0.1	9.712	A
C-AB	11	3	531	0.021	11	0.0	0.0	6.927	A
C-A	702	176			702				
A-B	79	20			79				
A-C	402	101			402				

2026 Employment, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	993	100.000
B		ONE HOUR	✓	89	100.000
C		ONE HOUR	✓	488	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	72	921
	B	84	0	5
	C	480	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.10	0.0	B	5	7
B-A	0.35	20.94	0.5	C	77	116
C-AB	0.02	10.81	0.0	B	7	11
C-A					440	661
A-B					66	99
A-C					845	1268

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	472	0.008	4	0.0	0.0	7.685	A
B-A	63	16	395	0.160	62	0.0	0.2	11.006	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.864	A
C-A	361	90			361				
A-B	54	14			54				
A-C	693	173			693				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	430	0.010	4	0.0	0.0	8.456	A
B-A	76	19	342	0.221	75	0.2	0.3	13.752	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.590	A
C-A	432	108			432				
A-B	65	16			65				
A-C	828	207			828				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	363	0.015	5	0.0	0.0	10.078	B
B-A	92	23	268	0.345	92	0.3	0.5	20.733	C
C-AB	9	2	388	0.023	9	0.0	0.0	10.810	B
C-A	528	132			528				
A-B	79	20			79				
A-C	1014	254			1014				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	362	0.015	6	0.0	0.0	10.103	B
B-A	92	23	268	0.345	92	0.5	0.5	20.942	C
C-AB	9	2	388	0.023	9	0.0	0.0	10.810	B
C-A	528	132			528				
A-B	79	20			79				
A-C	1014	254			1014				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	429	0.010	5	0.0	0.0	8.474	A
B-A	76	19	342	0.221	76	0.5	0.3	13.886	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.593	A
C-A	432	108			432				
A-B	65	16			65				
A-C	828	207			828				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	472	0.008	4	0.0	0.0	7.694	A
B-A	63	16	395	0.160	64	0.3	0.2	11.084	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.868	A
C-A	361	90			361				
A-B	54	14			54				
A-C	693	173			693				

2026 Employment, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.42	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
D12	2026 Employment	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	662	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	787	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	581
	B	38	0	5
	C	776	11	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.39	0.0	A	5	7
B-A	0.13	13.29	0.2	B	35	52
C-AB	0.03	7.81	0.0	A	10	15
C-A					712	1068
A-B					74	111
A-C					533	800

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	554	0.007	4	0.0	0.0	6.547	A
B-A	29	7	425	0.067	28	0.0	0.1	9.071	A
C-AB	8	2	527	0.016	8	0.0	0.0	6.940	A
C-A	584	146			584				
A-B	61	15			61				
A-C	437	109			437				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	529	0.009	4	0.0	0.0	6.867	A
B-A	34	9	378	0.090	34	0.1	0.1	10.470	B
C-AB	10	2	504	0.020	10	0.0	0.0	7.279	A
C-A	698	174			698				
A-B	73	18			73				
A-C	522	131			522				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	493	0.011	5	0.0	0.0	7.387	A
B-A	42	10	313	0.134	42	0.1	0.2	13.273	B
C-AB	12	3	473	0.026	12	0.0	0.0	7.806	A
C-A	854	214			854				
A-B	89	22			89				
A-C	640	160			640				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	493	0.011	6	0.0	0.0	7.389	A
B-A	42	10	313	0.134	42	0.2	0.2	13.294	B
C-AB	12	3	473	0.026	12	0.0	0.0	7.806	A
C-A	854	214			854				
A-B	89	22			89				
A-C	640	160			640				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	528	0.009	5	0.0	0.0	6.870	A
B-A	34	9	378	0.090	34	0.2	0.1	10.489	B
C-AB	10	2	504	0.020	10	0.0	0.0	7.283	A
C-A	698	174			698				
A-B	73	18			73				
A-C	522	131			522				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	553	0.007	4	0.0	0.0	6.552	A
B-A	29	7	425	0.067	29	0.1	0.1	9.091	A
C-AB	8	2	527	0.016	8	0.0	0.0	6.944	A
C-A	584	146			584				
A-B	61	15			61				
A-C	437	109			437				

2026 Phase 1 (Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	995	100.000
B		ONE HOUR	✓	89	100.000
C		ONE HOUR	✓	495	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	72	923
	B	84	0	5
	C	487	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.13	0.0	B	5	7
B-A	0.35	21.18	0.5	C	77	116
C-AB	0.02	10.83	0.0	B	7	11
C-A					447	670
A-B					66	99
A-C					847	1270

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	472	0.008	4	0.0	0.0	7.692	A
B-A	63	16	394	0.161	62	0.0	0.2	11.052	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.871	A
C-A	367	92			367				
A-B	54	14			54				
A-C	695	174			695				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	430	0.010	4	0.0	0.0	8.468	A
B-A	76	19	340	0.222	75	0.2	0.3	13.839	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.600	A
C-A	438	109			438				
A-B	65	16			65				
A-C	830	207			830				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	362	0.015	5	0.0	0.0	10.109	B
B-A	92	23	266	0.348	92	0.3	0.5	20.969	C
C-AB	9	2	388	0.023	9	0.0	0.0	10.825	B
C-A	536	134			536				
A-B	79	20			79				
A-C	1016	254			1016				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	361	0.015	6	0.0	0.0	10.135	B
B-A	92	23	266	0.348	92	0.5	0.5	21.180	C
C-AB	9	2	388	0.023	9	0.0	0.0	10.825	B
C-A	536	134			536				
A-B	79	20			79				
A-C	1016	254			1016				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	429	0.010	5	0.0	0.0	8.486	A
B-A	76	19	340	0.222	76	0.5	0.3	13.979	B
C-AB	7	2	435	0.017	7	0.0	0.0	9.601	A
C-A	438	109			438				
A-B	65	16			65				
A-C	830	207			830				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	471	0.008	4	0.0	0.0	7.701	A
B-A	63	16	394	0.161	64	0.3	0.2	11.129	B
C-AB	6	2	469	0.013	6	0.0	0.0	8.873	A
C-A	367	92			367				
A-B	54	14			54				
A-C	695	174			695				

2026 Phase 1 (Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.42	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.42	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	670	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	792	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	589
	B	38	0	5
	C	781	11	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.42	0.0	A	5	7
B-A	0.14	13.47	0.2	B	35	52
C-AB	0.03	7.84	0.0	A	10	15
C-A					717	1075
A-B					74	111
A-C					540	811

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	552	0.007	4	0.0	0.0	6.565	A
B-A	29	7	422	0.068	28	0.0	0.1	9.127	A
C-AB	8	2	525	0.016	8	0.0	0.0	6.959	A
C-A	588	147			588				
A-B	61	15			61				
A-C	443	111			443				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	527	0.009	4	0.0	0.0	6.891	A
B-A	34	9	375	0.091	34	0.1	0.1	10.559	B
C-AB	10	2	503	0.020	10	0.0	0.0	7.304	A
C-A	702	176			702				
A-B	73	18			73				
A-C	529	132			529				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	490	0.011	5	0.0	0.0	7.422	A
B-A	42	10	309	0.135	42	0.1	0.2	13.449	B
C-AB	12	3	471	0.026	12	0.0	0.0	7.841	A
C-A	860	215			860				
A-B	89	22			89				
A-C	649	162			649				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	490	0.011	6	0.0	0.0	7.424	A
B-A	42	10	309	0.135	42	0.2	0.2	13.470	B
C-AB	12	3	471	0.026	12	0.0	0.0	7.841	A
C-A	860	215			860				
A-B	89	22			89				
A-C	649	162			649				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	527	0.009	5	0.0	0.0	6.897	A
B-A	34	9	375	0.091	34	0.2	0.1	10.581	B
C-AB	10	2	503	0.020	10	0.0	0.0	7.307	A
C-A	702	176			702				
A-B	73	18			73				
A-C	529	132			529				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	552	0.007	4	0.0	0.0	6.567	A
B-A	29	7	422	0.068	29	0.1	0.1	9.147	A
C-AB	8	2	525	0.016	8	0.0	0.0	6.962	A
C-A	588	147			588				
A-B	61	15			61				
A-C	443	111			443				

2026 Phase 1 (With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.24	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.24	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
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1000	100.000
B		ONE HOUR	✓	89	100.000
C		ONE HOUR	✓	522	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	72	928
	B	84	0	5
	C	514	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	14	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.24	0.0	B	5	7
B-A	0.36	22.08	0.6	C	77	116
C-AB	0.02	10.86	0.0	B	7	11
C-A					472	707
A-B					66	99
A-C					852	1277

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	471	0.008	4	0.0	0.0	7.711	A
B-A	63	16	389	0.163	62	0.0	0.2	11.205	B
C-AB	6	2	468	0.013	6	0.0	0.0	8.888	A
C-A	387	97			387				
A-B	54	14			54				
A-C	699	175			699				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	428	0.011	4	0.0	0.0	8.502	A
B-A	76	19	334	0.226	75	0.2	0.3	14.143	B
C-AB	7	2	434	0.017	7	0.0	0.0	9.623	A
C-A	462	116			462				
A-B	65	16			65				
A-C	834	209			834				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	358	0.015	5	0.0	0.0	10.208	B
B-A	92	23	259	0.358	91	0.3	0.5	21.832	C
C-AB	9	2	387	0.023	9	0.0	0.0	10.862	B
C-A	566	141			566				
A-B	79	20			79				
A-C	1022	255			1022				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	357	0.015	6	0.0	0.0	10.237	B
B-A	92	23	259	0.358	92	0.5	0.6	22.081	C
C-AB	9	2	387	0.023	9	0.0	0.0	10.862	B
C-A	566	141			566				
A-B	79	20			79				
A-C	1022	255			1022				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	427	0.011	5	0.0	0.0	8.522	A
B-A	76	19	334	0.226	77	0.6	0.3	14.297	B
C-AB	7	2	434	0.017	7	0.0	0.0	9.626	A
C-A	462	116			462				
A-B	65	16			65				
A-C	834	209			834				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	470	0.008	4	0.0	0.0	7.721	A
B-A	63	16	389	0.163	64	0.3	0.2	11.295	B
C-AB	6	2	468	0.013	6	0.0	0.0	8.892	A
C-A	387	97			387				
A-B	54	14			54				
A-C	699	175			699				

2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.40	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.40	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
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	561	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	887	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	480
	B	38	0	5
	C	876	11	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.00	0.0	A	5	7
B-A	0.13	12.72	0.1	B	35	52
C-AB	0.02	7.39	0.0	A	10	15
C-A					804	1206
A-B					74	111
A-C					440	661

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	572	0.007	4	0.0	0.0	6.335	A
B-A	29	7	433	0.066	28	0.0	0.1	8.886	A
C-AB	8	2	545	0.015	8	0.0	0.0	6.711	A
C-A	659	165			659				
A-B	61	15			61				
A-C	361	90			361				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	551	0.008	4	0.0	0.0	6.591	A
B-A	34	9	388	0.088	34	0.1	0.1	10.177	B
C-AB	10	2	526	0.019	10	0.0	0.0	6.981	A
C-A	788	197			788				
A-B	73	18			73				
A-C	432	108			432				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	520	0.011	5	0.0	0.0	7.000	A
B-A	42	10	325	0.129	42	0.1	0.1	12.707	B
C-AB	12	3	499	0.024	12	0.0	0.0	7.390	A
C-A	964	241			964				
A-B	89	22			89				
A-C	528	132			528				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	520	0.011	6	0.0	0.0	7.002	A
B-A	42	10	325	0.129	42	0.1	0.1	12.725	B
C-AB	12	3	499	0.024	12	0.0	0.0	7.390	A
C-A	964	241			964				
A-B	89	22			89				
A-C	528	132			528				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	550	0.008	5	0.0	0.0	6.594	A
B-A	34	9	388	0.088	34	0.1	0.1	10.197	B
C-AB	10	2	526	0.019	10	0.0	0.0	6.981	A
C-A	788	197			788				
A-B	73	18			73				
A-C	432	108			432				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	572	0.007	4	0.0	0.0	6.340	A
B-A	29	7	433	0.066	29	0.1	0.1	8.903	A
C-AB	8	2	545	0.015	8	0.0	0.0	6.712	A
C-A	659	165			659				
A-B	61	15			61				
A-C	361	90			361				

2033 Full Development, 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		2.15	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.15	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1072	100.000
B		ONE HOUR	✓	115	100.000
C		ONE HOUR	✓	570	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	991
	B	107	0	8
	C	561	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	2	0	0
	C	4	13	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	12.69	0.0	B	7	11
B-A	0.52	33.43	1.1	D	98	147
C-AB	0.03	11.35	0.0	B	8	12
C-A					515	772
A-B					74	111
A-C					909	1364

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	451	0.013	6	0.0	0.0	8.085	A
B-A	81	20	367	0.219	79	0.0	0.3	12.704	B
C-AB	7	2	455	0.015	7	0.0	0.0	9.073	A
C-A	422	106			422				
A-B	61	15			61				
A-C	746	187			746				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	399	0.018	7	0.0	0.0	9.194	A
B-A	96	24	309	0.312	96	0.3	0.5	17.184	C
C-AB	8	2	419	0.019	8	0.0	0.0	9.910	A
C-A	504	126			504				
A-B	73	18			73				
A-C	891	223			891				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	296	0.030	9	0.0	0.0	12.525	B
B-A	118	29	227	0.519	116	0.5	1.0	32.257	D
C-AB	10	2	368	0.027	10	0.0	0.0	11.351	B
C-A	618	154			618				
A-B	89	22			89				
A-C	1091	273			1091				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	292	0.030	9	0.0	0.0	12.694	B
B-A	118	29	227	0.519	118	1.0	1.1	33.435	D
C-AB	10	2	368	0.027	10	0.0	0.0	11.353	B
C-A	618	154			618				
A-B	89	22			89				
A-C	1091	273			1091				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	396	0.018	7	0.0	0.0	9.256	A
B-A	96	24	309	0.312	99	1.1	0.5	17.669	C
C-AB	8	2	419	0.019	8	0.0	0.0	9.913	A
C-A	504	126			504				
A-B	73	18			73				
A-C	891	223			891				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	450	0.013	6	0.0	0.0	8.106	A
B-A	81	20	367	0.219	81	0.5	0.3	12.869	B
C-AB	7	2	455	0.015	7	0.0	0.0	9.075	A
C-A	422	106			422				
A-B	61	15			61				
A-C	746	187			746				

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.59	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.59	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
D18	2033 Full Development	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	641	100.000
B		ONE HOUR	✓	59	100.000
C		ONE HOUR	✓	949	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	105	536
	B	52	0	7
	C	934	15	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	7.45	0.0	A	6	10
B-A	0.20	15.44	0.2	C	48	72
C-AB	0.03	7.79	0.0	A	14	21
C-A					857	1286
A-B					96	145
A-C					492	738

Main Results for each time segment

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	556	0.009	5	0.0	0.0	6.536	A
B-A	39	10	410	0.096	39	0.0	0.1	9.694	A
C-AB	11	3	531	0.021	11	0.0	0.0	6.931	A
C-A	703	176			703				
A-B	79	20			79				
A-C	404	101			404				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	530	0.012	6	0.0	0.0	6.869	A
B-A	47	12	360	0.130	47	0.1	0.1	11.494	B
C-AB	13	3	509	0.027	13	0.0	0.0	7.267	A
C-A	840	210			840				
A-B	94	24			94				
A-C	482	120			482				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	491	0.016	8	0.0	0.0	7.442	A
B-A	57	14	290	0.197	57	0.1	0.2	15.391	C
C-AB	17	4	479	0.035	16	0.0	0.0	7.789	A
C-A	1028	257			1028				
A-B	116	29			116				
A-C	590	148			590				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	491	0.016	8	0.0	0.0	7.446	A
B-A	57	14	290	0.197	57	0.2	0.2	15.438	C
C-AB	17	4	479	0.035	17	0.0	0.0	7.789	A
C-A	1028	257			1028				
A-B	116	29			116				
A-C	590	148			590				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	530	0.012	6	0.0	0.0	6.874	A
B-A	47	12	360	0.130	47	0.2	0.2	11.535	B
C-AB	13	3	509	0.027	14	0.0	0.0	7.271	A
C-A	840	210			840				
A-B	94	24			94				
A-C	482	120			482				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	5	1	556	0.009	5	0.0	0.0	6.543	A
B-A	39	10	410	0.096	39	0.2	0.1	9.727	A
C-AB	11	3	531	0.021	11	0.0	0.0	6.932	A
C-A	703	176			703				
A-B	79	20			79				
A-C	404	101			404				

Appendix J-18

Junctions 10 Output – Farmhouse Lane / Wharfedale Road

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: Farmhouse Lane - Wharfedale Road Junction.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Farmhouse Lane - Wharfedale Road Junction
Report generation date: 09/11/2023 14:42:16

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a, PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment , AM
»2026 Employment , PM
»2026 Phase 1(Without Link Road), AM
»2026 Phase 1(Without Link Road), PM
»2026 Phase 1(With Link Road), AM
»2026 Phase 1(With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	0.0	5.47	0.02	0.0	5.30	0.02
Stream C-AB	0.0	5.90	0.03	0.0	6.06	0.03
	2026 Do Minimum					
Stream B-AC	0.0	5.48	0.02	0.0	5.31	0.02
Stream C-AB	0.0	5.89	0.03	0.0	6.06	0.03
	2033 Do Minimum					
Stream B-AC	0.0	5.48	0.03	0.0	5.32	0.02
Stream C-AB	0.0	5.89	0.03	0.0	6.06	0.03
	2026 Residential Phase 1a					
Stream B-AC	0.0	5.48	0.02	0.0	5.31	0.02
Stream C-AB	0.0	5.89	0.03	0.0	6.06	0.03
	2033 Full Residential					
Stream B-AC	0.1	6.30	0.08	0.1	6.02	0.06
Stream C-AB	0.1	5.92	0.04	0.1	6.26	0.06
	2026 Employment					
Stream B-AC	0.0	5.48	0.02	0.0	5.31	0.02
Stream C-AB	0.0	5.89	0.03	0.0	6.06	0.03
	2026 Phase 1(Without Link Road)					
Stream B-AC	0.0	5.48	0.02	0.0	5.31	0.02
Stream C-AB	0.0	5.89	0.03	0.0	6.06	0.03
	2026 Phase 1(With Link Road)					
Stream B-AC	0.0	5.48	0.02	0.0	5.31	0.02
Stream C-AB	0.0	5.89	0.03	0.0	6.06	0.03
	2033 Full Development					
Stream B-AC	0.1	6.30	0.08	0.1	6.02	0.06
Stream C-AB	0.1	5.92	0.04	0.1	6.26	0.06

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	Farmhouse Lane/Wharfedale Road Junction
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2022 Base	PM	ONE HOUR	14:45	16:15	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	14:45	16:15	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	14:45	16:15	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	14:45	16:15	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓
D10	2033 Full Residential	PM	ONE HOUR	14:45	16:15	15	✓
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓
D12	2026 Employment	PM	ONE HOUR	14:45	16:15	15	✓
D13	2026 Phase 1(Without Link Road)	AM	ONE HOUR	07:45	09:15	15	✓
D14	2026 Phase 1(Without Link Road)	PM	ONE HOUR	14:45	16:15	15	✓
D15	2026 Phase 1(With Link Road)	AM	ONE HOUR	07:45	09:15	15	✓
D16	2026 Phase 1(With Link Road)	PM	ONE HOUR	14:45	16:15	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓
D18	2033 Full Development	PM	ONE HOUR	14:45	16:15	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.04	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.04	A

Arms

Arms

Arm	Name	Description	Arm type
A	Farmhouse Lane (East)		Major
B	Farmhouse Lane (West)		Minor
C	Wharfedale Road		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.55			40.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.14	85	74

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	604	0.098	0.248	0.156	0.354
B-C	747	0.111	0.282	-	-
C-B	597	0.216	0.216	-	-

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	2022 Base	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	72	100.000
B		ONE HOUR	✓	15	100.000
C		ONE HOUR	✓	94	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	68
	B	4	0	11
	C	78	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.47	0.0	A	14	21
C-AB	0.03	5.90	0.0	A	17	25
C-A					70	104
A-B					4	6
A-C					62	94

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	11	3	683	0.017	11	0.0	0.0	5.357	A
C-AB	13	3	625	0.021	13	0.0	0.0	5.900	A
C-A	57	14			57				
A-B	3	0.75			3				
A-C	51	13			51				

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	13	3	679	0.020	13	0.0	0.0	5.405	A
C-AB	16	4	631	0.026	16	0.0	0.0	5.876	A
C-A	68	17			68				
A-B	4	0.90			4				
A-C	61	15			61				

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	17	4	674	0.024	16	0.0	0.0	5.472	A
C-AB	20	5	638	0.032	20	0.0	0.0	5.847	A
C-A	83	21			83				
A-B	4	1			4				
A-C	75	19			75				

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	17	4	674	0.024	17	0.0	0.0	5.472	A
C-AB	20	5	638	0.032	20	0.0	0.0	5.849	A
C-A	83	21			83				
A-B	4	1			4				
A-C	75	19			75				

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	13	3	679	0.020	14	0.0	0.0	5.405	A
C-AB	16	4	631	0.026	16	0.0	0.0	5.883	A
C-A	68	17			68				
A-B	4	0.90			4				
A-C	61	15			61				

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	11	3	683	0.017	11	0.0	0.0	5.357	A
C-AB	13	3	625	0.021	13	0.0	0.0	5.902	A
C-A	57	14			57				
A-B	3	0.75			3				
A-C	51	13			51				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.09	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.09	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	2022 Base	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	82	100.000
B		ONE HOUR	✓	13	100.000
C		ONE HOUR	✓	65	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	77
	B	2	0	11
	C	49	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.30	0.0	A	12	18
C-AB	0.03	6.06	0.0	A	16	24
C-A					44	66
A-B					5	7
A-C					71	106

Main Results for each time segment

14:45 - 15:00

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	10	2	702	0.014	10	0.0	0.0	5.201	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.047	A
C-A	36	9			36				
A-B	4	0.94			4				
A-C	58	14			58				

15:00 - 15:15

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	12	3	698	0.017	12	0.0	0.0	5.243	A
C-AB	16	4	611	0.025	15	0.0	0.0	6.052	A
C-A	43	11			43				
A-B	4	1			4				
A-C	69	17			69				

15:15 - 15:30

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	14	4	693	0.021	14	0.0	0.0	5.302	A
C-AB	19	5	614	0.031	19	0.0	0.0	6.059	A
C-A	52	13			52				
A-B	6	1			6				
A-C	85	21			85				

15:30 - 15:45

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	14	4	693	0.021	14	0.0	0.0	5.302	A
C-AB	19	5	614	0.031	19	0.0	0.0	6.060	A
C-A	52	13			52				
A-B	6	1			6				
A-C	85	21			85				

15:45 - 16:00

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	12	3	698	0.017	12	0.0	0.0	5.245	A
C-AB	16	4	611	0.025	16	0.0	0.0	6.057	A
C-A	43	11			43				
A-B	4	1			4				
A-C	69	17			69				

16:00 - 16:15

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	10	2	702	0.014	10	0.0	0.0	5.203	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.049	A
C-A	36	9			36				
A-B	4	0.94			4				
A-C	58	14			58				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	75	100.000
B		ONE HOUR	✓	15	100.000
C		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	71
	B	4	0	11
	C	81	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.48	0.0	A	14	21
C-AB	0.03	5.89	0.0	A	17	25
C-A					72	108
A-B					4	6
A-C					65	98

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.891	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

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	13	3	679	0.020	13	0.0	0.0	5.412	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.865	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	17	4	673	0.025	16	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.834	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	17	4	673	0.025	17	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.836	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	13	3	679	0.020	14	0.0	0.0	5.414	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.873	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.893	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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 Do Minimum	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	13	100.000
C		ONE HOUR	✓	67	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	80
	B	2	0	11
	C	51	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.31	0.0	A	12	18
C-AB	0.03	6.06	0.0	A	16	24
C-A					46	68
A-B					5	7
A-C					73	110

Main Results for each time segment

14:45 - 15:00

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	10	2	701	0.014	10	0.0	0.0	5.206	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.042	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

15:00 - 15:15

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	12	3	697	0.017	12	0.0	0.0	5.249	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.046	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

15:15 - 15:30

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.052	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:30 - 15:45

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.056	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:45 - 16:00

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	12	3	697	0.017	12	0.0	0.0	5.251	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.049	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

16:00 - 16:15

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	10	2	701	0.014	10	0.0	0.0	5.208	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.046	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.02	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.02	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2033 Do Minimum	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	79	100.000
B		ONE HOUR	✓	16	100.000
C		ONE HOUR	✓	103	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	75
	B	4	0	12
	C	86	17	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	5.48	0.0	A	15	22
C-AB	0.03	5.89	0.0	A	18	27
C-A					77	115
A-B					4	6
A-C					69	103

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	12	3	684	0.018	12	0.0	0.0	5.355	A
C-AB	14	4	628	0.023	14	0.0	0.0	5.882	A
C-A	63	16			63				
A-B	3	0.75			3				
A-C	56	14			56				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	14	4	680	0.021	14	0.0	0.0	5.406	A
C-AB	17	4	634	0.027	17	0.0	0.0	5.856	A
C-A	75	19			75				
A-B	4	0.90			4				
A-C	67	17			67				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	4	674	0.026	18	0.0	0.0	5.479	A
C-AB	22	5	643	0.034	22	0.0	0.0	5.822	A
C-A	91	23			91				
A-B	4	1			4				
A-C	83	21			83				

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	18	4	674	0.026	18	0.0	0.0	5.479	A
C-AB	22	5	643	0.034	22	0.0	0.0	5.827	A
C-A	91	23			91				
A-B	4	1			4				
A-C	83	21			83				

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	14	4	680	0.021	14	0.0	0.0	5.409	A
C-AB	17	4	634	0.027	17	0.0	0.0	5.863	A
C-A	75	19			75				
A-B	4	0.90			4				
A-C	67	17			67				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	684	0.018	12	0.0	0.0	5.355	A
C-AB	14	4	628	0.023	14	0.0	0.0	5.887	A
C-A	63	16			63				
A-B	3	0.75			3				
A-C	56	14			56				

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 Do Minimum	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	90	100.000
B		ONE HOUR	✓	14	100.000
C		ONE HOUR	✓	71	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	85
	B	2	0	12
	C	54	17	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.32	0.0	A	13	19
C-AB	0.03	6.06	0.0	A	17	26
C-A					48	72
A-B					5	7
A-C					78	117

Main Results for each time segment

14:45 - 15:00

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	11	3	702	0.015	10	0.0	0.0	5.206	A
C-AB	14	3	610	0.022	14	0.0	0.0	6.044	A
C-A	40	10			40				
A-B	4	0.94			4				
A-C	64	16			64				

15:00 - 15:15

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	13	3	698	0.018	13	0.0	0.0	5.252	A
C-AB	17	4	613	0.027	17	0.0	0.0	6.048	A
C-A	47	12			47				
A-B	4	1			4				
A-C	76	19			76				

15:15 - 15:30

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	15	4	692	0.022	15	0.0	0.0	5.316	A
C-AB	21	5	616	0.034	21	0.0	0.0	6.055	A
C-A	57	14			57				
A-B	6	1			6				
A-C	94	23			94				

15:30 - 15:45

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	15	4	692	0.022	15	0.0	0.0	5.316	A
C-AB	21	5	616	0.034	21	0.0	0.0	6.057	A
C-A	57	14			57				
A-B	6	1			6				
A-C	94	23			94				

15:45 - 16:00

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	13	3	698	0.018	13	0.0	0.0	5.254	A
C-AB	17	4	613	0.027	17	0.0	0.0	6.051	A
C-A	47	12			47				
A-B	4	1			4				
A-C	76	19			76				

16:00 - 16:15

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	11	3	702	0.015	11	0.0	0.0	5.206	A
C-AB	14	3	610	0.022	14	0.0	0.0	6.046	A
C-A	40	10			40				
A-B	4	0.94			4				
A-C	64	16			64				

2026 Residential Phase 1a, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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	2026 Residential Phase 1a	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	75	100.000
B		ONE HOUR	✓	15	100.000
C		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	71
	B	4	0	11
	C	81	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.48	0.0	A	14	21
C-AB	0.03	5.89	0.0	A	17	25
C-A					72	108
A-B					4	6
A-C					65	98

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.891	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

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	13	3	679	0.020	13	0.0	0.0	5.412	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.865	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	17	4	673	0.025	16	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.834	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	17	4	673	0.025	17	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.836	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	13	3	679	0.020	14	0.0	0.0	5.414	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.873	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.893	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

2026 Residential Phase 1a, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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	2026 Residential Phase 1a	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	13	100.000
C		ONE HOUR	✓	67	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	80
	B	2	0	11
	C	51	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.31	0.0	A	12	18
C-AB	0.03	6.06	0.0	A	16	24
C-A					46	68
A-B					5	7
A-C					73	110

Main Results for each time segment

14:45 - 15:00

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	10	2	701	0.014	10	0.0	0.0	5.206	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.042	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

15:00 - 15:15

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	12	3	697	0.017	12	0.0	0.0	5.249	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.046	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

15:15 - 15:30

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.052	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:30 - 15:45

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.056	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:45 - 16:00

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	12	3	697	0.017	12	0.0	0.0	5.251	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.049	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

16:00 - 16:15

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	10	2	701	0.014	10	0.0	0.0	5.208	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.046	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

2033 Full Residential, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.83	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
D9	2033 Full Residential	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	48	100.000
C		ONE HOUR	✓	106	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	75
	B	26	0	22
	C	86	20	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	6.30	0.1	A	44	66
C-AB	0.04	5.92	0.1	A	21	32
C-A					76	114
A-B					9	14
A-C					69	103

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	36	9	636	0.057	36	0.0	0.1	5.993	A
C-AB	17	4	627	0.027	17	0.0	0.0	5.915	A
C-A	63	16			63				
A-B	8	2			8				
A-C	56	14			56				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	43	11	631	0.068	43	0.1	0.1	6.122	A
C-AB	20	5	633	0.032	20	0.0	0.0	5.896	A
C-A	75	19			75				
A-B	9	2			9				
A-C	67	17			67				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	53	13	624	0.085	53	0.1	0.1	6.301	A
C-AB	26	6	641	0.040	26	0.0	0.1	5.872	A
C-A	91	23			91				
A-B	11	3			11				
A-C	83	21			83				

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	53	13	624	0.085	53	0.1	0.1	6.301	A
C-AB	26	6	641	0.040	26	0.1	0.1	5.877	A
C-A	91	23			91				
A-B	11	3			11				
A-C	83	21			83				

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	43	11	631	0.068	43	0.1	0.1	6.124	A
C-AB	21	5	633	0.032	21	0.1	0.0	5.901	A
C-A	75	19			75				
A-B	9	2			9				
A-C	67	17			67				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	636	0.057	36	0.1	0.1	6.002	A
C-AB	17	4	627	0.027	17	0.0	0.0	5.919	A
C-A	63	16			63				
A-B	8	2			8				
A-C	56	14			56				

2033 Full Residential, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.71	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
D10	2033 Full Residential	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	113	100.000
B		ONE HOUR	✓	33	100.000
C		ONE HOUR	✓	82	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	28	85
	B	15	0	18
	C	54	28	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.02	0.1	A	30	45
C-AB	0.06	6.26	0.1	A	28	42
C-A					47	71
A-B					26	39
A-C					78	117

Main Results for each time segment

14:45 - 15:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	647	0.038	25	0.0	0.0	5.782	A
C-AB	23	6	606	0.037	22	0.0	0.0	6.171	A
C-A	39	10			39				
A-B	21	5			21				
A-C	64	16			64				

15:00 - 15:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	642	0.046	30	0.0	0.0	5.880	A
C-AB	27	7	608	0.045	27	0.0	0.1	6.205	A
C-A	46	12			46				
A-B	25	6			25				
A-C	76	19			76				

15:15 - 15:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.0	0.1	6.018	A
C-AB	34	9	611	0.056	34	0.1	0.1	6.252	A
C-A	56	14			56				
A-B	31	8			31				
A-C	94	23			94				

15:30 - 15:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.1	0.1	6.018	A
C-AB	34	9	611	0.056	34	0.1	0.1	6.256	A
C-A	56	14			56				
A-B	31	8			31				
A-C	94	23			94				

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	642	0.046	30	0.1	0.0	5.881	A
C-AB	27	7	608	0.045	27	0.1	0.1	6.209	A
C-A	46	12			46				
A-B	25	6			25				
A-C	76	19			76				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	647	0.038	25	0.0	0.0	5.785	A
C-AB	23	6	606	0.037	23	0.1	0.0	6.176	A
C-A	39	10			39				
A-B	21	5			21				
A-C	64	16			64				

2026 Employment , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D11	2026 Employment	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	75	100.000
B		ONE HOUR	✓	15	100.000
C		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	71
	B	4	0	11
	C	81	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.48	0.0	A	14	21
C-AB	0.03	5.89	0.0	A	17	25
C-A					72	108
A-B					4	6
A-C					65	98

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.891	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

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	13	3	679	0.020	13	0.0	0.0	5.412	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.865	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	17	4	673	0.025	16	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.834	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	17	4	673	0.025	17	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.836	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	13	3	679	0.020	14	0.0	0.0	5.414	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.873	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.893	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

2026 Employment , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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
D12	2026 Employment	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	13	100.000
C		ONE HOUR	✓	67	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	80
	B	2	0	11
	C	51	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.31	0.0	A	12	18
C-AB	0.03	6.06	0.0	A	16	24
C-A					46	68
A-B					5	7
A-C					73	110

Main Results for each time segment

14:45 - 15:00

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	10	2	701	0.014	10	0.0	0.0	5.206	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.042	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

15:00 - 15:15

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	12	3	697	0.017	12	0.0	0.0	5.249	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.046	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

15:15 - 15:30

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.052	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:30 - 15:45

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.056	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:45 - 16:00

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	12	3	697	0.017	12	0.0	0.0	5.251	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.049	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

16:00 - 16:15

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	10	2	701	0.014	10	0.0	0.0	5.208	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.046	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

2026 Phase 1(Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D13	2026 Phase 1(Without Link Road)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	75	100.000
B		ONE HOUR	✓	15	100.000
C		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	71
	B	4	0	11
	C	81	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.48	0.0	A	14	21
C-AB	0.03	5.89	0.0	A	17	25
C-A					72	108
A-B					4	6
A-C					65	98

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.891	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

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	13	3	679	0.020	13	0.0	0.0	5.412	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.865	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	17	4	673	0.025	16	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.834	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	17	4	673	0.025	17	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.836	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	13	3	679	0.020	14	0.0	0.0	5.414	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.873	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.893	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

2026 Phase 1(Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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
D14	2026 Phase 1(Without Link Road)	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	13	100.000
C		ONE HOUR	✓	67	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	80
	B	2	0	11
	C	51	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.31	0.0	A	12	18
C-AB	0.03	6.06	0.0	A	16	24
C-A					46	68
A-B					5	7
A-C					73	110

Main Results for each time segment

14:45 - 15:00

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	10	2	701	0.014	10	0.0	0.0	5.206	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.042	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

15:00 - 15:15

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	12	3	697	0.017	12	0.0	0.0	5.249	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.046	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

15:15 - 15:30

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.052	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:30 - 15:45

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.056	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:45 - 16:00

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	12	3	697	0.017	12	0.0	0.0	5.251	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.049	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

16:00 - 16:15

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	10	2	701	0.014	10	0.0	0.0	5.208	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.046	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

2026 Phase 1(With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D15	2026 Phase 1(With Link Road)	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	75	100.000
B		ONE HOUR	✓	15	100.000
C		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	71
	B	4	0	11
	C	81	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.48	0.0	A	14	21
C-AB	0.03	5.89	0.0	A	17	25
C-A					72	108
A-B					4	6
A-C					65	98

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.891	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

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	13	3	679	0.020	13	0.0	0.0	5.412	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.865	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	17	4	673	0.025	16	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.834	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	17	4	673	0.025	17	0.0	0.0	5.481	A
C-AB	20	5	640	0.032	20	0.0	0.0	5.836	A
C-A	86	22			86				
A-B	4	1			4				
A-C	78	20			78				

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	13	3	679	0.020	14	0.0	0.0	5.414	A
C-AB	16	4	632	0.026	16	0.0	0.0	5.873	A
C-A	71	18			71				
A-B	4	0.90			4				
A-C	64	16			64				

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	11	3	682	0.017	11	0.0	0.0	5.363	A
C-AB	13	3	626	0.021	13	0.0	0.0	5.893	A
C-A	60	15			60				
A-B	3	0.75			3				
A-C	53	13			53				

2026 Phase 1(With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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
D16	2026 Phase 1(With Link Road)	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	13	100.000
C		ONE HOUR	✓	67	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	80
	B	2	0	11
	C	51	16	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	5.31	0.0	A	12	18
C-AB	0.03	6.06	0.0	A	16	24
C-A					46	68
A-B					5	7
A-C					73	110

Main Results for each time segment

14:45 - 15:00

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	10	2	701	0.014	10	0.0	0.0	5.206	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.042	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

15:00 - 15:15

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	12	3	697	0.017	12	0.0	0.0	5.249	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.046	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

15:15 - 15:30

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.052	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:30 - 15:45

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	14	4	692	0.021	14	0.0	0.0	5.310	A
C-AB	19	5	615	0.032	19	0.0	0.0	6.056	A
C-A	54	14			54				
A-B	6	1			6				
A-C	88	22			88				

15:45 - 16:00

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	12	3	697	0.017	12	0.0	0.0	5.251	A
C-AB	16	4	612	0.025	16	0.0	0.0	6.049	A
C-A	45	11			45				
A-B	4	1			4				
A-C	72	18			72				

16:00 - 16:15

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	10	2	701	0.014	10	0.0	0.0	5.208	A
C-AB	13	3	609	0.021	13	0.0	0.0	6.046	A
C-A	38	9			38				
A-B	4	0.94			4				
A-C	60	15			60				

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.83	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
D17	2033 Full Development	AM	ONE HOUR	07:45	09:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	85	100.000
B		ONE HOUR	✓	48	100.000
C		ONE HOUR	✓	106	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	75
	B	26	0	22
	C	86	20	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	6.30	0.1	A	44	66
C-AB	0.04	5.92	0.1	A	21	32
C-A					76	114
A-B					9	14
A-C					69	103

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	36	9	636	0.057	36	0.0	0.1	5.993	A
C-AB	17	4	627	0.027	17	0.0	0.0	5.915	A
C-A	63	16			63				
A-B	8	2			8				
A-C	56	14			56				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	43	11	631	0.068	43	0.1	0.1	6.122	A
C-AB	20	5	633	0.032	20	0.0	0.0	5.896	A
C-A	75	19			75				
A-B	9	2			9				
A-C	67	17			67				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	53	13	624	0.085	53	0.1	0.1	6.301	A
C-AB	26	6	641	0.040	26	0.0	0.1	5.872	A
C-A	91	23			91				
A-B	11	3			11				
A-C	83	21			83				

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	53	13	624	0.085	53	0.1	0.1	6.301	A
C-AB	26	6	641	0.040	26	0.1	0.1	5.877	A
C-A	91	23			91				
A-B	11	3			11				
A-C	83	21			83				

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	43	11	631	0.068	43	0.1	0.1	6.124	A
C-AB	21	5	633	0.032	21	0.1	0.0	5.901	A
C-A	75	19			75				
A-B	9	2			9				
A-C	67	17			67				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	636	0.057	36	0.1	0.1	6.002	A
C-AB	17	4	627	0.027	17	0.0	0.0	5.919	A
C-A	63	16			63				
A-B	8	2			8				
A-C	56	14			56				

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.71	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
D18	2033 Full Development	PM	ONE HOUR	14:45	16:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	113	100.000
B		ONE HOUR	✓	33	100.000
C		ONE HOUR	✓	82	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	28	85
	B	15	0	18
	C	54	28	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.02	0.1	A	30	45
C-AB	0.06	6.26	0.1	A	28	42
C-A					47	71
A-B					26	39
A-C					78	117

Main Results for each time segment

14:45 - 15:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	647	0.038	25	0.0	0.0	5.782	A
C-AB	23	6	606	0.037	22	0.0	0.0	6.171	A
C-A	39	10			39				
A-B	21	5			21				
A-C	64	16			64				

15:00 - 15:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	642	0.046	30	0.0	0.0	5.880	A
C-AB	27	7	608	0.045	27	0.0	0.1	6.205	A
C-A	46	12			46				
A-B	25	6			25				
A-C	76	19			76				

15:15 - 15:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.0	0.1	6.018	A
C-AB	34	9	611	0.056	34	0.1	0.1	6.252	A
C-A	56	14			56				
A-B	31	8			31				
A-C	94	23			94				

15:30 - 15:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.1	0.1	6.018	A
C-AB	34	9	611	0.056	34	0.1	0.1	6.256	A
C-A	56	14			56				
A-B	31	8			31				
A-C	94	23			94				

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	642	0.046	30	0.1	0.0	5.881	A
C-AB	27	7	608	0.045	27	0.1	0.1	6.209	A
C-A	46	12			46				
A-B	25	6			25				
A-C	76	19			76				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	647	0.038	25	0.0	0.0	5.785	A
C-AB	23	6	606	0.037	23	0.1	0.0	6.176	A
C-A	39	10			39				
A-B	21	5			21				
A-C	64	16			64				

Appendix J-19

Junctions 10 Output – A635 / Church Street / Silkstone Lane

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: A635-Church Street-Silkstone Lane.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\A635 - Church Street - Silkstone Lane Junctions
Report generation date: 09/11/2023 15:14:24

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a , PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment, AM
»2026 Employment, PM
»2026 Phase 1 (Without Link Road), AM
»2026 Phase 1 (Without Link Road), PM
»2026 Phase 1 (With Link Road), AM
»2026 Phase 1 (With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-CD	0.1	8.05	0.11	0.2	8.96	0.13
Stream B-AD	0.2	10.99	0.16	0.2	11.53	0.17
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	11.45	0.20	0.3	11.79	0.23
Stream C-ABD	0.3	5.07	0.11	0.2	5.43	0.08
	2026 Do Minimum					
Stream B-CD	0.1	8.14	0.11	0.2	9.11	0.14
Stream B-AD	0.2	11.19	0.16	0.2	11.82	0.18
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	11.64	0.20	0.3	12.04	0.23
Stream C-ABD	0.3	5.07	0.11	0.2	5.38	0.08
	2033 Do Minimum					
Stream B-CD	0.1	8.42	0.12	0.2	9.52	0.15
Stream B-AD	0.2	11.71	0.18	0.2	12.44	0.19

Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	12.29	0.22	0.4	12.74	0.26
Stream C-ABD	0.3	5.04	0.13	0.2	5.36	0.09
	2026 Residential Phase 1a					
Stream B-CD	0.1	8.17	0.11	0.2	9.14	0.14
Stream B-AD	0.2	11.25	0.16	0.2	11.89	0.18
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	11.67	0.20	0.3	12.07	0.23
Stream C-ABD	0.3	5.07	0.11	0.2	5.37	0.08
	2033 Full Residential					
Stream B-CD	0.1	8.53	0.12	0.2	9.68	0.15
Stream B-AD	0.2	11.92	0.18	0.3	12.78	0.20
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	12.44	0.23	0.4	12.98	0.26
Stream C-ABD	0.3	5.04	0.13	0.2	5.33	0.09
	2026 Employment					
Stream B-CD	0.1	8.23	0.11	0.2	9.20	0.14
Stream B-AD	0.2	11.50	0.17	0.2	11.99	0.18
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	11.80	0.21	0.3	12.15	0.24
Stream C-ABD	0.3	5.06	0.12	0.2	5.39	0.08
	2026 Phase 1 (Without Link Road)					
Stream B-CD	0.1	8.24	0.11	0.2	9.23	0.14
Stream B-AD	0.2	11.53	0.17	0.2	12.06	0.18
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	11.82	0.21	0.3	12.19	0.24
Stream C-ABD	0.3	5.06	0.12	0.2	5.39	0.08
	2026 Phase 1 (With Link Road)					
Stream B-CD	0.1	8.24	0.11	0.2	9.23	0.14
Stream B-AD	0.2	11.53	0.17	0.2	12.06	0.18
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	11.82	0.21	0.3	12.19	0.24
Stream C-ABD	0.3	5.06	0.12	0.2	5.39	0.08
	2033 Full Development					
Stream B-CD	0.1	8.61	0.12	0.2	9.79	0.15
Stream B-AD	0.2	12.22	0.19	0.3	12.98	0.21
Stream A-BCD	0.0	0.00	0.00	0.0	0.00	0.00
Stream D-ABC	0.3	12.61	0.23	0.4	13.12	0.26
Stream C-ABD	0.3	5.02	0.13	0.2	5.33	0.09

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	A635/Church Street/Silkstone Lane
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:15	17:45	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:15	17:45	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.55	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.55	A

Arms

Arms

Arm	Name	Description	Arm type
A	A635/Lane Head Road East		Major
B	Silkstone Lane		Minor
C	A635/Lane Head Road West		Major
D	Church Street		Minor

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)
A	7.10			250.0	✓	0.00
C	7.10			120.0	✓	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)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare		10.00	6.20	3.50	3.20	3.20	✓	1.00	50	49
D	One lane	3.56								120	50

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
A-D	719	-	-	-	-	-	-	0.265	0.379	0.265	-	-	-
B-A	572	0.099	0.251	0.251	-	-	-	0.158	0.358	-	0.251	0.251	0.125
B-C	724	0.106	0.267	-	-	-	-	-	-	-	-	-	-
B-D, nearside lane	572	0.099	0.251	0.251	-	-	-	0.158	0.358	0.158	-	-	-
B-D, offside lane	572	0.099	0.251	0.251	-	-	-	0.158	0.358	0.158	-	-	-
C-B	643	0.237	0.237	0.339	-	-	-	-	-	-	-	-	-
D-A	692	-	-	-	-	-	-	0.255	-	0.101	-	-	-
D-B, nearside lane	572	0.158	0.158	0.358	-	-	-	0.251	0.251	0.099	-	-	-
D-B, offside lane	572	0.158	0.158	0.358	-	-	-	0.251	0.251	0.099	-	-	-
D-C	572	-	0.158	0.358	0.125	0.251	0.251	0.251	0.251	0.099	-	-	-

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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	278	100.000
B		ONE HOUR	✓	110	100.000
C		ONE HOUR	✓	440	100.000
D		ONE HOUR	✓	73	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	37	241	0
	B	46	0	36	28
	C	377	44	0	19
	D	1	40	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	6	0
	B	2	0	3	12
	C	3	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.11	8.05	0.1	A	47	71
B-AD	0.16	10.99	0.2	B	54	81
A-BCD	0.00	0.00	0.0	A	0	0
A-B					34	51
A-C					221	332
D-ABC	0.20	11.45	0.3	B	67	100
C-ABD	0.11	5.07	0.3	A	74	110
C-D					16	24
C-A					314	471

Main Results for each time segment

07:15 - 07:30

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-CD	38	10	579	0.066	38	0.0	0.1	7.016	A
B-AD	44	11	458	0.097	44	0.0	0.1	9.029	A
A-BCD	0	0	627	0.000	0	0.0	0.0	0.000	A
A-B	28	7			28				
A-C	181	45			181				
D-ABC	55	14	454	0.121	54	0.0	0.1	9.107	A
C-ABD	53	13	794	0.067	53	0.0	0.1	5.064	A
C-D	13	3			13				
C-A	265	66			265				

07:30 - 07:45

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-CD	46	12	559	0.083	46	0.1	0.1	7.408	A
B-AD	53	13	436	0.121	53	0.1	0.1	9.770	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	33	8			33				
A-C	217	54			217				
D-ABC	66	16	431	0.152	65	0.1	0.2	9.970	A
C-ABD	70	17	825	0.085	70	0.1	0.2	4.973	A
C-D	16	4			16				
C-A	310	78			310				

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-CD	57	14	529	0.108	57	0.1	0.1	8.040	A
B-AD	64	16	405	0.158	64	0.1	0.2	10.979	B
A-BCD	0	0	585	0.000	0	0.0	0.0	0.000	A
A-B	41	10			41				
A-C	265	66			265				
D-ABC	80	20	399	0.201	80	0.2	0.3	11.426	B
C-ABD	98	24	869	0.112	97	0.2	0.3	4.864	A
C-D	19	5			19				
C-A	368	92			368				

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-CD	57	14	529	0.108	57	0.1	0.1	8.049	A
B-AD	64	16	404	0.158	64	0.2	0.2	10.993	B
A-BCD	0	0	584	0.000	0	0.0	0.0	0.000	A
A-B	41	10			41				
A-C	265	66			265				
D-ABC	80	20	399	0.202	80	0.3	0.3	11.450	B
C-ABD	98	24	869	0.113	98	0.3	0.3	4.865	A
C-D	19	5			19				
C-A	368	92			368				

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-CD	46	12	559	0.083	46	0.1	0.1	7.421	A
B-AD	53	13	436	0.121	53	0.2	0.1	9.786	A
A-BCD	0	0	609	0.000	0	0.0	0.0	0.000	A
A-B	33	8			33				
A-C	217	54			217				
D-ABC	66	16	431	0.152	66	0.3	0.2	9.998	A
C-ABD	70	18	825	0.085	70	0.3	0.2	4.973	A
C-D	16	4			16				
C-A	310	77			310				

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-CD	38	10	579	0.066	39	0.1	0.1	7.032	A
B-AD	44	11	458	0.097	44	0.1	0.1	9.057	A
A-BCD	0	0	627	0.000	0	0.0	0.0	0.000	A
A-B	28	7			28				
A-C	181	45			181				
D-ABC	55	14	454	0.121	55	0.2	0.1	9.143	A
C-ABD	53	13	794	0.067	54	0.2	0.1	5.073	A
C-D	13	3			13				
C-A	265	66			265				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.63	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.63	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	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	416	100.000
B		ONE HOUR	✓	118	100.000
C		ONE HOUR	✓	332	100.000
D		ONE HOUR	✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	53	363	0
	B	40	0	32	46
	C	260	32	0	40
	D	1	39	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	6	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.13	8.96	0.2	A	52	79
B-AD	0.17	11.53	0.2	B	56	84
A-BCD	0.00	0.00	0.0	A	0	0
A-B					49	73
A-C					333	500
D-ABC	0.23	11.79	0.3	B	78	117
C-ABD	0.08	5.43	0.2	A	48	71
C-D					34	51
C-A					223	334

Main Results for each time segment

16:15 - 16:30

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-CD	43	11	532	0.080	42	0.0	0.1	7.464	A
B-AD	46	12	451	0.103	46	0.0	0.1	9.294	A
A-BCD	0	0	650	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	273	68			273				
D-ABC	64	16	459	0.139	63	0.0	0.2	9.295	A
C-ABD	35	9	724	0.048	35	0.0	0.1	5.424	A
C-D	29	7			29				
C-A	186	47			186				

16:30 - 16:45

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-CD	51	13	508	0.101	51	0.1	0.1	8.019	A
B-AD	55	14	427	0.129	55	0.1	0.2	10.127	B
A-BCD	0	0	636	0.000	0	0.0	0.0	0.000	A
A-B	48	12			48				
A-C	326	82			326				
D-ABC	76	19	437	0.175	76	0.2	0.2	10.211	B
C-ABD	45	11	741	0.061	45	0.1	0.1	5.372	A
C-D	34	8			34				
C-A	219	55			219				

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-CD	63	16	472	0.134	63	0.1	0.2	8.949	A
B-AD	66	17	393	0.169	66	0.2	0.2	11.515	B
A-BCD	0	0	618	0.000	0	0.0	0.0	0.000	A
A-B	58	15			58				
A-C	400	100			400				
D-ABC	94	23	406	0.230	93	0.2	0.3	11.760	B
C-ABD	62	16	767	0.081	62	0.1	0.2	5.312	A
C-D	40	10			40				
C-A	263	66			263				

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-CD	63	16	472	0.134	63	0.2	0.2	8.961	A
B-AD	66	17	393	0.169	66	0.2	0.2	11.534	B
A-BCD	0	0	618	0.000	0	0.0	0.0	0.000	A
A-B	58	15			58				
A-C	400	100			400				
D-ABC	94	23	406	0.230	94	0.3	0.3	11.789	B
C-ABD	62	16	767	0.081	62	0.2	0.2	5.321	A
C-D	40	10			40				
C-A	263	66			263				

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-CD	51	13	507	0.101	51	0.2	0.1	8.036	A
B-AD	55	14	426	0.129	55	0.2	0.2	10.152	B
A-BCD	0	0	636	0.000	0	0.0	0.0	0.000	A
A-B	48	12			48				
A-C	326	82			326				
D-ABC	76	19	437	0.175	77	0.3	0.2	10.245	B
C-ABD	45	11	741	0.061	46	0.2	0.1	5.388	A
C-D	34	8			34				
C-A	219	55			219				

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-CD	43	11	532	0.080	43	0.1	0.1	7.483	A
B-AD	46	12	450	0.103	46	0.2	0.1	9.328	A
A-BCD	0	0	650	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	273	68			273				
D-ABC	64	16	459	0.139	64	0.2	0.2	9.339	A
C-ABD	35	9	724	0.049	35	0.1	0.1	5.434	A
C-D	29	7			29				
C-A	186	47			186				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	296	100.000
B		ONE HOUR	✓	111	100.000
C		ONE HOUR	✓	448	100.000
D		ONE HOUR	✓	73	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	39	257	0
	B	46	0	37	28
	C	385	44	0	19
	D	1	40	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	6	0
	B	2	0	3	12
	C	3	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.11	8.14	0.1	A	48	72
B-AD	0.16	11.19	0.2	B	54	81
A-BCD	0.00	0.00	0.0	A	0	0
A-B					36	54
A-C					236	354
D-ABC	0.20	11.64	0.3	B	67	100
C-ABD	0.11	5.07	0.3	A	75	112
C-D					16	24
C-A					321	481

Main Results for each time segment

07:15 - 07:30

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-CD	39	10	577	0.068	39	0.0	0.1	7.057	A
B-AD	44	11	454	0.098	44	0.0	0.1	9.120	A
A-BCD	0	0	626	0.000	0	0.0	0.0	0.000	A
A-B	29	7			29				
A-C	193	48			193				
D-ABC	55	14	451	0.122	54	0.0	0.1	9.187	A
C-ABD	54	13	795	0.067	53	0.0	0.1	5.059	A
C-D	13	3			13				
C-A	270	68			270				

07:30 - 07:45

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-CD	47	12	555	0.085	47	0.1	0.1	7.467	A
B-AD	53	13	431	0.122	53	0.1	0.1	9.897	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	35	9			35				
A-C	231	58			231				
D-ABC	66	16	427	0.154	65	0.1	0.2	10.090	B
C-ABD	71	18	827	0.086	71	0.1	0.2	4.965	A
C-D	16	4			16				
C-A	316	79			316				

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-CD	58	15	525	0.111	58	0.1	0.1	8.135	A
B-AD	64	16	399	0.161	64	0.1	0.2	11.178	B
A-BCD	0	0	582	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	283	71			283				
D-ABC	80	20	394	0.204	80	0.2	0.3	11.619	B
C-ABD	99	25	871	0.114	99	0.2	0.3	4.856	A
C-D	19	5			19				
C-A	375	94			375				

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-CD	58	15	525	0.111	58	0.1	0.1	8.143	A
B-AD	64	16	398	0.161	64	0.2	0.2	11.192	B
A-BCD	0	0	582	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	283	71			283				
D-ABC	80	20	394	0.204	80	0.3	0.3	11.644	B
C-ABD	100	25	871	0.114	100	0.3	0.3	4.860	A
C-D	19	5			19				
C-A	375	94			375				

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-CD	47	12	555	0.085	47	0.1	0.1	7.481	A
B-AD	53	13	431	0.122	53	0.2	0.1	9.914	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	35	9			35				
A-C	231	58			231				
D-ABC	66	16	427	0.154	66	0.3	0.2	10.121	B
C-ABD	71	18	827	0.086	71	0.3	0.2	4.966	A
C-D	16	4			16				
C-A	316	79			316				

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-CD	39	10	576	0.068	39	0.1	0.1	7.073	A
B-AD	44	11	454	0.098	44	0.1	0.1	9.150	A
A-BCD	0	0	625	0.000	0	0.0	0.0	0.000	A
A-B	29	7			29				
A-C	193	48			193				
D-ABC	55	14	451	0.122	55	0.2	0.1	9.228	A
C-ABD	54	13	795	0.068	54	0.2	0.1	5.068	A
C-D	13	3			13				
C-A	270	68			270				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.62	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.62	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 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	428	100.000
B		ONE HOUR	✓	120	100.000
C		ONE HOUR	✓	348	100.000
D		ONE HOUR	✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	55	373	0
	B	42	0	32	46
	C	276	32	0	40
	D	1	39	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	5	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.14	9.11	0.2	A	53	79
B-AD	0.18	11.82	0.2	B	58	86
A-BCD	0.00	0.00	0.0	A	0	0
A-B					50	76
A-C					342	513
D-ABC	0.23	12.04	0.3	B	78	117
C-ABD	0.08	5.38	0.2	A	49	73
C-D					34	51
C-A					236	354

Main Results for each time segment

16:15 - 16:30

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-CD	43	11	528	0.081	42	0.0	0.1	7.528	A
B-AD	48	12	447	0.107	47	0.0	0.1	9.421	A
A-BCD	0	0	647	0.000	0	0.0	0.0	0.000	A
A-B	41	10			41				
A-C	281	70			281				
D-ABC	64	16	455	0.141	63	0.0	0.2	9.398	A
C-ABD	36	9	730	0.049	35	0.0	0.1	5.367	A
C-D	29	7			29				
C-A	198	49			198				

16:30 - 16:45

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-CD	51	13	503	0.102	51	0.1	0.1	8.111	A
B-AD	57	14	422	0.134	56	0.1	0.2	10.307	B
A-BCD	0	0	632	0.000	0	0.0	0.0	0.000	A
A-B	49	12			49				
A-C	335	84			335				
D-ABC	76	19	432	0.177	76	0.2	0.2	10.361	B
C-ABD	46	12	749	0.062	46	0.1	0.1	5.308	A
C-D	34	8			34				
C-A	233	58			233				

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-CD	64	16	466	0.137	63	0.1	0.2	9.097	A
B-AD	68	17	387	0.177	68	0.2	0.2	11.794	B
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	61	15			61				
A-C	411	103			411				
D-ABC	94	23	400	0.234	93	0.2	0.3	12.006	B
C-ABD	64	16	777	0.082	64	0.1	0.2	5.238	A
C-D	40	10			40				
C-A	279	70			279				

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-CD	64	16	466	0.137	64	0.2	0.2	9.109	A
B-AD	68	17	387	0.177	68	0.2	0.2	11.825	B
A-BCD	0	0	613	0.000	0	0.0	0.0	0.000	A
A-B	61	15			61				
A-C	411	103			411				
D-ABC	94	23	400	0.234	94	0.3	0.3	12.038	B
C-ABD	64	16	777	0.083	64	0.2	0.2	5.244	A
C-D	40	10			40				
C-A	279	70			279				

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-CD	51	13	502	0.102	52	0.2	0.1	8.127	A
B-AD	57	14	422	0.134	57	0.2	0.2	10.336	B
A-BCD	0	0	632	0.000	0	0.0	0.0	0.000	A
A-B	49	12			49				
A-C	335	84			335				
D-ABC	76	19	432	0.177	77	0.3	0.2	10.400	B
C-ABD	47	12	749	0.062	47	0.2	0.1	5.319	A
C-D	34	8			34				
C-A	233	58			233				

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-CD	43	11	528	0.081	43	0.1	0.1	7.547	A
B-AD	48	12	446	0.107	48	0.2	0.1	9.456	A
A-BCD	0	0	646	0.000	0	0.0	0.0	0.000	A
A-B	41	10			41				
A-C	281	70			281				
D-ABC	64	16	455	0.141	64	0.2	0.2	9.445	A
C-ABD	36	9	730	0.049	36	0.1	0.1	5.378	A
C-D	29	7			29				
C-A	197	49			197				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.65	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.65	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	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	314	100.000
B		ONE HOUR	✓	118	100.000
C		ONE HOUR	✓	475	100.000
D		ONE HOUR	✓	78	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	42	272	0
	B	49	0	39	30
	C	408	47	0	20
	D	1	43	34	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	6	0
	B	2	0	3	12
	C	3	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.12	8.42	0.1	A	51	77
B-AD	0.18	11.71	0.2	B	57	86
A-BCD	0.00	0.00	0.0	A	0	0
A-B					39	58
A-C					250	374
D-ABC	0.22	12.29	0.3	B	72	107
C-ABD	0.13	5.04	0.3	A	83	124
C-D					16	25
C-A					336	505

Main Results for each time segment

07:15 - 07:30

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-CD	42	10	569	0.073	41	0.0	0.1	7.186	A
B-AD	47	12	447	0.106	47	0.0	0.1	9.348	A
A-BCD	0	0	620	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	205	51			205				
D-ABC	59	15	443	0.132	58	0.0	0.2	9.438	A
C-ABD	59	15	804	0.073	58	0.0	0.1	5.030	A
C-D	14	3			14				
C-A	285	71			285				

07:30 - 07:45

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-CD	50	12	546	0.091	50	0.1	0.1	7.649	A
B-AD	56	14	422	0.133	56	0.1	0.2	10.223	B
A-BCD	0	0	601	0.000	0	0.0	0.0	0.000	A
A-B	38	9			38				
A-C	245	61			245				
D-ABC	70	18	418	0.168	70	0.2	0.2	10.477	B
C-ABD	78	20	838	0.094	78	0.1	0.2	4.937	A
C-D	16	4			16				
C-A	332	83			332				

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-CD	62	15	513	0.120	62	0.1	0.1	8.413	A
B-AD	68	17	388	0.176	68	0.2	0.2	11.704	B
A-BCD	0	0	574	0.000	0	0.0	0.0	0.000	A
A-B	46	12			46				
A-C	299	75			299				
D-ABC	86	21	383	0.224	86	0.2	0.3	12.256	B
C-ABD	111	28	886	0.125	111	0.2	0.3	4.838	A
C-D	19	5			19				
C-A	393	98			393				

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-CD	62	15	513	0.120	62	0.1	0.1	8.424	A
B-AD	68	17	388	0.176	68	0.2	0.2	11.713	B
A-BCD	0	0	574	0.000	0	0.0	0.0	0.000	A
A-B	46	12			46				
A-C	299	75			299				
D-ABC	86	21	383	0.224	86	0.3	0.3	12.290	B
C-ABD	111	28	886	0.126	111	0.3	0.3	4.838	A
C-D	19	5			19				
C-A	392	98			392				

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-CD	50	12	546	0.092	50	0.1	0.1	7.665	A
B-AD	56	14	422	0.133	56	0.2	0.2	10.245	B
A-BCD	0	0	600	0.000	0	0.0	0.0	0.000	A
A-B	38	9			38				
A-C	245	61			245				
D-ABC	70	18	418	0.168	70	0.3	0.2	10.516	B
C-ABD	79	20	838	0.094	79	0.3	0.2	4.940	A
C-D	16	4			16				
C-A	332	83			332				

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-CD	42	10	569	0.073	42	0.1	0.1	7.204	A
B-AD	47	12	447	0.106	47	0.2	0.1	9.382	A
A-BCD	0	0	620	0.000	0	0.0	0.0	0.000	A
A-B	32	8			32				
A-C	205	51			205				
D-ABC	59	15	443	0.133	59	0.2	0.2	9.500	A
C-ABD	59	15	805	0.074	60	0.2	0.1	5.039	A
C-D	14	3			14				
C-A	284	71			284				

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.78	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.78	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	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	453	100.000
B		ONE HOUR	✓	128	100.000
C		ONE HOUR	✓	368	100.000
D		ONE HOUR	✓	91	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	58	395	0
	B	45	0	34	49
	C	292	34	0	42
	D	1	42	48	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	5	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.15	9.52	0.2	A	56	84
B-AD	0.19	12.44	0.2	B	61	92
A-BCD	0.00	0.00	0.0	A	0	0
A-B					53	80
A-C					362	544
D-ABC	0.26	12.74	0.4	B	84	125
C-ABD	0.09	5.36	0.2	A	54	80
C-D					36	54
C-A					248	373

Main Results for each time segment

16:15 - 16:30

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-CD	45	11	520	0.087	45	0.0	0.1	7.698	A
B-AD	51	13	439	0.116	50	0.0	0.1	9.678	A
A-BCD	0	0	642	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	297	74			297				
D-ABC	69	17	448	0.153	68	0.0	0.2	9.681	A
C-ABD	39	10	735	0.053	39	0.0	0.1	5.351	A
C-D	30	7			30				
C-A	208	52			208				

16:30 - 16:45

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-CD	55	14	493	0.111	55	0.1	0.1	8.357	A
B-AD	60	15	413	0.146	60	0.1	0.2	10.684	B
A-BCD	0	0	627	0.000	0	0.0	0.0	0.000	A
A-B	52	13			52				
A-C	355	89			355				
D-ABC	82	20	423	0.193	82	0.2	0.2	10.779	B
C-ABD	51	13	756	0.067	51	0.1	0.1	5.294	A
C-D	35	9			35				
C-A	245	61			245				

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-CD	68	17	453	0.150	68	0.1	0.2	9.499	A
B-AD	73	18	376	0.194	73	0.2	0.2	12.416	B
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	64	16			64				
A-C	435	109			435				
D-ABC	100	25	390	0.257	100	0.2	0.3	12.701	B
C-ABD	71	18	786	0.090	70	0.1	0.2	5.224	A
C-D	42	11			42				
C-A	292	73			292				

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-CD	68	17	453	0.150	68	0.2	0.2	9.515	A
B-AD	73	18	376	0.194	73	0.2	0.2	12.444	B
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	64	16			64				
A-C	435	109			435				
D-ABC	100	25	390	0.257	100	0.3	0.4	12.743	B
C-ABD	71	18	786	0.090	71	0.2	0.2	5.232	A
C-D	42	11			42				
C-A	292	73			292				

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-CD	55	14	492	0.111	55	0.2	0.1	8.378	A
B-AD	60	15	412	0.146	61	0.2	0.2	10.715	B
A-BCD	0	0	627	0.000	0	0.0	0.0	0.000	A
A-B	52	13			52				
A-C	355	89			355				
D-ABC	82	20	423	0.193	82	0.4	0.2	10.825	B
C-ABD	51	13	756	0.067	51	0.2	0.1	5.303	A
C-D	35	9			35				
C-A	245	61			245				

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-CD	45	11	520	0.087	46	0.1	0.1	7.722	A
B-AD	51	13	439	0.116	51	0.2	0.1	9.722	A
A-BCD	0	0	642	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	297	74			297				
D-ABC	69	17	448	0.153	69	0.2	0.2	9.737	A
C-ABD	39	10	736	0.053	39	0.1	0.1	5.363	A
C-D	30	7			30				
C-A	208	52			208				

2026 Residential Phase 1a, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	299	100.000
B		ONE HOUR	✓	112	100.000
C		ONE HOUR	✓	449	100.000
D		ONE HOUR	✓	73	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	40	259	0
	B	47	0	37	28
	C	386	44	0	19
	D	1	40	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	6	0
	B	2	0	3	12
	C	3	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.11	8.17	0.1	A	48	72
B-AD	0.16	11.25	0.2	B	55	82
A-BCD	0.00	0.00	0.0	A	0	0
A-B					37	55
A-C					238	356
D-ABC	0.20	11.67	0.3	B	67	100
C-ABD	0.11	5.07	0.3	A	75	112
C-D					16	24
C-A					321	482

Main Results for each time segment

07:15 - 07:30

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-CD	39	10	576	0.068	39	0.0	0.1	7.069	A
B-AD	45	11	454	0.099	45	0.0	0.1	9.145	A
A-BCD	0	0	625	0.000	0	0.0	0.0	0.000	A
A-B	30	8			30				
A-C	195	49			195				
D-ABC	55	14	450	0.122	54	0.0	0.1	9.199	A
C-ABD	54	13	795	0.068	53	0.0	0.1	5.059	A
C-D	13	3			13				
C-A	271	68			271				

07:30 - 07:45

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-CD	47	12	554	0.085	47	0.1	0.1	7.484	A
B-AD	54	13	430	0.125	53	0.1	0.1	9.935	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	233	58			233				
D-ABC	66	16	426	0.154	65	0.1	0.2	10.106	B
C-ABD	71	18	827	0.086	71	0.1	0.2	4.967	A
C-D	16	4			16				
C-A	317	79			317				

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-CD	58	15	523	0.111	58	0.1	0.1	8.160	A
B-AD	65	16	398	0.164	65	0.1	0.2	11.239	B
A-BCD	0	0	582	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	285	71			285				
D-ABC	80	20	393	0.205	80	0.2	0.3	11.649	B
C-ABD	100	25	871	0.114	99	0.2	0.3	4.857	A
C-D	19	5			19				
C-A	376	94			376				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	58	15	523	0.111	58	0.1	0.1	8.170	A
B-AD	65	16	397	0.164	65	0.2	0.2	11.254	B
A-BCD	0	0	582	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	285	71			285				
D-ABC	80	20	393	0.205	80	0.3	0.3	11.673	B
C-ABD	100	25	872	0.115	100	0.3	0.3	4.858	A
C-D	19	5			19				
C-A	376	94			376				

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-CD	47	12	554	0.085	47	0.1	0.1	7.499	A
B-AD	54	13	430	0.125	54	0.2	0.1	9.953	A
A-BCD	0	0	607	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	233	58			233				
D-ABC	66	16	426	0.154	66	0.3	0.2	10.139	B
C-ABD	71	18	827	0.086	71	0.3	0.2	4.968	A
C-D	16	4			16				
C-A	317	79			317				

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-CD	39	10	575	0.068	39	0.1	0.1	7.086	A
B-AD	45	11	453	0.099	45	0.1	0.1	9.177	A
A-BCD	0	0	625	0.000	0	0.0	0.0	0.000	A
A-B	30	8			30				
A-C	195	49			195				
D-ABC	55	14	450	0.122	55	0.2	0.1	9.241	A
C-ABD	54	13	795	0.068	54	0.2	0.1	5.066	A
C-D	13	3			13				
C-A	271	68			271				

2026 Residential Phase 1a , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.63	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.63	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	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	429	100.000
B		ONE HOUR	✓	121	100.000
C		ONE HOUR	✓	350	100.000
D		ONE HOUR	✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	55	374	0
	B	43	0	32	46
	C	278	32	0	40
	D	1	39	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	5	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.14	9.14	0.2	A	53	79
B-AD	0.18	11.89	0.2	B	58	88
A-BCD	0.00	0.00	0.0	A	0	0
A-B					50	76
A-C					343	515
D-ABC	0.23	12.07	0.3	B	78	117
C-ABD	0.08	5.37	0.2	A	49	73
C-D					34	51
C-A					238	357

Main Results for each time segment

16:15 - 16:30

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-CD	43	11	528	0.081	42	0.0	0.1	7.539	A
B-AD	48	12	446	0.109	48	0.0	0.1	9.450	A
A-BCD	0	0	646	0.000	0	0.0	0.0	0.000	A
A-B	41	10			41				
A-C	282	70			282				
D-ABC	64	16	454	0.141	63	0.0	0.2	9.411	A
C-ABD	36	9	731	0.049	36	0.0	0.1	5.362	A
C-D	29	7			29				
C-A	199	50			199				

16:30 - 16:45

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-CD	51	13	502	0.102	51	0.1	0.1	8.127	A
B-AD	57	14	421	0.136	57	0.1	0.2	10.348	B
A-BCD	0	0	632	0.000	0	0.0	0.0	0.000	A
A-B	49	12			49				
A-C	336	84			336				
D-ABC	76	19	431	0.177	76	0.2	0.2	10.380	B
C-ABD	47	12	750	0.062	46	0.1	0.1	5.301	A
C-D	34	8			34				
C-A	234	59			234				

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-CD	64	16	465	0.137	64	0.1	0.2	9.125	A
B-AD	70	17	387	0.180	69	0.2	0.2	11.867	B
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	61	15			61				
A-C	412	103			412				
D-ABC	94	23	399	0.234	93	0.2	0.3	12.037	B
C-ABD	64	16	778	0.083	64	0.1	0.2	5.230	A
C-D	40	10			40				
C-A	281	70			281				

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-CD	64	16	465	0.137	64	0.2	0.2	9.137	A
B-AD	70	17	386	0.180	70	0.2	0.2	11.890	B
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	61	15			61				
A-C	412	103			412				
D-ABC	94	23	399	0.235	94	0.3	0.3	12.069	B
C-ABD	64	16	778	0.083	64	0.2	0.2	5.238	A
C-D	40	10			40				
C-A	281	70			281				

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-CD	51	13	501	0.102	52	0.2	0.1	8.145	A
B-AD	57	14	421	0.136	58	0.2	0.2	10.377	B
A-BCD	0	0	632	0.000	0	0.0	0.0	0.000	A
A-B	49	12			49				
A-C	336	84			336				
D-ABC	76	19	431	0.177	77	0.3	0.2	10.420	B
C-ABD	47	12	750	0.062	47	0.2	0.1	5.314	A
C-D	34	8			34				
C-A	234	59			234				

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-CD	43	11	527	0.081	43	0.1	0.1	7.561	A
B-AD	48	12	446	0.109	49	0.2	0.1	9.485	A
A-BCD	0	0	646	0.000	0	0.0	0.0	0.000	A
A-B	41	10			41				
A-C	282	70			282				
D-ABC	64	16	454	0.141	64	0.2	0.2	9.459	A
C-ABD	36	9	731	0.049	36	0.1	0.1	5.372	A
C-D	29	7			29				
C-A	199	50			199				

2033 Full Residential, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.65	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.65	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	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	329	100.000
B		ONE HOUR	✓	119	100.000
C		ONE HOUR	✓	479	100.000
D		ONE HOUR	✓	78	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	44	285	0
	B	50	0	39	30
	C	412	47	0	20
	D	1	43	34	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	6	0
	B	2	0	3	12
	C	3	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.12	8.53	0.1	A	51	77
B-AD	0.18	11.92	0.2	B	58	87
A-BCD	0.00	0.00	0.0	A	0	0
A-B					40	61
A-C					262	392
D-ABC	0.23	12.44	0.3	B	72	107
C-ABD	0.13	5.04	0.3	A	84	126
C-D					16	25
C-A					339	509

Main Results for each time segment

07:15 - 07:30

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-CD	42	10	566	0.074	41	0.0	0.1	7.234	A
B-AD	48	12	444	0.108	47	0.0	0.1	9.435	A
A-BCD	0	0	619	0.000	0	0.0	0.0	0.000	A
A-B	33	8			33				
A-C	215	54			215				
D-ABC	59	15	441	0.133	58	0.0	0.2	9.512	A
C-ABD	59	15	804	0.074	59	0.0	0.1	5.033	A
C-D	14	3			14				
C-A	287	72			287				

07:30 - 07:45

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-CD	50	13	542	0.092	50	0.1	0.1	7.715	A
B-AD	57	14	418	0.136	57	0.1	0.2	10.350	B
A-BCD	0	0	600	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	256	64			256				
D-ABC	70	18	415	0.169	70	0.2	0.2	10.564	B
C-ABD	79	20	838	0.094	79	0.1	0.2	4.941	A
C-D	16	4			16				
C-A	335	84			335				

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-CD	62	15	508	0.122	62	0.1	0.1	8.517	A
B-AD	69	17	383	0.181	69	0.2	0.2	11.899	B
A-BCD	0	0	573	0.000	0	0.0	0.0	0.000	A
A-B	48	12			48				
A-C	314	78			314				
D-ABC	86	21	379	0.227	86	0.2	0.3	12.406	B
C-ABD	112	28	886	0.127	112	0.2	0.3	4.844	A
C-D	19	5			19				
C-A	396	99			396				

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-CD	62	15	508	0.122	62	0.1	0.1	8.529	A
B-AD	69	17	383	0.181	69	0.2	0.2	11.919	B
A-BCD	0	0	573	0.000	0	0.0	0.0	0.000	A
A-B	48	12			48				
A-C	314	78			314				
D-ABC	86	21	379	0.227	86	0.3	0.3	12.442	B
C-ABD	112	28	886	0.127	112	0.3	0.3	4.844	A
C-D	19	5			19				
C-A	396	99			396				

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-CD	50	13	542	0.092	50	0.1	0.1	7.732	A
B-AD	57	14	418	0.136	57	0.2	0.2	10.374	B
A-BCD	0	0	599	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	256	64			256				
D-ABC	70	18	415	0.169	70	0.3	0.2	10.607	B
C-ABD	79	20	838	0.095	80	0.3	0.2	4.945	A
C-D	16	4			16				
C-A	335	84			335				

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-CD	42	10	565	0.074	42	0.1	0.1	7.253	A
B-AD	48	12	443	0.108	48	0.2	0.1	9.473	A
A-BCD	0	0	619	0.000	0	0.0	0.0	0.000	A
A-B	33	8			33				
A-C	215	54			215				
D-ABC	59	15	441	0.133	59	0.2	0.2	9.560	A
C-ABD	60	15	805	0.074	60	0.2	0.1	5.040	A
C-D	14	3			14				
C-A	287	72			287				

2033 Full Residential, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.80	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.80	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	462	100.000
B		ONE HOUR	✓	131	100.000
C		ONE HOUR	✓	381	100.000
D		ONE HOUR	✓	91	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	59	403	0
	B	48	0	34	49
	C	305	34	0	42
	D	1	42	48	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	5	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.15	9.68	0.2	A	56	84
B-AD	0.20	12.78	0.3	B	64	96
A-BCD	0.00	0.00	0.0	A	0	0
A-B					54	81
A-C					370	555
D-ABC	0.26	12.98	0.4	B	84	125
C-ABD	0.09	5.33	0.2	A	55	82
C-D					36	54
C-A					259	389

Main Results for each time segment

16:15 - 16:30

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-CD	46	11	517	0.088	45	0.0	0.1	7.761	A
B-AD	53	13	436	0.122	52	0.0	0.1	9.815	A
A-BCD	0	0	640	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	303	76			303				
D-ABC	69	17	444	0.154	68	0.0	0.2	9.774	A
C-ABD	40	10	741	0.053	39	0.0	0.1	5.316	A
C-D	30	7			30				
C-A	217	54			217				

16:30 - 16:45

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-CD	55	14	488	0.113	55	0.1	0.1	8.451	A
B-AD	63	16	409	0.154	63	0.1	0.2	10.883	B
A-BCD	0	0	624	0.000	0	0.0	0.0	0.000	A
A-B	53	13			53				
A-C	362	91			362				
D-ABC	82	20	419	0.195	82	0.2	0.2	10.917	B
C-ABD	52	13	762	0.068	52	0.1	0.1	5.252	A
C-D	35	9			35				
C-A	255	64			255				

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-CD	68	17	447	0.153	68	0.1	0.2	9.661	A
B-AD	76	19	371	0.205	76	0.2	0.3	12.748	B
A-BCD	0	0	603	0.000	0	0.0	0.0	0.000	A
A-B	65	16			65				
A-C	444	111			444				
D-ABC	100	25	384	0.261	100	0.2	0.4	12.935	B
C-ABD	72	18	794	0.091	72	0.1	0.2	5.180	A
C-D	42	11			42				
C-A	305	76			305				

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-CD	68	17	447	0.153	68	0.2	0.2	9.678	A
B-AD	76	19	371	0.205	76	0.3	0.3	12.779	B
A-BCD	0	0	603	0.000	0	0.0	0.0	0.000	A
A-B	65	16			65				
A-C	444	111			444				
D-ABC	100	25	384	0.261	100	0.4	0.4	12.981	B
C-ABD	73	18	794	0.091	73	0.2	0.2	5.185	A
C-D	42	10			42				
C-A	305	76			305				

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-CD	55	14	488	0.113	55	0.2	0.1	8.472	A
B-AD	63	16	409	0.154	63	0.3	0.2	10.921	B
A-BCD	0	0	624	0.000	0	0.0	0.0	0.000	A
A-B	53	13			53				
A-C	362	91			362				
D-ABC	82	20	419	0.195	82	0.4	0.3	10.965	B
C-ABD	52	13	763	0.068	52	0.2	0.1	5.266	A
C-D	35	9			35				
C-A	255	64			255				

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-CD	46	11	516	0.088	46	0.1	0.1	7.787	A
B-AD	53	13	436	0.122	53	0.2	0.1	9.862	A
A-BCD	0	0	640	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	303	76			303				
D-ABC	69	17	444	0.154	69	0.3	0.2	9.831	A
C-ABD	40	10	741	0.054	40	0.1	0.1	5.326	A
C-D	30	7			30				
C-A	217	54			217				

2026 Employment, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.55	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.55	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
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	302	100.000
B		ONE HOUR	✓	114	100.000
C		ONE HOUR	✓	459	100.000
D		ONE HOUR	✓	73	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	40	262	0
	B	49	0	37	28
	C	396	44	0	19
	D	1	40	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	1	7	0
	B	3	0	3	12
	C	4	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.11	8.23	0.1	A	48	72
B-AD	0.17	11.50	0.2	B	56	85
A-BCD	0.00	0.00	0.0	A	0	0
A-B					37	55
A-C					240	361
D-ABC	0.21	11.80	0.3	B	67	100
C-ABD	0.12	5.06	0.3	A	76	114
C-D					16	24
C-A					329	494

Main Results for each time segment

07:15 - 07:30

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-CD	39	10	574	0.068	39	0.0	0.1	7.095	A
B-AD	47	12	452	0.103	46	0.0	0.1	9.286	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	30	8			30				
A-C	197	49			197				
D-ABC	55	14	448	0.123	54	0.0	0.1	9.254	A
C-ABD	54	14	800	0.068	54	0.0	0.1	5.050	A
C-D	13	3			13				
C-A	278	69			278				

07:30 - 07:45

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-CD	47	12	552	0.085	47	0.1	0.1	7.521	A
B-AD	55	14	428	0.129	55	0.1	0.2	10.116	B
A-BCD	0	0	605	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	236	59			236				
D-ABC	66	16	423	0.155	65	0.1	0.2	10.184	B
C-ABD	72	18	832	0.086	72	0.1	0.2	4.956	A
C-D	16	4			16				
C-A	325	81			325				

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-CD	58	15	520	0.112	58	0.1	0.1	8.220	A
B-AD	67	17	395	0.170	67	0.2	0.2	11.484	B
A-BCD	0	0	579	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	288	72			288				
D-ABC	80	20	389	0.206	80	0.2	0.3	11.774	B
C-ABD	101	25	878	0.115	101	0.2	0.3	4.847	A
C-D	18	5			18				
C-A	385	96			385				

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-CD	58	15	520	0.112	58	0.1	0.1	8.230	A
B-AD	67	17	395	0.170	67	0.2	0.2	11.502	B
A-BCD	0	0	579	0.000	0	0.0	0.0	0.000	A
A-B	44	11			44				
A-C	288	72			288				
D-ABC	80	20	389	0.206	80	0.3	0.3	11.802	B
C-ABD	102	25	879	0.116	102	0.3	0.3	4.849	A
C-D	18	5			18				
C-A	385	96			385				

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-CD	47	12	552	0.086	47	0.1	0.1	7.536	A
B-AD	55	14	428	0.129	56	0.2	0.2	10.134	B
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	36	9			36				
A-C	236	59			236				
D-ABC	66	16	423	0.155	66	0.3	0.2	10.219	B
C-ABD	72	18	832	0.087	73	0.3	0.2	4.960	A
C-D	16	4			16				
C-A	325	81			325				

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-CD	39	10	573	0.068	39	0.1	0.1	7.110	A
B-AD	47	12	451	0.103	47	0.2	0.1	9.319	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	30	8			30				
A-C	197	49			197				
D-ABC	55	14	448	0.123	55	0.2	0.1	9.294	A
C-ABD	55	14	800	0.068	55	0.2	0.1	5.058	A
C-D	13	3			13				
C-A	278	69			278				

2026 Employment, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.62	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.62	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
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	438	100.000
B		ONE HOUR	✓	121	100.000
C		ONE HOUR	✓	352	100.000
D		ONE HOUR	✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	56	382	0
	B	43	0	32	46
	C	280	32	0	40
	D	1	39	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	6	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.14	9.20	0.2	A	53	79
B-AD	0.18	11.99	0.2	B	58	88
A-BCD	0.00	0.00	0.0	A	0	0
A-B					51	77
A-C					351	526
D-ABC	0.24	12.15	0.3	B	78	117
C-ABD	0.08	5.39	0.2	A	49	74
C-D					34	51
C-A					240	359

Main Results for each time segment

16:15 - 16:30

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-CD	43	11	526	0.081	42	0.0	0.1	7.568	A
B-AD	48	12	444	0.109	48	0.0	0.1	9.493	A
A-BCD	0	0	646	0.000	0	0.0	0.0	0.000	A
A-B	42	11			42				
A-C	288	72			288				
D-ABC	64	16	453	0.141	63	0.0	0.2	9.445	A
C-ABD	36	9	730	0.049	36	0.0	0.1	5.380	A
C-D	29	7			29				
C-A	200	50			200				

16:30 - 16:45

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-CD	51	13	499	0.103	51	0.1	0.1	8.168	A
B-AD	57	14	419	0.137	57	0.1	0.2	10.410	B
A-BCD	0	0	631	0.000	0	0.0	0.0	0.000	A
A-B	50	13			50				
A-C	343	86			343				
D-ABC	76	19	430	0.178	76	0.2	0.2	10.429	B
C-ABD	47	12	750	0.062	47	0.1	0.1	5.323	A
C-D	34	8			34				
C-A	236	59			236				

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-CD	64	16	462	0.138	64	0.1	0.2	9.190	A
B-AD	69	17	384	0.181	69	0.2	0.2	11.968	B
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	62	15			62				
A-C	421	105			421				
D-ABC	94	23	397	0.236	93	0.2	0.3	12.117	B
C-ABD	65	16	778	0.083	64	0.1	0.2	5.253	A
C-D	40	10			40				
C-A	283	71			283				

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-CD	64	16	462	0.138	64	0.2	0.2	9.203	A
B-AD	69	17	384	0.181	69	0.2	0.2	11.991	B
A-BCD	0	0	612	0.000	0	0.0	0.0	0.000	A
A-B	62	15			62				
A-C	421	105			421				
D-ABC	94	23	397	0.236	94	0.3	0.3	12.150	B
C-ABD	65	16	778	0.083	65	0.2	0.2	5.261	A
C-D	40	10			40				
C-A	282	71			282				

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-CD	51	13	499	0.103	52	0.2	0.1	8.187	A
B-AD	57	14	419	0.137	58	0.2	0.2	10.438	B
A-BCD	0	0	631	0.000	0	0.0	0.0	0.000	A
A-B	50	13			50				
A-C	343	86			343				
D-ABC	76	19	429	0.178	77	0.3	0.2	10.469	B
C-ABD	47	12	750	0.063	47	0.2	0.1	5.335	A
C-D	34	8			34				
C-A	236	59			236				

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-CD	43	11	525	0.081	43	0.1	0.1	7.588	A
B-AD	48	12	444	0.109	49	0.2	0.1	9.531	A
A-BCD	0	0	646	0.000	0	0.0	0.0	0.000	A
A-B	42	11			42				
A-C	288	72			288				
D-ABC	64	16	453	0.141	64	0.2	0.2	9.492	A
C-ABD	36	9	731	0.049	36	0.1	0.1	5.392	A
C-D	29	7			29				
C-A	200	50			200				

2026 Phase 1 (Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.55	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.55	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
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	305	100.000
B		ONE HOUR	✓	114	100.000
C		ONE HOUR	✓	459	100.000
D		ONE HOUR	✓	73	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	41	264	0
	B	49	0	37	28
	C	396	44	0	19
	D	1	40	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	1	7	0
	B	3	0	3	12
	C	4	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.11	8.24	0.1	A	48	72
B-AD	0.17	11.53	0.2	B	56	85
A-BCD	0.00	0.00	0.0	A	0	0
A-B					38	56
A-C					242	363
D-ABC	0.21	11.82	0.3	B	67	100
C-ABD	0.12	5.06	0.3	A	76	114
C-D					16	24
C-A					329	494

Main Results for each time segment

07:15 - 07:30

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-CD	39	10	573	0.068	39	0.0	0.1	7.101	A
B-AD	47	12	451	0.103	46	0.0	0.1	9.296	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	31	8			31				
A-C	199	50			199				
D-ABC	55	14	448	0.123	54	0.0	0.1	9.261	A
C-ABD	54	14	799	0.068	54	0.0	0.1	5.053	A
C-D	13	3			13				
C-A	278	69			278				

07:30 - 07:45

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-CD	47	12	551	0.086	47	0.1	0.1	7.530	A
B-AD	55	14	427	0.129	55	0.1	0.2	10.130	B
A-BCD	0	0	605	0.000	0	0.0	0.0	0.000	A
A-B	37	9			37				
A-C	237	59			237				
D-ABC	66	16	423	0.155	65	0.1	0.2	10.194	B
C-ABD	72	18	832	0.087	72	0.1	0.2	4.959	A
C-D	16	4			16				
C-A	325	81			325				

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-CD	58	15	519	0.112	58	0.1	0.1	8.233	A
B-AD	67	17	394	0.171	67	0.2	0.2	11.508	B
A-BCD	0	0	579	0.000	0	0.0	0.0	0.000	A
A-B	45	11			45				
A-C	291	73			291				
D-ABC	80	20	389	0.207	80	0.2	0.3	11.791	B
C-ABD	101	25	878	0.116	101	0.2	0.3	4.850	A
C-D	18	5			18				
C-A	385	96			385				

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-CD	58	15	519	0.112	58	0.1	0.1	8.244	A
B-AD	67	17	394	0.171	67	0.2	0.2	11.525	B
A-BCD	0	0	579	0.000	0	0.0	0.0	0.000	A
A-B	45	11			45				
A-C	291	73			291				
D-ABC	80	20	389	0.207	80	0.3	0.3	11.819	B
C-ABD	102	25	878	0.116	102	0.3	0.3	4.853	A
C-D	18	5			18				
C-A	385	96			385				

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-CD	47	12	551	0.086	47	0.1	0.1	7.545	A
B-AD	55	14	427	0.129	56	0.2	0.2	10.148	B
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	37	9			37				
A-C	237	59			237				
D-ABC	66	16	423	0.155	66	0.3	0.2	10.229	B
C-ABD	72	18	832	0.087	73	0.3	0.2	4.964	A
C-D	16	4			16				
C-A	325	81			325				

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-CD	39	10	573	0.069	39	0.1	0.1	7.119	A
B-AD	47	12	451	0.103	47	0.2	0.1	9.329	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	31	8			31				
A-C	199	50			199				
D-ABC	55	14	447	0.123	55	0.2	0.1	9.301	A
C-ABD	55	14	799	0.068	55	0.2	0.1	5.063	A
C-D	13	3			13				
C-A	278	69			278				

2026 Phase 1 (Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.63	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.63	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	440	100.000
B		ONE HOUR	✓	122	100.000
C		ONE HOUR	✓	354	100.000
D		ONE HOUR	✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	57	383	0
	B	44	0	32	46
	C	282	32	0	40
	D	1	39	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	6	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.14	9.23	0.2	A	53	79
B-AD	0.18	12.06	0.2	B	59	89
A-BCD	0.00	0.00	0.0	A	0	0
A-B					52	78
A-C					351	527
D-ABC	0.24	12.19	0.3	B	78	117
C-ABD	0.08	5.39	0.2	A	49	74
C-D					34	51
C-A					241	362

Main Results for each time segment

16:15 - 16:30

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-CD	43	11	525	0.081	42	0.0	0.1	7.581	A
B-AD	49	12	444	0.111	49	0.0	0.1	9.522	A
A-BCD	0	0	645	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	288	72			288				
D-ABC	64	16	452	0.141	63	0.0	0.2	9.459	A
C-ABD	36	9	731	0.049	36	0.0	0.1	5.375	A
C-D	29	7			29				
C-A	202	50			202				

16:30 - 16:45

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-CD	51	13	498	0.103	51	0.1	0.1	8.186	A
B-AD	58	15	418	0.139	58	0.1	0.2	10.454	B
A-BCD	0	0	631	0.000	0	0.0	0.0	0.000	A
A-B	51	13			51				
A-C	344	86			344				
D-ABC	76	19	429	0.178	76	0.2	0.2	10.450	B
C-ABD	47	12	751	0.063	47	0.1	0.1	5.318	A
C-D	34	8			34				
C-A	238	59			238				

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-CD	64	16	461	0.139	64	0.1	0.2	9.221	A
B-AD	71	18	383	0.184	70	0.2	0.2	12.039	B
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	63	16			63				
A-C	422	105			422				
D-ABC	94	23	396	0.236	93	0.2	0.3	12.152	B
C-ABD	65	16	779	0.083	65	0.1	0.2	5.247	A
C-D	40	10			40				
C-A	285	71			285				

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-CD	64	16	460	0.139	64	0.2	0.2	9.234	A
B-AD	71	18	383	0.184	70	0.2	0.2	12.062	B
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	63	16			63				
A-C	422	105			422				
D-ABC	94	23	396	0.236	94	0.3	0.3	12.185	B
C-ABD	65	16	779	0.083	65	0.2	0.2	5.255	A
C-D	40	10			40				
C-A	284	71			284				

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-CD	51	13	498	0.103	52	0.2	0.1	8.204	A
B-AD	58	15	418	0.139	58	0.2	0.2	10.483	B
A-BCD	0	0	631	0.000	0	0.0	0.0	0.000	A
A-B	51	13			51				
A-C	344	86			344				
D-ABC	76	19	429	0.178	77	0.3	0.2	10.490	B
C-ABD	47	12	751	0.063	47	0.2	0.1	5.332	A
C-D	34	8			34				
C-A	237	59			237				

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-CD	43	11	525	0.081	43	0.1	0.1	7.603	A
B-AD	49	12	444	0.111	49	0.2	0.1	9.562	A
A-BCD	0	0	645	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	288	72			288				
D-ABC	64	16	452	0.141	64	0.2	0.2	9.507	A
C-ABD	36	9	731	0.049	36	0.1	0.1	5.386	A
C-D	29	7			29				
C-A	202	50			202				

2026 Phase 1 (With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.55	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.55	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
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	305	100.000
B		ONE HOUR	✓	114	100.000
C		ONE HOUR	✓	459	100.000
D		ONE HOUR	✓	73	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	41	264	0
	B	49	0	37	28
	C	396	44	0	19
	D	1	40	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	1	7	0
	B	3	0	3	12
	C	4	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.11	8.24	0.1	A	48	72
B-AD	0.17	11.53	0.2	B	56	85
A-BCD	0.00	0.00	0.0	A	0	0
A-B					38	56
A-C					242	363
D-ABC	0.21	11.82	0.3	B	67	100
C-ABD	0.12	5.06	0.3	A	76	114
C-D					16	24
C-A					329	494

Main Results for each time segment

07:15 - 07:30

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-CD	39	10	573	0.068	39	0.0	0.1	7.101	A
B-AD	47	12	451	0.103	46	0.0	0.1	9.296	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	31	8			31				
A-C	199	50			199				
D-ABC	55	14	448	0.123	54	0.0	0.1	9.261	A
C-ABD	54	14	799	0.068	54	0.0	0.1	5.053	A
C-D	13	3			13				
C-A	278	69			278				

07:30 - 07:45

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-CD	47	12	551	0.086	47	0.1	0.1	7.530	A
B-AD	55	14	427	0.129	55	0.1	0.2	10.130	B
A-BCD	0	0	605	0.000	0	0.0	0.0	0.000	A
A-B	37	9			37				
A-C	237	59			237				
D-ABC	66	16	423	0.155	65	0.1	0.2	10.194	B
C-ABD	72	18	832	0.087	72	0.1	0.2	4.959	A
C-D	16	4			16				
C-A	325	81			325				

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-CD	58	15	519	0.112	58	0.1	0.1	8.233	A
B-AD	67	17	394	0.171	67	0.2	0.2	11.508	B
A-BCD	0	0	579	0.000	0	0.0	0.0	0.000	A
A-B	45	11			45				
A-C	291	73			291				
D-ABC	80	20	389	0.207	80	0.2	0.3	11.791	B
C-ABD	101	25	878	0.116	101	0.2	0.3	4.850	A
C-D	18	5			18				
C-A	385	96			385				

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-CD	58	15	519	0.112	58	0.1	0.1	8.244	A
B-AD	67	17	394	0.171	67	0.2	0.2	11.525	B
A-BCD	0	0	579	0.000	0	0.0	0.0	0.000	A
A-B	45	11			45				
A-C	291	73			291				
D-ABC	80	20	389	0.207	80	0.3	0.3	11.819	B
C-ABD	102	25	878	0.116	102	0.3	0.3	4.853	A
C-D	18	5			18				
C-A	385	96			385				

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-CD	47	12	551	0.086	47	0.1	0.1	7.545	A
B-AD	55	14	427	0.129	56	0.2	0.2	10.148	B
A-BCD	0	0	604	0.000	0	0.0	0.0	0.000	A
A-B	37	9			37				
A-C	237	59			237				
D-ABC	66	16	423	0.155	66	0.3	0.2	10.229	B
C-ABD	72	18	832	0.087	73	0.3	0.2	4.964	A
C-D	16	4			16				
C-A	325	81			325				

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-CD	39	10	573	0.069	39	0.1	0.1	7.119	A
B-AD	47	12	451	0.103	47	0.2	0.1	9.329	A
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	31	8			31				
A-C	199	50			199				
D-ABC	55	14	447	0.123	55	0.2	0.1	9.301	A
C-ABD	55	14	799	0.068	55	0.2	0.1	5.063	A
C-D	13	3			13				
C-A	278	69			278				

2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.63	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.63	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
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	440	100.000
B		ONE HOUR	✓	122	100.000
C		ONE HOUR	✓	354	100.000
D		ONE HOUR	✓	85	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	57	383	0
	B	44	0	32	46
	C	282	32	0	40
	D	1	39	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	6	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.14	9.23	0.2	A	53	79
B-AD	0.18	12.06	0.2	B	59	89
A-BCD	0.00	0.00	0.0	A	0	0
A-B					52	78
A-C					351	527
D-ABC	0.24	12.19	0.3	B	78	117
C-ABD	0.08	5.39	0.2	A	49	74
C-D					34	51
C-A					241	362

Main Results for each time segment

16:15 - 16:30

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-CD	43	11	525	0.081	42	0.0	0.1	7.581	A
B-AD	49	12	444	0.111	49	0.0	0.1	9.522	A
A-BCD	0	0	645	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	288	72			288				
D-ABC	64	16	452	0.141	63	0.0	0.2	9.459	A
C-ABD	36	9	731	0.049	36	0.0	0.1	5.375	A
C-D	29	7			29				
C-A	202	50			202				

16:30 - 16:45

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-CD	51	13	498	0.103	51	0.1	0.1	8.186	A
B-AD	58	15	418	0.139	58	0.1	0.2	10.454	B
A-BCD	0	0	631	0.000	0	0.0	0.0	0.000	A
A-B	51	13			51				
A-C	344	86			344				
D-ABC	76	19	429	0.178	76	0.2	0.2	10.450	B
C-ABD	47	12	751	0.063	47	0.1	0.1	5.318	A
C-D	34	8			34				
C-A	238	59			238				

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-CD	64	16	461	0.139	64	0.1	0.2	9.221	A
B-AD	71	18	383	0.184	70	0.2	0.2	12.039	B
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	63	16			63				
A-C	422	105			422				
D-ABC	94	23	396	0.236	93	0.2	0.3	12.152	B
C-ABD	65	16	779	0.083	65	0.1	0.2	5.247	A
C-D	40	10			40				
C-A	285	71			285				

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-CD	64	16	460	0.139	64	0.2	0.2	9.234	A
B-AD	71	18	383	0.184	70	0.2	0.2	12.062	B
A-BCD	0	0	611	0.000	0	0.0	0.0	0.000	A
A-B	63	16			63				
A-C	422	105			422				
D-ABC	94	23	396	0.236	94	0.3	0.3	12.185	B
C-ABD	65	16	779	0.083	65	0.2	0.2	5.255	A
C-D	40	10			40				
C-A	284	71			284				

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-CD	51	13	498	0.103	52	0.2	0.1	8.204	A
B-AD	58	15	418	0.139	58	0.2	0.2	10.483	B
A-BCD	0	0	631	0.000	0	0.0	0.0	0.000	A
A-B	51	13			51				
A-C	344	86			344				
D-ABC	76	19	429	0.178	77	0.3	0.2	10.490	B
C-ABD	47	12	751	0.063	47	0.2	0.1	5.332	A
C-D	34	8			34				
C-A	237	59			237				

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-CD	43	11	525	0.081	43	0.1	0.1	7.603	A
B-AD	49	12	444	0.111	49	0.2	0.1	9.562	A
A-BCD	0	0	645	0.000	0	0.0	0.0	0.000	A
A-B	43	11			43				
A-C	288	72			288				
D-ABC	64	16	452	0.141	64	0.2	0.2	9.507	A
C-ABD	36	9	731	0.049	36	0.1	0.1	5.386	A
C-D	29	7			29				
C-A	202	50			202				

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.66	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.66	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
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	335	100.000
B		ONE HOUR	✓	121	100.000
C		ONE HOUR	✓	489	100.000
D		ONE HOUR	✓	78	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	45	290	0
	B	52	0	39	30
	C	422	47	0	20
	D	1	43	34	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	1	6	0
	B	3	0	3	12
	C	3	5	0	6
	D	0	0	3	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.12	8.61	0.1	A	51	77
B-AD	0.19	12.22	0.2	B	60	90
A-BCD	0.00	0.00	0.0	A	0	0
A-B					41	62
A-C					266	399
D-ABC	0.23	12.61	0.3	B	72	107
C-ABD	0.13	5.02	0.3	A	85	128
C-D					16	25
C-A					347	521

Main Results for each time segment

07:15 - 07:30

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-CD	42	10	563	0.074	41	0.0	0.1	7.268	A
B-AD	49	12	442	0.112	49	0.0	0.1	9.593	A
A-BCD	0	0	617	0.000	0	0.0	0.0	0.000	A
A-B	34	8			34				
A-C	218	55			218				
D-ABC	59	15	438	0.134	58	0.0	0.2	9.578	A
C-ABD	60	15	808	0.074	60	0.0	0.1	5.009	A
C-D	14	3			14				
C-A	294	74			294				

07:30 - 07:45

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-CD	50	13	539	0.093	50	0.1	0.1	7.763	A
B-AD	59	15	416	0.141	59	0.1	0.2	10.555	B
A-BCD	0	0	597	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	261	65			261				
D-ABC	70	18	412	0.170	70	0.2	0.2	10.662	B
C-ABD	80	20	843	0.095	80	0.1	0.2	4.915	A
C-D	16	4			16				
C-A	343	86			343				

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-CD	62	15	504	0.123	62	0.1	0.1	8.599	A
B-AD	71	18	380	0.188	71	0.2	0.2	12.195	B
A-BCD	0	0	570	0.000	0	0.0	0.0	0.000	A
A-B	50	12			50				
A-C	319	80			319				
D-ABC	86	21	375	0.229	86	0.2	0.3	12.569	B
C-ABD	114	29	893	0.128	114	0.2	0.3	4.816	A
C-D	19	5			19				
C-A	405	101			405				

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-CD	62	15	503	0.123	62	0.1	0.1	8.612	A
B-AD	71	18	380	0.188	71	0.2	0.2	12.219	B
A-BCD	0	0	570	0.000	0	0.0	0.0	0.000	A
A-B	50	12			50				
A-C	319	80			319				
D-ABC	86	21	375	0.229	86	0.3	0.3	12.608	B
C-ABD	115	29	893	0.128	115	0.3	0.3	4.818	A
C-D	19	5			19				
C-A	405	101			405				

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-CD	50	13	539	0.093	50	0.1	0.1	7.783	A
B-AD	59	15	415	0.141	59	0.2	0.2	10.582	B
A-BCD	0	0	597	0.000	0	0.0	0.0	0.000	A
A-B	40	10			40				
A-C	261	65			261				
D-ABC	70	18	411	0.170	70	0.3	0.2	10.704	B
C-ABD	80	20	844	0.095	81	0.3	0.2	4.917	A
C-D	16	4			16				
C-A	343	86			343				

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-CD	42	10	563	0.074	42	0.1	0.1	7.288	A
B-AD	49	12	441	0.112	50	0.2	0.1	9.631	A
A-BCD	0	0	617	0.000	0	0.0	0.0	0.000	A
A-B	34	8			34				
A-C	218	55			218				
D-ABC	59	15	438	0.134	59	0.2	0.2	9.627	A
C-ABD	60	15	809	0.075	61	0.2	0.1	5.016	A
C-D	14	3			14				
C-A	294	73			294				

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way	Two-way	Two-way	Two-way		2.80	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.80	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	473	100.000
B		ONE HOUR	✓	132	100.000
C		ONE HOUR	✓	385	100.000
D		ONE HOUR	✓	91	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	61	412	0
	B	49	0	34	49
	C	309	34	0	42
	D	1	42	48	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	2	0
	B	5	0	0	4
	C	5	3	0	3
	D	0	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-CD	0.15	9.79	0.2	A	56	85
B-AD	0.21	12.98	0.3	B	65	97
A-BCD	0.00	0.00	0.0	A	0	0
A-B					56	84
A-C					378	567
D-ABC	0.26	13.12	0.4	B	84	125
C-ABD	0.09	5.33	0.2	A	55	83
C-D					36	54
C-A					262	394

Main Results for each time segment

16:15 - 16:30

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-CD	46	11	514	0.089	45	0.0	0.1	7.805	A
B-AD	54	13	433	0.124	53	0.0	0.1	9.895	A
A-BCD	0	0	639	0.000	0	0.0	0.0	0.000	A
A-B	46	11			46				
A-C	310	78			310				
D-ABC	69	17	442	0.155	68	0.0	0.2	9.829	A
C-ABD	40	10	741	0.054	39	0.0	0.1	5.316	A
C-D	30	7			30				
C-A	220	55			220				

16:30 - 16:45

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-CD	55	14	485	0.113	55	0.1	0.1	8.516	A
B-AD	64	16	406	0.157	63	0.1	0.2	11.000	B
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	55	14			55				
A-C	370	93			370				
D-ABC	82	20	417	0.196	82	0.2	0.2	10.994	B
C-ABD	52	13	763	0.069	52	0.1	0.1	5.251	A
C-D	35	9			35				
C-A	259	65			259				

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-CD	68	17	443	0.154	68	0.1	0.2	9.769	A
B-AD	77	19	367	0.209	77	0.2	0.3	12.944	B
A-BCD	0	0	602	0.000	0	0.0	0.0	0.000	A
A-B	67	17			67				
A-C	454	113			454				
D-ABC	100	25	381	0.263	100	0.2	0.4	13.068	B
C-ABD	73	18	795	0.092	73	0.1	0.2	5.177	A
C-D	42	10			42				
C-A	309	77			309				

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-CD	68	17	443	0.155	68	0.2	0.2	9.790	A
B-AD	77	19	367	0.209	77	0.3	0.3	12.978	B
A-BCD	0	0	602	0.000	0	0.0	0.0	0.000	A
A-B	67	17			67				
A-C	454	113			454				
D-ABC	100	25	381	0.263	100	0.4	0.4	13.115	B
C-ABD	73	18	795	0.092	73	0.2	0.2	5.186	A
C-D	42	10			42				
C-A	309	77			309				

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-CD	55	14	484	0.114	55	0.2	0.1	8.538	A
B-AD	64	16	406	0.157	64	0.3	0.2	11.040	B
A-BCD	0	0	623	0.000	0	0.0	0.0	0.000	A
A-B	55	14			55				
A-C	370	93			370				
D-ABC	82	20	417	0.196	82	0.4	0.3	11.046	B
C-ABD	52	13	763	0.069	53	0.2	0.1	5.263	A
C-D	35	9			35				
C-A	259	65			259				

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-CD	46	11	514	0.089	46	0.1	0.1	7.832	A
B-AD	54	13	433	0.124	54	0.2	0.2	9.944	A
A-BCD	0	0	639	0.000	0	0.0	0.0	0.000	A
A-B	46	11			46				
A-C	310	78			310				
D-ABC	69	17	442	0.155	69	0.3	0.2	9.885	A
C-ABD	40	10	741	0.054	40	0.1	0.1	5.325	A
C-D	30	7			30				
C-A	220	55			220				

Appendix J-20

Junctions 10 Output – A635 / Church Street

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.2.1574
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Filename: A635 - Church Street.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\A635 - Church Street - Silkstone Lane Junctions
Report generation date: 09/11/2023 15:25:28

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a, PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment , AM
»2026 Employment , PM
»2026 Phase 1 (Without Link Road), AM
»2026 Phase 1 (Without Link Road), PM
»2026 Phase 1 (With Link Road), AM
»2026 Phase 1 (With Link Road), PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	0.1	6.85	0.07	0.1	6.16	0.06
Stream C-AB	0.1	5.74	0.07	0.4	5.15	0.16
	2026 Do Minimum					
Stream B-AC	0.1	6.89	0.07	0.1	6.17	0.06
Stream C-AB	0.2	5.70	0.08	0.4	5.14	0.16
	2033 Do Minimum					
Stream B-AC	0.1	7.00	0.07	0.1	6.30	0.06
Stream C-AB	0.2	5.68	0.09	0.4	5.12	0.18
	2026 Residential Phase 1a					
Stream B-AC	0.1	6.90	0.07	0.1	6.18	0.06
Stream C-AB	0.2	5.69	0.08	0.4	5.14	0.16
	2033 Full Residential					
Stream B-AC	0.1	6.97	0.07	0.1	6.31	0.07
Stream C-AB	0.2	5.61	0.09	0.5	5.11	0.19
	2026 Employment					
Stream B-AC	0.1	6.94	0.07	0.1	6.25	0.06
Stream C-AB	0.2	5.75	0.08	0.4	5.15	0.17
	2026 Phase 1 (Without Link Road)					
Stream B-AC	0.1	6.95	0.07	0.1	6.26	0.06
Stream C-AB	0.2	5.69	0.08	0.4	5.15	0.17
	2026 Phase 1 (With Link Road)					
Stream B-AC	0.1	6.95	0.07	0.1	6.26	0.06
Stream C-AB	0.2	5.69	0.08	0.4	5.15	0.17
	2033 Full Development					
Stream B-AC	0.1	7.09	0.08	0.1	6.39	0.07
Stream C-AB	0.2	5.64	0.10	0.5	5.13	0.19

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	A635/Church Street
Location	
Site number	
Date	25/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2022 Base	PM	ONE HOUR	16:30	18:00	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:30	18:00	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:30	18:00	15	✓
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓
D12	2026 Employment	PM	ONE HOUR	16:30	18:00	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:30	18:00	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:30	18:00	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:30	18:00	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.67	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.67	A

Arms

Arms

Arm	Name	Description	Arm type
A	A635/Lane Head Road West		Major
B	Church Street		Minor
C	A635/Lane Head Road East		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.35			95.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.50	50	100

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	625	0.109	0.275	0.173	0.393
B-C	790	0.112	0.283	-	-
C-B	629	0.229	0.229	-	-

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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	424	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	303	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	424
	B	5	0	32
	C	274	29	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.85	0.1	A	34	51
C-AB	0.07	5.74	0.1	A	42	63
C-A					236	354
A-B					0	0
A-C					389	584

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	662	0.042	28	0.0	0.0	6.191	A
C-AB	31	8	698	0.044	31	0.0	0.1	5.736	A
C-A	197	49			197				
A-B	0	0			0				
A-C	319	80			319				

07:30 - 07:45

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	33	8	642	0.052	33	0.0	0.1	6.451	A
C-AB	40	10	714	0.056	40	0.1	0.1	5.682	A
C-A	232	58			232				
A-B	0	0			0				
A-C	381	95			381				

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	41	10	614	0.066	41	0.1	0.1	6.849	A
C-AB	54	14	736	0.074	54	0.1	0.1	5.610	A
C-A	279	70			279				
A-B	0	0			0				
A-C	467	117			467				

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	41	10	614	0.066	41	0.1	0.1	6.849	A
C-AB	54	14	736	0.074	54	0.1	0.1	5.607	A
C-A	279	70			279				
A-B	0	0			0				
A-C	467	117			467				

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	33	8	642	0.052	33	0.1	0.1	6.453	A
C-AB	40	10	714	0.056	40	0.1	0.1	5.678	A
C-A	232	58			232				
A-B	0	0			0				
A-C	381	95			381				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	662	0.042	28	0.1	0.0	6.197	A
C-AB	31	8	698	0.045	31	0.1	0.1	5.738	A
C-A	197	49			197				
A-B	0	0			0				
A-C	319	80			319				

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	286	100.000
B		ONE HOUR	✓	33	100.000
C		ONE HOUR	✓	485	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	286
	B	5	0	28
	C	426	59	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.16	0.1	A	30	45
C-AB	0.16	5.15	0.4	A	104	157
C-A					341	511
A-B					0	0
A-C					262	394

Main Results for each time segment

16:30 - 16:45

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	25	6	680	0.037	25	0.0	0.0	5.680	A
C-AB	74	19	797	0.093	74	0.0	0.2	5.143	A
C-A	291	73			291				
A-B	0	0			0				
A-C	215	54			215				

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	30	7	663	0.045	30	0.0	0.0	5.872	A
C-AB	99	25	832	0.119	98	0.2	0.3	5.070	A
C-A	337	84			337				
A-B	0	0			0				
A-C	257	64			257				

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	36	9	640	0.057	36	0.0	0.1	6.162	A
C-AB	140	35	881	0.158	139	0.3	0.4	5.003	A
C-A	394	99			394				
A-B	0	0			0				
A-C	315	79			315				

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	36	9	640	0.057	36	0.1	0.1	6.162	A
C-AB	140	35	881	0.159	140	0.4	0.4	5.001	A
C-A	394	99			394				
A-B	0	0			0				
A-C	315	79			315				

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	30	7	663	0.045	30	0.1	0.0	5.874	A
C-AB	99	25	832	0.119	99	0.4	0.3	5.066	A
C-A	337	84			337				
A-B	0	0			0				
A-C	257	64			257				

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	25	6	680	0.037	25	0.0	0.0	5.684	A
C-AB	75	19	797	0.094	75	0.3	0.2	5.150	A
C-A	290	73			290				
A-B	0	0			0				
A-C	215	54			215				

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	433	100.000
B		ONE HOUR	✓	38	100.000
C		ONE HOUR	✓	323	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	433
	B	5	0	33
	C	292	31	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.89	0.1	A	35	52
C-AB	0.08	5.70	0.2	A	46	69
C-A					250	376
A-B					0	0
A-C					397	596

Main Results for each time segment

07:15 - 07:30

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	29	7	660	0.043	28	0.0	0.0	6.212	A
C-AB	34	8	706	0.048	34	0.0	0.1	5.691	A
C-A	209	52			209				
A-B	0	0			0				
A-C	326	81			326				

07:30 - 07:45

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	34	9	640	0.053	34	0.0	0.1	6.481	A
C-AB	44	11	724	0.061	44	0.1	0.1	5.630	A
C-A	247	62			247				
A-B	0	0			0				
A-C	389	97			389				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	10	611	0.068	42	0.1	0.1	6.894	A
C-AB	60	15	748	0.080	60	0.1	0.2	5.553	A
C-A	296	74			296				
A-B	0	0			0				
A-C	477	119			477				

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	42	10	611	0.068	42	0.1	0.1	6.894	A
C-AB	60	15	749	0.080	60	0.2	0.2	5.553	A
C-A	296	74			296				
A-B	0	0			0				
A-C	477	119			477				

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	34	9	640	0.053	34	0.1	0.1	6.483	A
C-AB	44	11	724	0.061	44	0.2	0.1	5.628	A
C-A	246	62			246				
A-B	0	0			0				
A-C	389	97			389				

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	29	7	660	0.043	29	0.1	0.0	6.218	A
C-AB	34	9	706	0.048	34	0.1	0.1	5.696	A
C-A	209	52			209				
A-B	0	0			0				
A-C	326	81			326				

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2026 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	304	100.000
B		ONE HOUR	✓	35	100.000
C		ONE HOUR	✓	498	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	304
	B	5	0	30
	C	438	60	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	3
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.17	0.1	A	32	48
C-AB	0.16	5.14	0.4	A	108	163
C-A					349	523
A-B					0	0
A-C					279	418

Main Results for each time segment

16:30 - 16:45

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	26	7	678	0.039	26	0.0	0.0	5.664	A
C-AB	77	19	801	0.096	76	0.0	0.2	5.131	A
C-A	298	75			298				
A-B	0	0			0				
A-C	229	57			229				

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	31	8	661	0.048	31	0.0	0.1	5.866	A
C-AB	102	26	836	0.122	102	0.2	0.3	5.064	A
C-A	345	86			345				
A-B	0	0			0				
A-C	273	68			273				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	10	637	0.061	38	0.1	0.1	6.171	A
C-AB	146	36	887	0.164	145	0.3	0.4	5.002	A
C-A	403	101			403				
A-B	0	0			0				
A-C	335	84			335				

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	39	10	637	0.061	39	0.1	0.1	6.172	A
C-AB	146	36	887	0.164	146	0.4	0.4	5.000	A
C-A	403	101			403				
A-B	0	0			0				
A-C	335	84			335				

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	31	8	661	0.048	32	0.1	0.1	5.867	A
C-AB	103	26	837	0.123	103	0.4	0.3	5.057	A
C-A	345	86			345				
A-B	0	0			0				
A-C	273	68			273				

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	26	7	678	0.039	26	0.1	0.0	5.670	A
C-AB	77	19	801	0.096	78	0.3	0.2	5.141	A
C-A	298	74			298				
A-B	0	0			0				
A-C	229	57			229				

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.71	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	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	458	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	341	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	458
	B	5	0	35
	C	308	33	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	7.00	0.1	A	37	55
C-AB	0.09	5.68	0.2	A	50	76
C-A					263	394
A-B					0	0
A-C					420	630

Main Results for each time segment

07:15 - 07:30

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	30	8	656	0.046	30	0.0	0.1	6.263	A
C-AB	37	9	711	0.052	37	0.0	0.1	5.676	A
C-A	220	55			220				
A-B	0	0			0				
A-C	345	86			345				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.1	0.1	6.552	A
C-AB	48	12	729	0.066	48	0.1	0.1	5.618	A
C-A	259	65			259				
A-B	0	0			0				
A-C	412	103			412				

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	44	11	604	0.073	44	0.1	0.1	7.000	A
C-AB	66	17	756	0.088	66	0.1	0.2	5.541	A
C-A	309	77			309				
A-B	0	0			0				
A-C	504	126			504				

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	44	11	604	0.073	44	0.1	0.1	7.000	A
C-AB	66	17	756	0.088	66	0.2	0.2	5.543	A
C-A	309	77			309				
A-B	0	0			0				
A-C	504	126			504				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	634	0.057	36	0.1	0.1	6.557	A
C-AB	48	12	729	0.066	48	0.2	0.1	5.614	A
C-A	258	65			258				
A-B	0	0			0				
A-C	412	103			412				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	8	656	0.046	30	0.1	0.1	6.267	A
C-AB	37	9	711	0.052	37	0.1	0.1	5.681	A
C-A	220	55			220				
A-B	0	0			0				
A-C	345	86			345				

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.02	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.02	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 Do Minimum	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	322	100.000
B		ONE HOUR	✓	37	100.000
C		ONE HOUR	✓	528	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	322
	B	5	0	32
	C	464	64	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.30	0.1	A	34	51
C-AB	0.18	5.12	0.4	A	121	181
C-A					364	546
A-B					0	0
A-C					295	443

Main Results for each time segment

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	675	0.041	28	0.0	0.0	5.750	A
C-AB	85	21	811	0.104	84	0.0	0.2	5.107	A
C-A	313	78			313				
A-B	0	0			0				
A-C	242	61			242				

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	33	8	657	0.051	33	0.0	0.1	5.968	A
C-AB	114	28	850	0.134	113	0.2	0.3	5.047	A
C-A	361	90			361				
A-B	0	0			0				
A-C	289	72			289				

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	41	10	632	0.064	41	0.1	0.1	6.300	A
C-AB	163	41	903	0.180	162	0.3	0.4	5.003	A
C-A	418	105			418				
A-B	0	0			0				
A-C	355	89			355				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	41	10	632	0.065	41	0.1	0.1	6.301	A
C-AB	163	41	904	0.181	163	0.4	0.4	5.003	A
C-A	418	105			418				
A-B	0	0			0				
A-C	355	89			355				

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	33	8	657	0.051	33	0.1	0.1	5.969	A
C-AB	114	28	850	0.134	114	0.4	0.3	5.043	A
C-A	361	90			361				
A-B	0	0			0				
A-C	289	72			289				

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	28	7	675	0.041	28	0.1	0.0	5.756	A
C-AB	85	21	812	0.105	85	0.3	0.2	5.117	A
C-A	312	78			312				
A-B	0	0			0				
A-C	242	61			242				

2026 Residential Phase 1a, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	433	100.000
B		ONE HOUR	✓	38	100.000
C		ONE HOUR	✓	325	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	433
	B	5	0	33
	C	294	31	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.90	0.1	A	35	52
C-AB	0.08	5.69	0.2	A	46	69
C-A					252	378
A-B					0	0
A-C					397	596

Main Results for each time segment

07:15 - 07:30

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	29	7	660	0.043	28	0.0	0.0	6.212	A
C-AB	34	8	707	0.048	34	0.0	0.1	5.683	A
C-A	211	53			211				
A-B	0	0			0				
A-C	326	81			326				

07:30 - 07:45

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	34	9	640	0.053	34	0.0	0.1	6.482	A
C-AB	44	11	725	0.061	44	0.1	0.1	5.621	A
C-A	248	62			248				
A-B	0	0			0				
A-C	389	97			389				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	10	611	0.068	42	0.1	0.1	6.895	A
C-AB	60	15	750	0.080	60	0.1	0.2	5.542	A
C-A	298	74			298				
A-B	0	0			0				
A-C	477	119			477				

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	42	10	611	0.068	42	0.1	0.1	6.895	A
C-AB	60	15	750	0.080	60	0.2	0.2	5.544	A
C-A	297	74			297				
A-B	0	0			0				
A-C	477	119			477				

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	34	9	640	0.053	34	0.1	0.1	6.486	A
C-AB	44	11	725	0.061	44	0.2	0.1	5.621	A
C-A	248	62			248				
A-B	0	0			0				
A-C	389	97			389				

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	29	7	660	0.043	29	0.1	0.0	6.219	A
C-AB	34	9	708	0.048	34	0.1	0.1	5.685	A
C-A	211	53			211				
A-B	0	0			0				
A-C	326	81			326				

2026 Residential Phase 1a, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	307	100.000
B		ONE HOUR	✓	35	100.000
C		ONE HOUR	✓	500	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	307
	B	5	0	30
	C	440	60	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	3
	C	1	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.18	0.1	A	32	48
C-AB	0.16	5.14	0.4	A	109	163
C-A					350	525
A-B					0	0
A-C					282	423

Main Results for each time segment

16:30 - 16:45

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	26	7	677	0.039	26	0.0	0.0	5.670	A
C-AB	77	19	801	0.096	76	0.0	0.2	5.128	A
C-A	299	75			299				
A-B	0	0			0				
A-C	231	58			231				

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	31	8	660	0.048	31	0.0	0.1	5.874	A
C-AB	103	26	837	0.123	102	0.2	0.3	5.061	A
C-A	347	87			347				
A-B	0	0			0				
A-C	276	69			276				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	39	10	636	0.061	38	0.1	0.1	6.183	A
C-AB	146	37	888	0.165	146	0.3	0.4	5.000	A
C-A	404	101			404				
A-B	0	0			0				
A-C	338	85			338				

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	39	10	636	0.061	39	0.1	0.1	6.183	A
C-AB	146	37	888	0.165	146	0.4	0.4	4.999	A
C-A	404	101			404				
A-B	0	0			0				
A-C	338	85			338				

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	31	8	660	0.048	32	0.1	0.1	5.878	A
C-AB	103	26	838	0.123	103	0.4	0.3	5.054	A
C-A	347	87			347				
A-B	0	0			0				
A-C	276	69			276				

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	26	7	677	0.039	26	0.1	0.0	5.676	A
C-AB	77	19	802	0.097	78	0.3	0.2	5.138	A
C-A	299	75			299				
A-B	0	0			0				
A-C	231	58			231				

2033 Full Residential, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.71	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	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	463	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	359	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	463
	B	5	0	35
	C	324	35	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	6
	C	5	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	0.07	6.97	0.1	A	37	55
C-AB	0.09	5.61	0.2	A	55	82
C-A					275	412
A-B					0	0
A-C					425	637

Main Results for each time segment

07:15 - 07:30

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	30	8	654	0.046	30	0.0	0.1	6.228	A
C-AB	40	10	719	0.056	40	0.0	0.1	5.601	A
C-A	230	58			230				
A-B	0	0			0				
A-C	349	87			349				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	632	0.057	36	0.1	0.1	6.521	A
C-AB	52	13	739	0.071	52	0.1	0.1	5.542	A
C-A	271	68			271				
A-B	0	0			0				
A-C	416	104			416				

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	44	11	602	0.073	44	0.1	0.1	6.975	A
C-AB	72	18	767	0.094	72	0.1	0.2	5.467	A
C-A	323	81			323				
A-B	0	0			0				
A-C	510	127			510				

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	44	11	602	0.073	44	0.1	0.1	6.975	A
C-AB	72	18	768	0.094	72	0.2	0.2	5.472	A
C-A	323	81			323				
A-B	0	0			0				
A-C	510	127			510				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	632	0.057	36	0.1	0.1	6.525	A
C-AB	52	13	739	0.071	53	0.2	0.1	5.542	A
C-A	270	68			270				
A-B	0	0			0				
A-C	416	104			416				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	8	654	0.046	30	0.1	0.1	6.231	A
C-AB	40	10	719	0.056	40	0.1	0.1	5.607	A
C-A	230	58			230				
A-B	0	0			0				
A-C	349	87			349				

2033 Full Residential, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.03	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.03	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2033 Full Residential	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	338	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	539	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	338
	B	5	0	35
	C	474	65	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	3
	C	1	5	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	0.07	6.31	0.1	A	37	55
C-AB	0.19	5.11	0.5	A	125	187
C-A					370	555
A-B					0	0
A-C					310	465

Main Results for each time segment

16:30 - 16:45

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	30	8	675	0.045	30	0.0	0.0	5.729	A
C-AB	87	22	814	0.107	86	0.0	0.2	5.102	A
C-A	319	80			319				
A-B	0	0			0				
A-C	254	64			254				

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	36	9	656	0.055	36	0.0	0.1	5.957	A
C-AB	117	29	853	0.137	117	0.2	0.3	5.046	A
C-A	367	92			367				
A-B	0	0			0				
A-C	304	76			304				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	630	0.070	44	0.1	0.1	6.305	A
C-AB	169	42	908	0.186	169	0.3	0.5	5.010	A
C-A	424	106			424				
A-B	0	0			0				
A-C	372	93			372				

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	44	11	630	0.070	44	0.1	0.1	6.306	A
C-AB	169	42	909	0.187	169	0.5	0.5	5.011	A
C-A	424	106			424				
A-B	0	0			0				
A-C	372	93			372				

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	36	9	656	0.055	36	0.1	0.1	5.961	A
C-AB	118	29	854	0.138	118	0.5	0.3	5.042	A
C-A	367	92			367				
A-B	0	0			0				
A-C	304	76			304				

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	30	8	674	0.045	30	0.1	0.0	5.733	A
C-AB	88	22	815	0.108	88	0.3	0.2	5.113	A
C-A	318	80			318				
A-B	0	0			0				
A-C	254	64			254				

2026 Employment , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.71	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
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	445	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	330	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	445
	B	5	0	35
	C	298	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	6	8	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	0.07	6.94	0.1	A	37	55
C-AB	0.08	5.75	0.2	A	48	72
C-A					255	382
A-B					0	0
A-C					408	613

Main Results for each time segment

07:15 - 07:30

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	30	8	659	0.046	30	0.0	0.1	6.231	A
C-AB	35	9	708	0.050	35	0.0	0.1	5.745	A
C-A	213	53			213				
A-B	0	0			0				
A-C	335	84			335				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.511	A
C-AB	46	11	725	0.063	46	0.1	0.1	5.687	A
C-A	251	63			251				
A-B	0	0			0				
A-C	400	100			400				

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	44	11	609	0.072	44	0.1	0.1	6.941	A
C-AB	63	16	751	0.084	63	0.1	0.2	5.609	A
C-A	301	75			301				
A-B	0	0			0				
A-C	490	122			490				

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	44	11	609	0.072	44	0.1	0.1	6.941	A
C-AB	63	16	751	0.084	63	0.2	0.2	5.612	A
C-A	300	75			300				
A-B	0	0			0				
A-C	490	122			490				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.513	A
C-AB	46	11	725	0.063	46	0.2	0.1	5.683	A
C-A	251	63			251				
A-B	0	0			0				
A-C	400	100			400				

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	30	8	659	0.046	30	0.1	0.1	6.237	A
C-AB	35	9	708	0.050	36	0.1	0.1	5.750	A
C-A	213	53			213				
A-B	0	0			0				
A-C	335	84			335				

2026 Employment , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D12	2026 Employment	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	309	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	511	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	309
	B	5	0	31
	C	449	62	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.25	0.1	A	33	50
C-AB	0.17	5.15	0.4	A	114	171
C-A					355	532
A-B					0	0
A-C					284	425

Main Results for each time segment

16:30 - 16:45

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	27	7	677	0.040	27	0.0	0.0	5.722	A
C-AB	80	20	806	0.100	80	0.0	0.2	5.142	A
C-A	304	76			304				
A-B	0	0			0				
A-C	233	58			233				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	660	0.049	32	0.0	0.1	5.930	A
C-AB	107	27	842	0.128	107	0.2	0.3	5.080	A
C-A	352	88			352				
A-B	0	0			0				
A-C	278	69			278				

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	40	10	636	0.062	40	0.1	0.1	6.246	A
C-AB	153	38	894	0.172	153	0.3	0.4	5.030	A
C-A	409	102			409				
A-B	0	0			0				
A-C	340	85			340				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	40	10	636	0.062	40	0.1	0.1	6.247	A
C-AB	154	38	895	0.172	154	0.4	0.4	5.031	A
C-A	409	102			409				
A-B	0	0			0				
A-C	340	85			340				

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	32	8	660	0.049	32	0.1	0.1	5.934	A
C-AB	108	27	843	0.128	108	0.4	0.3	5.077	A
C-A	352	88			352				
A-B	0	0			0				
A-C	278	69			278				

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	27	7	677	0.040	27	0.1	0.0	5.725	A
C-AB	81	20	806	0.100	81	0.3	0.2	5.152	A
C-A	304	76			304				
A-B	0	0			0				
A-C	233	58			233				

2026 Phase 1 (Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.70	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.70	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
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	446	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	332	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	446
	B	5	0	35
	C	300	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.95	0.1	A	37	55
C-AB	0.08	5.69	0.2	A	48	72
C-A					256	385
A-B					0	0
A-C					409	614

Main Results for each time segment

07:15 - 07:30

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	30	8	659	0.046	30	0.0	0.1	6.234	A
C-AB	35	9	709	0.050	35	0.0	0.1	5.684	A
C-A	215	54			215				
A-B	0	0			0				
A-C	336	84			336				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.514	A
C-AB	46	11	726	0.063	46	0.1	0.1	5.623	A
C-A	253	63			253				
A-B	0	0			0				
A-C	401	100			401				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.1	0.2	5.550	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.2	0.2	5.548	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.519	A
C-AB	46	11	726	0.063	46	0.2	0.1	5.624	A
C-A	252	63			252				
A-B	0	0			0				
A-C	401	100			401				

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	30	8	659	0.046	30	0.1	0.1	6.238	A
C-AB	35	9	709	0.050	36	0.1	0.1	5.689	A
C-A	214	54			214				
A-B	0	0			0				
A-C	336	84			336				

2026 Phase 1 (Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	312	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	312
	B	5	0	31
	C	450	62	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.26	0.1	A	33	50
C-AB	0.17	5.15	0.4	A	114	171
C-A					356	533
A-B					0	0
A-C					286	429

Main Results for each time segment

16:30 - 16:45

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	27	7	677	0.040	27	0.0	0.0	5.728	A
C-AB	81	20	806	0.100	80	0.0	0.2	5.142	A
C-A	305	76			305				
A-B	0	0			0				
A-C	235	59			235				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	659	0.049	32	0.0	0.1	5.938	A
C-AB	108	27	843	0.128	107	0.2	0.3	5.080	A
C-A	353	88			353				
A-B	0	0			0				
A-C	280	70			280				

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	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	38	895	0.172	153	0.3	0.4	5.029	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	39	895	0.172	154	0.4	0.4	5.030	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

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	32	8	659	0.049	32	0.1	0.1	5.942	A
C-AB	108	27	843	0.128	109	0.4	0.3	5.077	A
C-A	352	88			352				
A-B	0	0			0				
A-C	280	70			280				

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	27	7	677	0.040	27	0.1	0.0	5.734	A
C-AB	81	20	806	0.100	81	0.3	0.2	5.154	A
C-A	304	76			304				
A-B	0	0			0				
A-C	235	59			235				

2026 Phase 1 (With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.70	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.70	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
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	446	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	332	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	446
	B	5	0	35
	C	300	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	6.95	0.1	A	37	55
C-AB	0.08	5.69	0.2	A	48	72
C-A					256	385
A-B					0	0
A-C					409	614

Main Results for each time segment

07:15 - 07:30

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	30	8	659	0.046	30	0.0	0.1	6.234	A
C-AB	35	9	709	0.050	35	0.0	0.1	5.684	A
C-A	215	54			215				
A-B	0	0			0				
A-C	336	84			336				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.514	A
C-AB	46	11	726	0.063	46	0.1	0.1	5.623	A
C-A	253	63			253				
A-B	0	0			0				
A-C	401	100			401				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.1	0.2	5.550	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

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	44	11	609	0.072	44	0.1	0.1	6.946	A
C-AB	63	16	752	0.084	63	0.2	0.2	5.548	A
C-A	302	76			302				
A-B	0	0			0				
A-C	491	123			491				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	36	9	638	0.056	36	0.1	0.1	6.519	A
C-AB	46	11	726	0.063	46	0.2	0.1	5.624	A
C-A	252	63			252				
A-B	0	0			0				
A-C	401	100			401				

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	30	8	659	0.046	30	0.1	0.1	6.238	A
C-AB	35	9	709	0.050	36	0.1	0.1	5.689	A
C-A	214	54			214				
A-B	0	0			0				
A-C	336	84			336				

2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	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
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	312	100.000
B		ONE HOUR	✓	36	100.000
C		ONE HOUR	✓	512	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	312
	B	5	0	31
	C	450	62	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	6.26	0.1	A	33	50
C-AB	0.17	5.15	0.4	A	114	171
C-A					356	533
A-B					0	0
A-C					286	429

Main Results for each time segment

16:30 - 16:45

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	27	7	677	0.040	27	0.0	0.0	5.728	A
C-AB	81	20	806	0.100	80	0.0	0.2	5.142	A
C-A	305	76			305				
A-B	0	0			0				
A-C	235	59			235				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	32	8	659	0.049	32	0.0	0.1	5.938	A
C-AB	108	27	843	0.128	107	0.2	0.3	5.080	A
C-A	353	88			353				
A-B	0	0			0				
A-C	280	70			280				

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	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	38	895	0.172	153	0.3	0.4	5.029	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	40	10	635	0.062	40	0.1	0.1	6.257	A
C-AB	154	39	895	0.172	154	0.4	0.4	5.030	A
C-A	410	102			410				
A-B	0	0			0				
A-C	344	86			344				

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	32	8	659	0.049	32	0.1	0.1	5.942	A
C-AB	108	27	843	0.128	109	0.4	0.3	5.077	A
C-A	352	88			352				
A-B	0	0			0				
A-C	280	70			280				

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	27	7	677	0.040	27	0.1	0.0	5.734	A
C-AB	81	20	806	0.100	81	0.3	0.2	5.154	A
C-A	304	76			304				
A-B	0	0			0				
A-C	235	59			235				

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.74	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.74	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
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	476	100.000
B		ONE HOUR	✓	43	100.000
C		ONE HOUR	✓	366	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	476
	B	5	0	38
	C	330	36	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	25	0	7
	C	5	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	7.09	0.1	A	39	59
C-AB	0.10	5.64	0.2	A	57	86
C-A					279	418
A-B					0	0
A-C					437	655

Main Results for each time segment

07:15 - 07:30

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	32	8	654	0.050	32	0.0	0.1	6.301	A
C-AB	41	10	720	0.058	41	0.0	0.1	5.638	A
C-A	234	59			234				
A-B	0	0			0				
A-C	358	90			358				

07:30 - 07:45

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	39	10	631	0.061	39	0.1	0.1	6.609	A
C-AB	54	14	740	0.073	54	0.1	0.1	5.578	A
C-A	275	69			275				
A-B	0	0			0				
A-C	428	107			428				

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	47	12	600	0.079	47	0.1	0.1	7.088	A
C-AB	75	19	770	0.098	75	0.1	0.2	5.503	A
C-A	328	82			328				
A-B	0	0			0				
A-C	524	131			524				

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	47	12	600	0.079	47	0.1	0.1	7.088	A
C-AB	76	19	770	0.098	76	0.2	0.2	5.506	A
C-A	327	82			327				
A-B	0	0			0				
A-C	524	131			524				

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	39	10	631	0.061	39	0.1	0.1	6.613	A
C-AB	54	14	740	0.073	55	0.2	0.1	5.577	A
C-A	275	69			275				
A-B	0	0			0				
A-C	428	107			428				

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	32	8	654	0.050	32	0.1	0.1	6.307	A
C-AB	42	10	720	0.058	42	0.1	0.1	5.644	A
C-A	234	58			234				
A-B	0	0			0				
A-C	358	90			358				

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.06	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
D18	2033 Full Development	PM	ONE HOUR	16:30	18:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	343	100.000
B		ONE HOUR	✓	40	100.000
C		ONE HOUR	✓	551	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	343
	B	5	0	35
	C	484	67	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	4
	B	0	0	4
	C	2	5	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	0.07	6.39	0.1	A	37	55
C-AB	0.19	5.13	0.5	A	131	196
C-A					375	562
A-B					0	0
A-C					315	472

Main Results for each time segment

16:30 - 16:45

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	30	8	673	0.045	30	0.0	0.0	5.792	A
C-AB	91	23	819	0.111	90	0.0	0.2	5.119	A
C-A	324	81			324				
A-B	0	0			0				
A-C	258	65			258				

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	36	9	654	0.055	36	0.0	0.1	6.026	A
C-AB	123	31	859	0.143	122	0.2	0.3	5.067	A
C-A	373	93			373				
A-B	0	0			0				
A-C	308	77			308				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	627	0.070	44	0.1	0.1	6.386	A
C-AB	178	44	915	0.194	177	0.3	0.5	5.050	A
C-A	429	107			429				
A-B	0	0			0				
A-C	378	94			378				

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	44	11	627	0.070	44	0.1	0.1	6.386	A
C-AB	178	44	915	0.194	178	0.5	0.5	5.051	A
C-A	429	107			429				
A-B	0	0			0				
A-C	378	94			378				

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	36	9	654	0.055	36	0.1	0.1	6.028	A
C-AB	123	31	859	0.143	124	0.5	0.3	5.070	A
C-A	372	93			372				
A-B	0	0			0				
A-C	308	77			308				

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	30	8	673	0.045	30	0.1	0.0	5.796	A
C-AB	91	23	819	0.112	92	0.3	0.2	5.130	A
C-A	323	81			323				
A-B	0	0			0				
A-C	258	65			258				

Appendix J-21

Junctions 10 Output – Elmhirst Lane / A628 Whinby Road / B6099 / A628 Barnsley Road Roundabout

Junctions 10

ARCADY 10 - Roundabout Module

Version: 10.0.2.1574
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Filename: Elmhirst Lane - B6099 - A628 Roundabout.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Elmhirst Lane - B6099 - A628 Roundabout
Report generation date: 09/11/2023 14:54:27

»Existing Layout - 2022 Base, AM
»Existing Layout - 2022 Base, PM
»Existing Layout - 2026 Do Minimum, AM
»Existing Layout - 2026 Do Minimum, PM
»Existing Layout - 2033 Do Minimum, AM
»Existing Layout - 2033 Do Minimum, PM
»Existing Layout - 2026 Residential Phase 1a , AM
»Existing Layout - 2026 Residential Phase 1a , PM
»Existing Layout - 2033 Full Residential , AM
»Existing Layout - 2033 Full Residential , PM
»Existing Layout - 2026 Employment, AM
»Existing Layout - 2026 Employment, PM
»Existing Layout - 2026 Phase 1 (Without Link Road), AM
»Existing Layout - 2026 Phase 1 (Without Link Road), PM
»Existing Layout - 2026 Phase 1 (With Link Road), AM
»Existing Layout - 2026 Phase 1 (With Link Road), PM
»Existing Layout - 2033 Full Development, AM
»Existing Layout - 2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	Existing Layout - 2022 Base					
Arm 1	0.0	3.86	0.04	0.1	3.32	0.06
Arm 2	0.8	4.81	0.41	1.2	5.89	0.55
Arm 3	0.2	3.42	0.18	0.3	3.78	0.23
Arm 4	1.4	6.16	0.56	0.8	4.75	0.44
	Existing Layout - 2026 Do Minimum					
Arm 1	0.0	3.89	0.04	0.1	3.34	0.06
Arm 2	0.8	4.86	0.42	1.3	5.98	0.56
Arm 3	0.2	3.44	0.19	0.3	3.82	0.23
Arm 4	1.4	6.29	0.57	0.8	4.81	0.44
	Existing Layout - 2033 Do Minimum					
Arm 1	0.1	4.05	0.05	0.1	3.44	0.06
Arm 2	0.9	5.10	0.44	1.5	6.56	0.60
Arm 3	0.3	3.56	0.20	0.3	4.02	0.25
Arm 4	1.6	6.91	0.61	0.9	5.09	0.47
	Existing Layout - 2026 Residential Phase 1a					
Arm 1	0.0	3.90	0.04	0.1	3.35	0.06
Arm 2	0.8	4.89	0.42	1.3	6.02	0.56
Arm 3	0.2	3.46	0.19	0.3	3.83	0.23
Arm 4	1.4	6.30	0.57	0.8	4.84	0.45
	Existing Layout - 2033 Full Residential					
Arm 1	0.1	4.08	0.05	0.1	3.53	0.07
Arm 2	1.0	5.36	0.47	1.6	6.86	0.62
Arm 3	0.3	3.64	0.21	0.4	4.11	0.26
Arm 4	1.7	7.06	0.62	1.0	5.37	0.50
	Existing Layout - 2026 Employment					
Arm 1	0.0	3.94	0.04	0.1	3.35	0.06
Arm 2	0.8	4.92	0.42	1.4	6.20	0.57
Arm 3	0.3	3.48	0.19	0.3	3.88	0.23
Arm 4	1.5	6.47	0.58	0.8	4.85	0.45
	Existing Layout - 2026 Phase 1 (Without Link Road)					
Arm 1	0.0	3.95	0.04	0.1	3.36	0.06
Arm 2	0.8	4.95	0.43	1.4	6.25	0.57
Arm 3	0.3	3.49	0.19	0.3	3.89	0.24
Arm 4	1.5	6.48	0.58	0.9	4.88	0.45
	Existing Layout - 2026 Phase 1 (With Link Road)					
Arm 1	0.0	3.95	0.04	0.1	3.36	0.06
Arm 2	0.8	4.95	0.43	1.4	6.25	0.57
Arm 3	0.3	3.49	0.19	0.3	3.89	0.24
Arm 4	1.5	6.48	0.58	0.9	4.88	0.45
	Existing Layout - 2033 Full Development					
Arm 1	0.1	4.13	0.05	0.1	3.55	0.07
Arm 2	1.0	5.43	0.48	1.7	7.15	0.63
Arm 3	0.3	3.69	0.21	0.4	4.17	0.26
Arm 4	1.8	7.29	0.63	1.0	5.41	0.50

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	A628 Whinby Road / B6099 / Elmhirst Lane
Location	
Site number	
Date	22/09/2023
Version	
Status	Existing
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	3062
Enumerator	Fore Consulting Ltd
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	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓
D9	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:15	17:45	15	✓
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:15	17:45	15	✓
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

Existing Layout - 2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.22	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.22	A

Arms

Arms

Arm	Name	Description	No give-way line
1	Elmhirst Lane		
2	A628 Whinby Road		
3	B6099		
4	A628 Barnsley Road		

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
1	3.63	6.04	10.2	44.3	43.7	22.3		
2	3.51	6.68	7.4	18.0	43.5	23.3		
3	3.70	6.36	15.5	60.6	44.0	27.5		
4	3.52	6.37	8.0	18.3	43.8	23.6		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.628	1595
2	0.597	1495
3	0.645	1709
4	0.597	1497

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	39	100.000
2		ONE HOUR	✓	527	100.000
3		ONE HOUR	✓	227	100.000
4		ONE HOUR	✓	726	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	20	15	4
	2	44	0	47	436
	3	10	71	0	146
	4	9	611	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	9	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.04	3.86	0.0	A	36	54
2	0.41	4.81	0.8	A	484	725
3	0.18	3.42	0.2	A	208	312
4	0.56	6.16	1.4	A	666	999

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	29	7	591	1225	0.024	29	47	0.0	0.0	3.254	A
2	397	99	94	1439	0.276	395	526	0.0	0.4	3.825	A
3	171	43	363	1475	0.116	170	126	0.0	0.1	2.922	A
4	547	137	94	1441	0.379	544	439	0.0	0.6	4.215	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	35	9	707	1151	0.030	35	57	0.0	0.0	3.485	A
2	474	118	112	1428	0.332	473	630	0.4	0.5	4.189	A
3	204	51	435	1429	0.143	204	151	0.1	0.2	3.114	A
4	653	163	112	1430	0.456	652	526	0.6	0.9	4.865	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	43	11	866	1052	0.041	43	69	0.0	0.0	3.856	A
2	580	145	137	1413	0.411	579	771	0.5	0.8	4.795	A
3	250	62	532	1366	0.183	250	185	0.2	0.2	3.417	A
4	799	200	137	1415	0.565	797	644	0.9	1.3	6.122	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	43	11	868	1051	0.041	43	69	0.0	0.0	3.860	A
2	580	145	138	1412	0.411	580	773	0.8	0.8	4.805	A
3	250	62	533	1366	0.183	250	185	0.2	0.2	3.419	A
4	799	200	138	1415	0.565	799	645	1.3	1.4	6.159	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	35	9	710	1150	0.031	35	57	0.0	0.0	3.493	A
2	474	118	113	1427	0.332	475	633	0.8	0.6	4.203	A
3	204	51	436	1428	0.143	204	151	0.2	0.2	3.119	A
4	653	163	113	1430	0.456	655	528	1.4	0.9	4.901	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	29	7	594	1222	0.024	29	47	0.0	0.0	3.263	A
2	397	99	94	1438	0.276	397	529	0.6	0.4	3.843	A
3	171	43	365	1474	0.116	171	127	0.2	0.1	2.927	A
4	547	137	94	1441	0.379	548	442	0.9	0.6	4.249	A

Existing Layout - 2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.04	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.04	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	2022 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	59	100.000
2		ONE HOUR	✓	695	100.000
3		ONE HOUR	✓	259	100.000
4		ONE HOUR	✓	557	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	34	16	9
	2	25	0	62	608
	3	13	98	0	148
	4	11	416	128	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	3
	3	0	1	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.32	0.1	A	54	81
2	0.55	5.89	1.2	A	638	957
3	0.23	3.78	0.3	A	238	356
4	0.44	4.75	0.8	A	511	767

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	483	1292	0.034	44	37	0.0	0.0	2.884	A
2	523	131	116	1425	0.367	521	411	0.0	0.6	4.074	A
3	195	49	483	1398	0.139	194	154	0.0	0.2	3.034	A
4	419	105	102	1436	0.292	418	575	0.0	0.4	3.699	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	53	13	578	1232	0.043	53	44	0.0	0.0	3.051	A
2	625	156	139	1412	0.443	624	492	0.6	0.8	4.685	A
3	233	58	578	1336	0.174	233	185	0.2	0.2	3.311	A
4	501	125	122	1424	0.352	500	689	0.4	0.6	4.082	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	65	16	708	1151	0.056	65	54	0.0	0.1	3.313	A
2	765	191	170	1393	0.549	764	602	0.8	1.2	5.855	A
3	285	71	707	1253	0.228	285	226	0.2	0.3	3.775	A
4	613	153	150	1408	0.436	612	843	0.6	0.8	4.739	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	65	16	709	1150	0.056	65	54	0.1	0.1	3.315	A
2	765	191	171	1393	0.549	765	603	1.2	1.2	5.885	A
3	285	71	709	1252	0.228	285	227	0.3	0.3	3.779	A
4	613	153	150	1408	0.436	613	844	0.8	0.8	4.751	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	53	13	580	1231	0.043	53	44	0.1	0.0	3.054	A
2	625	156	140	1411	0.443	626	493	1.2	0.8	4.718	A
3	233	58	580	1335	0.174	233	186	0.3	0.2	3.317	A
4	501	125	122	1424	0.352	502	691	0.8	0.6	4.096	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	485	1291	0.034	44	37	0.0	0.0	2.890	A
2	523	131	117	1425	0.367	524	413	0.8	0.6	4.106	A
3	195	49	486	1396	0.140	195	155	0.2	0.2	3.045	A
4	419	105	103	1436	0.292	420	578	0.6	0.4	3.719	A

Existing Layout - 2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.30	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.30	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
D3	2026 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	40	100.000
2		ONE HOUR	✓	535	100.000
3		ONE HOUR	✓	230	100.000
4		ONE HOUR	✓	736	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	21	15	4
	2	44	0	48	443
	3	10	73	0	147
	4	9	621	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	9	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.04	3.89	0.0	A	37	55
2	0.42	4.86	0.8	A	491	736
3	0.19	3.44	0.2	A	211	317
4	0.57	6.29	1.4	A	675	1013

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	600	1219	0.025	30	47	0.0	0.0	3.269	A
2	403	101	94	1439	0.280	401	536	0.0	0.4	3.848	A
3	173	43	368	1472	0.118	173	127	0.0	0.1	2.935	A
4	554	139	95	1440	0.385	551	445	0.0	0.7	4.255	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	718	1145	0.031	36	57	0.0	0.0	3.506	A
2	481	120	112	1428	0.337	480	642	0.4	0.6	4.221	A
3	207	52	441	1425	0.145	207	152	0.1	0.2	3.132	A
4	662	165	114	1429	0.463	661	533	0.7	0.9	4.930	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	879	1044	0.042	44	69	0.0	0.0	3.889	A
2	589	147	137	1413	0.417	588	785	0.6	0.8	4.846	A
3	253	63	540	1361	0.186	253	186	0.2	0.2	3.443	A
4	810	203	140	1414	0.573	808	653	0.9	1.4	6.245	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	881	1043	0.042	44	69	0.0	0.0	3.894	A
2	589	147	138	1412	0.417	589	787	0.8	0.8	4.857	A
3	253	63	541	1361	0.186	253	186	0.2	0.2	3.445	A
4	810	203	140	1414	0.573	810	654	1.4	1.4	6.285	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	721	1143	0.031	36	57	0.0	0.0	3.515	A
2	481	120	113	1427	0.337	482	645	0.8	0.6	4.235	A
3	207	52	442	1424	0.145	207	152	0.2	0.2	3.135	A
4	662	165	114	1429	0.463	664	535	1.4	0.9	4.967	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	603	1217	0.025	30	47	0.0	0.0	3.276	A
2	403	101	94	1438	0.280	403	539	0.6	0.4	3.866	A
3	173	43	370	1471	0.118	173	127	0.2	0.1	2.943	A
4	554	139	96	1440	0.385	555	448	0.9	0.7	4.292	A

Existing Layout - 2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.11	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.11	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 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	60	100.000
2		ONE HOUR	✓	708	100.000
3		ONE HOUR	✓	261	100.000
4		ONE HOUR	✓	565	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	35	16	9
	2	25	0	63	620
	3	13	99	0	149
	4	11	423	129	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	2
	3	0	1	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.34	0.1	A	55	83
2	0.56	5.98	1.3	A	650	975
3	0.23	3.82	0.3	A	239	359
4	0.44	4.81	0.8	A	518	778

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	490	1288	0.035	45	37	0.0	0.0	2.895	A
2	533	133	117	1425	0.374	531	418	0.0	0.6	4.086	A
3	196	49	492	1392	0.141	196	156	0.0	0.2	3.053	A
4	425	106	103	1436	0.296	424	585	0.0	0.4	3.723	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	586	1227	0.044	54	44	0.0	0.0	3.067	A
2	636	159	140	1411	0.451	636	500	0.6	0.8	4.716	A
3	235	59	589	1329	0.176	234	187	0.2	0.2	3.337	A
4	508	127	123	1424	0.357	507	700	0.4	0.6	4.117	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	718	1145	0.058	66	54	0.0	0.1	3.336	A
2	780	195	172	1392	0.560	778	612	0.8	1.3	5.942	A
3	287	72	721	1244	0.231	287	229	0.2	0.3	3.817	A
4	622	156	151	1407	0.442	621	857	0.6	0.8	4.796	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	719	1144	0.058	66	54	0.1	0.1	3.338	A
2	780	195	172	1392	0.560	779	613	1.3	1.3	5.978	A
3	287	72	722	1243	0.231	287	229	0.3	0.3	3.821	A
4	622	156	151	1407	0.442	622	859	0.8	0.8	4.808	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	588	1226	0.044	54	44	0.1	0.0	3.072	A
2	636	159	140	1411	0.451	638	502	1.3	0.8	4.751	A
3	235	59	591	1328	0.177	235	187	0.3	0.2	3.346	A
4	508	127	123	1423	0.357	509	703	0.8	0.6	4.133	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	492	1287	0.035	45	37	0.0	0.0	2.899	A
2	533	133	118	1424	0.374	534	420	0.8	0.6	4.118	A
3	196	49	495	1390	0.141	197	157	0.2	0.2	3.064	A
4	425	106	103	1435	0.296	426	588	0.6	0.4	3.743	A

Existing Layout - 2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.71	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	2033 Do Minimum	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	42	100.000
2		ONE HOUR	✓	566	100.000
3		ONE HOUR	✓	244	100.000
4		ONE HOUR	✓	781	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	22	15	5
	2	47	0	50	469
	3	11	77	0	156
	4	10	658	113	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	9	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.05	4.05	0.1	A	39	58
2	0.44	5.10	0.9	A	519	779
3	0.20	3.56	0.3	A	224	336
4	0.61	6.91	1.6	A	717	1075

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	32	8	635	1197	0.026	32	51	0.0	0.0	3.349	A
2	426	107	100	1435	0.297	424	567	0.0	0.5	3.949	A
3	184	46	391	1457	0.126	183	133	0.0	0.2	2.992	A
4	588	147	101	1437	0.409	585	472	0.0	0.7	4.438	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	38	9	761	1118	0.034	38	61	0.0	0.0	3.613	A
2	509	127	119	1423	0.357	508	679	0.5	0.6	4.368	A
3	219	55	468	1408	0.156	219	160	0.2	0.2	3.210	A
4	702	176	121	1425	0.493	701	566	0.7	1.0	5.231	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	46	12	931	1011	0.046	46	75	0.0	0.1	4.045	A
2	623	156	146	1407	0.443	622	831	0.6	0.9	5.087	A
3	269	67	573	1340	0.201	268	196	0.2	0.3	3.560	A
4	860	215	148	1408	0.611	857	693	1.0	1.6	6.852	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	46	12	934	1010	0.046	46	75	0.1	0.1	4.052	A
2	623	156	146	1407	0.443	623	833	0.9	0.9	5.101	A
3	269	67	574	1339	0.201	269	196	0.3	0.3	3.562	A
4	860	215	149	1408	0.611	860	694	1.6	1.6	6.910	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	38	9	765	1115	0.034	38	61	0.1	0.0	3.624	A
2	509	127	120	1423	0.358	510	683	0.9	0.6	4.386	A
3	219	55	469	1407	0.156	220	160	0.3	0.2	3.217	A
4	702	176	122	1424	0.493	705	567	1.6	1.0	5.283	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	32	8	640	1194	0.026	32	51	0.0	0.0	3.357	A
2	426	107	100	1435	0.297	427	571	0.6	0.5	3.971	A
3	184	46	393	1456	0.126	184	134	0.2	0.2	2.999	A
4	588	147	102	1436	0.409	589	475	1.0	0.7	4.483	A

Existing Layout - 2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.50	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.50	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	2033 Do Minimum	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	64	100.000
2		ONE HOUR	✓	751	100.000
3		ONE HOUR	✓	277	100.000
4		ONE HOUR	✓	599	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	37	17	10
	2	27	0	67	657
	3	14	105	0	158
	4	12	448	137	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	2
	3	0	1	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.44	0.1	A	59	88
2	0.60	6.56	1.5	A	689	1034
3	0.25	4.02	0.3	A	254	381
4	0.47	5.09	0.9	A	550	824

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	48	12	519	1270	0.038	48	40	0.0	0.0	2.946	A
2	565	141	124	1420	0.398	563	442	0.0	0.7	4.258	A
3	209	52	522	1373	0.152	208	166	0.0	0.2	3.135	A
4	451	113	110	1432	0.315	449	620	0.0	0.5	3.834	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	58	14	621	1205	0.048	57	48	0.0	0.0	3.135	A
2	675	169	149	1406	0.480	674	530	0.7	0.9	4.999	A
3	249	62	625	1306	0.191	249	198	0.2	0.2	3.455	A
4	538	135	131	1419	0.380	538	742	0.5	0.6	4.282	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	70	18	761	1118	0.063	70	58	0.0	0.1	3.435	A
2	827	207	182	1386	0.597	825	649	0.9	1.5	6.502	A
3	305	76	764	1216	0.251	305	243	0.2	0.3	4.007	A
4	660	165	160	1401	0.471	658	908	0.6	0.9	5.074	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	70	18	762	1117	0.063	70	58	0.1	0.1	3.438	A
2	827	207	183	1386	0.597	827	650	1.5	1.5	6.555	A
3	305	76	766	1215	0.251	305	243	0.3	0.3	4.015	A
4	660	165	161	1401	0.471	659	910	0.9	0.9	5.089	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	58	14	623	1204	0.048	58	48	0.1	0.1	3.139	A
2	675	169	150	1405	0.480	677	531	1.5	1.0	5.047	A
3	249	62	628	1304	0.191	249	199	0.3	0.2	3.467	A
4	538	135	131	1418	0.380	540	746	0.9	0.6	4.299	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	48	12	522	1268	0.038	48	40	0.1	0.0	2.950	A
2	565	141	125	1420	0.398	566	445	1.0	0.7	4.298	A
3	209	52	525	1371	0.152	209	167	0.2	0.2	3.147	A
4	451	113	110	1431	0.315	452	624	0.6	0.5	3.854	A

Existing Layout - 2026 Residential Phase 1a , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	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
D7	2026 Residential Phase 1a	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	40	100.000
2		ONE HOUR	✓	540	100.000
3		ONE HOUR	✓	230	100.000
4		ONE HOUR	✓	737	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	21	15	4
	2	45	0	48	447
	3	10	73	0	147
	4	9	622	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	9	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.04	3.90	0.0	A	37	55
2	0.42	4.89	0.8	A	496	743
3	0.19	3.46	0.2	A	211	317
4	0.57	6.30	1.4	A	676	1014

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	600	1219	0.025	30	48	0.0	0.0	3.271	A
2	407	102	94	1439	0.283	405	537	0.0	0.4	3.862	A
3	173	43	372	1470	0.118	173	127	0.0	0.1	2.940	A
4	555	139	96	1440	0.385	552	448	0.0	0.7	4.261	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	719	1144	0.031	36	57	0.0	0.0	3.508	A
2	485	121	112	1428	0.340	485	643	0.4	0.6	4.241	A
3	207	52	445	1422	0.145	207	152	0.1	0.2	3.139	A
4	663	166	115	1428	0.464	662	537	0.7	0.9	4.939	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	880	1043	0.042	44	70	0.0	0.0	3.891	A
2	595	149	137	1413	0.421	594	787	0.6	0.8	4.879	A
3	253	63	545	1358	0.187	253	186	0.2	0.2	3.454	A
4	811	203	141	1413	0.574	809	657	0.9	1.4	6.263	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	882	1042	0.042	44	70	0.0	0.0	3.896	A
2	595	149	138	1412	0.421	595	788	0.8	0.8	4.889	A
3	253	63	546	1357	0.187	253	186	0.2	0.2	3.456	A
4	811	203	141	1413	0.574	811	658	1.4	1.4	6.304	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	722	1142	0.031	36	58	0.0	0.0	3.514	A
2	485	121	113	1427	0.340	486	645	0.8	0.6	4.254	A
3	207	52	447	1421	0.145	207	152	0.2	0.2	3.142	A
4	663	166	115	1428	0.464	665	539	1.4	0.9	4.977	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	604	1216	0.025	30	48	0.0	0.0	3.278	A
2	407	102	94	1438	0.283	407	540	0.6	0.4	3.881	A
3	173	43	374	1468	0.118	173	127	0.2	0.1	2.946	A
4	555	139	96	1439	0.385	556	451	0.9	0.7	4.298	A

Existing Layout - 2026 Residential Phase 1a , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.15	A

Junction Network

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	60	100.000
2		ONE HOUR	✓	712	100.000
3		ONE HOUR	✓	262	100.000
4		ONE HOUR	✓	569	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	35	16	9
	2	26	0	64	622
	3	13	100	0	149
	4	11	427	129	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	2
	3	0	1	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.35	0.1	A	55	83
2	0.56	6.02	1.3	A	653	980
3	0.23	3.83	0.3	A	240	361
4	0.45	4.84	0.8	A	522	783

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	493	1286	0.035	45	37	0.0	0.0	2.901	A
2	536	134	117	1425	0.376	534	421	0.0	0.6	4.099	A
3	197	49	494	1391	0.142	197	157	0.0	0.2	3.059	A
4	428	107	104	1435	0.299	427	586	0.0	0.4	3.737	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	591	1225	0.044	54	45	0.0	0.0	3.074	A
2	640	160	140	1411	0.454	639	505	0.6	0.8	4.739	A
3	236	59	592	1328	0.177	235	188	0.2	0.2	3.345	A
4	512	128	125	1422	0.360	511	702	0.4	0.6	4.138	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	723	1141	0.058	66	55	0.0	0.1	3.346	A
2	784	196	172	1392	0.563	782	618	0.8	1.3	5.985	A
3	288	72	724	1242	0.232	288	230	0.2	0.3	3.830	A
4	626	157	153	1406	0.446	625	859	0.6	0.8	4.831	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	724	1141	0.058	66	55	0.1	0.1	3.348	A
2	784	196	172	1392	0.563	784	619	1.3	1.3	6.021	A
3	288	72	726	1241	0.232	288	230	0.3	0.3	3.834	A
4	626	157	153	1406	0.446	626	861	0.8	0.8	4.843	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	593	1224	0.044	54	45	0.1	0.0	3.080	A
2	640	160	140	1411	0.454	642	506	1.3	0.9	4.776	A
3	236	59	594	1326	0.178	236	188	0.3	0.2	3.355	A
4	512	128	125	1422	0.360	513	705	0.8	0.6	4.153	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	496	1284	0.035	45	38	0.0	0.0	2.905	A
2	536	134	118	1424	0.376	537	424	0.9	0.6	4.131	A
3	197	49	497	1389	0.142	197	158	0.2	0.2	3.067	A
4	428	107	105	1434	0.299	429	590	0.6	0.4	3.758	A

Existing Layout - 2033 Full Residential , AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.87	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.87	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	2033 Full Residential	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	42	100.000
2		ONE HOUR	✓	606	100.000
3		ONE HOUR	✓	246	100.000
4		ONE HOUR	✓	789	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	22	15	5
	2	49	0	57	500
	3	11	79	0	156
	4	10	666	113	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	8	11
	3	0	8	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.05	4.08	0.1	A	39	58
2	0.47	5.36	1.0	A	556	834
3	0.21	3.64	0.3	A	226	339
4	0.62	7.06	1.7	A	724	1086

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	32	8	643	1192	0.027	32	52	0.0	0.0	3.363	A
2	456	114	100	1435	0.318	454	575	0.0	0.5	4.036	A
3	185	46	415	1441	0.128	185	139	0.0	0.2	3.026	A
4	594	149	104	1435	0.414	591	496	0.0	0.7	4.479	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	38	9	770	1112	0.034	38	63	0.0	0.0	3.632	A
2	545	136	119	1423	0.383	544	688	0.5	0.7	4.509	A
3	221	55	497	1388	0.159	221	166	0.2	0.2	3.259	A
4	709	177	125	1422	0.499	708	594	0.7	1.0	5.299	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	46	12	942	1004	0.046	46	77	0.0	0.1	4.074	A
2	667	167	146	1407	0.474	666	842	0.7	1.0	5.342	A
3	271	68	609	1317	0.206	271	203	0.2	0.3	3.638	A
4	869	217	153	1406	0.618	866	727	1.0	1.7	6.993	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	46	12	945	1003	0.046	46	77	0.1	0.1	4.081	A
2	667	167	146	1407	0.474	667	844	1.0	1.0	5.360	A
3	271	68	610	1316	0.206	271	204	0.3	0.3	3.640	A
4	869	217	153	1406	0.618	869	728	1.7	1.7	7.058	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	38	9	774	1110	0.034	38	63	0.1	0.0	3.643	A
2	545	136	120	1423	0.383	546	692	1.0	0.7	4.530	A
3	221	55	499	1387	0.159	221	167	0.3	0.2	3.266	A
4	709	177	125	1422	0.499	712	595	1.7	1.1	5.355	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	32	8	647	1189	0.027	32	53	0.0	0.0	3.371	A
2	456	114	100	1435	0.318	457	579	0.7	0.5	4.061	A
3	185	46	418	1440	0.129	185	140	0.2	0.2	3.035	A
4	594	149	105	1434	0.414	595	498	1.1	0.8	4.526	A

Existing Layout - 2033 Full Residential , PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.75	A

Junction Network

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2033 Full Residential	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	66	100.000
2		ONE HOUR	✓	774	100.000
3		ONE HOUR	✓	284	100.000
4		ONE HOUR	✓	629	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	39	17	10
	2	28	0	71	675
	3	14	112	0	158
	4	12	478	137	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	0	2
	3	0	1	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.07	3.53	0.1	A	61	91
2	0.62	6.86	1.6	A	710	1065
3	0.26	4.11	0.4	A	261	391
4	0.50	5.37	1.0	A	577	866

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	50	12	547	1252	0.040	50	40	0.0	0.0	2.992	A
2	583	146	124	1420	0.410	580	472	0.0	0.7	4.344	A
3	214	53	536	1364	0.157	213	169	0.0	0.2	3.174	A
4	474	118	116	1428	0.332	471	633	0.0	0.5	3.938	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	59	15	655	1185	0.050	59	48	0.0	0.1	3.198	A
2	696	174	149	1406	0.495	695	565	0.7	1.0	5.143	A
3	255	64	642	1295	0.197	255	202	0.2	0.2	3.512	A
4	565	141	138	1414	0.400	565	759	0.5	0.7	4.438	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	73	18	801	1093	0.067	73	59	0.1	0.1	3.528	A
2	852	213	182	1386	0.615	850	691	1.0	1.6	6.802	A
3	313	78	785	1203	0.260	312	247	0.2	0.4	4.101	A
4	693	173	169	1396	0.496	691	928	0.7	1.0	5.346	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	73	18	803	1092	0.067	73	59	0.1	0.1	3.531	A
2	852	213	183	1386	0.615	852	693	1.6	1.6	6.863	A
3	313	78	787	1201	0.260	313	248	0.4	0.4	4.111	A
4	693	173	170	1396	0.496	693	930	1.0	1.0	5.366	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	59	15	657	1183	0.050	59	49	0.1	0.1	3.205	A
2	696	174	150	1405	0.495	698	567	1.6	1.0	5.198	A
3	255	64	645	1293	0.197	256	203	0.4	0.3	3.522	A
4	565	141	139	1414	0.400	567	762	1.0	0.7	4.461	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	50	12	550	1250	0.040	50	41	0.1	0.0	2.997	A
2	583	146	125	1420	0.410	584	474	1.0	0.7	4.386	A
3	214	53	539	1361	0.157	214	170	0.3	0.2	3.184	A
4	474	118	116	1428	0.332	474	637	0.7	0.5	3.961	A

Existing Layout - 2026 Employment, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.41	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.41	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
D11	2026 Employment	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	40	100.000
2		ONE HOUR	✓	543	100.000
3		ONE HOUR	✓	237	100.000
4		ONE HOUR	✓	747	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	21	15	4
	2	44	0	51	448
	3	10	80	0	147
	4	9	632	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	11	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.04	3.94	0.0	A	37	55
2	0.42	4.92	0.8	A	498	747
3	0.19	3.48	0.3	A	217	326
4	0.58	6.47	1.5	A	685	1028

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	613	1211	0.025	30	47	0.0	0.0	3.293	A
2	409	102	94	1439	0.284	407	549	0.0	0.4	3.878	A
3	178	45	372	1470	0.121	178	129	0.0	0.1	2.955	A
4	562	141	101	1437	0.391	560	449	0.0	0.7	4.310	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	734	1135	0.032	36	57	0.0	0.0	3.539	A
2	488	122	112	1428	0.342	488	658	0.4	0.6	4.261	A
3	213	53	445	1422	0.150	213	154	0.1	0.2	3.158	A
4	672	168	120	1425	0.471	671	538	0.7	0.9	5.017	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	898	1032	0.043	44	69	0.0	0.0	3.937	A
2	598	149	137	1413	0.423	597	805	0.6	0.8	4.907	A
3	261	65	545	1358	0.192	261	189	0.2	0.3	3.481	A
4	822	206	147	1409	0.584	820	659	0.9	1.5	6.419	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	901	1030	0.043	44	69	0.0	0.0	3.943	A
2	598	149	138	1412	0.423	598	807	0.8	0.8	4.918	A
3	261	65	546	1357	0.192	261	189	0.3	0.3	3.483	A
4	822	206	148	1409	0.584	822	659	1.5	1.5	6.465	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	737	1133	0.032	36	57	0.0	0.0	3.545	A
2	488	122	113	1427	0.342	489	661	0.8	0.6	4.275	A
3	213	53	447	1421	0.150	213	155	0.3	0.2	3.161	A
4	672	168	121	1425	0.471	674	539	1.5	0.9	5.060	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	617	1208	0.025	30	47	0.0	0.0	3.300	A
2	409	102	94	1438	0.284	409	553	0.6	0.4	3.897	A
3	178	45	374	1468	0.122	179	130	0.2	0.1	2.963	A
4	562	141	101	1437	0.391	563	452	0.9	0.7	4.349	A

Existing Layout - 2026 Employment, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.24	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.24	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
D12	2026 Employment	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	60	100.000
2		ONE HOUR	✓	723	100.000
3		ONE HOUR	✓	264	100.000
4		ONE HOUR	✓	569	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	35	16	9
	2	25	0	69	629
	3	13	102	0	149
	4	11	427	129	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	1	3
	3	0	2	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.35	0.1	A	55	83
2	0.57	6.20	1.4	A	663	995
3	0.23	3.88	0.3	A	242	363
4	0.45	4.85	0.8	A	522	783

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	495	1285	0.035	45	37	0.0	0.0	2.903	A
2	544	136	117	1425	0.382	542	423	0.0	0.6	4.175	A
3	199	50	498	1388	0.143	198	160	0.0	0.2	3.081	A
4	428	107	105	1434	0.299	427	591	0.0	0.4	3.739	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	593	1223	0.044	54	44	0.0	0.0	3.077	A
2	650	162	140	1411	0.461	649	506	0.6	0.9	4.846	A
3	237	59	597	1324	0.179	237	192	0.2	0.2	3.374	A
4	512	128	126	1422	0.360	511	708	0.4	0.6	4.140	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	726	1140	0.058	66	54	0.0	0.1	3.351	A
2	796	199	172	1392	0.572	794	620	0.9	1.4	6.161	A
3	291	73	730	1238	0.235	290	235	0.2	0.3	3.870	A
4	626	157	154	1405	0.446	625	867	0.6	0.8	4.835	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	727	1139	0.058	66	54	0.1	0.1	3.353	A
2	796	199	172	1392	0.572	796	621	1.4	1.4	6.201	A
3	291	73	732	1237	0.235	291	236	0.3	0.3	3.876	A
4	626	157	154	1405	0.446	626	869	0.8	0.8	4.848	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	594	1222	0.044	54	44	0.1	0.0	3.080	A
2	650	162	140	1411	0.461	652	508	1.4	0.9	4.885	A
3	237	59	600	1323	0.179	238	193	0.3	0.2	3.381	A
4	512	128	126	1422	0.360	513	711	0.8	0.6	4.157	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	498	1283	0.035	45	37	0.0	0.0	2.907	A
2	544	136	118	1424	0.382	545	425	0.9	0.6	4.211	A
3	199	50	502	1386	0.143	199	161	0.2	0.2	3.090	A
4	428	107	106	1434	0.299	429	595	0.6	0.4	3.759	A

Existing Layout - 2026 Phase 1 (Without Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.44	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.44	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2026 Phase 1 (Without Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	40	100.000
2		ONE HOUR	✓	549	100.000
3		ONE HOUR	✓	237	100.000
4		ONE HOUR	✓	748	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	21	15	4
	2	45	0	52	452
	3	10	80	0	147
	4	9	633	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	10	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.04	3.95	0.0	A	37	55
2	0.43	4.95	0.8	A	504	756
3	0.19	3.49	0.3	A	217	326
4	0.58	6.48	1.5	A	686	1030

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	614	1210	0.025	30	48	0.0	0.0	3.294	A
2	413	103	94	1439	0.287	412	550	0.0	0.4	3.891	A
3	178	45	376	1467	0.122	178	130	0.0	0.1	2.960	A
4	563	141	101	1437	0.392	560	452	0.0	0.7	4.316	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	735	1134	0.032	36	57	0.0	0.0	3.540	A
2	494	123	112	1428	0.346	493	659	0.4	0.6	4.280	A
3	213	53	450	1419	0.150	213	155	0.1	0.2	3.165	A
4	672	168	121	1425	0.472	671	542	0.7	0.9	5.027	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	900	1031	0.043	44	70	0.0	0.0	3.940	A
2	604	151	137	1413	0.428	603	806	0.6	0.8	4.941	A
3	261	65	551	1354	0.193	261	190	0.2	0.3	3.493	A
4	824	206	148	1408	0.585	821	663	0.9	1.5	6.438	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	902	1030	0.043	44	70	0.0	0.0	3.945	A
2	604	151	138	1412	0.428	604	808	0.8	0.8	4.953	A
3	261	65	552	1353	0.193	261	190	0.3	0.3	3.494	A
4	824	206	149	1408	0.585	824	664	1.5	1.5	6.485	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	738	1132	0.032	36	58	0.0	0.0	3.547	A
2	494	123	113	1427	0.346	494	662	0.8	0.6	4.296	A
3	213	53	451	1418	0.150	213	156	0.3	0.2	3.169	A
4	672	168	122	1424	0.472	675	543	1.5	1.0	5.070	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	618	1208	0.025	30	48	0.0	0.0	3.301	A
2	413	103	94	1438	0.287	414	554	0.6	0.5	3.909	A
3	178	45	378	1466	0.122	179	130	0.2	0.1	2.967	A
4	563	141	102	1436	0.392	564	455	1.0	0.7	4.355	A

Existing Layout - 2026 Phase 1 (Without Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.28	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.28	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
D14	2026 Phase 1 (Without Link Road)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	60	100.000
2		ONE HOUR	✓	727	100.000
3		ONE HOUR	✓	265	100.000
4		ONE HOUR	✓	573	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	35	16	9
	2	26	0	70	631
	3	13	103	0	149
	4	11	431	129	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	1	3
	3	0	2	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.36	0.1	A	55	83
2	0.57	6.25	1.4	A	667	1001
3	0.24	3.89	0.3	A	243	365
4	0.45	4.88	0.9	A	526	789

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	499	1283	0.035	45	37	0.0	0.0	2.908	A
2	547	137	117	1425	0.384	545	427	0.0	0.6	4.189	A
3	200	50	501	1386	0.144	199	161	0.0	0.2	3.087	A
4	431	108	107	1433	0.301	430	593	0.0	0.4	3.754	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	597	1221	0.044	54	45	0.0	0.0	3.084	A
2	654	163	140	1411	0.463	653	511	0.6	0.9	4.868	A
3	238	60	600	1322	0.180	238	193	0.2	0.2	3.382	A
4	515	129	128	1421	0.363	515	710	0.4	0.6	4.162	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	731	1137	0.058	66	55	0.0	0.1	3.361	A
2	800	200	171	1392	0.575	798	626	0.9	1.4	6.204	A
3	292	73	734	1236	0.236	291	236	0.2	0.3	3.884	A
4	631	158	156	1404	0.449	630	869	0.6	0.8	4.871	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	732	1136	0.058	66	55	0.1	0.1	3.364	A
2	800	200	172	1392	0.575	800	626	1.4	1.4	6.247	A
3	292	73	735	1235	0.236	292	237	0.3	0.3	3.889	A
4	631	158	156	1404	0.449	631	871	0.8	0.9	4.883	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	599	1220	0.044	54	45	0.1	0.0	3.088	A
2	654	163	140	1411	0.463	655	512	1.4	0.9	4.906	A
3	238	60	602	1321	0.180	239	194	0.3	0.2	3.390	A
4	515	129	128	1421	0.363	516	713	0.9	0.6	4.178	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	501	1281	0.035	45	38	0.0	0.0	2.913	A
2	547	137	118	1424	0.384	548	429	0.9	0.6	4.224	A
3	200	50	504	1384	0.144	200	162	0.2	0.2	3.099	A
4	431	108	107	1433	0.301	432	596	0.6	0.5	3.771	A

Existing Layout - 2026 Phase 1 (With Link Road), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.44	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.44	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2026 Phase 1 (With Link Road)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	40	100.000
2		ONE HOUR	✓	549	100.000
3		ONE HOUR	✓	237	100.000
4		ONE HOUR	✓	748	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	21	15	4
	2	45	0	52	452
	3	10	80	0	147
	4	9	633	106	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	10	12
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.04	3.95	0.0	A	37	55
2	0.43	4.95	0.8	A	504	756
3	0.19	3.49	0.3	A	217	326
4	0.58	6.48	1.5	A	686	1030

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	614	1210	0.025	30	48	0.0	0.0	3.294	A
2	413	103	94	1439	0.287	412	550	0.0	0.4	3.891	A
3	178	45	376	1467	0.122	178	130	0.0	0.1	2.960	A
4	563	141	101	1437	0.392	560	452	0.0	0.7	4.316	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	735	1134	0.032	36	57	0.0	0.0	3.540	A
2	494	123	112	1428	0.346	493	659	0.4	0.6	4.280	A
3	213	53	450	1419	0.150	213	155	0.1	0.2	3.165	A
4	672	168	121	1425	0.472	671	542	0.7	0.9	5.027	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	900	1031	0.043	44	70	0.0	0.0	3.940	A
2	604	151	137	1413	0.428	603	806	0.6	0.8	4.941	A
3	261	65	551	1354	0.193	261	190	0.2	0.3	3.493	A
4	824	206	148	1408	0.585	821	663	0.9	1.5	6.438	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	44	11	902	1030	0.043	44	70	0.0	0.0	3.945	A
2	604	151	138	1412	0.428	604	808	0.8	0.8	4.953	A
3	261	65	552	1353	0.193	261	190	0.3	0.3	3.494	A
4	824	206	149	1408	0.585	824	664	1.5	1.5	6.485	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	36	9	738	1132	0.032	36	58	0.0	0.0	3.547	A
2	494	123	113	1427	0.346	494	662	0.8	0.6	4.296	A
3	213	53	451	1418	0.150	213	156	0.3	0.2	3.169	A
4	672	168	122	1424	0.472	675	543	1.5	1.0	5.070	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	30	8	618	1208	0.025	30	48	0.0	0.0	3.301	A
2	413	103	94	1438	0.287	414	554	0.6	0.5	3.909	A
3	178	45	378	1466	0.122	179	130	0.2	0.1	2.967	A
4	563	141	102	1436	0.392	564	455	1.0	0.7	4.355	A

Existing Layout - 2026 Phase 1 (With Link Road), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.28	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.28	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
D16	2026 Phase 1 (With Link Road)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	60	100.000
2		ONE HOUR	✓	727	100.000
3		ONE HOUR	✓	265	100.000
4		ONE HOUR	✓	573	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	35	16	9
	2	26	0	70	631
	3	13	103	0	149
	4	11	431	129	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	1	3
	3	0	2	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.06	3.36	0.1	A	55	83
2	0.57	6.25	1.4	A	667	1001
3	0.24	3.89	0.3	A	243	365
4	0.45	4.88	0.9	A	526	789

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	499	1283	0.035	45	37	0.0	0.0	2.908	A
2	547	137	117	1425	0.384	545	427	0.0	0.6	4.189	A
3	200	50	501	1386	0.144	199	161	0.0	0.2	3.087	A
4	431	108	107	1433	0.301	430	593	0.0	0.4	3.754	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	597	1221	0.044	54	45	0.0	0.0	3.084	A
2	654	163	140	1411	0.463	653	511	0.6	0.9	4.868	A
3	238	60	600	1322	0.180	238	193	0.2	0.2	3.382	A
4	515	129	128	1421	0.363	515	710	0.4	0.6	4.162	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	731	1137	0.058	66	55	0.0	0.1	3.361	A
2	800	200	171	1392	0.575	798	626	0.9	1.4	6.204	A
3	292	73	734	1236	0.236	291	236	0.2	0.3	3.884	A
4	631	158	156	1404	0.449	630	869	0.6	0.8	4.871	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	66	17	732	1136	0.058	66	55	0.1	0.1	3.364	A
2	800	200	172	1392	0.575	800	626	1.4	1.4	6.247	A
3	292	73	735	1235	0.236	292	237	0.3	0.3	3.889	A
4	631	158	156	1404	0.449	631	871	0.8	0.9	4.883	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	54	13	599	1220	0.044	54	45	0.1	0.0	3.088	A
2	654	163	140	1411	0.463	655	512	1.4	0.9	4.906	A
3	238	60	602	1321	0.180	239	194	0.3	0.2	3.390	A
4	515	129	128	1421	0.363	516	713	0.9	0.6	4.178	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	45	11	501	1281	0.035	45	38	0.0	0.0	2.913	A
2	547	137	118	1424	0.384	548	429	0.9	0.6	4.224	A
3	200	50	504	1384	0.144	200	162	0.2	0.2	3.099	A
4	431	108	107	1433	0.301	432	596	0.6	0.5	3.771	A

Existing Layout - 2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	6.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.01	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
D17	2033 Full Development	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	42	100.000
2		ONE HOUR	✓	614	100.000
3		ONE HOUR	✓	253	100.000
4		ONE HOUR	✓	800	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	22	15	5
	2	49	0	60	505
	3	11	86	0	156
	4	10	677	113	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	5	7	33
	2	5	0	9	11
	3	0	9	0	5
	4	0	6	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.05	4.13	0.1	A	39	58
2	0.48	5.43	1.0	A	563	845
3	0.21	3.69	0.3	A	232	348
4	0.63	7.29	1.8	A	734	1101

Main Results for each time segment

07:15 - 07:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	32	8	656	1184	0.027	32	52	0.0	0.0	3.388	A
2	462	116	100	1435	0.322	460	588	0.0	0.5	4.065	A
3	190	48	419	1439	0.132	190	141	0.0	0.2	3.055	A
4	602	151	110	1432	0.421	599	499	0.0	0.8	4.540	A

07:30 - 07:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	38	9	786	1102	0.034	38	63	0.0	0.0	3.667	A
2	552	138	119	1423	0.388	551	705	0.5	0.7	4.549	A
3	227	57	502	1386	0.164	227	169	0.2	0.2	3.297	A
4	719	180	131	1419	0.507	718	598	0.8	1.1	5.401	A

07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	46	12	962	992	0.047	46	77	0.0	0.1	4.127	A
2	676	169	146	1407	0.480	675	862	0.7	1.0	5.411	A
3	279	70	614	1313	0.212	278	206	0.2	0.3	3.691	A
4	881	220	161	1401	0.629	878	732	1.1	1.7	7.213	A

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	46	12	964	990	0.047	46	77	0.1	0.1	4.135	A
2	676	169	146	1407	0.480	676	864	1.0	1.0	5.429	A
3	279	70	615	1312	0.212	279	207	0.3	0.3	3.693	A
4	881	220	161	1401	0.629	881	733	1.7	1.8	7.286	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	38	9	790	1100	0.034	38	63	0.1	0.0	3.679	A
2	552	138	120	1423	0.388	553	708	1.0	0.7	4.572	A
3	227	57	504	1384	0.164	228	170	0.3	0.2	3.304	A
4	719	180	131	1418	0.507	722	600	1.8	1.1	5.463	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	32	8	661	1181	0.027	32	53	0.0	0.0	3.399	A
2	462	116	100	1435	0.322	463	592	0.7	0.5	4.090	A
3	190	48	421	1437	0.133	191	142	0.2	0.2	3.063	A
4	602	151	110	1431	0.421	604	502	1.1	0.8	4.588	A

Existing Layout - 2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.91	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
D18	2033 Full Development	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		ONE HOUR	✓	66	100.000
2		ONE HOUR	✓	789	100.000
3		ONE HOUR	✓	286	100.000
4		ONE HOUR	✓	633	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		1	2	3	4
From	1	0	39	17	10
	2	28	0	77	684
	3	14	114	0	158
	4	12	482	137	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		1	2	3	4
From	1	0	0	0	0
	2	0	0	1	3
	3	0	2	0	2
	4	0	5	4	100

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	0.07	3.55	0.1	A	61	91
2	0.63	7.15	1.7	A	724	1086
3	0.26	4.17	0.4	A	262	394
4	0.50	5.41	1.0	A	581	871

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	50	12	551	1250	0.040	50	40	0.0	0.0	2.999	A
2	594	149	124	1420	0.418	591	476	0.0	0.7	4.443	A
3	215	54	542	1359	0.158	215	173	0.0	0.2	3.203	A
4	477	119	117	1427	0.334	474	640	0.0	0.5	3.953	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	59	15	660	1181	0.050	59	48	0.0	0.1	3.207	A
2	709	177	149	1406	0.505	708	570	0.7	1.0	5.291	A
3	257	64	650	1290	0.199	257	207	0.2	0.3	3.550	A
4	569	142	140	1413	0.403	568	767	0.5	0.7	4.462	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	73	18	808	1089	0.067	73	59	0.1	0.1	3.542	A
2	869	217	182	1386	0.627	866	698	1.0	1.7	7.075	A
3	315	79	795	1197	0.263	314	254	0.3	0.4	4.157	A
4	697	174	171	1395	0.500	696	938	0.7	1.0	5.390	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	73	18	809	1088	0.067	73	59	0.1	0.1	3.546	A
2	869	217	183	1386	0.627	869	699	1.7	1.7	7.149	A
3	315	79	797	1195	0.263	315	254	0.4	0.4	4.167	A
4	697	174	172	1394	0.500	697	940	1.0	1.0	5.410	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	59	15	662	1180	0.050	59	49	0.1	0.1	3.212	A
2	709	177	150	1405	0.505	712	572	1.7	1.1	5.352	A
3	257	64	653	1288	0.200	258	208	0.4	0.3	3.563	A
4	569	142	141	1413	0.403	570	770	1.0	0.7	4.487	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	50	12	554	1248	0.040	50	41	0.1	0.0	3.007	A
2	594	149	125	1420	0.418	595	479	1.1	0.7	4.491	A
3	215	54	546	1357	0.159	216	174	0.3	0.2	3.213	A
4	477	119	118	1427	0.334	477	644	0.7	0.5	3.977	A

Appendix J-22

Junctions 10 Output – A637 / B6428 / Dearne Hall Lane Roundabout

Junctions 10

ARCADY 10 - Roundabout Module

Version: 10.0.2.1574
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Filename: 2023-11-01 J10 - A637 - Dearne Hall Roundabout.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\A637 Dearne Hall Lane Roundabout
Report generation date: 09/11/2023 12:42:58

»2022 Base, AM
»2022 Base, PM
»2026 Do Minimum, AM
»2026 Do Minimum, PM
»2033 Do Minimum, AM
»2033 Do Minimum, PM
»2026 Residential Phase 1a, AM
»2026 Residential Phase 1a, PM
»2033 Full Residential, AM
»2033 Full Residential, PM
»2026 Employment, AM
»2026 Employment, PM
»2026 Phase 1 Development, AM
»2026 Phase 1 Development, PM
»2033 Full Development, AM
»2033 Full Development, PM

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
A - A637 North	3.1	14.68	0.76	1.2	8.05	0.54
B - Dearne Hall Lane	1.4	13.32	0.58	1.3	10.37	0.56
C - A637 South	2.1	10.77	0.67	4.1	17.90	0.81
D - B6428	1.8	17.61	0.64	3.9	34.98	0.80
	2026 Do Minimum					
A - A637 North	4.6	20.29	0.83	1.5	9.16	0.59
B - Dearne Hall Lane	2.2	18.19	0.69	1.6	12.07	0.62
C - A637 South	2.6	12.89	0.72	7.3	29.80	0.89
D - B6428	2.1	20.49	0.68	7.8	67.73	0.92
	2033 Do Minimum					
A - A637 North	6.9	29.09	0.88	1.7	10.22	0.63
B - Dearne Hall Lane	3.0	24.00	0.75	2.0	14.17	0.67
C - A637 South	3.4	15.78	0.77	13.1	50.73	0.95
D - B6428	2.9	26.54	0.74	16.6	126.63	1.02
	2026 Residential Phase 1a					
A - A637 North	4.7	20.84	0.83	1.5	9.36	0.60
B - Dearne Hall Lane	2.2	18.43	0.69	1.7	12.48	0.63
C - A637 South	2.7	13.26	0.73	7.8	31.54	0.90
D - B6428	2.3	21.68	0.70	8.6	73.36	0.93
	2033 Full Residential					
A - A637 North	8.9	37.62	0.91	2.1	11.61	0.67
B - Dearne Hall Lane	3.4	26.92	0.78	3.0	19.47	0.75
C - A637 South	4.4	19.72	0.82	21.8	77.60	1.00
D - B6428	5.1	43.59	0.85	26.4	182.89	1.08
	2026 Employment					
A - A637 North	5.2	22.54	0.84	1.5	9.47	0.60
B - Dearne Hall Lane	2.6	21.06	0.72	1.7	12.53	0.63
C - A637 South	2.8	13.71	0.73	7.7	31.33	0.90
D - B6428	2.5	22.72	0.71	12.4	97.70	0.98
	2026 Phase 1 Development					
A - A637 North	5.4	23.36	0.85	1.6	9.67	0.61
B - Dearne Hall Lane	2.7	21.45	0.73	1.8	12.97	0.64
C - A637 South	2.9	14.16	0.74	8.2	33.22	0.90
D - B6428	2.6	24.17	0.72	13.8	106.03	0.99
	2033 Full Development					
A - A637 North	10.7	44.47	0.93	2.1	11.92	0.68
B - Dearne Hall Lane	4.3	32.90	0.82	3.2	20.57	0.76
C - A637 South	4.8	21.64	0.83	23.5	82.86	1.00
D - B6428	6.3	52.42	0.88	37.5	243.55	1.14

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	A637-B6428-Dearne Hall Lane
Location	
Site number	
Date	01/11/2023
Version	
Status	(new file)
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	
Enumerator	Fore Consulting Limited
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	2022 Base	AM	ONE HOUR	08:00	09:30	15	✓
D2	2022 Base	PM	ONE HOUR	16:00	17:30	15	✓
D3	2026 Do Minimum	AM	ONE HOUR	08:00	09:30	15	✓
D4	2026 Do Minimum	PM	ONE HOUR	16:00	17:30	15	✓
D5	2033 Do Minimum	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 Do Minimum	PM	ONE HOUR	16:00	17:30	15	✓
D7	2026 Residential Phase 1a	AM	ONE HOUR	08:00	09:30	15	✓
D8	2026 Residential Phase 1a	PM	ONE HOUR	16:00	17:30	15	✓
D9	2033 Full Residential	AM	ONE HOUR	08:00	09:30	15	✓
D10	2033 Full Residential	PM	ONE HOUR	16:00	17:30	15	✓
D11	2026 Employment	AM	ONE HOUR	08:00	09:30	15	✓
D12	2026 Employment	PM	ONE HOUR	16:00	17:30	15	✓
D13	2026 Phase 1 Development	AM	ONE HOUR	08:00	09:30	15	✓
D14	2026 Phase 1 Development	PM	ONE HOUR	16:00	17:30	15	✓
D15	2033 Full Development	AM	ONE HOUR	08:00	09:30	15	✓
D16	2033 Full Development	PM	ONE HOUR	16:00	17:30	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	13.72	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	13.72	B

Arms

Arms

Arm	Name	Description	No give-way line
A	A637 North		
B	Dearne Hall Lane		
C	A637 South		
D	B6428		

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
A - A637 North	3.90	5.95	7.3	3.0	13.0	0.0		
B - Dearne Hall Lane	3.32	4.45	1.9	21.2	30.1	26.6		
C - A637 South	3.17	4.38	4.5	14.9	32.5	36.2		
D - B6428	2.83	3.79	1.7	41.9	32.9	51.4		

Slope / Intercept / Capacity

Arm Intercept Adjustments

Arm	Type	Reason	Direct intercept adjustment (PCU/hr)
A - A637 North	None		
B - Dearne Hall Lane	None		
C - A637 South	Direct	Observed Queues	125
D - B6428	None		

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - A637 North	0.518	1247
B - Dearne Hall Lane	0.548	1140
C - A637 South	0.524	1238
D - B6428	0.480	915

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	721	100.000
B - Dearne Hall Lane		ONE HOUR	✓	361	100.000
C - A637 South		ONE HOUR	✓	638	100.000
D - B6428		ONE HOUR	✓	343	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	22	0	504	195
	B - Dearne Hall Lane	0	0	260	101
	C - A637 South	390	201	0	47
	D - B6428	196	104	41	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	4	6
	B - Dearne Hall Lane	0	0	4	6
	C - A637 South	5	5	0	7
	D - B6428	5	5	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.76	14.68	3.1	B	662	992
B - Dearne Hall Lane	0.58	13.32	1.4	B	331	497
C - A637 South	0.67	10.77	2.1	B	585	878
D - B6428	0.64	17.61	1.8	C	315	472

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	543	136	260	1113	0.488	539	454	0.0	1.0	6.518	A
B - Dearne Hall Lane	272	68	571	827	0.328	270	228	0.0	0.5	6.724	A
C - A637 South	480	120	239	1112	0.432	477	602	0.0	0.8	5.928	A
D - B6428	258	65	458	695	0.372	256	258	0.0	0.6	8.543	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	648	162	312	1086	0.597	646	545	1.0	1.5	8.519	A
B - Dearne Hall Lane	325	81	685	765	0.424	324	273	0.5	0.8	8.501	A
C - A637 South	574	143	287	1088	0.527	572	721	0.8	1.2	7.323	A
D - B6428	308	77	550	651	0.474	307	309	0.6	0.9	10.922	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	794	198	381	1050	0.756	788	665	1.5	3.1	14.023	B
B - Dearne Hall Lane	397	99	835	683	0.582	395	334	0.8	1.4	12.946	B
C - A637 South	702	176	350	1055	0.666	699	880	1.2	2.0	10.539	B
D - B6428	378	94	671	593	0.637	374	377	0.9	1.8	17.017	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	794	198	383	1049	0.757	793	669	3.1	3.1	14.682	B
B - Dearne Hall Lane	397	99	841	680	0.585	397	336	1.4	1.4	13.316	B
C - A637 South	702	176	352	1053	0.667	702	886	2.0	2.1	10.771	B
D - B6428	378	94	675	591	0.639	377	380	1.8	1.8	17.611	C

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	648	162	315	1084	0.598	654	551	3.1	1.6	8.887	A
B - Dearne Hall Lane	325	81	693	760	0.427	327	276	1.4	0.8	8.741	A
C - A637 South	574	143	290	1086	0.528	577	730	2.1	1.2	7.490	A
D - B6428	308	77	554	649	0.475	312	313	1.8	1.0	11.295	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	543	136	263	1111	0.489	545	460	1.6	1.0	6.681	A
B - Dearne Hall Lane	272	68	578	824	0.330	273	231	0.8	0.5	6.847	A
C - A637 South	480	120	242	1111	0.432	482	609	1.2	0.8	6.030	A
D - B6428	258	65	463	693	0.373	260	261	1.0	0.6	8.735	A

2022 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	17.18	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	17.18	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	497	100.000
B - Dearne Hall Lane		ONE HOUR	✓	416	100.000
C - A637 South		ONE HOUR	✓	781	100.000
D - B6428		ONE HOUR	✓	382	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	10	0	330	157
	B - Dearne Hall Lane	0	0	281	135
	C - A637 South	474	256	2	49
	D - B6428	226	122	32	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	4	4
	B - Dearne Hall Lane	0	0	4	4
	C - A637 South	2	2	100	0
	D - B6428	4	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.54	8.05	1.2	A	456	684
B - Dearne Hall Lane	0.56	10.37	1.3	B	382	573
C - A637 South	0.81	17.90	4.1	C	717	1075
D - B6428	0.80	34.98	3.9	D	351	526

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	374	94	309	1087	0.344	372	530	0.0	0.5	5.215	A
B - Dearne Hall Lane	313	78	399	922	0.340	311	282	0.0	0.5	6.110	A
C - A637 South	588	147	227	1119	0.526	584	482	0.0	1.1	6.808	A
D - B6428	288	72	554	649	0.443	284	257	0.0	0.8	10.152	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	447	112	370	1055	0.423	446	635	0.5	0.8	6.129	A
B - Dearne Hall Lane	374	93	478	878	0.426	373	338	0.5	0.8	7.396	A
C - A637 South	702	176	273	1095	0.641	699	578	1.1	1.8	9.221	A
D - B6428	343	86	665	596	0.576	341	308	0.8	1.4	14.521	B

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	547	137	449	1014	0.539	545	771	0.8	1.2	7.947	A
B - Dearne Hall Lane	458	115	584	820	0.558	456	411	0.8	1.3	10.221	B
C - A637 South	860	215	333	1063	0.809	851	707	1.8	3.9	16.672	C
D - B6428	421	105	809	527	0.799	412	376	1.4	3.5	30.440	D

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	547	137	455	1011	0.541	547	781	1.2	1.2	8.054	A
B - Dearne Hall Lane	458	115	587	819	0.559	458	416	1.3	1.3	10.372	B
C - A637 South	860	215	335	1062	0.809	859	710	3.9	4.1	17.902	C
D - B6428	421	105	816	523	0.804	419	378	3.5	3.9	34.980	D

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	447	112	379	1051	0.425	449	649	1.2	0.8	6.227	A
B - Dearne Hall Lane	374	93	482	876	0.427	376	346	1.3	0.8	7.513	A
C - A637 South	702	176	275	1094	0.642	711	583	4.1	1.9	9.804	A
D - B6428	343	86	675	591	0.581	353	310	3.9	1.5	16.261	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	374	94	314	1085	0.345	375	538	0.8	0.6	5.277	A
B - Dearne Hall Lane	313	78	402	920	0.340	314	286	0.8	0.5	6.193	A
C - A637 South	588	147	229	1118	0.526	591	487	1.9	1.2	7.010	A
D - B6428	288	72	561	645	0.446	290	259	1.5	0.8	10.578	B

2026 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	17.66	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	17.66	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026 Do Minimum	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	777	100.000
B - Dearne Hall Lane		ONE HOUR	✓	403	100.000
C - A637 South		ONE HOUR	✓	681	100.000
D - B6428		ONE HOUR	✓	351	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	22	0	549	206
	B - Dearne Hall Lane	0	0	292	111
	C - A637 South	413	220	0	48
	D - B6428	201	109	41	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	5	5	0	7
	D - B6428	5	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.83	20.29	4.6	C	713	1069
B - Dearne Hall Lane	0.69	18.19	2.2	C	370	555
C - A637 South	0.72	12.89	2.6	B	625	937
D - B6428	0.68	20.49	2.1	C	322	483

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	585	146	276	1104	0.530	580	475	0.0	1.2	7.078	A
B - Dearne Hall Lane	303	76	611	806	0.377	301	246	0.0	0.6	7.352	A
C - A637 South	513	128	253	1105	0.464	509	659	0.0	0.9	6.313	A
D - B6428	264	66	490	680	0.389	262	273	0.0	0.7	8.939	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	699	175	331	1076	0.649	696	570	1.2	1.9	9.764	A
B - Dearne Hall Lane	362	91	732	739	0.490	361	295	0.6	1.0	9.817	A
C - A637 South	612	153	304	1079	0.568	610	790	0.9	1.4	8.048	A
D - B6428	316	79	587	633	0.498	314	327	0.7	1.0	11.735	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	855	214	404	1038	0.824	845	695	1.9	4.4	18.517	C
B - Dearne Hall Lane	444	111	890	653	0.680	439	359	1.0	2.1	17.127	C
C - A637 South	750	187	369	1044	0.718	745	960	1.4	2.6	12.439	B
D - B6428	386	97	716	571	0.677	382	398	1.0	2.1	19.492	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	855	214	407	1036	0.826	855	700	4.4	4.6	20.289	C
B - Dearne Hall Lane	444	111	900	647	0.685	443	362	2.1	2.2	18.187	C
C - A637 South	750	187	373	1042	0.719	750	970	2.6	2.6	12.889	B
D - B6428	386	97	721	569	0.679	386	401	2.1	2.1	20.492	C

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	699	175	336	1073	0.651	709	577	4.6	2.0	10.544	B
B - Dearne Hall Lane	362	91	746	731	0.495	367	299	2.2	1.0	10.349	B
C - A637 South	612	153	309	1076	0.569	617	804	2.6	1.4	8.333	A
D - B6428	316	79	594	630	0.501	320	333	2.1	1.1	12.282	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	585	146	280	1102	0.531	588	481	2.0	1.2	7.315	A
B - Dearne Hall Lane	303	76	619	801	0.379	305	249	1.0	0.6	7.540	A
C - A637 South	513	128	257	1103	0.465	515	668	1.4	0.9	6.450	A
D - B6428	264	66	495	677	0.390	266	276	1.1	0.7	9.175	A

2026 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	28.24	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	28.24	D

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 Do Minimum	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	529	100.000
B - Dearne Hall Lane		ONE HOUR	✓	447	100.000
C - A637 South		ONE HOUR	✓	854	100.000
D - B6428		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	10	0	356	163
	B - Dearne Hall Lane	0	0	304	143
	C - A637 South	516	287	2	49
	D - B6428	236	135	32	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	4
	B - Dearne Hall Lane	0	0	3	4
	C - A637 South	2	1	100	0
	D - B6428	3	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.59	9.16	1.5	A	485	728
B - Dearne Hall Lane	0.62	12.07	1.6	B	410	615
C - A637 South	0.89	29.80	7.3	D	784	1175
D - B6428	0.92	67.73	7.8	F	372	557

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	398	100	341	1070	0.372	396	568	0.0	0.6	5.490	A
B - Dearne Hall Lane	337	84	423	909	0.370	334	315	0.0	0.6	6.446	A
C - A637 South	643	161	238	1113	0.578	637	519	0.0	1.4	7.611	A
D - B6428	305	76	608	623	0.490	301	267	0.0	1.0	11.365	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	476	119	409	1035	0.459	475	681	0.6	0.9	6.616	A
B - Dearne Hall Lane	402	100	507	863	0.466	401	377	0.6	0.9	8.030	A
C - A637 South	768	192	285	1088	0.705	764	622	1.4	2.3	11.139	B
D - B6428	364	91	729	565	0.644	361	320	1.0	1.8	17.835	C

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	582	146	491	993	0.587	580	818	0.9	1.4	8.957	A
B - Dearne Hall Lane	492	123	618	802	0.614	489	453	0.9	1.6	11.805	B
C - A637 South	940	235	348	1055	0.891	923	759	2.3	6.6	24.954	C
D - B6428	446	111	881	492	0.906	428	390	1.8	6.2	48.320	E

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	582	146	501	988	0.590	582	834	1.4	1.5	9.161	A
B - Dearne Hall Lane	492	123	621	800	0.615	492	462	1.6	1.6	12.072	B
C - A637 South	940	235	350	1054	0.892	938	763	6.6	7.3	29.801	D
D - B6428	446	111	895	485	0.919	440	393	6.2	7.8	67.730	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	476	119	428	1026	0.464	478	710	1.5	0.9	6.811	A
B - Dearne Hall Lane	402	100	512	860	0.467	405	393	1.6	0.9	8.224	A
C - A637 South	768	192	288	1087	0.706	787	629	7.3	2.5	12.895	B
D - B6428	364	91	751	555	0.657	387	324	7.8	2.1	24.639	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	398	100	348	1067	0.373	399	579	0.9	0.6	5.577	A
B - Dearne Hall Lane	337	84	427	906	0.371	338	321	0.9	0.6	6.553	A
C - A637 South	643	161	240	1112	0.578	647	524	2.5	1.4	7.953	A
D - B6428	305	76	618	618	0.493	309	270	2.1	1.0	12.122	B

2033 Do Minimum, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	23.66	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	23.66	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2033 Do Minimum	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	821	100.000
B - Dearne Hall Lane		ONE HOUR	✓	425	100.000
C - A637 South		ONE HOUR	✓	721	100.000
D - B6428		ONE HOUR	✓	371	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	24	0	580	217
	B - Dearne Hall Lane	0	0	308	117
	C - A637 South	437	233	0	51
	D - B6428	213	115	43	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	5	5	0	7
	D - B6428	5	5	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.88	29.09	6.9	D	753	1130
B - Dearne Hall Lane	0.75	24.00	3.0	C	390	585
C - A637 South	0.77	15.78	3.4	C	662	992
D - B6428	0.74	26.54	2.9	D	340	511

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	618	155	292	1096	0.564	613	503	0.0	1.3	7.655	A
B - Dearne Hall Lane	320	80	645	787	0.407	317	260	0.0	0.7	7.889	A
C - A637 South	543	136	267	1098	0.494	539	695	0.0	1.0	6.723	A
D - B6428	279	70	519	666	0.419	276	287	0.0	0.7	9.610	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	738	185	350	1066	0.692	734	603	1.3	2.3	11.144	B
B - Dearne Hall Lane	382	96	773	717	0.533	380	312	0.7	1.2	11.012	B
C - A637 South	648	162	320	1070	0.606	646	833	1.0	1.6	8.875	A
D - B6428	334	83	622	616	0.541	332	344	0.7	1.2	13.157	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	904	226	426	1027	0.880	888	734	2.3	6.2	24.532	C
B - Dearne Hall Lane	468	117	935	628	0.745	461	379	1.2	2.8	21.560	C
C - A637 South	794	198	388	1035	0.767	787	1008	1.6	3.2	14.898	B
D - B6428	408	102	757	551	0.741	402	417	1.2	2.7	24.374	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	904	226	430	1024	0.882	901	741	6.2	6.9	29.085	D
B - Dearne Hall Lane	468	117	949	621	0.754	467	383	2.8	3.0	24.004	C
C - A637 South	794	198	393	1032	0.769	793	1023	3.2	3.4	15.783	C
D - B6428	408	102	764	548	0.745	408	423	2.7	2.9	26.538	D

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	738	185	356	1063	0.695	756	614	6.9	2.5	12.824	B
B - Dearne Hall Lane	382	96	795	705	0.542	389	317	3.0	1.3	12.053	B
C - A637 South	648	162	329	1065	0.608	655	855	3.4	1.7	9.366	A
D - B6428	334	83	631	612	0.545	340	353	2.9	1.3	14.157	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	618	155	296	1094	0.565	622	510	2.5	1.4	8.001	A
B - Dearne Hall Lane	320	80	655	781	0.409	322	263	1.3	0.7	8.153	A
C - A637 South	543	136	271	1096	0.495	545	706	1.7	1.0	6.911	A
D - B6428	279	70	525	663	0.421	281	292	1.3	0.8	9.938	A

2033 Do Minimum, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	47.62	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	47.62	E

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	2033 Do Minimum	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	559	100.000
B - Dearne Hall Lane		ONE HOUR	✓	472	100.000
C - A637 South		ONE HOUR	✓	901	100.000
D - B6428		ONE HOUR	✓	429	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	11	0	376	172
	B - Dearne Hall Lane	0	0	321	151
	C - A637 South	545	302	2	52
	D - B6428	250	143	34	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	4
	B - Dearne Hall Lane	0	0	3	4
	C - A637 South	8	4	1	0
	D - B6428	8	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.63	10.22	1.7	B	513	769
B - Dearne Hall Lane	0.67	14.17	2.0	B	433	650
C - A637 South	0.95	50.73	13.1	F	827	1240
D - B6428	1.02	126.63	16.6	F	394	590

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	421	105	359	1061	0.397	418	600	0.0	0.7	5.757	A
B - Dearne Hall Lane	355	89	446	896	0.397	353	331	0.0	0.7	6.817	A
C - A637 South	678	170	251	1106	0.613	672	548	0.0	1.6	8.671	A
D - B6428	323	81	641	607	0.532	318	282	0.0	1.2	13.050	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	503	126	430	1024	0.491	501	718	0.7	1.0	7.089	A
B - Dearne Hall Lane	424	106	535	847	0.501	423	397	0.7	1.0	8.739	A
C - A637 South	810	202	301	1080	0.750	805	657	1.6	3.0	13.596	B
D - B6428	386	96	768	546	0.706	381	338	1.2	2.4	22.497	C

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	615	154	507	984	0.625	613	849	1.0	1.7	9.925	A
B - Dearne Hall Lane	520	130	652	783	0.663	516	468	1.0	2.0	13.721	B
C - A637 South	992	248	368	1045	0.949	961	800	3.0	10.8	36.368	E
D - B6428	472	118	918	474	0.996	439	411	2.4	10.8	73.483	F

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	615	154	519	978	0.629	615	868	1.7	1.7	10.223	B
B - Dearne Hall Lane	520	130	655	781	0.665	519	479	2.0	2.0	14.175	B
C - A637 South	992	248	370	1044	0.950	982	805	10.8	13.1	50.734	F
D - B6428	472	118	938	465	1.016	449	414	10.8	16.6	126.629	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	503	126	470	1004	0.501	505	779	1.7	1.1	7.490	A
B - Dearne Hall Lane	424	106	544	842	0.504	428	431	2.0	1.1	9.057	A
C - A637 South	810	202	304	1078	0.751	849	668	13.1	3.4	19.070	C
D - B6428	386	96	810	526	0.733	439	343	16.6	3.3	57.633	F

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	421	105	369	1056	0.399	422	616	1.1	0.7	5.881	A
B - Dearne Hall Lane	355	89	452	893	0.398	357	340	1.1	0.7	6.957	A
C - A637 South	678	170	254	1105	0.614	685	555	3.4	1.7	9.244	A
D - B6428	323	81	654	601	0.537	331	285	3.3	1.3	14.582	B

2026 Residential Phase 1a, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	18.20	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	18.20	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2026 Residential Phase 1a	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	778	100.000
B - Dearne Hall Lane		ONE HOUR	✓	405	100.000
C - A637 South		ONE HOUR	✓	688	100.000
D - B6428		ONE HOUR	✓	357	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	22	0	550	206
	B - Dearne Hall Lane	0	0	293	112
	C - A637 South	416	224	0	48
	D - B6428	204	112	41	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	5	5	0	7
	D - B6428	5	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.83	20.84	4.7	C	714	1071
B - Dearne Hall Lane	0.69	18.43	2.2	C	372	557
C - A637 South	0.73	13.26	2.7	B	631	947
D - B6428	0.70	21.68	2.3	C	328	491

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	586	146	281	1101	0.532	581	479	0.0	1.2	7.122	A
B - Dearne Hall Lane	305	76	612	805	0.379	302	251	0.0	0.6	7.380	A
C - A637 South	518	129	254	1105	0.469	514	660	0.0	0.9	6.371	A
D - B6428	269	67	495	677	0.397	266	273	0.0	0.7	9.087	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	699	175	338	1072	0.652	696	575	1.2	1.9	9.866	A
B - Dearne Hall Lane	364	91	733	739	0.493	363	301	0.6	1.0	9.877	A
C - A637 South	618	155	304	1078	0.574	617	791	0.9	1.4	8.163	A
D - B6428	321	80	593	630	0.509	319	328	0.7	1.1	12.044	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	857	214	411	1034	0.828	846	701	1.9	4.5	18.925	C
B - Dearne Hall Lane	446	111	891	652	0.684	441	367	1.0	2.1	17.321	C
C - A637 South	758	189	370	1044	0.726	752	962	1.4	2.6	12.765	B
D - B6428	393	98	724	567	0.693	389	399	1.1	2.2	20.504	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	857	214	415	1032	0.830	856	706	4.5	4.7	20.838	C
B - Dearne Hall Lane	446	111	901	647	0.689	446	370	2.1	2.2	18.430	C
C - A637 South	758	189	374	1042	0.727	757	972	2.6	2.7	13.258	B
D - B6428	393	98	729	565	0.695	393	403	2.2	2.3	21.685	C

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	699	175	343	1070	0.654	710	583	4.7	2.0	10.696	B
B - Dearne Hall Lane	364	91	748	731	0.498	369	305	2.2	1.1	10.426	B
C - A637 South	618	155	310	1075	0.575	624	806	2.7	1.5	8.471	A
D - B6428	321	80	600	627	0.512	326	334	2.3	1.1	12.671	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	586	146	285	1099	0.533	589	486	2.0	1.2	7.367	A
B - Dearne Hall Lane	305	76	620	801	0.381	307	254	1.1	0.6	7.571	A
C - A637 South	518	129	257	1103	0.470	520	669	1.5	0.9	6.517	A
D - B6428	269	67	500	675	0.398	270	277	1.1	0.7	9.343	A

2026 Residential Phase 1a, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	30.03	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	30.03	D

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	2026 Residential Phase 1a	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	535	100.000
B - Dearne Hall Lane		ONE HOUR	✓	453	100.000
C - A637 South		ONE HOUR	✓	858	100.000
D - B6428		ONE HOUR	✓	409	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	10	0	359	166
	B - Dearne Hall Lane	0	0	307	146
	C - A637 South	518	289	2	49
	D - B6428	238	137	32	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	4
	B - Dearne Hall Lane	0	0	3	4
	C - A637 South	2	1	100	0
	D - B6428	3	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.60	9.36	1.5	A	491	736
B - Dearne Hall Lane	0.63	12.48	1.7	B	416	624
C - A637 South	0.90	31.54	7.8	D	787	1181
D - B6428	0.93	73.36	8.6	F	375	563

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	403	101	344	1069	0.377	400	571	0.0	0.6	5.540	A
B - Dearne Hall Lane	341	85	427	906	0.376	339	318	0.0	0.6	6.525	A
C - A637 South	646	161	242	1111	0.582	640	523	0.0	1.4	7.694	A
D - B6428	308	77	611	621	0.496	304	271	0.0	1.0	11.516	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	481	120	413	1033	0.465	480	684	0.6	0.9	6.700	A
B - Dearne Hall Lane	407	102	512	860	0.474	406	380	0.6	0.9	8.175	A
C - A637 South	771	193	291	1086	0.711	767	627	1.4	2.4	11.352	B
D - B6428	368	92	732	563	0.653	364	325	1.0	1.8	18.272	C

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	589	147	494	991	0.594	587	821	0.9	1.5	9.133	A
B - Dearne Hall Lane	499	125	625	798	0.625	496	456	0.9	1.7	12.182	B
C - A637 South	945	236	355	1052	0.898	926	766	2.4	7.0	26.013	D
D - B6428	450	113	884	490	0.918	431	397	1.8	6.7	50.888	F

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	589	147	504	986	0.597	589	837	1.5	1.5	9.357	A
B - Dearne Hall Lane	499	125	628	796	0.626	499	465	1.7	1.7	12.482	B
C - A637 South	945	236	357	1051	0.899	942	770	7.0	7.8	31.540	D
D - B6428	450	113	899	484	0.931	443	399	6.7	8.6	73.355	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	481	120	433	1023	0.470	483	716	1.5	0.9	6.919	A
B - Dearne Hall Lane	407	102	518	857	0.475	410	398	1.7	1.0	8.389	A
C - A637 South	771	193	293	1084	0.711	792	635	7.8	2.6	13.323	B
D - B6428	368	92	756	552	0.666	393	329	8.6	2.2	26.411	D

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	403	101	351	1065	0.378	404	582	0.9	0.6	5.632	A
B - Dearne Hall Lane	341	85	431	904	0.377	342	324	1.0	0.6	6.637	A
C - A637 South	646	161	245	1110	0.582	651	529	2.6	1.4	8.055	A
D - B6428	308	77	621	617	0.499	312	274	2.2	1.1	12.328	B

2033 Full Residential, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	31.10	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	31.10	D

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	2033 Full Residential	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	829	100.000
B - Dearne Hall Lane		ONE HOUR	✓	438	100.000
C - A637 South		ONE HOUR	✓	761	100.000
D - B6428		ONE HOUR	✓	407	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	24	0	584	221
	B - Dearne Hall Lane	0	0	314	124
	C - A637 South	453	257	0	51
	D - B6428	227	137	43	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	5	4	0	7
	D - B6428	5	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.91	37.62	8.9	E	761	1141
B - Dearne Hall Lane	0.78	26.92	3.4	D	402	603
C - A637 South	0.82	19.72	4.4	C	698	1047
D - B6428	0.85	43.59	5.1	E	373	560

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	624	156	326	1078	0.579	619	525	0.0	1.4	8.035	A
B - Dearne Hall Lane	330	82	651	784	0.421	327	294	0.0	0.7	8.106	A
C - A637 South	573	143	275	1094	0.524	568	702	0.0	1.1	7.123	A
D - B6428	306	77	548	652	0.470	303	295	0.0	0.9	10.670	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	745	186	391	1045	0.713	741	630	1.4	2.5	12.128	B
B - Dearne Hall Lane	394	98	779	713	0.552	392	352	0.7	1.2	11.520	B
C - A637 South	684	171	330	1065	0.642	681	841	1.1	1.8	9.762	A
D - B6428	366	91	657	599	0.610	363	354	0.9	1.6	15.738	C

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	913	228	473	1002	0.911	892	762	2.5	7.7	29.440	D
B - Dearne Hall Lane	482	121	938	626	0.770	475	427	1.2	3.1	23.496	C
C - A637 South	838	209	398	1029	0.814	829	1015	1.8	4.2	17.998	C
D - B6428	448	112	799	531	0.843	436	428	1.6	4.5	35.879	E

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	913	228	480	999	0.914	908	773	7.7	8.9	37.616	E
B - Dearne Hall Lane	482	121	955	617	0.782	481	433	3.1	3.4	26.918	D
C - A637 South	838	209	405	1026	0.817	837	1032	4.2	4.4	19.716	C
D - B6428	448	112	807	528	0.850	446	434	4.5	5.1	43.587	E

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	745	186	402	1039	0.717	770	647	8.9	2.8	15.027	C
B - Dearne Hall Lane	394	98	810	697	0.565	402	362	3.4	1.4	12.983	B
C - A637 South	684	171	341	1059	0.646	694	871	4.4	2.0	10.590	B
D - B6428	366	91	670	593	0.617	379	366	5.1	1.8	18.514	C

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	624	156	331	1076	0.580	629	534	2.8	1.5	8.472	A
B - Dearne Hall Lane	330	82	662	778	0.424	332	299	1.4	0.8	8.417	A
C - A637 South	573	143	280	1091	0.525	576	714	2.0	1.2	7.369	A
D - B6428	306	77	556	648	0.473	310	300	1.8	1.0	11.211	B

2033 Full Residential, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	68.84	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	68.84	F

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	2033 Full Residential	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	591	100.000
B - Dearne Hall Lane		ONE HOUR	✓	521	100.000
C - A637 South		ONE HOUR	✓	926	100.000
D - B6428		ONE HOUR	✓	451	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	11	0	393	187
	B - Dearne Hall Lane	0	0	347	174
	C - A637 South	555	317	2	52
	D - B6428	259	156	34	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	4
	B - Dearne Hall Lane	0	0	3	4
	C - A637 South	2	1	100	0
	D - B6428	3	3	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.67	11.61	2.1	B	542	813
B - Dearne Hall Lane	0.75	19.47	3.0	C	478	717
C - A637 South	1.00	77.60	21.8	F	850	1275
D - B6428	1.08	182.89	26.4	F	414	621

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	445	111	380	1050	0.424	442	614	0.0	0.8	6.082	A
B - Dearne Hall Lane	392	98	470	883	0.444	389	352	0.0	0.8	7.485	A
C - A637 South	697	174	279	1091	0.639	690	580	0.0	1.7	8.972	A
D - B6428	340	85	660	598	0.568	334	310	0.0	1.3	13.763	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	531	133	454	1012	0.525	530	734	0.8	1.1	7.664	A
B - Dearne Hall Lane	468	117	563	832	0.563	466	421	0.8	1.3	10.131	B
C - A637 South	832	208	335	1062	0.784	826	695	1.7	3.4	15.046	C
D - B6428	405	101	789	536	0.756	399	372	1.3	2.9	25.896	D

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	651	163	525	975	0.667	647	851	1.1	2.0	11.208	B
B - Dearne Hall Lane	574	143	685	765	0.750	567	487	1.3	2.9	18.258	C
C - A637 South	1020	255	408	1024	0.996	971	844	3.4	15.5	47.543	E
D - B6428	497	124	929	469	1.058	447	451	2.9	15.3	94.112	F

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	651	163	535	970	0.671	650	868	2.0	2.1	11.614	B
B - Dearne Hall Lane	574	143	689	763	0.752	573	497	2.9	3.0	19.467	C
C - A637 South	1020	255	411	1022	0.997	995	850	15.5	21.8	77.596	F
D - B6428	497	124	951	459	1.083	452	455	15.3	26.4	182.892	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	531	133	517	979	0.542	535	829	2.1	1.2	8.414	A
B - Dearne Hall Lane	468	117	575	825	0.568	475	476	3.0	1.4	10.802	B
C - A637 South	832	208	340	1060	0.786	903	710	21.8	4.1	31.009	D
D - B6428	405	101	862	501	0.809	483	381	26.4	7.0	135.408	F

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	445	111	397	1041	0.427	447	639	1.2	0.8	6.272	A
B - Dearne Hall Lane	392	98	477	879	0.446	394	367	1.4	0.8	7.713	A
C - A637 South	697	174	283	1089	0.640	706	589	4.1	1.9	9.756	A
D - B6428	340	85	675	591	0.575	362	314	7.0	1.4	17.571	C

2026 Employment, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	19.63	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	19.63	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2026 Employment	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	790	100.000
B - Dearne Hall Lane		ONE HOUR	✓	421	100.000
C - A637 South		ONE HOUR	✓	681	100.000
D - B6428		ONE HOUR	✓	366	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	22	0	549	219
	B - Dearne Hall Lane	0	0	292	129
	C - A637 South	413	220	0	48
	D - B6428	207	118	41	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	7
	C - A637 South	5	5	0	7
	D - B6428	6	6	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.84	22.54	5.2	C	725	1087
B - Dearne Hall Lane	0.72	21.06	2.6	C	386	579
C - A637 South	0.73	13.71	2.8	B	625	937
D - B6428	0.71	22.72	2.5	C	336	504

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	595	149	283	1101	0.540	590	479	0.0	1.2	7.257	A
B - Dearne Hall Lane	317	79	621	800	0.396	314	252	0.0	0.7	7.676	A
C - A637 South	513	128	276	1093	0.469	509	658	0.0	0.9	6.442	A
D - B6428	276	69	490	680	0.405	273	296	0.0	0.7	9.281	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	710	178	339	1071	0.663	707	575	1.2	2.0	10.182	B
B - Dearne Hall Lane	378	95	744	733	0.516	377	303	0.7	1.1	10.503	B
C - A637 South	612	153	331	1064	0.575	610	789	0.9	1.4	8.301	A
D - B6428	329	82	587	633	0.520	327	354	0.7	1.1	12.375	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	870	217	413	1033	0.842	858	701	2.0	4.9	20.170	C
B - Dearne Hall Lane	464	116	903	646	0.718	458	369	1.1	2.5	19.439	C
C - A637 South	750	187	402	1027	0.730	745	959	1.4	2.7	13.156	B
D - B6428	403	101	716	571	0.705	398	431	1.1	2.3	21.366	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	870	217	417	1031	0.844	868	706	4.9	5.2	22.545	C
B - Dearne Hall Lane	464	116	914	640	0.725	463	372	2.5	2.6	21.061	C
C - A637 South	750	187	407	1025	0.732	749	970	2.7	2.8	13.709	B
D - B6428	403	101	721	569	0.708	403	435	2.3	2.5	22.722	C

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	710	178	345	1069	0.665	722	584	5.2	2.1	11.158	B
B - Dearne Hall Lane	378	95	760	724	0.523	384	307	2.6	1.2	11.222	B
C - A637 South	612	153	338	1061	0.577	617	806	2.8	1.5	8.640	A
D - B6428	329	82	594	630	0.523	334	362	2.5	1.2	13.076	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	595	149	287	1099	0.541	598	486	2.1	1.2	7.526	A
B - Dearne Hall Lane	317	79	629	795	0.398	319	256	1.2	0.7	7.899	A
C - A637 South	513	128	280	1091	0.470	515	668	1.5	0.9	6.594	A
D - B6428	276	69	495	677	0.407	277	300	1.2	0.7	9.555	A

2026 Employment, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	35.03	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	35.03	E

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
D12	2026 Employment	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	534	100.000
B - Dearne Hall Lane		ONE HOUR	✓	454	100.000
C - A637 South		ONE HOUR	✓	854	100.000
D - B6428		ONE HOUR	✓	431	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	10	0	356	168
	B - Dearne Hall Lane	0	0	304	150
	C - A637 South	516	287	2	49
	D - B6428	247	150	32	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	5
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	2	1	100	0
	D - B6428	4	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.60	9.47	1.5	A	490	735
B - Dearne Hall Lane	0.63	12.53	1.7	B	417	625
C - A637 South	0.90	31.33	7.7	D	784	1175
D - B6428	0.98	97.70	12.4	F	395	593

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	402	101	352	1065	0.378	400	576	0.0	0.6	5.586	A
B - Dearne Hall Lane	342	85	426	907	0.377	339	326	0.0	0.6	6.546	A
C - A637 South	643	161	247	1108	0.580	637	519	0.0	1.4	7.680	A
D - B6428	324	81	608	623	0.521	320	276	0.0	1.1	12.161	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	480	120	422	1029	0.467	479	690	0.6	0.9	6.770	A
B - Dearne Hall Lane	408	102	511	860	0.474	407	390	0.6	0.9	8.208	A
C - A637 South	768	192	296	1083	0.709	764	622	1.4	2.4	11.326	B
D - B6428	387	97	729	565	0.686	383	331	1.1	2.1	20.094	C

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	588	147	503	987	0.596	586	825	0.9	1.5	9.241	A
B - Dearne Hall Lane	500	125	623	799	0.626	497	466	0.9	1.7	12.229	B
C - A637 South	940	235	361	1048	0.897	922	758	2.4	6.9	25.895	D
D - B6428	475	119	880	492	0.964	447	403	2.1	8.9	61.860	F

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	588	147	514	981	0.599	588	841	1.5	1.5	9.473	A
B - Dearne Hall Lane	500	125	626	797	0.627	500	475	1.7	1.7	12.532	B
C - A637 South	940	235	363	1048	0.898	937	763	6.9	7.7	31.331	D
D - B6428	475	119	894	486	0.977	460	406	8.9	12.4	97.703	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	480	120	449	1015	0.473	482	730	1.5	0.9	7.033	A
B - Dearne Hall Lane	408	102	518	857	0.477	411	413	1.7	1.0	8.432	A
C - A637 South	768	192	299	1081	0.710	788	630	7.7	2.6	13.265	B
D - B6428	387	97	752	554	0.699	427	335	12.4	2.6	36.169	E

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	402	101	360	1061	0.379	403	588	0.9	0.6	5.681	A
B - Dearne Hall Lane	342	85	431	904	0.378	343	333	1.0	0.6	6.664	A
C - A637 South	643	161	249	1107	0.581	648	525	2.6	1.4	8.043	A
D - B6428	324	81	618	618	0.525	330	279	2.6	1.2	13.212	B

2026 Phase 1 Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	20.35	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	20.35	C

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2026 Phase 1 Development	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	792	100.000
B - Dearne Hall Lane		ONE HOUR	✓	423	100.000
C - A637 South		ONE HOUR	✓	688	100.000
D - B6428		ONE HOUR	✓	372	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	22	0	550	220
	B - Dearne Hall Lane	0	0	293	130
	C - A637 South	416	224	0	48
	D - B6428	210	121	41	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	7
	C - A637 South	5	5	0	7
	D - B6428	6	6	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.85	23.36	5.4	C	727	1090
B - Dearne Hall Lane	0.73	21.45	2.7	C	388	582
C - A637 South	0.74	14.16	2.9	B	631	947
D - B6428	0.72	24.17	2.6	C	341	512

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	596	149	288	1098	0.543	591	484	0.0	1.2	7.315	A
B - Dearne Hall Lane	318	80	622	800	0.398	316	258	0.0	0.7	7.711	A
C - A637 South	518	129	278	1092	0.474	514	660	0.0	0.9	6.507	A
D - B6428	280	70	495	677	0.413	277	297	0.0	0.7	9.437	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	712	178	346	1068	0.667	709	580	1.2	2.0	10.311	B
B - Dearne Hall Lane	380	95	745	732	0.520	379	309	0.7	1.1	10.566	B
C - A637 South	618	155	333	1063	0.582	617	791	0.9	1.4	8.433	A
D - B6428	334	84	593	630	0.531	333	356	0.7	1.2	12.714	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	872	218	421	1029	0.847	860	707	2.0	5.0	20.748	C
B - Dearne Hall Lane	466	116	905	645	0.722	460	376	1.1	2.5	19.729	C
C - A637 South	758	189	404	1026	0.738	752	960	1.4	2.8	13.539	B
D - B6428	410	102	723	568	0.722	404	433	1.2	2.5	22.540	C

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	872	218	425	1027	0.849	871	713	5.0	5.4	23.362	C
B - Dearne Hall Lane	466	116	916	639	0.729	465	380	2.5	2.7	21.451	C
C - A637 South	758	189	409	1024	0.740	757	972	2.8	2.9	14.155	B
D - B6428	410	102	728	565	0.725	409	438	2.5	2.6	24.167	C

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	712	178	351	1065	0.668	725	589	5.4	2.2	11.373	B
B - Dearne Hall Lane	380	95	762	723	0.526	386	314	2.7	1.2	11.339	B
C - A637 South	618	155	340	1060	0.584	624	808	2.9	1.5	8.798	A
D - B6428	334	84	601	627	0.534	340	364	2.6	1.2	13.521	B

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	596	149	292	1096	0.544	600	490	2.2	1.3	7.591	A
B - Dearne Hall Lane	318	80	631	795	0.401	320	261	1.2	0.7	7.941	A
C - A637 South	518	129	282	1090	0.475	520	670	1.5	1.0	6.664	A
D - B6428	280	70	501	675	0.415	282	301	1.2	0.8	9.737	A

2026 Phase 1 Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	37.42	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	37.42	E

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
D14	2026 Phase 1 Development	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	540	100.000
B - Dearne Hall Lane		ONE HOUR	✓	460	100.000
C - A637 South		ONE HOUR	✓	858	100.000
D - B6428		ONE HOUR	✓	435	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	10	0	359	171
	B - Dearne Hall Lane	0	0	307	153
	C - A637 South	518	289	2	49
	D - B6428	249	152	32	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	5
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	2	1	100	0
	D - B6428	4	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.61	9.67	1.6	A	496	743
B - Dearne Hall Lane	0.64	12.97	1.8	B	422	633
C - A637 South	0.90	33.22	8.2	D	787	1181
D - B6428	0.99	106.03	13.8	F	399	599

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	407	102	355	1063	0.382	404	579	0.0	0.6	5.635	A
B - Dearne Hall Lane	346	87	431	904	0.383	344	329	0.0	0.6	6.629	A
C - A637 South	646	161	251	1106	0.584	640	523	0.0	1.4	7.767	A
D - B6428	327	82	611	621	0.527	323	280	0.0	1.1	12.331	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	485	121	426	1027	0.473	484	694	0.6	0.9	6.860	A
B - Dearne Hall Lane	414	103	516	857	0.482	412	394	0.6	0.9	8.359	A
C - A637 South	771	193	301	1080	0.714	767	627	1.4	2.4	11.545	B
D - B6428	391	98	732	563	0.694	387	336	1.1	2.2	20.635	C

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	595	149	506	985	0.604	592	827	0.9	1.5	9.426	A
B - Dearne Hall Lane	506	127	629	795	0.637	503	469	0.9	1.8	12.631	B
C - A637 South	945	236	368	1045	0.904	925	765	2.4	7.3	27.013	D
D - B6428	479	120	883	491	0.976	449	410	2.2	9.6	65.272	F

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	595	149	517	979	0.607	594	844	1.5	1.6	9.673	A
B - Dearne Hall Lane	506	127	633	794	0.638	506	478	1.8	1.8	12.968	B
C - A637 South	945	236	370	1044	0.905	941	769	7.3	8.2	33.223	D
D - B6428	479	120	898	484	0.990	462	413	9.6	13.8	106.025	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	485	121	455	1011	0.480	488	737	1.6	1.0	7.155	A
B - Dearne Hall Lane	414	103	524	853	0.485	417	419	1.8	1.0	8.609	A
C - A637 South	771	193	304	1078	0.715	793	636	8.2	2.7	13.731	B
D - B6428	391	98	757	552	0.709	435	340	13.8	2.8	40.699	E

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	407	102	363	1059	0.384	408	592	1.0	0.7	5.736	A
B - Dearne Hall Lane	346	87	435	902	0.384	348	336	1.0	0.7	6.753	A
C - A637 South	646	161	254	1105	0.585	651	529	2.7	1.5	8.145	A
D - B6428	327	82	621	617	0.531	334	283	2.8	1.2	13.470	B

2033 Full Development, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	36.70	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	36.70	E

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
D15	2033 Full Development	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	843	100.000
B - Dearne Hall Lane		ONE HOUR	✓	456	100.000
C - A637 South		ONE HOUR	✓	761	100.000
D - B6428		ONE HOUR	✓	423	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	24	0	584	235
	B - Dearne Hall Lane	0	0	314	142
	C - A637 South	453	257	0	51
	D - B6428	234	146	43	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	5	0	3	6
	B - Dearne Hall Lane	0	0	3	6
	C - A637 South	5	4	0	7
	D - B6428	5	5	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.93	44.47	10.7	E	774	1160
B - Dearne Hall Lane	0.82	32.90	4.3	D	418	628
C - A637 South	0.83	21.64	4.8	C	698	1047
D - B6428	0.88	52.42	6.3	F	388	582

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	635	159	332	1075	0.590	629	530	0.0	1.5	8.277	A
B - Dearne Hall Lane	343	86	661	778	0.441	340	300	0.0	0.8	8.477	A
C - A637 South	573	143	299	1081	0.530	568	702	0.0	1.2	7.292	A
D - B6428	318	80	548	652	0.489	315	319	0.0	1.0	11.066	B

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	758	189	399	1041	0.728	753	636	1.5	2.6	12.787	B
B - Dearne Hall Lane	410	102	791	707	0.580	408	360	0.8	1.4	12.409	B
C - A637 South	684	171	358	1050	0.652	681	841	1.2	1.9	10.143	B
D - B6428	380	95	657	600	0.634	377	383	1.0	1.7	16.740	C

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	928	232	481	998	0.930	903	768	2.6	8.9	32.967	D
B - Dearne Hall Lane	502	126	949	620	0.809	492	435	1.4	3.8	27.374	D
C - A637 South	838	209	431	1012	0.828	828	1010	1.9	4.5	19.411	C
D - B6428	466	116	798	532	0.875	451	461	1.7	5.4	40.869	E

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	928	232	489	994	0.934	921	780	8.9	10.7	44.466	E
B - Dearne Hall Lane	502	126	968	610	0.823	500	442	3.8	4.3	32.899	D
C - A637 South	838	209	439	1008	0.831	837	1029	4.5	4.8	21.644	C
D - B6428	466	116	807	528	0.883	462	469	5.4	6.3	52.420	F

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	758	189	412	1034	0.733	789	656	10.7	3.0	16.954	C
B - Dearne Hall Lane	410	102	829	686	0.598	421	372	4.3	1.6	14.640	B
C - A637 South	684	171	373	1042	0.656	695	877	4.8	2.1	11.191	B
D - B6428	380	95	671	593	0.641	398	397	6.3	2.0	20.823	C

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	635	159	339	1072	0.592	641	540	3.0	1.5	8.787	A
B - Dearne Hall Lane	343	86	673	771	0.445	346	306	1.6	0.8	8.862	A
C - A637 South	573	143	305	1078	0.531	576	715	2.1	1.2	7.567	A
D - B6428	318	80	556	648	0.491	322	325	2.0	1.0	11.711	B

2033 Full Development, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		A, B, C, D	83.38	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	83.38	F

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
D16	2033 Full Development	PM	ONE HOUR	16:00	17:30	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	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - A637 North		ONE HOUR	✓	596	100.000
B - Dearne Hall Lane		ONE HOUR	✓	528	100.000
C - A637 South		ONE HOUR	✓	926	100.000
D - B6428		ONE HOUR	✓	476	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	11	0	393	192
	B - Dearne Hall Lane	0	0	347	181
	C - A637 South	555	317	2	52
	D - B6428	269	171	34	2

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - A637 North	B - Dearne Hall Lane	C - A637 South	D - B6428
From	A - A637 North	0	0	3	4
	B - Dearne Hall Lane	0	0	3	5
	C - A637 South	2	1	100	0
	D - B6428	4	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A - A637 North	0.68	11.92	2.1	B	547	820
B - Dearne Hall Lane	0.76	20.57	3.2	C	485	727
C - A637 South	1.00	82.86	23.5	F	850	1275
D - B6428	1.14	243.55	37.5	F	437	655

Main Results for each time segment

16:00 - 16:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	449	112	391	1045	0.430	446	621	0.0	0.8	6.176	A
B - Dearne Hall Lane	398	99	474	881	0.451	394	363	0.0	0.8	7.619	A
C - A637 South	697	174	288	1087	0.642	690	580	0.0	1.8	9.074	A
D - B6428	358	90	660	598	0.599	352	319	0.0	1.5	14.849	B

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	536	134	467	1005	0.533	534	742	0.8	1.2	7.864	A
B - Dearne Hall Lane	475	119	568	829	0.572	473	433	0.8	1.4	10.405	B
C - A637 South	832	208	346	1057	0.788	826	695	1.8	3.5	15.374	C
D - B6428	428	107	789	536	0.798	420	382	1.5	3.5	30.113	D

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	656	164	532	972	0.675	653	850	1.2	2.1	11.511	B
B - Dearne Hall Lane	581	145	689	763	0.762	575	495	1.4	3.1	19.164	C
C - A637 South	1020	255	421	1017	1.002	968	843	3.5	16.4	49.654	E
D - B6428	524	131	926	471	1.114	456	463	3.5	20.7	117.021	F

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	656	164	540	967	0.678	656	864	2.1	2.1	11.916	B
B - Dearne Hall Lane	581	145	693	761	0.764	581	503	3.1	3.2	20.567	C
C - A637 South	1020	255	424	1015	1.004	991	849	16.4	23.5	82.861	F
D - B6428	524	131	948	460	1.139	457	468	20.7	37.5	243.548	F

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	536	134	524	976	0.549	539	829	2.1	1.3	8.580	A
B - Dearne Hall Lane	475	119	578	824	0.576	482	485	3.2	1.4	11.125	B
C - A637 South	832	208	351	1054	0.790	909	709	23.5	4.2	34.458	D
D - B6428	428	107	868	498	0.859	485	392	37.5	23.3	226.436	F

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A - A637 North	449	112	437	1021	0.439	451	683	1.3	0.8	6.537	A
B - Dearne Hall Lane	398	99	486	874	0.455	400	402	1.4	0.9	7.906	A
C - A637 South	697	174	292	1085	0.643	707	593	4.2	1.9	9.908	A
D - B6428	358	90	675	591	0.607	445	324	23.3	1.7	40.761	E

Appendix J-23

Junctions 10 Output – A635 / Church Street / Churchfield Lane Staggered Junction

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.4.1693
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Filename: 2022-11-01_3062 Church Street - Churchfield Lane.j10
Path: G:\Shared drives\Jobs3000\3062 Barugh Green Barnsley\Junction Models\Church Street Churchfield Lane
Report generation date: 09/11/2023 17:04:29

«2026 Residential Phase 1a, PM
»Junction Network
»Arms
»Traffic Demand
»Origin-Destination Data
»Vehicle Mix
»Results

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	6.5	130.91	0.97	0.9	18.77	0.48
Stream B-AD	9.0	117.60	0.95	2.8	57.08	0.75
Stream A-D	0.0	8.07	0.00	0.0	7.26	0.01
Stream D-A	0.0	11.25	0.02	0.0	10.52	0.02
Stream D-BC	1.1	25.27	0.52	0.8	18.34	0.44
Stream C-B	0.4	10.60	0.26	1.7	21.97	0.64
	2026 Do Minimum					
Stream B-C	29.2	414.89	1.26	11.5	187.23	1.03
Stream B-AD	39.1	403.98	1.24	11.3	193.99	1.03
Stream A-D	0.0	8.67	0.00	0.0	7.46	0.01
Stream D-A	0.0	13.56	0.02	0.0	11.33	0.02
Stream D-BC	1.5	33.34	0.60	0.9	21.25	0.49
Stream C-B	0.5	11.58	0.33	4.3	44.73	0.83
	2033 Do Minimum					
Stream B-C	40.8	622.10	1.38	22.2	342.87	1.19
Stream B-AD	55.4	616.52	1.36	21.9	343.00	1.19
Stream A-D	0.0	9.07	0.00	0.0	7.66	0.01
Stream D-A	0.0	17.71	0.03	0.0	12.49	0.03
Stream D-BC	2.1	46.01	0.69	1.2	25.13	0.54
Stream C-B	0.6	12.28	0.35	6.5	65.19	0.89
	2026 Residential Phase 1a					
Stream B-C	29.7	421.80	1.27	11.9	194.31	1.04
Stream B-AD	39.7	411.08	1.24	11.8	201.31	1.04
Stream A-D	0.0	8.70	0.00	0.0	7.47	0.01
Stream D-A	0.0	13.74	0.02	0.0	11.39	0.02
Stream D-BC	1.5	33.95	0.60	0.9	21.48	0.49
Stream C-B	0.5	11.60	0.33	4.3	45.45	0.83

	2033 Residential Full					
Stream B-C	43.2	670.58	1.40	25.8	399.46	1.24
Stream B-AD	58.5	662.13	1.39	25.4	399.93	1.24
Stream A-D	0.0	9.25	0.00	0.0	7.74	0.01
Stream D-A	0.0	19.73	0.03	0.0	12.95	0.03
Stream D-BC	2.4	51.38	0.72	1.2	26.83	0.56
Stream C-B	0.6	12.36	0.35	7.1	71.45	0.91
	2026 Employment					
Stream B-C	31.1	433.97	1.28	12.3	197.85	1.04
Stream B-AD	40.8	425.08	1.25	12.0	205.46	1.04
Stream A-D	0.0	8.69	0.00	0.0	7.48	0.01
Stream D-A	0.0	13.81	0.02	0.0	11.38	0.02
Stream D-BC	1.5	34.20	0.61	0.9	21.48	0.49
Stream C-B	0.5	11.86	0.33	4.5	47.21	0.84
	2026 Phase 1 Development					
Stream B-C	31.5	439.80	1.28	12.8	205.45	1.05
Stream B-AD	41.4	432.48	1.26	12.5	213.21	1.05
Stream A-D	0.0	8.73	0.00	0.0	7.49	0.01
Stream D-A	0.0	13.98	0.03	0.0	11.44	0.02
Stream D-BC	1.6	34.79	0.61	1.0	21.72	0.49
Stream C-B	0.5	11.87	0.33	4.6	48.00	0.84
	2033 Full Development					
Stream B-C	45.7	701.07	1.41	27.2	417.43	1.26
Stream B-AD	60.7	697.11	1.41	26.5	418.52	1.26
Stream A-D	0.0	9.29	0.00	0.0	7.76	0.01
Stream D-A	0.0	20.61	0.04	0.0	13.12	0.03
Stream D-BC	2.5	53.46	0.73	1.3	27.41	0.56
Stream C-B	0.6	12.66	0.36	7.6	75.63	0.92
	2022 Base + Full Development					
Stream B-C	8.2	165.05	1.00	1.1	22.47	0.53
Stream B-AD	11.1	143.14	0.99	3.3	67.81	0.79
Stream A-D	0.0	8.21	0.00	0.0	7.33	0.01
Stream D-A	0.0	11.80	0.02	0.0	10.79	0.02
Stream D-BC	1.2	27.28	0.55	0.8	19.43	0.46
Stream C-B	0.4	10.92	0.27	1.9	23.44	0.66

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	Church Street / Churchfield Lane Stagger
Location	
Site number	
Date	08/11/2023
Version	
Status	(new file)
Identifier	
Client	Strata Sterling Barnsley West Ltd
Jobnumber	
Enumerator	Fore Consulting Limited
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

Analysis Set Details

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

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	2026 Residential Phase 1a	PM	ONE HOUR	16:15	17:45	15	✓

2026 Residential Phase 1a, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Arm D Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Right-Left Stagger	Two-way	Two-way	Two-way	Two-way		46.48	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	46.48	E

Arms

Arms

Arm	Name	Description	Arm type
A	Huddersfield Road		Major
B	Church Street		Minor
C	Barnsley Road		Major
D	Churchfield Lane		Minor

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)
A	9.30			110.0		-
C	9.30			140.0		-

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	7.00	6.00	5.50	4.50		4.00	40	55
D	One lane plus flare	8.00	6.00	3.80	3.20	2.40		1.00	95	80

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
A-D	638	-	-	-	0.212	0.212	0.212	-	0.212	-	-
B-AD	532	0.083	0.210	-	-	-	0.132	0.300	0.132	0.083	0.210
B-C	680	0.089	0.226	-	-	-	-	-	-	0.089	0.226
C-B	655	0.217	0.217	-	-	-	-	-	-	0.217	0.217
D-A	607	-	-	-	0.201	0.080	0.201	-	0.080	-	-
D-BC	597	0.148	0.148	0.336	0.235	0.093	0.235	-	0.093	-	-

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

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	743	100.000
B		ONE HOUR	✓	390	100.000
C		ONE HOUR	✓	767	100.000
D		ONE HOUR	✓	156	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	334	406	3
	B	108	0	197	85
	C	353	333	0	81
	D	8	104	44	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	0	0	6	0
	B	3	0	1	1
	C	4	1	0	5
	D	14	0	7	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	1.04	194.31	11.9	F	181	271
B-AD	1.04	201.31	11.8	F	177	266
A-B					306	460
A-C					373	559
A-D	0.01	7.47	0.0	A	3	4
D-A	0.02	11.39	0.0	B	7	11
D-BC	0.49	21.48	0.9	C	136	204
C-D					74	111
C-A					324	486
C-B	0.83	45.45	4.3	E	306	458

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	148	37	505	0.293	147	0.0	0.4	10.050	B
B-AD	145	36	315	0.461	142	0.0	0.8	20.898	C
A-B	251	63			251				
A-C	306	76			306				
A-D	2	0.56	538	0.004	2	0.0	0.0	6.721	A
D-A	6	2	482	0.013	6	0.0	0.0	8.626	A
D-BC	111	28	420	0.265	110	0.0	0.4	11.772	B
C-D	61	15			61				
C-A	266	66			266				
C-B	251	63	510	0.492	247	0.0	0.9	13.665	B

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	177	44	445	0.398	176	0.4	0.7	13.434	B
B-AD	174	43	271	0.639	170	0.8	1.6	35.305	E
A-B	300	75			300				
A-C	365	91			365				
A-D	3	0.67	518	0.005	3	0.0	0.0	6.989	A
D-A	7	2	445	0.016	7	0.0	0.0	9.379	A
D-BC	133	33	386	0.345	132	0.4	0.5	14.461	B
C-D	73	18			73				
C-A	317	79			317				
C-B	299	75	481	0.622	297	0.9	1.6	19.468	C

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	217	54	209	1.038	188	0.7	8.0	113.939	F
B-AD	212	53	209	1.019	188	1.6	7.7	120.674	F
A-B	368	92			368				
A-C	447	112			447				
A-D	3	0.83	490	0.007	3	0.0	0.0	7.392	A
D-A	9	2	376	0.023	9	0.0	0.0	11.161	B
D-BC	163	41	338	0.483	161	0.5	0.9	20.656	C
C-D	89	22			89				
C-A	389	97			389				
C-B	367	92	442	0.829	357	1.6	3.9	39.094	E

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	217	54	210	1.034	201	8.0	11.9	194.313	F
B-AD	212	53	205	1.036	196	7.7	11.8	201.307	F
A-B	368	92			368				
A-C	447	112			447				
A-D	3	0.83	485	0.007	3	0.0	0.0	7.471	A
D-A	9	2	369	0.024	9	0.0	0.0	11.386	B
D-BC	163	41	333	0.489	163	0.9	0.9	21.483	C
C-D	89	22			89				
C-A	389	97			389				
C-B	367	92	442	0.830	365	3.9	4.3	45.452	E

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	177	44	369	0.480	221	11.9	1.0	31.620	D
B-AD	174	43	264	0.658	211	11.8	2.3	90.255	F
A-B	300	75			300				
A-C	365	91			365				
A-D	3	0.67	508	0.005	3	0.0	0.0	7.117	A
D-A	7	2	435	0.017	7	0.0	0.0	9.593	A
D-BC	133	33	378	0.352	135	0.9	0.6	15.174	C
C-D	73	18			73				
C-A	317	79			317				
C-B	299	75	481	0.623	310	4.3	1.8	22.400	C

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	148	37	497	0.298	150	1.0	0.4	10.502	B
B-AD	145	36	314	0.463	151	2.3	0.9	23.290	C
A-B	251	63			251				
A-C	306	76			306				
A-D	2	0.56	536	0.004	2	0.0	0.0	6.749	A
D-A	6	2	479	0.013	6	0.0	0.0	8.679	A
D-BC	111	28	419	0.266	112	0.6	0.4	12.003	B
C-D	61	15			61				
C-A	266	66			266				
C-B	251	63	509	0.492	254	1.8	1.0	14.409	B