

# Junctions 9

## PICADY 9 - Priority Intersection Module

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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 23/01/2017 18:40:34

- »2016, AM
- »2016, PM
- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev, PM
- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-ACD	0.2	10.21	0.13	B	0.1	9.55	0.08	A
Stream AB-CD	1.0	5.53	0.30	A	0.6	4.92	0.18	A
Stream D-ABC	0.6	12.05	0.36	B	0.5	11.15	0.30	B
Stream CD-AB	0.6	5.03	0.20	A	0.2	4.42	0.08	A
<b>2024 Baseline</b>								
Stream B-ACD	0.2	13.77	0.17	B	0.1	10.93	0.10	B
Stream AB-CD	6.5	10.93	0.70	B	1.4	5.18	0.31	A
Stream D-ABC	1.3	24.69	0.55	C	0.8	16.73	0.41	C
Stream CD-AB	3.2	6.07	0.48	A	0.6	3.80	0.17	A
<b>2024 Baseline+Dev</b>								
Stream B-ACD	0.2	14.26	0.18	B	19.4	1403.43	999999999.00	F
Stream AB-CD	34.6	81.76	0.99	F	44.1	127.84	1.03	F
Stream D-ABC	10.5	108.94	0.97	F	2.4	33.49	0.70	D
Stream CD-AB	5.2	7.52	0.60	A	1.1	3.74	0.24	A
<b>2029 Baseline</b>								
Stream B-ACD	0.2	14.08	0.18	B	0.1	11.13	0.10	B
Stream AB-CD	8.2	13.35	0.75	B	1.6	5.33	0.33	A
Stream D-ABC	1.4	26.53	0.58	D	0.8	17.45	0.43	C

Stream CD-AB	3.7	6.49	0.52	A	0.7	3.79	0.19	A
<b>2029 Baseline+Dev</b>								
Stream B-ACD	7.7	370.78	1.18	F	20.5	1406.43	999999999.00	F
Stream AB-CD	36.8	87.01	0.99	F	51.0	146.01	1.05	F
Stream D-ABC	13.7	134.80	1.01	F	2.7	37.55	0.73	E
Stream CD-AB	6.0	8.31	0.64	A	1.3	3.77	0.26	A

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

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

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.65	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (E)		Major
B	Crane Gardens		Minor
C	North Hyde Road (W)		Major
D	Harold Avenue		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (E)	7.80			210.0	✓	0.00
C - North Hyde Road (W)	7.80			250.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.248	0.248	0.248	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.239	0.239	0.095	-	-
1	D-C	519	-	0.139	0.315	0.139	0.315	0.220	0.220	0.087	-	-

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

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

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

## Traffic Demand

## Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	691	100.000
B - Crane Gardens		ONE HOUR	✓	51	100.000
C - North Hyde Road (W)		ONE HOUR	✓	505	100.000
D - Harold Avenue		ONE HOUR	✓	165	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	29	583	79
	B - Crane Gardens	0	0	36	15
	C - North Hyde Road (W)	461	35	0	9
	D - Harold Avenue	131	25	9	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.13	10.21	0.2	B	47	70
A-B					27	40
A-C					535	802
A-D					72	109
AB-CD	0.30	5.53	1.0	A	219	329
AB-C					435	653
D-ABC	0.36	12.05	0.6	B	151	227
C-D					8	12

C-A					423	635
C-B					32	48
CD-AB	0.20	5.03	0.6	A	138	207
CD-A					460	690

## 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)	LOS
B-ACD	38	10	495	0.078	38	0.0	0.1	8.664	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-CD	145	36	911	0.159	143	0.0	0.4	5.153	A
AB-C	392	98			392				
D-ABC	124	31	559	0.222	123	0.0	0.3	9.054	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	90	23	885	0.102	89	0.0	0.2	4.975	A
CD-A	399	100			399				

### 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)	LOS
B-ACD	46	11	473	0.097	46	0.1	0.1	9.256	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-CD	202	51	960	0.211	201	0.4	0.6	5.232	A
AB-C	439	110			439				
D-ABC	148	37	539	0.275	148	0.3	0.4	10.117	B
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	127	32	926	0.137	126	0.2	0.4	4.957	A
CD-A	459	115			459				

### 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)	LOS
B-ACD	56	14	444	0.126	56	0.1	0.2	10.198	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-CD	309	77	1029	0.300	307	0.6	1.0	5.507	A
AB-C	476	119			476				
D-ABC	182	45	510	0.356	181	0.4	0.6	11.999	B
C-D	10	2			10				

C-A	508	127			508				
C-B	39	10			39				
CD-AB	195	49	986	0.198	194	0.4	0.6	5.013	A
CD-A	522	130			522				

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)	LOS
B-ACD	56	14	444	0.126	56	0.2	0.2	10.206	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-CD	310	77	1030	0.301	310	1.0	1.0	5.529	A
AB-C	475	119			475				
D-ABC	182	45	510	0.356	182	0.6	0.6	12.053	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	196	49	987	0.199	196	0.6	0.6	5.025	A
CD-A	522	130			522				

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)	LOS
B-ACD	46	11	473	0.097	46	0.2	0.1	9.267	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-CD	203	51	961	0.211	205	1.0	0.6	5.265	A
AB-C	438	109			438				
D-ABC	148	37	539	0.275	149	0.6	0.4	10.178	B
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	128	32	927	0.138	129	0.6	0.4	4.976	A
CD-A	459	115			459				

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)	LOS
B-ACD	38	10	495	0.078	38	0.1	0.1	8.683	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-CD	146	36	912	0.160	147	0.6	0.4	5.187	A
AB-C	391	98			391				
D-ABC	124	31	559	0.222	125	0.4	0.3	9.125	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	91	23	887	0.103	92	0.4	0.2	4.991	A
CD-A	400	100			400				

# 2016, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.02	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2016	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	676	100.000
B - Crane Gardens		ONE HOUR	✓	33	100.000
C - North Hyde Road (W)		ONE HOUR	✓	582	100.000
D - Harold Avenue		ONE HOUR	✓	138	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	51	574	51
	B - Crane Gardens	0	0	28	5
	C - North Hyde Road (W)	554	20	0	8
	D - Harold Avenue	132	3	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.08	9.55	0.1	A	30	45
A-B					47	70
A-C					527	790
A-D					47	70
AB-CD	0.18	4.92	0.6	A	130	195
AB-C					474	711
D-ABC	0.30	11.15	0.5	B	127	190
C-D					7	11
C-A					508	763
C-B					18	28
CD-AB	0.08	4.42	0.2	A	61	91
CD-A					590	885

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.0	0.1	8.339	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-CD	86	21	892	0.096	85	0.0	0.2	4.905	A
AB-C	410	102			410				
D-ABC	104	26	558	0.186	103	0.0	0.2	8.689	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	935	0.041	38	0.0	0.1	4.414	A
CD-A	494	124			494				

#### 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)	LOS
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B-ACD	30	7	479	0.062	30	0.1	0.1	8.811	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-CD	120	30	937	0.128	119	0.2	0.3	4.847	A
AB-C	472	118			472				
D-ABC	124	31	536	0.231	124	0.2	0.3	9.587	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	55	14	987	0.056	55	0.1	0.1	4.251	A
CD-A	582	145			582				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.549	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-CD	183	46	1002	0.183	182	0.3	0.6	4.839	A
AB-C	541	135			541				
D-ABC	152	38	507	0.300	151	0.3	0.5	11.102	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1061	0.083	88	0.1	0.2	4.068	A
CD-A	692	173			692				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.553	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-CD	184	46	1003	0.183	184	0.6	0.6	4.851	A
AB-C	541	135			541				
D-ABC	152	38	507	0.300	152	0.5	0.5	11.154	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1062	0.083	88	0.2	0.2	4.070	A
CD-A	692	173			692				

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)	LOS
B-ACD	30	7	479	0.062	30	0.1	0.1	8.818	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-CD	120	30	938	0.128	121	0.6	0.4	4.864	A
AB-C	471	118			471				

D-ABC	124	31	536	0.231	125	0.5	0.3	9.626	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	56	14	987	0.056	56	0.2	0.1	4.253	A
CD-A	582	146			582				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.1	0.1	8.348	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-CD	86	22	893	0.097	87	0.4	0.2	4.921	A
AB-C	409	102			409				
D-ABC	104	26	558	0.186	104	0.3	0.3	8.739	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	936	0.041	39	0.1	0.1	4.416	A
CD-A	495	124			495				

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	3.14	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1096	100.000

B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	179	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	979	86
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	893	38	0	10
	D - Harold Avenue	142	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.17	13.77	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					79	118
AB-CD	0.70	10.93	6.5	B	544	816
AB-C					484	726
D-ABC	0.55	24.69	1.3	C	164	246
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.48	6.07	3.2	A	370	555
CD-A					639	959

### 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)	LOS
B-ACD	41	10	429	0.096	41	0.0	0.1	10.186	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-CD	273	68	1065	0.257	270	0.0	0.9	4.987	A
AB-C	569	142			569				
D-ABC	135	34	471	0.286	133	0.0	0.4	11.664	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	180	45	1066	0.169	178	0.0	0.6	4.462	A
CD-A	646	162			646				

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)	LOS
B-ACD	49	12	395	0.125	49	0.1	0.2	11.445	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-CD	447	112	1156	0.387	444	0.9	1.7	5.603	A
AB-C	559	140			559				
D-ABC	161	40	429	0.375	160	0.4	0.6	14.676	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	301	75	1156	0.260	299	0.6	1.1	4.637	A
CD-A	687	172			687				

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)	LOS
B-ACD	61	15	348	0.174	60	0.2	0.2	13.739	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	95	24			95				
AB-CD	887	222	1290	0.687	870	1.7	5.9	9.690	A
AB-C	346	87			346				
D-ABC	197	49	359	0.549	195	0.6	1.3	23.763	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	616	154	1290	0.477	608	1.1	3.0	5.876	A
CD-A	593	148			593				

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)	LOS
B-ACD	61	15	348	0.174	61	0.2	0.2	13.765	B
A-B	34	9			34				
A-C	1078	269			1078				

A-D	95	24			95				
AB-CD	914	229	1301	0.703	912	5.9	6.5	10.932	B
AB-C	319	80			319				
D-ABC	197	49	357	0.552	197	1.3	1.3	24.689	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	629	157	1297	0.485	628	3.0	3.2	6.072	A
CD-A	582	146			582				

#### 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)	LOS
B-ACD	49	12	395	0.125	50	0.2	0.2	11.472	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-CD	464	116	1170	0.396	482	6.5	1.9	5.991	A
AB-C	544	136			544				
D-ABC	161	40	428	0.376	163	1.3	0.7	15.117	C
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	309	77	1164	0.266	317	3.2	1.2	4.756	A
CD-A	682	170			682				

#### 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)	LOS
B-ACD	41	10	429	0.096	42	0.2	0.1	10.224	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-CD	279	70	1069	0.261	282	1.9	1.0	5.087	A
AB-C	565	141			565				
D-ABC	135	34	471	0.286	136	0.7	0.4	11.858	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	184	46	1070	0.172	187	1.2	0.6	4.511	A
CD-A	645	161			645				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.17	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	888	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	149	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	54	779	55
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	935	22	0	9
	D - Harold Avenue	143	3	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	10.93	0.1	B	32	48

A-B					50	74
A-C					715	1072
A-D					50	76
AB-CD	0.31	5.18	1.4	A	220	330
AB-C					577	866
D-ABC	0.41	16.73	0.8	C	137	205
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.17	3.80	0.6	A	140	210
CD-A					872	1308

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.0	0.1	9.012	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-CD	126	31	950	0.132	124	0.0	0.4	4.798	A
AB-C	528	132			528				
D-ABC	112	28	487	0.230	111	0.0	0.3	10.481	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	69	17	1111	0.062	69	0.0	0.1	3.800	A
CD-A	760	190			760				

### 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)	LOS
B-ACD	31	8	438	0.072	31	0.1	0.1	9.734	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-CD	192	48	1014	0.190	191	0.4	0.7	4.826	A
AB-C	589	147			589				
D-ABC	134	33	452	0.296	133	0.3	0.5	12.413	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	115	29	1206	0.095	114	0.1	0.2	3.627	A
CD-A	876	219			876				

### 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)	LOS
B-ACD	39	10	401	0.096	38	0.1	0.1	10.921	B

A-B	59	15			59				
A-C	858	214			858				
A-D	61	15			61				
AB-CD	339	85	1110	0.306	337	0.7	1.4	5.149	A
AB-C	617	154			617				
D-ABC	164	41	401	0.409	163	0.5	0.7	16.572	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	233	58	1346	0.173	232	0.2	0.6	3.557	A
CD-A	980	245			980				

### 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)	LOS
B-ACD	39	10	401	0.096	39	0.1	0.1	10.927	B
A-B	59	15			59				
A-C	858	214			858				
A-D	61	15			61				
AB-CD	341	85	1112	0.307	341	1.4	1.4	5.185	A
AB-C	615	154			615				
D-ABC	164	41	401	0.410	164	0.7	0.8	16.727	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	235	59	1348	0.174	235	0.6	0.6	3.569	A
CD-A	979	245			979				

### 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)	LOS
B-ACD	31	8	438	0.072	32	0.1	0.1	9.741	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-CD	194	49	1016	0.191	197	1.4	0.7	4.870	A
AB-C	587	147			587				
D-ABC	134	33	452	0.296	135	0.8	0.5	12.544	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	116	29	1208	0.096	117	0.6	0.2	3.636	A
CD-A	877	219			877				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.1	0.1	9.029	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-CD	127	32	951	0.134	129	0.7	0.4	4.833	A
AB-C	527	132			527				
D-ABC	112	28	487	0.230	113	0.5	0.3	10.586	B



C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	70	18	1113	0.063	71	0.2	0.1	3.804	A
CD-A	761	190			761				

## 2024 Baseline+Dev , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	23.18	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1138	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	907	100.000
D - Harold Avenue		ONE HOUR	✓	330	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	974	133
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	858	38	0	11
	D - Harold Avenue	292	27	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.26	0.2	B	50	76
A-B					28	43
A-C					894	1341
A-D					122	183
AB-CD	0.99	81.76	34.6	F	794	1192
AB-C					272	408
D-ABC	0.97	108.94	10.5	F	303	454
C-D					10	15
C-A					787	1181
C-B					35	52
CD-AB	0.60	7.52	5.2	A	474	711
CD-A					640	960

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.371	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-CD	394	98	1066	0.370	388	0.0	1.4	5.850	A
AB-C	481	120			481				
D-ABC	248	62	487	0.510	244	0.0	1.1	16.002	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	210	52	1122	0.187	207	0.0	0.7	4.332	A
CD-A	701	175			701				

#### 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)	LOS
B-ACD	49	12	387	0.128	49	0.1	0.2	11.718	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				
AB-CD	642	160	1157	0.555	635	1.4	3.0	7.686	A
AB-C	403	101			403				
D-ABC	297	74	449	0.661	293	1.1	2.0	24.813	C
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	368	92	1227	0.300	365	0.7	1.4	4.619	A
CD-A	721	180			721				

#### 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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.229	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-CD	1267	317	1292	0.981	1180	3.0	24.7	38.499	E
AB-C	12	3			12				
D-ABC	363	91	385	0.944	342	2.0	7.4	69.823	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	793	198	1372	0.578	780	1.4	4.6	6.831	A
CD-A	524	131			524				

#### 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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.260	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-CD	1279	320	1299	0.985	1240	24.7	34.6	81.757	F
AB-C	0	0			0				
D-ABC	363	91	376	0.967	351	7.4	10.5	108.944	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	836	209	1385	0.603	833	4.6	5.2	7.516	A
CD-A	490	123			490				

#### 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)	LOS
B-ACD	49	12	387	0.128	50	0.2	0.2	11.751	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				

AB-CD	779	195	1239	0.629	900	34.6	4.4	17.762	C
AB-C	266	67			266				
D-ABC	297	74	444	0.669	329	10.5	2.4	41.720	E
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	421	105	1260	0.334	435	5.2	1.8	4.935	A
CD-A	702	176			702				

#### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.407	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-CD	406	101	1076	0.377	417	4.4	1.5	6.181	A
AB-C	469	117			469				
D-ABC	248	62	487	0.510	253	2.4	1.2	17.303	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	219	55	1131	0.193	223	1.8	0.7	4.396	A
CD-A	701	175			701				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	38.05	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1060	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	962	100.000
D - Harold Avenue		ONE HOUR	✓	248	100.000

## Origin-Destination Data

### Demand (PCU/hr)

	From	To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
	A - North Hyde Rd (E)	0	54	791	215
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	931	22	0	9
	D - Harold Avenue	241	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

	From	To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1403.43	19.4	F	32	48
A-B					50	74
A-C					726	1089
A-D					197	296
AB-CD	1.03	127.84	44.1	F	823	1234
AB-C					132	198
D-ABC	0.70	33.49	2.4	D	228	341
C-D					8	12
C-A					854	1281
C-B					20	30
CD-AB	0.24	3.74	1.1	A	192	289
CD-A					906	1360

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.0	0.1	9.626	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-CD	468	117	957	0.489	460	0.0	1.9	7.969	A
AB-C	316	79			316				
D-ABC	187	47	490	0.381	184	0.0	0.7	12.849	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	85	21	1143	0.074	84	0.0	0.1	3.743	A
CD-A	814	204			814				

### 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)	LOS
B-ACD	31	8	405	0.078	31	0.1	0.1	10.601	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-CD	721	180	1025	0.704	710	1.9	4.7	12.818	B
AB-C	214	54			214				
D-ABC	223	56	454	0.492	221	0.7	1.0	16.954	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	149	37	1249	0.119	148	0.1	0.3	3.596	A
CD-A	927	232			927				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	0.1	9.7	1403.431	F
A-B	59	15			59				
A-C	871	218			871				
A-D	237	59			237				
AB-CD	1108	277	1072	1.033	1010	4.7	29.2	61.430	F
AB-C	0	0			0				
D-ABC	273	68	398	0.686	268	1.0	2.2	29.584	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	337	84	1406	0.240	334	0.3	1.1	3.704	A
CD-A	977	244			977				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	9.7	19.4	-32756.334	?

A-B	59	15			59				
A-C	871	218			871				
A-D	237	59			237				
AB-CD	1108	277	1074	1.031	1048	29.2	44.1	127.837	F
AB-C	0	0			0				
D-ABC	273	68	389	0.702	272	2.2	2.4	33.486	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	344	86	1411	0.244	344	1.1	1.1	3.731	A
CD-A	974	243			974				

#### 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)	LOS
B-ACD	31	8	405	0.078	109	19.4	0.1	17.562	C
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-CD	1013	253	1147	0.883	1096	44.1	23.4	104.274	F
AB-C	0	0			0				
D-ABC	223	56	448	0.497	228	2.4	1.1	18.371	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	153	38	1256	0.122	156	1.1	0.3	3.612	A
CD-A	929	232			929				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.1	0.1	9.642	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-CD	520	130	1004	0.519	605	23.4	2.3	12.560	B
AB-C	263	66			263				
D-ABC	187	47	489	0.382	188	1.1	0.7	13.263	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	86	22	1146	0.075	87	0.3	0.2	3.742	A
CD-A	817	204			817				

## 2029 Baseline , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	3.71	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1114	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	183	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	994	88
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	905	39	0	10
	D - Harold Avenue	145	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.08	0.2	B	52	78
A-B					29	44
A-C					912	1368
A-D					81	121
AB-CD	0.75	13.35	8.2	B	583	875
AB-C					462	693
D-ABC	0.58	26.53	1.4	D	168	252
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.52	6.49	3.7	A	397	595
CD-A					628	942

## 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)	LOS
B-ACD	43	11	426	0.101	42	0.0	0.1	10.304	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				
AB-CD	288	72	1072	0.269	284	0.0	1.0	5.032	A
AB-C	569	142			569				
D-ABC	138	34	468	0.294	136	0.0	0.4	11.847	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	190	48	1072	0.177	188	0.0	0.6	4.482	A
CD-A	649	162			649				

### 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)	LOS
B-ACD	51	13	392	0.131	51	0.1	0.2	11.616	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-CD	475	119	1165	0.408	471	1.0	1.9	5.750	A
AB-C	549	137			549				
D-ABC	165	41	426	0.386	164	0.4	0.7	15.050	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	320	80	1164	0.275	318	0.6	1.2	4.701	A
CD-A	683	171			683				

### 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)	LOS
B-ACD	63	16	344	0.182	62	0.2	0.2	14.045	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-CD	954	239	1302	0.733	933	1.9	7.2	11.111	B
AB-C	299	75			299				
D-ABC	201	50	353	0.571	199	0.7	1.4	25.261	D
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	664	166	1301	0.510	655	1.2	3.5	6.219	A
CD-A	563	141			563				

#### 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)	LOS
B-ACD	63	16	344	0.182	63	0.2	0.2	14.075	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-CD	993	248	1317	0.754	989	7.2	8.2	13.349	B
AB-C	261	65			261				
D-ABC	201	50	350	0.576	201	1.4	1.4	26.528	D
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	681	170	1309	0.520	680	3.5	3.7	6.488	A
CD-A	549	137			549				

#### 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)	LOS
B-ACD	51	13	392	0.131	52	0.2	0.2	11.650	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-CD	497	124	1183	0.420	521	8.2	2.1	6.298	A
AB-C	528	132			528				
D-ABC	165	41	424	0.388	167	1.4	0.7	15.584	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	330	83	1174	0.282	340	3.7	1.3	4.843	A
CD-A	677	169			677				

#### 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)	LOS
B-ACD	43	11	426	0.101	43	0.2	0.1	10.338	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				

AB-CD	294	73	1077	0.273	298	2.1	1.0	5.146	A
AB-C	564	141			564				
D-ABC	138	34	468	0.294	139	0.7	0.5	12.060	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	195	49	1076	0.181	197	1.3	0.7	4.535	A
CD-A	647	162			647				

## 2029 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.25	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	909	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	154	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	795	57
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	950	22	0	9
	D - Harold Avenue	147	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	11.13	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					52	78
AB-CD	0.33	5.33	1.6	A	239	359
AB-C					576	865
D-ABC	0.43	17.45	0.8	C	141	212
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.19	3.79	0.7	A	152	229
CD-A					878	1317

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.0	0.1	9.109	A
A-B	43	11			43				
A-C	599	150			599				

A-D	43	11			43				
AB-CD	135	34	957	0.141	134	0.0	0.4	4.811	A
AB-C	534	133			534				
D-ABC	116	29	485	0.239	115	0.0	0.3	10.658	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	74	19	1119	0.066	74	0.0	0.1	3.789	A
CD-A	770	192			770				

### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.865	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-CD	208	52	1023	0.204	207	0.4	0.7	4.866	A
AB-C	591	148			591				
D-ABC	138	35	449	0.309	138	0.3	0.5	12.717	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	124	31	1216	0.102	123	0.1	0.2	3.624	A
CD-A	885	221			885				

### 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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.123	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-CD	371	93	1122	0.331	368	0.7	1.5	5.282	A
AB-C	607	152			607				
D-ABC	170	42	396	0.428	168	0.5	0.8	17.261	C
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	257	64	1359	0.189	255	0.2	0.7	3.590	A
CD-A	979	245			979				

### 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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.135	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-CD	374	93	1124	0.332	374	1.5	1.6	5.331	A
AB-C	605	151			605				
D-ABC	170	42	396	0.428	170	0.8	0.8	17.449	C
C-D	10	2			10				
C-A	1046	261			1046				

C-B	24	6			24				
CD-AB	259	65	1361	0.190	259	0.7	0.7	3.602	A
CD-A	977	244			977				

#### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.878	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-CD	210	53	1026	0.205	214	1.6	0.8	4.916	A
AB-C	589	147			589				
D-ABC	138	35	449	0.309	140	0.8	0.5	12.868	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	125	31	1219	0.103	127	0.7	0.2	3.638	A
CD-A	885	221			885				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.1	0.1	9.123	A
A-B	43	11			43				
A-C	599	150			599				
A-D	43	11			43				
AB-CD	137	34	959	0.143	138	0.8	0.4	4.846	A
AB-C	532	133			532				
D-ABC	116	29	485	0.239	117	0.5	0.4	10.772	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	75	19	1121	0.067	76	0.2	0.1	3.791	A
CD-A	771	193			771				

## 2029 Baseline+Dev , AM

### Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	30.73	D

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1156	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	920	100.000
D - Harold Avenue		ONE HOUR	✓	335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	989	135
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	870	39	0	11
	D - Harold Avenue	296	28	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	1.18	370.78	7.7	F	52	78
A-B					29	44
A-C					908	1361
A-D					124	186
AB-CD	0.99	87.01	36.8	F	834	1251
AB-C					250	375

D-ABC	1.01	134.80	13.7	F	307	461
C-D					10	15
C-A					798	1197
C-B					36	54
CD-AB	0.64	8.31	6.0	A	510	764
CD-A					621	931

## 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.489	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-CD	411	103	1073	0.383	405	0.0	1.5	5.937	A
AB-C	478	119			478				
D-ABC	252	63	485	0.520	248	0.0	1.1	16.395	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	222	55	1129	0.196	219	0.0	0.7	4.357	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	51	13	384	0.134	51	0.1	0.2	11.901	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-CD	675	169	1166	0.579	667	1.5	3.3	8.054	A
AB-C	387	97			387				
D-ABC	301	75	446	0.676	297	1.1	2.1	25.981	D
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	393	98	1236	0.318	390	0.7	1.5	4.709	A
CD-A	712	178			712				

### 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)	LOS
B-ACD	63	16	56	1.123	45	0.2	4.5	262.275	F
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-CD	1280	320	1296	0.988	1189	3.3	25.9	40.539	E
AB-C	3	0.80			3				



D-ABC	369	92	379	0.973	343	2.1	8.7	78.679	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	851	213	1381	0.616	835	1.5	5.4	7.444	A
CD-A	481	120			481				

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)	LOS
B-ACD	63	16	53	1.182	50	4.5	7.7	370.781	F
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-CD	1287	322	1298	0.992	1244	25.9	36.8	87.011	F
AB-C	0	0			0				
D-ABC	369	92	365	1.010	349	8.7	13.7	134.804	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	892	223	1394	0.640	889	5.4	6.0	8.314	A
CD-A	446	112			446				

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)	LOS
B-ACD	51	13	384	0.134	81	7.7	0.2	14.446	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-CD	921	230	1269	0.725	1039	36.8	7.3	30.273	D
AB-C	171	43			171				
D-ABC	301	75	438	0.688	345	13.7	2.7	55.164	F
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	468	117	1279	0.366	484	6.0	2.0	5.156	A
CD-A	682	171			682				

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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.526	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-CD	429	107	1089	0.394	452	7.2	1.6	6.501	A
AB-C	460	115			460				
D-ABC	252	63	484	0.521	258	2.7	1.2	17.951	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	232	58	1139	0.204	237	2.0	0.8	4.434	A
CD-A	702	175			702				

# 2029 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	42.61	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1080	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	979	100.000
D - Harold Avenue		ONE HOUR	✓	252	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	807	216
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	947	22	0	10
	D - Harold Avenue	245	4	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1406.43	20.5	F	34	51
A-B					52	78
A-C					741	1111
A-D					198	297
AB-CD	1.05	146.01	51.0	F	847	1270
AB-C					126	189
D-ABC	0.73	37.55	2.7	E	231	347
C-D					9	14
C-A					869	1303
C-B					20	30
CD-AB	0.26	3.77	1.3	A	204	305
CD-A					914	1370

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.0	0.1	9.730	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-CD	484	121	964	0.502	476	0.0	2.0	8.106	A
AB-C	314	79			314				
D-ABC	190	47	487	0.390	187	0.0	0.7	13.099	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	88	22	1151	0.076	87	0.0	0.2	3.722	A
CD-A	827	207			827				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----

B-ACD	33	8	401	0.083	33	0.1	0.1	10.754	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-CD	752	188	1034	0.727	739	2.0	5.2	13.683	B
AB-C	201	50			201				
D-ABC	227	57	450	0.504	225	0.7	1.1	17.487	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	155	39	1261	0.123	155	0.2	0.3	3.581	A
CD-A	938	235			938				

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)	LOS
B-ACD	41	10	0	999999999.000	0	0.1	10.3	1406.429	F
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-CD	1126	282	1071	1.051	1016	5.2	32.7	68.645	F
AB-C	0	0			0				
D-ABC	277	69	392	0.708	272	1.1	2.4	31.758	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	361	90	1421	0.254	357	0.3	1.2	3.733	A
CD-A	975	244			975				

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)	LOS
B-ACD	41	10	0	999999999.000	0	10.3	20.5	-30198.666	?
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-CD	1126	282	1073	1.050	1053	32.7	51.0	146.015	F
AB-C	0	0			0				
D-ABC	277	69	379	0.732	276	2.4	2.7	37.548	E
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	369	92	1426	0.259	368	1.2	1.3	3.769	A
CD-A	971	243			971				

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)	LOS
B-ACD	33	8	401	0.083	115	20.5	0.1	18.667	C
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-CD	1034	259	1144	0.904	1112	51.0	31.7	133.164	F
AB-C	0	0			0				

D-ABC	227	57	443	0.511	233	2.7	1.2	19.311	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	160	40	1269	0.126	164	1.3	0.3	3.599	A
CD-A	941	235			941				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.1	0.1	9.750	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-CD	559	140	1027	0.544	676	31.7	2.5	16.272	C
AB-C	239	60			239				
D-ABC	190	47	485	0.391	192	1.2	0.7	13.570	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	89	22	1155	0.077	90	0.3	0.2	3.724	A
CD-A	830	207			830				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 23/01/2017 18:40:34

- »2016, AM
- »2016, PM
- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev, PM
- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-ACD	0.2	10.21	0.13	B	0.1	9.55	0.08	A
Stream AB-CD	1.0	5.53	0.30	A	0.6	4.92	0.18	A
Stream D-ABC	0.6	12.05	0.36	B	0.5	11.15	0.30	B
Stream CD-AB	0.6	5.03	0.20	A	0.2	4.42	0.08	A
<b>2024 Baseline</b>								
Stream B-ACD	0.2	13.77	0.17	B	0.1	10.93	0.10	B
Stream AB-CD	6.5	10.93	0.70	B	1.4	5.18	0.31	A
Stream D-ABC	1.3	24.69	0.55	C	0.8	16.73	0.41	C
Stream CD-AB	3.2	6.07	0.48	A	0.6	3.80	0.17	A
<b>2024 Baseline+Dev</b>								
Stream B-ACD	0.2	14.26	0.18	B	19.4	1403.43	999999999.00	F
Stream AB-CD	34.6	81.76	0.99	F	44.1	127.84	1.03	F
Stream D-ABC	10.5	108.94	0.97	F	2.4	33.49	0.70	D
Stream CD-AB	5.2	7.52	0.60	A	1.1	3.74	0.24	A
<b>2029 Baseline</b>								
Stream B-ACD	0.2	14.08	0.18	B	0.1	11.13	0.10	B
Stream AB-CD	8.2	13.35	0.75	B	1.6	5.33	0.33	A
Stream D-ABC	1.4	26.53	0.58	D	0.8	17.45	0.43	C

Stream CD-AB	3.7	6.49	0.52	A	0.7	3.79	0.19	A
<b>2029 Baseline+Dev</b>								
Stream B-ACD	7.7	370.78	1.18	F	20.5	1406.43	999999999.00	F
Stream AB-CD	36.8	87.01	0.99	F	51.0	146.01	1.05	F
Stream D-ABC	13.7	134.80	1.01	F	2.7	37.55	0.73	E
Stream CD-AB	6.0	8.31	0.64	A	1.3	3.77	0.26	A

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

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

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.65	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (E)		Major
B	Crane Gardens		Minor
C	North Hyde Road (W)		Major
D	Harold Avenue		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (E)	7.80			210.0	✓	0.00
C - North Hyde Road (W)	7.80			250.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.248	0.248	0.248	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.239	0.239	0.095	-	-
1	D-C	519	-	0.139	0.315	0.139	0.315	0.220	0.220	0.087	-	-

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

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

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

## Traffic Demand



## Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	691	100.000
B - Crane Gardens		ONE HOUR	✓	51	100.000
C - North Hyde Road (W)		ONE HOUR	✓	505	100.000
D - Harold Avenue		ONE HOUR	✓	165	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	29	583	79
	B - Crane Gardens	0	0	36	15
	C - North Hyde Road (W)	461	35	0	9
	D - Harold Avenue	131	25	9	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.13	10.21	0.2	B	47	70
A-B					27	40
A-C					535	802
A-D					72	109
AB-CD	0.30	5.53	1.0	A	219	329
AB-C					435	653
D-ABC	0.36	12.05	0.6	B	151	227
C-D					8	12

C-A					423	635
C-B					32	48
CD-AB	0.20	5.03	0.6	A	138	207
CD-A					460	690

## 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)	LOS
B-ACD	38	10	495	0.078	38	0.0	0.1	8.664	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-CD	145	36	911	0.159	143	0.0	0.4	5.153	A
AB-C	392	98			392				
D-ABC	124	31	559	0.222	123	0.0	0.3	9.054	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	90	23	885	0.102	89	0.0	0.2	4.975	A
CD-A	399	100			399				

### 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)	LOS
B-ACD	46	11	473	0.097	46	0.1	0.1	9.256	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-CD	202	51	960	0.211	201	0.4	0.6	5.232	A
AB-C	439	110			439				
D-ABC	148	37	539	0.275	148	0.3	0.4	10.117	B
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	127	32	926	0.137	126	0.2	0.4	4.957	A
CD-A	459	115			459				

### 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)	LOS
B-ACD	56	14	444	0.126	56	0.1	0.2	10.198	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-CD	309	77	1029	0.300	307	0.6	1.0	5.507	A
AB-C	476	119			476				
D-ABC	182	45	510	0.356	181	0.4	0.6	11.999	B
C-D	10	2			10				

C-A	508	127			508				
C-B	39	10			39				
CD-AB	195	49	986	0.198	194	0.4	0.6	5.013	A
CD-A	522	130			522				

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)	LOS
B-ACD	56	14	444	0.126	56	0.2	0.2	10.206	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-CD	310	77	1030	0.301	310	1.0	1.0	5.529	A
AB-C	475	119			475				
D-ABC	182	45	510	0.356	182	0.6	0.6	12.053	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	196	49	987	0.199	196	0.6	0.6	5.025	A
CD-A	522	130			522				

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)	LOS
B-ACD	46	11	473	0.097	46	0.2	0.1	9.267	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-CD	203	51	961	0.211	205	1.0	0.6	5.265	A
AB-C	438	109			438				
D-ABC	148	37	539	0.275	149	0.6	0.4	10.178	B
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	128	32	927	0.138	129	0.6	0.4	4.976	A
CD-A	459	115			459				

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)	LOS
B-ACD	38	10	495	0.078	38	0.1	0.1	8.683	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-CD	146	36	912	0.160	147	0.6	0.4	5.187	A
AB-C	391	98			391				
D-ABC	124	31	559	0.222	125	0.4	0.3	9.125	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	91	23	887	0.103	92	0.4	0.2	4.991	A
CD-A	400	100			400				

# 2016, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.02	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2016	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	676	100.000
B - Crane Gardens		ONE HOUR	✓	33	100.000
C - North Hyde Road (W)		ONE HOUR	✓	582	100.000
D - Harold Avenue		ONE HOUR	✓	138	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	51	574	51
	B - Crane Gardens	0	0	28	5
	C - North Hyde Road (W)	554	20	0	8
	D - Harold Avenue	132	3	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.08	9.55	0.1	A	30	45
A-B					47	70
A-C					527	790
A-D					47	70
AB-CD	0.18	4.92	0.6	A	130	195
AB-C					474	711
D-ABC	0.30	11.15	0.5	B	127	190
C-D					7	11
C-A					508	763
C-B					18	28
CD-AB	0.08	4.42	0.2	A	61	91
CD-A					590	885

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.0	0.1	8.339	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-CD	86	21	892	0.096	85	0.0	0.2	4.905	A
AB-C	410	102			410				
D-ABC	104	26	558	0.186	103	0.0	0.2	8.689	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	935	0.041	38	0.0	0.1	4.414	A
CD-A	494	124			494				

#### 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)	LOS
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B-ACD	30	7	479	0.062	30	0.1	0.1	8.811	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-CD	120	30	937	0.128	119	0.2	0.3	4.847	A
AB-C	472	118			472				
D-ABC	124	31	536	0.231	124	0.2	0.3	9.587	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	55	14	987	0.056	55	0.1	0.1	4.251	A
CD-A	582	145			582				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.549	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-CD	183	46	1002	0.183	182	0.3	0.6	4.839	A
AB-C	541	135			541				
D-ABC	152	38	507	0.300	151	0.3	0.5	11.102	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1061	0.083	88	0.1	0.2	4.068	A
CD-A	692	173			692				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.553	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-CD	184	46	1003	0.183	184	0.6	0.6	4.851	A
AB-C	541	135			541				
D-ABC	152	38	507	0.300	152	0.5	0.5	11.154	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1062	0.083	88	0.2	0.2	4.070	A
CD-A	692	173			692				

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)	LOS
B-ACD	30	7	479	0.062	30	0.1	0.1	8.818	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-CD	120	30	938	0.128	121	0.6	0.4	4.864	A
AB-C	471	118			471				

D-ABC	124	31	536	0.231	125	0.5	0.3	9.626	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	56	14	987	0.056	56	0.2	0.1	4.253	A
CD-A	582	146			582				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.1	0.1	8.348	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-CD	86	22	893	0.097	87	0.4	0.2	4.921	A
AB-C	409	102			409				
D-ABC	104	26	558	0.186	104	0.3	0.3	8.739	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	936	0.041	39	0.1	0.1	4.416	A
CD-A	495	124			495				

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	3.14	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1096	100.000

B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	179	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	979	86
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	893	38	0	10
	D - Harold Avenue	142	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.17	13.77	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					79	118
AB-CD	0.70	10.93	6.5	B	544	816
AB-C					484	726
D-ABC	0.55	24.69	1.3	C	164	246
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.48	6.07	3.2	A	370	555
CD-A					639	959

### 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)	LOS
B-ACD	41	10	429	0.096	41	0.0	0.1	10.186	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-CD	273	68	1065	0.257	270	0.0	0.9	4.987	A
AB-C	569	142			569				
D-ABC	135	34	471	0.286	133	0.0	0.4	11.664	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	180	45	1066	0.169	178	0.0	0.6	4.462	A
CD-A	646	162			646				

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)	LOS
B-ACD	49	12	395	0.125	49	0.1	0.2	11.445	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-CD	447	112	1156	0.387	444	0.9	1.7	5.603	A
AB-C	559	140			559				
D-ABC	161	40	429	0.375	160	0.4	0.6	14.676	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	301	75	1156	0.260	299	0.6	1.1	4.637	A
CD-A	687	172			687				

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)	LOS
B-ACD	61	15	348	0.174	60	0.2	0.2	13.739	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	95	24			95				
AB-CD	887	222	1290	0.687	870	1.7	5.9	9.690	A
AB-C	346	87			346				
D-ABC	197	49	359	0.549	195	0.6	1.3	23.763	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	616	154	1290	0.477	608	1.1	3.0	5.876	A
CD-A	593	148			593				

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)	LOS
B-ACD	61	15	348	0.174	61	0.2	0.2	13.765	B
A-B	34	9			34				
A-C	1078	269			1078				

A-D	95	24			95				
AB-CD	914	229	1301	0.703	912	5.9	6.5	10.932	B
AB-C	319	80			319				
D-ABC	197	49	357	0.552	197	1.3	1.3	24.689	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	629	157	1297	0.485	628	3.0	3.2	6.072	A
CD-A	582	146			582				

#### 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)	LOS
B-ACD	49	12	395	0.125	50	0.2	0.2	11.472	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-CD	464	116	1170	0.396	482	6.5	1.9	5.991	A
AB-C	544	136			544				
D-ABC	161	40	428	0.376	163	1.3	0.7	15.117	C
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	309	77	1164	0.266	317	3.2	1.2	4.756	A
CD-A	682	170			682				

#### 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)	LOS
B-ACD	41	10	429	0.096	42	0.2	0.1	10.224	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-CD	279	70	1069	0.261	282	1.9	1.0	5.087	A
AB-C	565	141			565				
D-ABC	135	34	471	0.286	136	0.7	0.4	11.858	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	184	46	1070	0.172	187	1.2	0.6	4.511	A
CD-A	645	161			645				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.17	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	888	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	149	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	54	779	55
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	935	22	0	9
	D - Harold Avenue	143	3	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	10.93	0.1	B	32	48

A-B					50	74
A-C					715	1072
A-D					50	76
AB-CD	0.31	5.18	1.4	A	220	330
AB-C					577	866
D-ABC	0.41	16.73	0.8	C	137	205
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.17	3.80	0.6	A	140	210
CD-A					872	1308

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.0	0.1	9.012	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-CD	126	31	950	0.132	124	0.0	0.4	4.798	A
AB-C	528	132			528				
D-ABC	112	28	487	0.230	111	0.0	0.3	10.481	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	69	17	1111	0.062	69	0.0	0.1	3.800	A
CD-A	760	190			760				

### 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)	LOS
B-ACD	31	8	438	0.072	31	0.1	0.1	9.734	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-CD	192	48	1014	0.190	191	0.4	0.7	4.826	A
AB-C	589	147			589				
D-ABC	134	33	452	0.296	133	0.3	0.5	12.413	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	115	29	1206	0.095	114	0.1	0.2	3.627	A
CD-A	876	219			876				

### 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)	LOS
B-ACD	39	10	401	0.096	38	0.1	0.1	10.921	B

A-B	59	15			59				
A-C	858	214			858				
A-D	61	15			61				
AB-CD	339	85	1110	0.306	337	0.7	1.4	5.149	A
AB-C	617	154			617				
D-ABC	164	41	401	0.409	163	0.5	0.7	16.572	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	233	58	1346	0.173	232	0.2	0.6	3.557	A
CD-A	980	245			980				

### 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)	LOS
B-ACD	39	10	401	0.096	39	0.1	0.1	10.927	B
A-B	59	15			59				
A-C	858	214			858				
A-D	61	15			61				
AB-CD	341	85	1112	0.307	341	1.4	1.4	5.185	A
AB-C	615	154			615				
D-ABC	164	41	401	0.410	164	0.7	0.8	16.727	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	235	59	1348	0.174	235	0.6	0.6	3.569	A
CD-A	979	245			979				

### 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)	LOS
B-ACD	31	8	438	0.072	32	0.1	0.1	9.741	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-CD	194	49	1016	0.191	197	1.4	0.7	4.870	A
AB-C	587	147			587				
D-ABC	134	33	452	0.296	135	0.8	0.5	12.544	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	116	29	1208	0.096	117	0.6	0.2	3.636	A
CD-A	877	219			877				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.1	0.1	9.029	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-CD	127	32	951	0.134	129	0.7	0.4	4.833	A
AB-C	527	132			527				
D-ABC	112	28	487	0.230	113	0.5	0.3	10.586	B

C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	70	18	1113	0.063	71	0.2	0.1	3.804	A
CD-A	761	190			761				

## 2024 Baseline+Dev , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	23.18	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1138	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	907	100.000
D - Harold Avenue		ONE HOUR	✓	330	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	974	133
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	858	38	0	11
	D - Harold Avenue	292	27	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.26	0.2	B	50	76
A-B					28	43
A-C					894	1341
A-D					122	183
AB-CD	0.99	81.76	34.6	F	794	1192
AB-C					272	408
D-ABC	0.97	108.94	10.5	F	303	454
C-D					10	15
C-A					787	1181
C-B					35	52
CD-AB	0.60	7.52	5.2	A	474	711
CD-A					640	960

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.371	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-CD	394	98	1066	0.370	388	0.0	1.4	5.850	A
AB-C	481	120			481				
D-ABC	248	62	487	0.510	244	0.0	1.1	16.002	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	210	52	1122	0.187	207	0.0	0.7	4.332	A
CD-A	701	175			701				

#### 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)	LOS
B-ACD	49	12	387	0.128	49	0.1	0.2	11.718	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				
AB-CD	642	160	1157	0.555	635	1.4	3.0	7.686	A
AB-C	403	101			403				
D-ABC	297	74	449	0.661	293	1.1	2.0	24.813	C
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	368	92	1227	0.300	365	0.7	1.4	4.619	A
CD-A	721	180			721				

#### 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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.229	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-CD	1267	317	1292	0.981	1180	3.0	24.7	38.499	E
AB-C	12	3			12				
D-ABC	363	91	385	0.944	342	2.0	7.4	69.823	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	793	198	1372	0.578	780	1.4	4.6	6.831	A
CD-A	524	131			524				

#### 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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.260	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-CD	1279	320	1299	0.985	1240	24.7	34.6	81.757	F
AB-C	0	0			0				
D-ABC	363	91	376	0.967	351	7.4	10.5	108.944	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	836	209	1385	0.603	833	4.6	5.2	7.516	A
CD-A	490	123			490				

#### 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)	LOS
B-ACD	49	12	387	0.128	50	0.2	0.2	11.751	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				



AB-CD	779	195	1239	0.629	900	34.6	4.4	17.762	C
AB-C	266	67			266				
D-ABC	297	74	444	0.669	329	10.5	2.4	41.720	E
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	421	105	1260	0.334	435	5.2	1.8	4.935	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.407	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-CD	406	101	1076	0.377	417	4.4	1.5	6.181	A
AB-C	469	117			469				
D-ABC	248	62	487	0.510	253	2.4	1.2	17.303	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	219	55	1131	0.193	223	1.8	0.7	4.396	A
CD-A	701	175			701				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	38.05	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1060	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	962	100.000
D - Harold Avenue		ONE HOUR	✓	248	100.000

## Origin-Destination Data

### Demand (PCU/hr)

	From	To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
	A - North Hyde Rd (E)	0	54	791	215
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	931	22	0	9
	D - Harold Avenue	241	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

	From	To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1403.43	19.4	F	32	48
A-B					50	74
A-C					726	1089
A-D					197	296
AB-CD	1.03	127.84	44.1	F	823	1234
AB-C					132	198
D-ABC	0.70	33.49	2.4	D	228	341
C-D					8	12
C-A					854	1281
C-B					20	30
CD-AB	0.24	3.74	1.1	A	192	289
CD-A					906	1360

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.0	0.1	9.626	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-CD	468	117	957	0.489	460	0.0	1.9	7.969	A
AB-C	316	79			316				
D-ABC	187	47	490	0.381	184	0.0	0.7	12.849	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	85	21	1143	0.074	84	0.0	0.1	3.743	A
CD-A	814	204			814				

### 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)	LOS
B-ACD	31	8	405	0.078	31	0.1	0.1	10.601	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-CD	721	180	1025	0.704	710	1.9	4.7	12.818	B
AB-C	214	54			214				
D-ABC	223	56	454	0.492	221	0.7	1.0	16.954	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	149	37	1249	0.119	148	0.1	0.3	3.596	A
CD-A	927	232			927				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	0.1	9.7	1403.431	F
A-B	59	15			59				
A-C	871	218			871				
A-D	237	59			237				
AB-CD	1108	277	1072	1.033	1010	4.7	29.2	61.430	F
AB-C	0	0			0				
D-ABC	273	68	398	0.686	268	1.0	2.2	29.584	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	337	84	1406	0.240	334	0.3	1.1	3.704	A
CD-A	977	244			977				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	9.7	19.4	-32756.334	?

A-B	59	15			59				
A-C	871	218			871				
A-D	237	59			237				
AB-CD	1108	277	1074	1.031	1048	29.2	44.1	127.837	F
AB-C	0	0			0				
D-ABC	273	68	389	0.702	272	2.2	2.4	33.486	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	344	86	1411	0.244	344	1.1	1.1	3.731	A
CD-A	974	243			974				

#### 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)	LOS
B-ACD	31	8	405	0.078	109	19.4	0.1	17.562	C
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-CD	1013	253	1147	0.883	1096	44.1	23.4	104.274	F
AB-C	0	0			0				
D-ABC	223	56	448	0.497	228	2.4	1.1	18.371	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	153	38	1256	0.122	156	1.1	0.3	3.612	A
CD-A	929	232			929				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.1	0.1	9.642	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-CD	520	130	1004	0.519	605	23.4	2.3	12.560	B
AB-C	263	66			263				
D-ABC	187	47	489	0.382	188	1.1	0.7	13.263	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	86	22	1146	0.075	87	0.3	0.2	3.742	A
CD-A	817	204			817				

## 2029 Baseline , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	3.71	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1114	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	183	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	994	88
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	905	39	0	10
	D - Harold Avenue	145	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.08	0.2	B	52	78
A-B					29	44
A-C					912	1368
A-D					81	121
AB-CD	0.75	13.35	8.2	B	583	875
AB-C					462	693
D-ABC	0.58	26.53	1.4	D	168	252
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.52	6.49	3.7	A	397	595
CD-A					628	942

## 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)	LOS
B-ACD	43	11	426	0.101	42	0.0	0.1	10.304	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				
AB-CD	288	72	1072	0.269	284	0.0	1.0	5.032	A
AB-C	569	142			569				
D-ABC	138	34	468	0.294	136	0.0	0.4	11.847	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	190	48	1072	0.177	188	0.0	0.6	4.482	A
CD-A	649	162			649				

### 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)	LOS
B-ACD	51	13	392	0.131	51	0.1	0.2	11.616	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-CD	475	119	1165	0.408	471	1.0	1.9	5.750	A
AB-C	549	137			549				
D-ABC	165	41	426	0.386	164	0.4	0.7	15.050	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	320	80	1164	0.275	318	0.6	1.2	4.701	A
CD-A	683	171			683				

### 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)	LOS
B-ACD	63	16	344	0.182	62	0.2	0.2	14.045	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-CD	954	239	1302	0.733	933	1.9	7.2	11.111	B
AB-C	299	75			299				
D-ABC	201	50	353	0.571	199	0.7	1.4	25.261	D
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	664	166	1301	0.510	655	1.2	3.5	6.219	A
CD-A	563	141			563				

### 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)	LOS
B-ACD	63	16	344	0.182	63	0.2	0.2	14.075	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-CD	993	248	1317	0.754	989	7.2	8.2	13.349	B
AB-C	261	65			261				
D-ABC	201	50	350	0.576	201	1.4	1.4	26.528	D
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	681	170	1309	0.520	680	3.5	3.7	6.488	A
CD-A	549	137			549				

### 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)	LOS
B-ACD	51	13	392	0.131	52	0.2	0.2	11.650	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-CD	497	124	1183	0.420	521	8.2	2.1	6.298	A
AB-C	528	132			528				
D-ABC	165	41	424	0.388	167	1.4	0.7	15.584	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	330	83	1174	0.282	340	3.7	1.3	4.843	A
CD-A	677	169			677				

### 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)	LOS
B-ACD	43	11	426	0.101	43	0.2	0.1	10.338	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				

AB-CD	294	73	1077	0.273	298	2.1	1.0	5.146	A
AB-C	564	141			564				
D-ABC	138	34	468	0.294	139	0.7	0.5	12.060	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	195	49	1076	0.181	197	1.3	0.7	4.535	A
CD-A	647	162			647				

## 2029 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.25	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	909	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	154	100.000

## Origin-Destination Data



## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	795	57
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	950	22	0	9
	D - Harold Avenue	147	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	11.13	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					52	78
AB-CD	0.33	5.33	1.6	A	239	359
AB-C					576	865
D-ABC	0.43	17.45	0.8	C	141	212
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.19	3.79	0.7	A	152	229
CD-A					878	1317

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.0	0.1	9.109	A
A-B	43	11			43				
A-C	599	150			599				

A-D	43	11			43				
AB-CD	135	34	957	0.141	134	0.0	0.4	4.811	A
AB-C	534	133			534				
D-ABC	116	29	485	0.239	115	0.0	0.3	10.658	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	74	19	1119	0.066	74	0.0	0.1	3.789	A
CD-A	770	192			770				

### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.865	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-CD	208	52	1023	0.204	207	0.4	0.7	4.866	A
AB-C	591	148			591				
D-ABC	138	35	449	0.309	138	0.3	0.5	12.717	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	124	31	1216	0.102	123	0.1	0.2	3.624	A
CD-A	885	221			885				

### 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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.123	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-CD	371	93	1122	0.331	368	0.7	1.5	5.282	A
AB-C	607	152			607				
D-ABC	170	42	396	0.428	168	0.5	0.8	17.261	C
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	257	64	1359	0.189	255	0.2	0.7	3.590	A
CD-A	979	245			979				

### 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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.135	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-CD	374	93	1124	0.332	374	1.5	1.6	5.331	A
AB-C	605	151			605				
D-ABC	170	42	396	0.428	170	0.8	0.8	17.449	C
C-D	10	2			10				
C-A	1046	261			1046				

C-B	24	6			24				
CD-AB	259	65	1361	0.190	259	0.7	0.7	3.602	A
CD-A	977	244			977				

#### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.878	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-CD	210	53	1026	0.205	214	1.6	0.8	4.916	A
AB-C	589	147			589				
D-ABC	138	35	449	0.309	140	0.8	0.5	12.868	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	125	31	1219	0.103	127	0.7	0.2	3.638	A
CD-A	885	221			885				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.1	0.1	9.123	A
A-B	43	11			43				
A-C	599	150			599				
A-D	43	11			43				
AB-CD	137	34	959	0.143	138	0.8	0.4	4.846	A
AB-C	532	133			532				
D-ABC	116	29	485	0.239	117	0.5	0.4	10.772	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	75	19	1121	0.067	76	0.2	0.1	3.791	A
CD-A	771	193			771				

## 2029 Baseline+Dev , AM

### Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	30.73	D

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1156	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	920	100.000
D - Harold Avenue		ONE HOUR	✓	335	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	989	135
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	870	39	0	11
	D - Harold Avenue	296	28	11	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

# 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-ACD	1.18	370.78	7.7	F	52	78
A-B					29	44
A-C					908	1361
A-D					124	186
AB-CD	0.99	87.01	36.8	F	834	1251
AB-C					250	375

D-ABC	1.01	134.80	13.7	F	307	461
C-D					10	15
C-A					798	1197
C-B					36	54
CD-AB	0.64	8.31	6.0	A	510	764
CD-A					621	931

## 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.489	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-CD	411	103	1073	0.383	405	0.0	1.5	5.937	A
AB-C	478	119			478				
D-ABC	252	63	485	0.520	248	0.0	1.1	16.395	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	222	55	1129	0.196	219	0.0	0.7	4.357	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	51	13	384	0.134	51	0.1	0.2	11.901	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-CD	675	169	1166	0.579	667	1.5	3.3	8.054	A
AB-C	387	97			387				
D-ABC	301	75	446	0.676	297	1.1	2.1	25.981	D
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	393	98	1236	0.318	390	0.7	1.5	4.709	A
CD-A	712	178			712				

### 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)	LOS
B-ACD	63	16	56	1.123	45	0.2	4.5	262.275	F
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-CD	1280	320	1296	0.988	1189	3.3	25.9	40.539	E
AB-C	3	0.80			3				

D-ABC	369	92	379	0.973	343	2.1	8.7	78.679	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	851	213	1381	0.616	835	1.5	5.4	7.444	A
CD-A	481	120			481				

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)	LOS
B-ACD	63	16	53	1.182	50	4.5	7.7	370.781	F
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-CD	1287	322	1298	0.992	1244	25.9	36.8	87.011	F
AB-C	0	0			0				
D-ABC	369	92	365	1.010	349	8.7	13.7	134.804	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	892	223	1394	0.640	889	5.4	6.0	8.314	A
CD-A	446	112			446				

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)	LOS
B-ACD	51	13	384	0.134	81	7.7	0.2	14.446	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-CD	921	230	1269	0.725	1039	36.8	7.3	30.273	D
AB-C	171	43			171				
D-ABC	301	75	438	0.688	345	13.7	2.7	55.164	F
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	468	117	1279	0.366	484	6.0	2.0	5.156	A
CD-A	682	171			682				

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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.526	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-CD	429	107	1089	0.394	452	7.2	1.6	6.501	A
AB-C	460	115			460				
D-ABC	252	63	484	0.521	258	2.7	1.2	17.951	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	232	58	1139	0.204	237	2.0	0.8	4.434	A
CD-A	702	175			702				

# 2029 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	42.61	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1080	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	979	100.000
D - Harold Avenue		ONE HOUR	✓	252	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	807	216
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	947	22	0	10
	D - Harold Avenue	245	4	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1406.43	20.5	F	34	51
A-B					52	78
A-C					741	1111
A-D					198	297
AB-CD	1.05	146.01	51.0	F	847	1270
AB-C					126	189
D-ABC	0.73	37.55	2.7	E	231	347
C-D					9	14
C-A					869	1303
C-B					20	30
CD-AB	0.26	3.77	1.3	A	204	305
CD-A					914	1370

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.0	0.1	9.730	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-CD	484	121	964	0.502	476	0.0	2.0	8.106	A
AB-C	314	79			314				
D-ABC	190	47	487	0.390	187	0.0	0.7	13.099	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	88	22	1151	0.076	87	0.0	0.2	3.722	A
CD-A	827	207			827				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----



B-ACD	33	8	401	0.083	33	0.1	0.1	10.754	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-CD	752	188	1034	0.727	739	2.0	5.2	13.683	B
AB-C	201	50			201				
D-ABC	227	57	450	0.504	225	0.7	1.1	17.487	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	155	39	1261	0.123	155	0.2	0.3	3.581	A
CD-A	938	235			938				

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)	LOS
B-ACD	41	10	0	999999999.000	0	0.1	10.3	1406.429	F
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-CD	1126	282	1071	1.051	1016	5.2	32.7	68.645	F
AB-C	0	0			0				
D-ABC	277	69	392	0.708	272	1.1	2.4	31.758	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	361	90	1421	0.254	357	0.3	1.2	3.733	A
CD-A	975	244			975				

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)	LOS
B-ACD	41	10	0	999999999.000	0	10.3	20.5	-30198.666	?
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-CD	1126	282	1073	1.050	1053	32.7	51.0	146.015	F
AB-C	0	0			0				
D-ABC	277	69	379	0.732	276	2.4	2.7	37.548	E
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	369	92	1426	0.259	368	1.2	1.3	3.769	A
CD-A	971	243			971				

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)	LOS
B-ACD	33	8	401	0.083	115	20.5	0.1	18.667	C
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-CD	1034	259	1144	0.904	1112	51.0	31.7	133.164	F
AB-C	0	0			0				

D-ABC	227	57	443	0.511	233	2.7	1.2	19.311	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	160	40	1269	0.126	164	1.3	0.3	3.599	A
CD-A	941	235			941				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.1	0.1	9.750	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-CD	559	140	1027	0.544	676	31.7	2.5	16.272	C
AB-C	239	60			239				
D-ABC	190	47	485	0.391	192	1.2	0.7	13.570	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	89	22	1155	0.077	90	0.3	0.2	3.724	A
CD-A	830	207			830				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 23/01/2017 18:40:34

- »2016, AM
- »2016, PM
- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev, PM
- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-ACD	0.2	10.21	0.13	B	0.1	9.55	0.08	A
Stream AB-CD	1.0	5.53	0.30	A	0.6	4.92	0.18	A
Stream D-ABC	0.6	12.05	0.36	B	0.5	11.15	0.30	B
Stream CD-AB	0.6	5.03	0.20	A	0.2	4.42	0.08	A
<b>2024 Baseline</b>								
Stream B-ACD	0.2	13.77	0.17	B	0.1	10.93	0.10	B
Stream AB-CD	6.5	10.93	0.70	B	1.4	5.18	0.31	A
Stream D-ABC	1.3	24.69	0.55	C	0.8	16.73	0.41	C
Stream CD-AB	3.2	6.07	0.48	A	0.6	3.80	0.17	A
<b>2024 Baseline+Dev</b>								
Stream B-ACD	0.2	14.26	0.18	B	19.4	1403.43	999999999.00	F
Stream AB-CD	34.6	81.76	0.99	F	44.1	127.84	1.03	F
Stream D-ABC	10.5	108.94	0.97	F	2.4	33.49	0.70	D
Stream CD-AB	5.2	7.52	0.60	A	1.1	3.74	0.24	A
<b>2029 Baseline</b>								
Stream B-ACD	0.2	14.08	0.18	B	0.1	11.13	0.10	B
Stream AB-CD	8.2	13.35	0.75	B	1.6	5.33	0.33	A
Stream D-ABC	1.4	26.53	0.58	D	0.8	17.45	0.43	C

Stream CD-AB	3.7	6.49	0.52	A	0.7	3.79	0.19	A
<b>2029 Baseline+Dev</b>								
Stream B-ACD	7.7	370.78	1.18	F	20.5	1406.43	999999999.00	F
Stream AB-CD	36.8	87.01	0.99	F	51.0	146.01	1.05	F
Stream D-ABC	13.7	134.80	1.01	F	2.7	37.55	0.73	E
Stream CD-AB	6.0	8.31	0.64	A	1.3	3.77	0.26	A

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

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

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.65	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (E)		Major
B	Crane Gardens		Minor
C	North Hyde Road (W)		Major
D	Harold Avenue		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (E)	7.80			210.0	✓	0.00
C - North Hyde Road (W)	7.80			250.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.248	0.248	0.248	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.239	0.239	0.095	-	-
1	D-C	519	-	0.139	0.315	0.139	0.315	0.220	0.220	0.087	-	-

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

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

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

## Traffic Demand

## Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	691	100.000
B - Crane Gardens		ONE HOUR	✓	51	100.000
C - North Hyde Road (W)		ONE HOUR	✓	505	100.000
D - Harold Avenue		ONE HOUR	✓	165	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	29	583	79
	B - Crane Gardens	0	0	36	15
	C - North Hyde Road (W)	461	35	0	9
	D - Harold Avenue	131	25	9	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.13	10.21	0.2	B	47	70
A-B					27	40
A-C					535	802
A-D					72	109
AB-CD	0.30	5.53	1.0	A	219	329
AB-C					435	653
D-ABC	0.36	12.05	0.6	B	151	227
C-D					8	12

C-A					423	635
C-B					32	48
CD-AB	0.20	5.03	0.6	A	138	207
CD-A					460	690

## 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)	LOS
B-ACD	38	10	495	0.078	38	0.0	0.1	8.664	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-CD	145	36	911	0.159	143	0.0	0.4	5.153	A
AB-C	392	98			392				
D-ABC	124	31	559	0.222	123	0.0	0.3	9.054	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	90	23	885	0.102	89	0.0	0.2	4.975	A
CD-A	399	100			399				

### 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)	LOS
B-ACD	46	11	473	0.097	46	0.1	0.1	9.256	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-CD	202	51	960	0.211	201	0.4	0.6	5.232	A
AB-C	439	110			439				
D-ABC	148	37	539	0.275	148	0.3	0.4	10.117	B
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	127	32	926	0.137	126	0.2	0.4	4.957	A
CD-A	459	115			459				

### 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)	LOS
B-ACD	56	14	444	0.126	56	0.1	0.2	10.198	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-CD	309	77	1029	0.300	307	0.6	1.0	5.507	A
AB-C	476	119			476				
D-ABC	182	45	510	0.356	181	0.4	0.6	11.999	B
C-D	10	2			10				

C-A	508	127			508				
C-B	39	10			39				
CD-AB	195	49	986	0.198	194	0.4	0.6	5.013	A
CD-A	522	130			522				

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)	LOS
B-ACD	56	14	444	0.126	56	0.2	0.2	10.206	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-CD	310	77	1030	0.301	310	1.0	1.0	5.529	A
AB-C	475	119			475				
D-ABC	182	45	510	0.356	182	0.6	0.6	12.053	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	196	49	987	0.199	196	0.6	0.6	5.025	A
CD-A	522	130			522				

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)	LOS
B-ACD	46	11	473	0.097	46	0.2	0.1	9.267	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-CD	203	51	961	0.211	205	1.0	0.6	5.265	A
AB-C	438	109			438				
D-ABC	148	37	539	0.275	149	0.6	0.4	10.178	B
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	128	32	927	0.138	129	0.6	0.4	4.976	A
CD-A	459	115			459				

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)	LOS
B-ACD	38	10	495	0.078	38	0.1	0.1	8.683	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-CD	146	36	912	0.160	147	0.6	0.4	5.187	A
AB-C	391	98			391				
D-ABC	124	31	559	0.222	125	0.4	0.3	9.125	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	91	23	887	0.103	92	0.4	0.2	4.991	A
CD-A	400	100			400				



# 2016, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.02	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2016	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	676	100.000
B - Crane Gardens		ONE HOUR	✓	33	100.000
C - North Hyde Road (W)		ONE HOUR	✓	582	100.000
D - Harold Avenue		ONE HOUR	✓	138	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	51	574	51
	B - Crane Gardens	0	0	28	5
	C - North Hyde Road (W)	554	20	0	8
	D - Harold Avenue	132	3	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.08	9.55	0.1	A	30	45
A-B					47	70
A-C					527	790
A-D					47	70
AB-CD	0.18	4.92	0.6	A	130	195
AB-C					474	711
D-ABC	0.30	11.15	0.5	B	127	190
C-D					7	11
C-A					508	763
C-B					18	28
CD-AB	0.08	4.42	0.2	A	61	91
CD-A					590	885

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.0	0.1	8.339	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-CD	86	21	892	0.096	85	0.0	0.2	4.905	A
AB-C	410	102			410				
D-ABC	104	26	558	0.186	103	0.0	0.2	8.689	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	935	0.041	38	0.0	0.1	4.414	A
CD-A	494	124			494				

#### 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)	LOS
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B-ACD	30	7	479	0.062	30	0.1	0.1	8.811	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-CD	120	30	937	0.128	119	0.2	0.3	4.847	A
AB-C	472	118			472				
D-ABC	124	31	536	0.231	124	0.2	0.3	9.587	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	55	14	987	0.056	55	0.1	0.1	4.251	A
CD-A	582	145			582				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.549	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-CD	183	46	1002	0.183	182	0.3	0.6	4.839	A
AB-C	541	135			541				
D-ABC	152	38	507	0.300	151	0.3	0.5	11.102	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1061	0.083	88	0.1	0.2	4.068	A
CD-A	692	173			692				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.553	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-CD	184	46	1003	0.183	184	0.6	0.6	4.851	A
AB-C	541	135			541				
D-ABC	152	38	507	0.300	152	0.5	0.5	11.154	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1062	0.083	88	0.2	0.2	4.070	A
CD-A	692	173			692				

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)	LOS
B-ACD	30	7	479	0.062	30	0.1	0.1	8.818	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-CD	120	30	938	0.128	121	0.6	0.4	4.864	A
AB-C	471	118			471				

D-ABC	124	31	536	0.231	125	0.5	0.3	9.626	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	56	14	987	0.056	56	0.2	0.1	4.253	A
CD-A	582	146			582				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.1	0.1	8.348	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-CD	86	22	893	0.097	87	0.4	0.2	4.921	A
AB-C	409	102			409				
D-ABC	104	26	558	0.186	104	0.3	0.3	8.739	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	936	0.041	39	0.1	0.1	4.416	A
CD-A	495	124			495				

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	3.14	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1096	100.000

B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	179	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	979	86
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	893	38	0	10
	D - Harold Avenue	142	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.17	13.77	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					79	118
AB-CD	0.70	10.93	6.5	B	544	816
AB-C					484	726
D-ABC	0.55	24.69	1.3	C	164	246
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.48	6.07	3.2	A	370	555
CD-A					639	959

### 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)	LOS
B-ACD	41	10	429	0.096	41	0.0	0.1	10.186	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-CD	273	68	1065	0.257	270	0.0	0.9	4.987	A
AB-C	569	142			569				
D-ABC	135	34	471	0.286	133	0.0	0.4	11.664	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	180	45	1066	0.169	178	0.0	0.6	4.462	A
CD-A	646	162			646				

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)	LOS
B-ACD	49	12	395	0.125	49	0.1	0.2	11.445	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-CD	447	112	1156	0.387	444	0.9	1.7	5.603	A
AB-C	559	140			559				
D-ABC	161	40	429	0.375	160	0.4	0.6	14.676	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	301	75	1156	0.260	299	0.6	1.1	4.637	A
CD-A	687	172			687				

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)	LOS
B-ACD	61	15	348	0.174	60	0.2	0.2	13.739	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	95	24			95				
AB-CD	887	222	1290	0.687	870	1.7	5.9	9.690	A
AB-C	346	87			346				
D-ABC	197	49	359	0.549	195	0.6	1.3	23.763	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	616	154	1290	0.477	608	1.1	3.0	5.876	A
CD-A	593	148			593				

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)	LOS
B-ACD	61	15	348	0.174	61	0.2	0.2	13.765	B
A-B	34	9			34				
A-C	1078	269			1078				

A-D	95	24			95				
AB-CD	914	229	1301	0.703	912	5.9	6.5	10.932	B
AB-C	319	80			319				
D-ABC	197	49	357	0.552	197	1.3	1.3	24.689	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	629	157	1297	0.485	628	3.0	3.2	6.072	A
CD-A	582	146			582				

#### 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)	LOS
B-ACD	49	12	395	0.125	50	0.2	0.2	11.472	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-CD	464	116	1170	0.396	482	6.5	1.9	5.991	A
AB-C	544	136			544				
D-ABC	161	40	428	0.376	163	1.3	0.7	15.117	C
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	309	77	1164	0.266	317	3.2	1.2	4.756	A
CD-A	682	170			682				

#### 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)	LOS
B-ACD	41	10	429	0.096	42	0.2	0.1	10.224	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-CD	279	70	1069	0.261	282	1.9	1.0	5.087	A
AB-C	565	141			565				
D-ABC	135	34	471	0.286	136	0.7	0.4	11.858	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	184	46	1070	0.172	187	1.2	0.6	4.511	A
CD-A	645	161			645				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.17	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	888	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	149	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	54	779	55
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	935	22	0	9
	D - Harold Avenue	143	3	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	10.93	0.1	B	32	48



A-B					50	74
A-C					715	1072
A-D					50	76
AB-CD	0.31	5.18	1.4	A	220	330
AB-C					577	866
D-ABC	0.41	16.73	0.8	C	137	205
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.17	3.80	0.6	A	140	210
CD-A					872	1308

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.0	0.1	9.012	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-CD	126	31	950	0.132	124	0.0	0.4	4.798	A
AB-C	528	132			528				
D-ABC	112	28	487	0.230	111	0.0	0.3	10.481	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	69	17	1111	0.062	69	0.0	0.1	3.800	A
CD-A	760	190			760				

### 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)	LOS
B-ACD	31	8	438	0.072	31	0.1	0.1	9.734	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-CD	192	48	1014	0.190	191	0.4	0.7	4.826	A
AB-C	589	147			589				
D-ABC	134	33	452	0.296	133	0.3	0.5	12.413	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	115	29	1206	0.095	114	0.1	0.2	3.627	A
CD-A	876	219			876				

### 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)	LOS
B-ACD	39	10	401	0.096	38	0.1	0.1	10.921	B

A-B	59	15			59				
A-C	858	214			858				
A-D	61	15			61				
AB-CD	339	85	1110	0.306	337	0.7	1.4	5.149	A
AB-C	617	154			617				
D-ABC	164	41	401	0.409	163	0.5	0.7	16.572	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	233	58	1346	0.173	232	0.2	0.6	3.557	A
CD-A	980	245			980				

### 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)	LOS
B-ACD	39	10	401	0.096	39	0.1	0.1	10.927	B
A-B	59	15			59				
A-C	858	214			858				
A-D	61	15			61				
AB-CD	341	85	1112	0.307	341	1.4	1.4	5.185	A
AB-C	615	154			615				
D-ABC	164	41	401	0.410	164	0.7	0.8	16.727	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	235	59	1348	0.174	235	0.6	0.6	3.569	A
CD-A	979	245			979				

### 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)	LOS
B-ACD	31	8	438	0.072	32	0.1	0.1	9.741	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-CD	194	49	1016	0.191	197	1.4	0.7	4.870	A
AB-C	587	147			587				
D-ABC	134	33	452	0.296	135	0.8	0.5	12.544	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	116	29	1208	0.096	117	0.6	0.2	3.636	A
CD-A	877	219			877				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.1	0.1	9.029	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-CD	127	32	951	0.134	129	0.7	0.4	4.833	A
AB-C	527	132			527				
D-ABC	112	28	487	0.230	113	0.5	0.3	10.586	B

C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	70	18	1113	0.063	71	0.2	0.1	3.804	A
CD-A	761	190			761				

## 2024 Baseline+Dev , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	23.18	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1138	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	907	100.000
D - Harold Avenue		ONE HOUR	✓	330	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	974	133
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	858	38	0	11
	D - Harold Avenue	292	27	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.26	0.2	B	50	76
A-B					28	43
A-C					894	1341
A-D					122	183
AB-CD	0.99	81.76	34.6	F	794	1192
AB-C					272	408
D-ABC	0.97	108.94	10.5	F	303	454
C-D					10	15
C-A					787	1181
C-B					35	52
CD-AB	0.60	7.52	5.2	A	474	711
CD-A					640	960

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.371	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-CD	394	98	1066	0.370	388	0.0	1.4	5.850	A
AB-C	481	120			481				
D-ABC	248	62	487	0.510	244	0.0	1.1	16.002	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	210	52	1122	0.187	207	0.0	0.7	4.332	A
CD-A	701	175			701				

#### 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)	LOS
B-ACD	49	12	387	0.128	49	0.1	0.2	11.718	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				
AB-CD	642	160	1157	0.555	635	1.4	3.0	7.686	A
AB-C	403	101			403				
D-ABC	297	74	449	0.661	293	1.1	2.0	24.813	C
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	368	92	1227	0.300	365	0.7	1.4	4.619	A
CD-A	721	180			721				

#### 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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.229	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-CD	1267	317	1292	0.981	1180	3.0	24.7	38.499	E
AB-C	12	3			12				
D-ABC	363	91	385	0.944	342	2.0	7.4	69.823	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	793	198	1372	0.578	780	1.4	4.6	6.831	A
CD-A	524	131			524				

#### 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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.260	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-CD	1279	320	1299	0.985	1240	24.7	34.6	81.757	F
AB-C	0	0			0				
D-ABC	363	91	376	0.967	351	7.4	10.5	108.944	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	836	209	1385	0.603	833	4.6	5.2	7.516	A
CD-A	490	123			490				

#### 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)	LOS
B-ACD	49	12	387	0.128	50	0.2	0.2	11.751	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				

AB-CD	779	195	1239	0.629	900	34.6	4.4	17.762	C
AB-C	266	67			266				
D-ABC	297	74	444	0.669	329	10.5	2.4	41.720	E
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	421	105	1260	0.334	435	5.2	1.8	4.935	A
CD-A	702	176			702				

#### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.407	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-CD	406	101	1076	0.377	417	4.4	1.5	6.181	A
AB-C	469	117			469				
D-ABC	248	62	487	0.510	253	2.4	1.2	17.303	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	219	55	1131	0.193	223	1.8	0.7	4.396	A
CD-A	701	175			701				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	38.05	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1060	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	962	100.000
D - Harold Avenue		ONE HOUR	✓	248	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	54	791	215
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	931	22	0	9
	D - Harold Avenue	241	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1403.43	19.4	F	32	48
A-B					50	74
A-C					726	1089
A-D					197	296
AB-CD	1.03	127.84	44.1	F	823	1234
AB-C					132	198
D-ABC	0.70	33.49	2.4	D	228	341
C-D					8	12
C-A					854	1281
C-B					20	30
CD-AB	0.24	3.74	1.1	A	192	289
CD-A					906	1360

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.0	0.1	9.626	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-CD	468	117	957	0.489	460	0.0	1.9	7.969	A
AB-C	316	79			316				
D-ABC	187	47	490	0.381	184	0.0	0.7	12.849	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	85	21	1143	0.074	84	0.0	0.1	3.743	A
CD-A	814	204			814				

### 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)	LOS
B-ACD	31	8	405	0.078	31	0.1	0.1	10.601	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-CD	721	180	1025	0.704	710	1.9	4.7	12.818	B
AB-C	214	54			214				
D-ABC	223	56	454	0.492	221	0.7	1.0	16.954	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	149	37	1249	0.119	148	0.1	0.3	3.596	A
CD-A	927	232			927				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	0.1	9.7	1403.431	F
A-B	59	15			59				
A-C	871	218			871				
A-D	237	59			237				
AB-CD	1108	277	1072	1.033	1010	4.7	29.2	61.430	F
AB-C	0	0			0				
D-ABC	273	68	398	0.686	268	1.0	2.2	29.584	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	337	84	1406	0.240	334	0.3	1.1	3.704	A
CD-A	977	244			977				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	9.7	19.4	-32756.334	?



A-B	59	15			59				
A-C	871	218			871				
A-D	237	59			237				
AB-CD	1108	277	1074	1.031	1048	29.2	44.1	127.837	F
AB-C	0	0			0				
D-ABC	273	68	389	0.702	272	2.2	2.4	33.486	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	344	86	1411	0.244	344	1.1	1.1	3.731	A
CD-A	974	243			974				

#### 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)	LOS
B-ACD	31	8	405	0.078	109	19.4	0.1	17.562	C
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-CD	1013	253	1147	0.883	1096	44.1	23.4	104.274	F
AB-C	0	0			0				
D-ABC	223	56	448	0.497	228	2.4	1.1	18.371	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	153	38	1256	0.122	156	1.1	0.3	3.612	A
CD-A	929	232			929				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.1	0.1	9.642	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-CD	520	130	1004	0.519	605	23.4	2.3	12.560	B
AB-C	263	66			263				
D-ABC	187	47	489	0.382	188	1.1	0.7	13.263	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	86	22	1146	0.075	87	0.3	0.2	3.742	A
CD-A	817	204			817				

## 2029 Baseline , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	3.71	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1114	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	183	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	994	88
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	905	39	0	10
	D - Harold Avenue	145	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.08	0.2	B	52	78
A-B					29	44
A-C					912	1368
A-D					81	121
AB-CD	0.75	13.35	8.2	B	583	875
AB-C					462	693
D-ABC	0.58	26.53	1.4	D	168	252
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.52	6.49	3.7	A	397	595
CD-A					628	942

## 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)	LOS
B-ACD	43	11	426	0.101	42	0.0	0.1	10.304	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				
AB-CD	288	72	1072	0.269	284	0.0	1.0	5.032	A
AB-C	569	142			569				
D-ABC	138	34	468	0.294	136	0.0	0.4	11.847	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	190	48	1072	0.177	188	0.0	0.6	4.482	A
CD-A	649	162			649				

### 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)	LOS
B-ACD	51	13	392	0.131	51	0.1	0.2	11.616	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-CD	475	119	1165	0.408	471	1.0	1.9	5.750	A
AB-C	549	137			549				
D-ABC	165	41	426	0.386	164	0.4	0.7	15.050	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	320	80	1164	0.275	318	0.6	1.2	4.701	A
CD-A	683	171			683				

### 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)	LOS
B-ACD	63	16	344	0.182	62	0.2	0.2	14.045	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-CD	954	239	1302	0.733	933	1.9	7.2	11.111	B
AB-C	299	75			299				
D-ABC	201	50	353	0.571	199	0.7	1.4	25.261	D
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	664	166	1301	0.510	655	1.2	3.5	6.219	A
CD-A	563	141			563				

#### 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)	LOS
B-ACD	63	16	344	0.182	63	0.2	0.2	14.075	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-CD	993	248	1317	0.754	989	7.2	8.2	13.349	B
AB-C	261	65			261				
D-ABC	201	50	350	0.576	201	1.4	1.4	26.528	D
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	681	170	1309	0.520	680	3.5	3.7	6.488	A
CD-A	549	137			549				

#### 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)	LOS
B-ACD	51	13	392	0.131	52	0.2	0.2	11.650	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-CD	497	124	1183	0.420	521	8.2	2.1	6.298	A
AB-C	528	132			528				
D-ABC	165	41	424	0.388	167	1.4	0.7	15.584	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	330	83	1174	0.282	340	3.7	1.3	4.843	A
CD-A	677	169			677				

#### 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)	LOS
B-ACD	43	11	426	0.101	43	0.2	0.1	10.338	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				

AB-CD	294	73	1077	0.273	298	2.1	1.0	5.146	A
AB-C	564	141			564				
D-ABC	138	34	468	0.294	139	0.7	0.5	12.060	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	195	49	1076	0.181	197	1.3	0.7	4.535	A
CD-A	647	162			647				

## 2029 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.25	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	909	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	154	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	795	57
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	950	22	0	9
	D - Harold Avenue	147	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	11.13	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					52	78
AB-CD	0.33	5.33	1.6	A	239	359
AB-C					576	865
D-ABC	0.43	17.45	0.8	C	141	212
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.19	3.79	0.7	A	152	229
CD-A					878	1317

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.0	0.1	9.109	A
A-B	43	11			43				
A-C	599	150			599				

A-D	43	11			43				
AB-CD	135	34	957	0.141	134	0.0	0.4	4.811	A
AB-C	534	133			534				
D-ABC	116	29	485	0.239	115	0.0	0.3	10.658	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	74	19	1119	0.066	74	0.0	0.1	3.789	A
CD-A	770	192			770				

### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.865	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-CD	208	52	1023	0.204	207	0.4	0.7	4.866	A
AB-C	591	148			591				
D-ABC	138	35	449	0.309	138	0.3	0.5	12.717	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	124	31	1216	0.102	123	0.1	0.2	3.624	A
CD-A	885	221			885				

### 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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.123	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-CD	371	93	1122	0.331	368	0.7	1.5	5.282	A
AB-C	607	152			607				
D-ABC	170	42	396	0.428	168	0.5	0.8	17.261	C
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	257	64	1359	0.189	255	0.2	0.7	3.590	A
CD-A	979	245			979				

### 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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.135	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-CD	374	93	1124	0.332	374	1.5	1.6	5.331	A
AB-C	605	151			605				
D-ABC	170	42	396	0.428	170	0.8	0.8	17.449	C
C-D	10	2			10				
C-A	1046	261			1046				

C-B	24	6			24				
CD-AB	259	65	1361	0.190	259	0.7	0.7	3.602	A
CD-A	977	244			977				

#### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.878	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-CD	210	53	1026	0.205	214	1.6	0.8	4.916	A
AB-C	589	147			589				
D-ABC	138	35	449	0.309	140	0.8	0.5	12.868	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	125	31	1219	0.103	127	0.7	0.2	3.638	A
CD-A	885	221			885				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.1	0.1	9.123	A
A-B	43	11			43				
A-C	599	150			599				
A-D	43	11			43				
AB-CD	137	34	959	0.143	138	0.8	0.4	4.846	A
AB-C	532	133			532				
D-ABC	116	29	485	0.239	117	0.5	0.4	10.772	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	75	19	1121	0.067	76	0.2	0.1	3.791	A
CD-A	771	193			771				

## 2029 Baseline+Dev , AM

### Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	30.73	D

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown



# 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1156	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	920	100.000
D - Harold Avenue		ONE HOUR	✓	335	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	989	135
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	870	39	0	11
	D - Harold Avenue	296	28	11	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

# 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-ACD	1.18	370.78	7.7	F	52	78
A-B					29	44
A-C					908	1361
A-D					124	186
AB-CD	0.99	87.01	36.8	F	834	1251
AB-C					250	375

D-ABC	1.01	134.80	13.7	F	307	461
C-D					10	15
C-A					798	1197
C-B					36	54
CD-AB	0.64	8.31	6.0	A	510	764
CD-A					621	931

## 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.489	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-CD	411	103	1073	0.383	405	0.0	1.5	5.937	A
AB-C	478	119			478				
D-ABC	252	63	485	0.520	248	0.0	1.1	16.395	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	222	55	1129	0.196	219	0.0	0.7	4.357	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	51	13	384	0.134	51	0.1	0.2	11.901	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-CD	675	169	1166	0.579	667	1.5	3.3	8.054	A
AB-C	387	97			387				
D-ABC	301	75	446	0.676	297	1.1	2.1	25.981	D
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	393	98	1236	0.318	390	0.7	1.5	4.709	A
CD-A	712	178			712				

### 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)	LOS
B-ACD	63	16	56	1.123	45	0.2	4.5	262.275	F
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-CD	1280	320	1296	0.988	1189	3.3	25.9	40.539	E
AB-C	3	0.80			3				

D-ABC	369	92	379	0.973	343	2.1	8.7	78.679	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	851	213	1381	0.616	835	1.5	5.4	7.444	A
CD-A	481	120			481				

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)	LOS
B-ACD	63	16	53	1.182	50	4.5	7.7	370.781	F
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-CD	1287	322	1298	0.992	1244	25.9	36.8	87.011	F
AB-C	0	0			0				
D-ABC	369	92	365	1.010	349	8.7	13.7	134.804	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	892	223	1394	0.640	889	5.4	6.0	8.314	A
CD-A	446	112			446				

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)	LOS
B-ACD	51	13	384	0.134	81	7.7	0.2	14.446	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-CD	921	230	1269	0.725	1039	36.8	7.3	30.273	D
AB-C	171	43			171				
D-ABC	301	75	438	0.688	345	13.7	2.7	55.164	F
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	468	117	1279	0.366	484	6.0	2.0	5.156	A
CD-A	682	171			682				

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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.526	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-CD	429	107	1089	0.394	452	7.2	1.6	6.501	A
AB-C	460	115			460				
D-ABC	252	63	484	0.521	258	2.7	1.2	17.951	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	232	58	1139	0.204	237	2.0	0.8	4.434	A
CD-A	702	175			702				

# 2029 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	42.61	E

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1080	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	979	100.000
D - Harold Avenue		ONE HOUR	✓	252	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	807	216
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	947	22	0	10
	D - Harold Avenue	245	4	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1406.43	20.5	F	34	51
A-B					52	78
A-C					741	1111
A-D					198	297
AB-CD	1.05	146.01	51.0	F	847	1270
AB-C					126	189
D-ABC	0.73	37.55	2.7	E	231	347
C-D					9	14
C-A					869	1303
C-B					20	30
CD-AB	0.26	3.77	1.3	A	204	305
CD-A					914	1370

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.0	0.1	9.730	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-CD	484	121	964	0.502	476	0.0	2.0	8.106	A
AB-C	314	79			314				
D-ABC	190	47	487	0.390	187	0.0	0.7	13.099	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	88	22	1151	0.076	87	0.0	0.2	3.722	A
CD-A	827	207			827				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----

B-ACD	33	8	401	0.083	33	0.1	0.1	10.754	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-CD	752	188	1034	0.727	739	2.0	5.2	13.683	B
AB-C	201	50			201				
D-ABC	227	57	450	0.504	225	0.7	1.1	17.487	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	155	39	1261	0.123	155	0.2	0.3	3.581	A
CD-A	938	235			938				

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)	LOS
B-ACD	41	10	0	999999999.000	0	0.1	10.3	1406.429	F
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-CD	1126	282	1071	1.051	1016	5.2	32.7	68.645	F
AB-C	0	0			0				
D-ABC	277	69	392	0.708	272	1.1	2.4	31.758	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	361	90	1421	0.254	357	0.3	1.2	3.733	A
CD-A	975	244			975				

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)	LOS
B-ACD	41	10	0	999999999.000	0	10.3	20.5	-30198.666	?
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-CD	1126	282	1073	1.050	1053	32.7	51.0	146.015	F
AB-C	0	0			0				
D-ABC	277	69	379	0.732	276	2.4	2.7	37.548	E
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	369	92	1426	0.259	368	1.2	1.3	3.769	A
CD-A	971	243			971				

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)	LOS
B-ACD	33	8	401	0.083	115	20.5	0.1	18.667	C
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-CD	1034	259	1144	0.904	1112	51.0	31.7	133.164	F
AB-C	0	0			0				

D-ABC	227	57	443	0.511	233	2.7	1.2	19.311	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	160	40	1269	0.126	164	1.3	0.3	3.599	A
CD-A	941	235			941				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.1	0.1	9.750	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-CD	559	140	1027	0.544	676	31.7	2.5	16.272	C
AB-C	239	60			239				
D-ABC	190	47	485	0.391	192	1.2	0.7	13.570	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	89	22	1155	0.077	90	0.3	0.2	3.724	A
CD-A	830	207			830				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction mitigation.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 24/01/2017 09:11:57

- »2016, AM
- »2016, PM
- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev, PM
- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-ACD	0.2	10.21	0.13	B	0.1	9.55	0.08	A
Stream AB-D	0.2	8.57	0.18	A	0.1	8.19	0.11	A
Stream D-ABC	0.6	11.73	0.35	B	0.5	10.87	0.29	B
Stream CD-AB	0.6	5.03	0.20	A	0.2	4.42	0.08	A
<b>2024 Baseline</b>								
Stream B-ACD	0.2	13.77	0.17	B	0.1	10.93	0.10	B
Stream AB-D	0.4	11.63	0.25	B	0.2	10.41	0.15	B
Stream D-ABC	1.1	21.20	0.51	C	0.7	15.65	0.39	C
Stream CD-AB	3.2	6.07	0.49	A	0.6	3.80	0.17	A
<b>2024 Baseline+Dev</b>								
Stream B-ACD	0.2	14.26	0.18	B	0.1	12.32	0.11	B
Stream AB-D	0.6	13.31	0.36	B	1.3	19.27	0.54	C
Stream D-ABC	6.7	71.83	0.89	F	2.0	27.36	0.66	D
Stream CD-AB	5.5	7.79	0.62	A	1.1	3.75	0.24	A
<b>2029 Baseline</b>								
Stream B-ACD	0.2	14.08	0.18	B	0.1	11.13	0.10	B
Stream AB-D	0.4	11.86	0.26	B	0.2	10.61	0.16	B
Stream D-ABC	1.2	22.28	0.53	C	0.8	16.26	0.41	C



Stream CD-AB	3.7	6.49	0.52	A	0.7	3.79	0.19	A
<b>2029 Baseline+Dev</b>								
Stream B-ACD	0.3	14.59	0.19	B	0.1	12.57	0.11	B
Stream AB-D	0.6	13.61	0.37	B	1.3	19.90	0.55	C
Stream D-ABC	7.9	82.74	0.91	F	2.3	30.50	0.68	D
Stream CD-AB	6.7	8.99	0.67	A	1.3	3.77	0.26	A

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

## File summary

### File Description

<b>Title</b>	(untitled)
<b>Location</b>	
<b>Site number</b>	
<b>Date</b>	19/11/2016
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	
<b>Jobnumber</b>	
<b>Enumerator</b>	DEMETRIS-PSYLLIDemetris Psyllides
<b>Description</b>	

## 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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.45	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (W)		Major
B	Crane Gardens		Minor
C	North Hyde Road (E)		Major
D	Harold Avenue		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (W)	9.00		✓	2.20	210.0		-
C - North Hyde Road (E)	7.80				250.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.234	0.234	0.234	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.225	0.225	0.089	-	-
1	D-C	519	-	0.131	0.297	0.131	0.297	0.208	0.208	0.082	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	691	100.000
B - Crane Gardens		ONE HOUR	✓	51	100.000
C - North Hyde Road (E)		ONE HOUR	✓	505	100.000
D - Harold Avenue		ONE HOUR	✓	165	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	29	583	79
	B - Crane Gardens	0	0	36	15
	C - North Hyde Road (E)	461	35	0	9
	D - Harold Avenue	131	25	9	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.13	10.21	0.2	B	47	70
A-B					27	40
A-C					535	802
A-D					72	109
AB-C					568	852
AB-D	0.18	8.57	0.2	A	86	129

D-ABC	0.35	11.73	0.6	B	151	227
C-D					8	12
C-A					423	635
C-B					32	48
CD-AB	0.20	5.03	0.6	A	138	207
CD-A					460	690

## 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)	LOS
B-ACD	38	10	495	0.078	38	0.0	0.1	8.664	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-C	466	116			466				
AB-D	71	18	606	0.117	70	0.0	0.1	7.375	A
D-ABC	124	31	565	0.220	123	0.0	0.3	8.939	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	90	23	885	0.102	89	0.0	0.2	4.975	A
CD-A	399	100			399				

### 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)	LOS
B-ACD	46	11	473	0.097	46	0.1	0.1	9.256	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-C	556	139			556				
AB-D	84	21	589	0.143	84	0.1	0.2	7.841	A
D-ABC	148	37	546	0.272	148	0.3	0.4	9.936	A
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	127	32	926	0.137	126	0.2	0.4	4.957	A
CD-A	459	115			459				

### 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)	LOS
B-ACD	56	14	444	0.126	56	0.1	0.2	10.198	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-C	681	170			681				
AB-D	103	26	565	0.183	103	0.2	0.2	8.565	A

D-ABC	182	45	519	0.350	181	0.4	0.6	11.682	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	195	49	986	0.198	194	0.4	0.6	5.013	A
CD-A	522	130			522				

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)	LOS
B-ACD	56	14	444	0.126	56	0.2	0.2	10.206	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-C	682	170			682				
AB-D	103	26	565	0.183	103	0.2	0.2	8.574	A
D-ABC	182	45	519	0.350	182	0.6	0.6	11.729	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	196	49	987	0.199	196	0.6	0.6	5.025	A
CD-A	522	130			522				

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)	LOS
B-ACD	46	11	473	0.097	46	0.2	0.1	9.267	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-C	557	139			557				
AB-D	85	21	589	0.144	85	0.2	0.2	7.854	A
D-ABC	148	37	546	0.272	149	0.6	0.4	9.991	A
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	128	32	927	0.138	129	0.6	0.4	4.976	A
CD-A	459	115			459				

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)	LOS
B-ACD	38	10	495	0.078	38	0.1	0.1	8.683	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-C	466	117			466				
AB-D	71	18	606	0.117	71	0.2	0.1	7.398	A
D-ABC	124	31	565	0.220	125	0.4	0.3	9.001	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	91	23	887	0.103	92	0.4	0.2	4.993	A
CD-A	400	100			400				

# 2016, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.92	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2016	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	676	100.000
B - Crane Gardens		ONE HOUR	✓	33	100.000
C - North Hyde Road (E)		ONE HOUR	✓	582	100.000
D - Harold Avenue		ONE HOUR	✓	138	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	51	574	51
	B - Crane Gardens	0	0	28	5
	C - North Hyde Road (E)	554	20	0	8
	D - Harold Avenue	132	3	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
A - North Hyde Rd (W)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (E)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.08	9.55	0.1	A	30	45
A-B					47	70
A-C					527	790
A-D					47	70
AB-C					552	829
AB-D	0.11	8.19	0.1	A	51	77
D-ABC	0.29	10.87	0.5	B	127	190
C-D					7	11
C-A					508	763
C-B					18	28
CD-AB	0.08	4.42	0.2	A	61	91
CD-A					590	885

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.0	0.1	8.339	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-C	453	113			453				
AB-D	42	11	593	0.071	42	0.0	0.1	7.180	A
D-ABC	104	26	564	0.184	103	0.0	0.2	8.575	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	935	0.041	38	0.0	0.1	4.414	A
CD-A	494	124			494				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----

B-ACD	30	7	479	0.062	30	0.1	0.1	8.811	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-C	541	135			541				
AB-D	50	13	573	0.088	50	0.1	0.1	7.575	A
D-ABC	124	31	544	0.228	124	0.2	0.3	9.419	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	55	14	987	0.056	55	0.1	0.1	4.251	A
CD-A	582	145			582				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.549	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-C	663	166			663				
AB-D	62	15	545	0.113	62	0.1	0.1	8.182	A
D-ABC	152	38	516	0.294	151	0.3	0.5	10.843	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1061	0.083	88	0.1	0.2	4.068	A
CD-A	692	173			692				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.553	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-C	663	166			663				
AB-D	62	15	545	0.113	62	0.1	0.1	8.185	A
D-ABC	152	38	516	0.294	152	0.5	0.5	10.872	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1062	0.083	88	0.2	0.2	4.069	A
CD-A	692	173			692				

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)	LOS
B-ACD	30	7	479	0.062	30	0.1	0.1	8.818	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-C	541	135			541				
AB-D	50	13	573	0.088	50	0.1	0.1	7.580	A



D-ABC	124	31	544	0.228	125	0.5	0.3	9.454	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	56	14	987	0.056	56	0.2	0.1	4.253	A
CD-A	582	146			582				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.1	0.1	8.348	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-C	453	113			453				
AB-D	42	11	593	0.071	42	0.1	0.1	7.191	A
D-ABC	104	26	564	0.184	104	0.3	0.3	8.624	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	936	0.041	39	0.1	0.1	4.416	A
CD-A	495	124			495				

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.82	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1096	100.000

B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (E)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	179	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	31	979	86
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (E)	893	38	0	10
	D - Harold Avenue	142	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.17	13.77	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					79	118
AB-C					934	1401
AB-D	0.25	11.63	0.4	B	94	140
D-ABC	0.51	21.20	1.1	C	164	246
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.49	6.07	3.2	A	370	555
CD-A					639	959

### 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)	LOS
B-ACD	41	10	429	0.096	41	0.0	0.1	10.186	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-C	766	192			766				
AB-D	77	19	530	0.145	76	0.0	0.2	8.715	A
D-ABC	135	34	482	0.279	133	0.0	0.4	11.285	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	180	45	1066	0.169	178	0.0	0.6	4.462	A
CD-A	646	162			646				

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)	LOS
B-ACD	49	12	395	0.125	49	0.1	0.2	11.445	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-C	915	229			915				
AB-D	92	23	497	0.184	91	0.2	0.2	9.749	A
D-ABC	161	40	444	0.362	160	0.4	0.6	13.904	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	301	75	1156	0.260	299	0.6	1.1	4.639	A
CD-A	687	172			687				

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)	LOS
B-ACD	61	15	348	0.174	60	0.2	0.2	13.739	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	95	24			95				
AB-C	1121	280			1121				
AB-D	112	28	453	0.248	112	0.2	0.4	11.597	B
D-ABC	197	49	384	0.514	195	0.6	1.1	20.786	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	617	154	1291	0.478	609	1.1	3.1	5.883	A
CD-A	593	148			593				

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)	LOS
B-ACD	61	15	348	0.174	61	0.2	0.2	13.765	B
A-B	34	9			34				
A-C	1078	269			1078				

A-D	95	24			95				
AB-C	1121	280			1121				
AB-D	112	28	453	0.248	112	0.4	0.4	11.629	B
D-ABC	197	49	383	0.514	197	1.1	1.1	21.204	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	629	157	1297	0.485	628	3.1	3.2	6.071	A
CD-A	582	146			582				

#### 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)	LOS
B-ACD	49	12	395	0.125	50	0.2	0.2	11.474	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-C	915	229			915				
AB-D	92	23	497	0.185	92	0.4	0.3	9.784	A
D-ABC	161	40	444	0.362	163	1.1	0.6	14.182	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	309	77	1164	0.265	317	3.2	1.2	4.752	A
CD-A	682	171			682				

#### 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)	LOS
B-ACD	41	10	429	0.096	42	0.2	0.1	10.224	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-C	767	192			767				
AB-D	77	19	530	0.145	77	0.3	0.2	8.756	A
D-ABC	135	34	482	0.279	136	0.6	0.4	11.449	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	184	46	1070	0.172	187	1.2	0.6	4.510	A
CD-A	645	161			645				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.98	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	889	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (E)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	149	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	55	779	55
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (E)	935	22	0	9
	D - Harold Avenue	143	3	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	10.93	0.1	B	32	48

A-B					50	76
A-C					715	1072
A-D					50	76
AB-C					742	1113
AB-D	0.15	10.41	0.2	B	55	83
D-ABC	0.39	15.65	0.7	C	137	205
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.17	3.80	0.6	A	140	210
CD-A					872	1308

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.0	0.1	9.014	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-C	609	152			609				
AB-D	45	11	525	0.086	45	0.0	0.1	8.236	A
D-ABC	112	28	498	0.225	111	0.0	0.3	10.206	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	69	17	1111	0.063	69	0.0	0.1	3.800	A
CD-A	760	190			760				

### 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)	LOS
B-ACD	31	8	438	0.072	31	0.1	0.1	9.736	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-C	727	182			727				
AB-D	54	13	492	0.110	54	0.1	0.1	9.032	A
D-ABC	134	33	464	0.288	133	0.3	0.4	11.949	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	115	29	1206	0.095	114	0.1	0.2	3.627	A
CD-A	876	219			876				

### 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)	LOS
B-ACD	39	10	401	0.096	38	0.1	0.1	10.923	B

A-B	61	15			61				
A-C	858	214			858				
A-D	61	15			61				
AB-C	891	223			891				
AB-D	66	17	446	0.148	66	0.1	0.2	10.403	B
D-ABC	164	41	417	0.393	163	0.4	0.7	15.533	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	233	58	1346	0.173	232	0.2	0.6	3.558	A
CD-A	980	245			980				

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)	LOS
B-ACD	39	10	401	0.096	39	0.1	0.1	10.930	B
A-B	61	15			61				
A-C	858	214			858				
A-D	61	15			61				
AB-C	891	223			891				
AB-D	66	17	446	0.148	66	0.2	0.2	10.412	B
D-ABC	164	41	417	0.394	164	0.7	0.7	15.653	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	235	59	1347	0.174	235	0.6	0.6	3.570	A
CD-A	979	245			979				

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)	LOS
B-ACD	31	8	438	0.072	32	0.1	0.1	9.745	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-C	727	182			727				
AB-D	54	13	492	0.110	54	0.2	0.1	9.048	A
D-ABC	134	33	464	0.288	135	0.7	0.5	12.059	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	116	29	1208	0.096	117	0.6	0.2	3.636	A
CD-A	877	219			877				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.1	0.1	9.028	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-C	609	152			609				
AB-D	45	11	525	0.086	45	0.1	0.1	8.254	A
D-ABC	112	28	498	0.225	113	0.5	0.3	10.299	B

C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	70	18	1113	0.063	71	0.2	0.1	3.801	A
CD-A	761	190			761				

# 2024 Baseline+Dev , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	6.35	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1138	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (E)		ONE HOUR	✓	907	100.000
D - Harold Avenue		ONE HOUR	✓	330	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	31	974	133
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (E)	858	38	0	11
	D - Harold Avenue	292	27	11	0



## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.26	0.2	B	50	76
A-B					28	43
A-C					894	1341
A-D					122	183
AB-C					929	1394
AB-D	0.36	13.31	0.6	B	137	205
D-ABC	0.89	71.83	6.7	F	303	454
C-D					10	15
C-A					787	1181
C-B					35	52
CD-AB	0.62	7.79	5.5	A	478	717
CD-A					636	954

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.371	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-C	762	191			762				
AB-D	112	28	536	0.209	111	0.0	0.3	9.300	A
D-ABC	248	62	498	0.499	244	0.0	1.1	15.367	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	210	52	1122	0.187	207	0.0	0.7	4.332	A
CD-A	701	175			701				

#### 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)	LOS
B-ACD	49	12	387	0.128	49	0.1	0.2	11.718	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				
AB-C	911	228			911				
AB-D	134	33	505	0.265	133	0.3	0.4	10.661	B
D-ABC	297	74	463	0.641	294	1.1	1.8	22.947	C
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	369	92	1227	0.300	366	0.7	1.4	4.622	A
CD-A	721	180			721				

#### 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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.229	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-C	1115	279			1115				
AB-D	164	41	462	0.355	163	0.4	0.6	13.232	B
D-ABC	363	91	408	0.891	348	1.8	5.7	55.487	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	810	202	1376	0.588	796	1.4	4.8	6.974	A
CD-A	513	128			513				

#### 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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.260	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-C	1115	279			1115				
AB-D	164	41	462	0.355	164	0.6	0.6	13.306	B
D-ABC	363	91	408	0.891	359	5.7	6.7	71.827	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	860	215	1392	0.618	857	4.8	5.5	7.793	A
CD-A	474	118			474				

#### 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)	LOS
B-ACD	49	12	387	0.128	50	0.2	0.2	11.753	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				

AB-C	911	228			911				
AB-D	134	34	505	0.266	135	0.6	0.4	10.733	B
D-ABC	297	74	463	0.641	315	6.7	2.1	29.534	D
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	404	101	1251	0.323	419	5.5	1.7	4.898	A
CD-A	706	177			706				

#### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.405	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-C	763	191			763				
AB-D	112	28	536	0.210	113	0.4	0.3	9.374	A
D-ABC	248	62	498	0.499	252	2.1	1.1	16.372	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	218	54	1130	0.193	222	1.7	0.7	4.395	A
CD-A	701	175			701				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	2.69	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1061	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (E)		ONE HOUR	✓	962	100.000
D - Harold Avenue		ONE HOUR	✓	248	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	55	791	215
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (E)	931	22	0	9
	D - Harold Avenue	241	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.32	0.1	B	32	48
A-B					50	76
A-C					726	1089
A-D					197	296
AB-C					753	1130
AB-D	0.54	19.27	1.3	C	202	303
D-ABC	0.66	27.36	2.0	D	228	341
C-D					8	12
C-A					854	1281
C-B					20	30
CD-AB	0.24	3.75	1.1	A	193	289
CD-A					906	1359

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.0	0.1	9.627	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-C	618	154			618				
AB-D	166	41	526	0.315	164	0.0	0.5	10.875	B
D-ABC	187	47	500	0.373	184	0.0	0.6	12.441	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	85	21	1142	0.074	84	0.0	0.1	3.743	A
CD-A	814	204			814				

### 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)	LOS
B-ACD	31	8	405	0.078	31	0.1	0.1	10.603	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-C	738	184			738				
AB-D	198	49	493	0.401	197	0.5	0.7	13.334	B
D-ABC	223	56	466	0.478	222	0.6	1.0	16.086	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	149	37	1249	0.119	148	0.1	0.3	3.597	A
CD-A	927	232			927				

### 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)	LOS
B-ACD	39	10	360	0.107	38	0.1	0.1	12.309	B
A-B	61	15			61				
A-C	871	218			871				
A-D	237	59			237				
AB-C	904	226			904				
AB-D	242	61	447	0.541	240	0.7	1.2	18.909	C
D-ABC	273	68	417	0.655	269	1.0	1.9	26.160	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	338	85	1407	0.241	335	0.3	1.1	3.705	A
CD-A	977	244			977				

### 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)	LOS
B-ACD	39	10	360	0.107	39	0.1	0.1	12.319	B

A-B	61	15			61				
A-C	871	218			871				
A-D	237	59			237				
AB-C	904	226			904				
AB-D	242	61	447	0.541	242	1.2	1.3	19.268	C
D-ABC	273	68	417	0.655	273	1.9	2.0	27.365	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	345	86	1411	0.245	345	1.1	1.1	3.733	A
CD-A	974	243			974				

#### 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)	LOS
B-ACD	31	8	405	0.078	32	0.1	0.1	10.618	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-C	738	185			738				
AB-D	198	49	493	0.401	200	1.3	0.8	13.604	B
D-ABC	223	56	466	0.478	227	2.0	1.0	16.789	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	152	38	1255	0.121	156	1.1	0.3	3.614	A
CD-A	928	232			928				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.1	0.1	9.643	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-C	618	155			618				
AB-D	166	41	526	0.315	167	0.8	0.5	11.053	B
D-ABC	187	47	500	0.373	188	1.0	0.7	12.761	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	86	22	1146	0.075	87	0.3	0.2	3.746	A
CD-A	817	204			817				

## 2029 Baseline , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.96	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1114	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (E)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	183	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	32	994	88
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (E)	905	39	0	10
	D - Harold Avenue	145	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.08	0.2	B	52	78
A-B					29	44
A-C					912	1368
A-D					81	121
AB-C					949	1423
AB-D	0.26	11.86	0.4	B	96	144
D-ABC	0.53	22.28	1.2	C	168	252
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.52	6.49	3.7	A	397	595
CD-A					628	942

## 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)	LOS
B-ACD	43	11	426	0.101	42	0.0	0.1	10.304	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				
AB-C	778	195			778				
AB-D	79	20	527	0.150	78	0.0	0.2	8.802	A
D-ABC	138	34	480	0.287	136	0.0	0.4	11.451	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	190	48	1072	0.177	188	0.0	0.6	4.482	A
CD-A	649	162			649				

### 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)	LOS
B-ACD	51	13	392	0.131	51	0.1	0.2	11.616	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-C	929	232			929				
AB-D	94	24	495	0.191	94	0.2	0.3	9.881	A
D-ABC	165	41	441	0.373	164	0.4	0.6	14.223	B
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	320	80	1164	0.275	318	0.6	1.2	4.701	A
CD-A	683	171			683				

### 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)	LOS
B-ACD	63	16	344	0.182	62	0.2	0.2	14.045	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-C	1138	285			1138				
AB-D	116	29	449	0.257	115	0.3	0.4	11.825	B
D-ABC	201	50	379	0.532	199	0.6	1.2	21.779	C
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	666	166	1302	0.511	657	1.2	3.5	6.228	A
CD-A	562	141			562				

### 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)	LOS
B-ACD	63	16	344	0.182	63	0.2	0.2	14.075	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-C	1138	285			1138				
AB-D	116	29	449	0.257	116	0.4	0.4	11.861	B
D-ABC	201	50	379	0.532	201	1.2	1.2	22.283	C
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	681	170	1309	0.520	680	3.5	3.7	6.489	A
CD-A	549	137			549				

### 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)	LOS
B-ACD	51	13	392	0.131	52	0.2	0.2	11.650	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-C	930	232			930				
AB-D	94	24	495	0.191	95	0.4	0.3	9.919	A
D-ABC	165	41	441	0.373	167	1.2	0.7	14.540	B
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	329	82	1173	0.281	339	3.7	1.3	4.841	A
CD-A	677	169			677				

### 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)	LOS
B-ACD	43	11	426	0.101	43	0.2	0.1	10.338	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				

AB-C	779	195			779				
AB-D	79	20	527	0.150	79	0.3	0.2	8.847	A
D-ABC	138	34	480	0.287	139	0.7	0.5	11.629	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	194	49	1076	0.181	197	1.3	0.7	4.536	A
CD-A	647	162			647				

## 2029 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.03	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	909	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (E)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	154	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	57	795	57
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (E)	950	22	0	9
	D - Harold Avenue	147	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	11.13	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					52	78
AB-C					758	1137
AB-D	0.16	10.61	0.2	B	58	87
D-ABC	0.41	16.26	0.8	C	141	212
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.19	3.79	0.7	A	152	229
CD-A					878	1317

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.0	0.1	9.109	A
A-B	43	11			43				
A-C	599	150			599				

A-D	43	11			43				
AB-C	622	155			622				
AB-D	47	12	523	0.091	47	0.0	0.1	8.319	A
D-ABC	116	29	495	0.234	115	0.0	0.3	10.367	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	74	19	1119	0.066	74	0.0	0.1	3.789	A
CD-A	770	192			770				

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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.865	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-C	742	186			742				
AB-D	57	14	489	0.116	56	0.1	0.1	9.154	A
D-ABC	138	35	461	0.300	138	0.3	0.5	12.221	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	124	31	1216	0.102	123	0.1	0.2	3.624	A
CD-A	885	221			885				

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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.123	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-C	909	227			909				
AB-D	69	17	442	0.157	69	0.1	0.2	10.599	B
D-ABC	170	42	413	0.411	168	0.5	0.7	16.113	C
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	257	64	1359	0.189	255	0.2	0.7	3.590	A
CD-A	979	245			979				

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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.135	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-C	909	227			909				
AB-D	69	17	442	0.157	69	0.2	0.2	10.612	B
D-ABC	170	42	413	0.411	170	0.7	0.8	16.255	C
C-D	10	2			10				
C-A	1046	261			1046				

C-B	24	6			24				
CD-AB	259	65	1361	0.190	259	0.7	0.7	3.602	A
CD-A	977	244			977				

#### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.878	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-C	743	186			743				
AB-D	57	14	489	0.116	57	0.2	0.1	9.170	A
D-ABC	138	35	461	0.300	140	0.8	0.5	12.345	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	125	31	1219	0.103	127	0.7	0.2	3.636	A
CD-A	885	221			885				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.1	0.1	9.123	A
A-B	43	11			43				
A-C	599	150			599				
A-D	43	11			43				
AB-C	622	155			622				
AB-D	47	12	523	0.091	48	0.1	0.1	8.341	A
D-ABC	116	29	495	0.234	116	0.5	0.3	10.472	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	75	19	1121	0.067	76	0.2	0.1	3.794	A
CD-A	771	193			771				

## 2029 Baseline+Dev , AM

### Data Errors and Warnings

*No errors or warnings*

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	7.31	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1156	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (E)		ONE HOUR	✓	920	100.000
D - Harold Avenue		ONE HOUR	✓	335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	32	989	135
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (E)	870	39	0	11
	D - Harold Avenue	296	28	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.19	14.59	0.3	B	52	78
A-B					29	44
A-C					908	1361
A-D					124	186
AB-C					944	1416
AB-D	0.37	13.61	0.6	B	139	209

D-ABC	0.91	82.74	7.9	F	307	461
C-D					10	15
C-A					798	1197
C-B					36	54
CD-AB	0.67	8.99	6.7	A	516	775
CD-A					614	921

## 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.489	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-C	774	194			774				
AB-D	114	29	533	0.214	113	0.0	0.3	9.399	A
D-ABC	252	63	496	0.509	248	0.0	1.1	15.718	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	222	55	1129	0.196	219	0.0	0.7	4.357	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	51	13	384	0.134	51	0.1	0.2	11.901	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-C	925	231			925				
AB-D	137	34	502	0.272	136	0.3	0.4	10.818	B
D-ABC	301	75	460	0.655	298	1.1	1.9	23.911	C
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	393	98	1236	0.318	390	0.7	1.5	4.708	A
CD-A	712	178			712				

### 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)	LOS
B-ACD	63	16	334	0.188	62	0.2	0.2	14.559	B
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-C	1133	283			1133				
AB-D	167	42	458	0.365	166	0.4	0.6	13.529	B

D-ABC	369	92	403	0.915	351	1.9	6.5	61.103	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	874	219	1387	0.631	858	1.5	5.7	7.691	A
CD-A	466	116			466				

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)	LOS
B-ACD	63	16	334	0.188	63	0.2	0.3	14.593	B
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-C	1133	283			1133				
AB-D	167	42	458	0.365	167	0.6	0.6	13.612	B
D-ABC	369	92	403	0.915	363	6.5	7.9	82.745	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	938	234	1405	0.668	934	5.7	6.7	8.991	A
CD-A	414	104			414				

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)	LOS
B-ACD	51	13	384	0.134	52	0.3	0.2	11.935	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-C	925	231			925				
AB-D	137	34	502	0.273	138	0.6	0.4	10.899	B
D-ABC	301	75	460	0.655	324	7.9	2.3	32.839	D
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	440	110	1266	0.347	459	6.7	1.9	5.088	A
CD-A	691	173			691				

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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.528	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-C	775	194			775				
AB-D	114	29	533	0.215	115	0.4	0.3	9.478	A
D-ABC	252	63	496	0.509	257	2.3	1.2	16.847	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	231	58	1138	0.203	235	1.9	0.8	4.427	A
CD-A	701	175			701				



# 2029 Baseline+Dev, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	2.90	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1080	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (E)		ONE HOUR	✓	979	100.000
D - Harold Avenue		ONE HOUR	✓	253	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	57	807	216
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (E)	947	22	0	10
	D - Harold Avenue	245	4	4	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
A - North Hyde Rd (W)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (E)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.57	0.1	B	34	51
A-B					52	78
A-C					741	1111
A-D					198	297
AB-C					769	1153
AB-D	0.55	19.90	1.3	C	204	306
D-ABC	0.68	30.50	2.3	D	232	348
C-D					9	14
C-A					869	1303
C-B					20	30
CD-AB	0.26	3.77	1.3	A	204	306
CD-A					913	1370

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.0	0.1	9.730	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-C	631	158			631				
AB-D	167	42	523	0.320	165	0.0	0.5	11.008	B
D-ABC	190	48	495	0.385	188	0.0	0.7	12.784	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	88	22	1151	0.076	87	0.0	0.2	3.722	A
CD-A	827	207			827				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----

B-ACD	33	8	401	0.083	33	0.1	0.1	10.754	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-C	753	188			753				
AB-D	200	50	489	0.408	199	0.5	0.7	13.576	B
D-ABC	227	57	460	0.494	226	0.7	1.0	16.810	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	155	39	1261	0.123	155	0.2	0.3	3.581	A
CD-A	938	235			938				

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)	LOS
B-ACD	41	10	356	0.115	41	0.1	0.1	12.558	B
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-C	923	231			923				
AB-D	244	61	443	0.552	242	0.7	1.3	19.502	C
D-ABC	279	70	407	0.684	274	1.0	2.2	28.788	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	361	90	1422	0.254	358	0.3	1.2	3.734	A
CD-A	975	244			975				

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)	LOS
B-ACD	41	10	356	0.115	41	0.1	0.1	12.570	B
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-C	923	231			923				
AB-D	244	61	443	0.552	244	1.3	1.3	19.899	C
D-ABC	279	70	407	0.684	278	2.2	2.3	30.496	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	370	92	1427	0.259	370	1.2	1.3	3.768	A
CD-A	971	243			971				

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)	LOS
B-ACD	33	8	401	0.083	33	0.1	0.1	10.770	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-C	753	188			753				
AB-D	200	50	489	0.408	202	1.3	0.8	13.874	B

D-ABC	227	57	460	0.495	232	2.3	1.1	17.708	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	160	40	1268	0.126	163	1.3	0.3	3.601	A
CD-A	940	235			940				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.1	0.1	9.748	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-C	631	158			631				
AB-D	167	42	523	0.320	168	0.8	0.5	11.197	B
D-ABC	190	48	495	0.385	192	1.1	0.7	13.149	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	89	22	1155	0.077	90	0.3	0.2	3.724	A
CD-A	829	207			829				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction mitigation.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 24/01/2017 09:11:57

- »2016, AM
- »2016, PM
- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev, PM
- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-ACD	0.2	10.21	0.13	B	0.1	9.55	0.08	A
Stream AB-D	0.2	8.57	0.18	A	0.1	8.19	0.11	A
Stream D-ABC	0.6	11.73	0.35	B	0.5	10.87	0.29	B
Stream CD-AB	0.6	5.03	0.20	A	0.2	4.42	0.08	A
<b>2024 Baseline</b>								
Stream B-ACD	0.2	13.77	0.17	B	0.1	10.93	0.10	B
Stream AB-D	0.4	11.63	0.25	B	0.2	10.41	0.15	B
Stream D-ABC	1.1	21.20	0.51	C	0.7	15.65	0.39	C
Stream CD-AB	3.2	6.07	0.49	A	0.6	3.80	0.17	A
<b>2024 Baseline+Dev</b>								
Stream B-ACD	0.2	14.26	0.18	B	0.1	12.32	0.11	B
Stream AB-D	0.6	13.31	0.36	B	1.3	19.27	0.54	C
Stream D-ABC	6.7	71.83	0.89	F	2.0	27.36	0.66	D
Stream CD-AB	5.5	7.79	0.62	A	1.1	3.75	0.24	A
<b>2029 Baseline</b>								
Stream B-ACD	0.2	14.08	0.18	B	0.1	11.13	0.10	B
Stream AB-D	0.4	11.86	0.26	B	0.2	10.61	0.16	B
Stream D-ABC	1.2	22.28	0.53	C	0.8	16.26	0.41	C

Stream CD-AB	3.7	6.49	0.52	A	0.7	3.79	0.19	A
<b>2029 Baseline+Dev</b>								
Stream B-ACD	0.3	14.59	0.19	B	0.1	12.57	0.11	B
Stream AB-D	0.6	13.61	0.37	B	1.3	19.90	0.55	C
Stream D-ABC	7.9	82.74	0.91	F	2.3	30.50	0.68	D
Stream CD-AB	6.7	8.99	0.67	A	1.3	3.77	0.26	A

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

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.45	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (W)		Major
B	Crane Gardens		Minor
C	North Hyde Road (E)		Major
D	Harold Avenue		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (W)	9.00		✓	2.20	210.0		-
C - North Hyde Road (E)	7.80				250.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.234	0.234	0.234	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.225	0.225	0.089	-	-
1	D-C	519	-	0.131	0.297	0.131	0.297	0.208	0.208	0.082	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	691	100.000
B - Crane Gardens		ONE HOUR	✓	51	100.000
C - North Hyde Road (E)		ONE HOUR	✓	505	100.000
D - Harold Avenue		ONE HOUR	✓	165	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	29	583	79
	B - Crane Gardens	0	0	36	15
	C - North Hyde Road (E)	461	35	0	9
	D - Harold Avenue	131	25	9	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.13	10.21	0.2	B	47	70
A-B					27	40
A-C					535	802
A-D					72	109
AB-C					568	852
AB-D	0.18	8.57	0.2	A	86	129



D-ABC	0.35	11.73	0.6	B	151	227
C-D					8	12
C-A					423	635
C-B					32	48
CD-AB	0.20	5.03	0.6	A	138	207
CD-A					460	690

## 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)	LOS
B-ACD	38	10	495	0.078	38	0.0	0.1	8.664	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-C	466	116			466				
AB-D	71	18	606	0.117	70	0.0	0.1	7.375	A
D-ABC	124	31	565	0.220	123	0.0	0.3	8.939	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	90	23	885	0.102	89	0.0	0.2	4.975	A
CD-A	399	100			399				

### 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)	LOS
B-ACD	46	11	473	0.097	46	0.1	0.1	9.256	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-C	556	139			556				
AB-D	84	21	589	0.143	84	0.1	0.2	7.841	A
D-ABC	148	37	546	0.272	148	0.3	0.4	9.936	A
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	127	32	926	0.137	126	0.2	0.4	4.957	A
CD-A	459	115			459				

### 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)	LOS
B-ACD	56	14	444	0.126	56	0.1	0.2	10.198	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-C	681	170			681				
AB-D	103	26	565	0.183	103	0.2	0.2	8.565	A

D-ABC	182	45	519	0.350	181	0.4	0.6	11.682	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	195	49	986	0.198	194	0.4	0.6	5.013	A
CD-A	522	130			522				

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)	LOS
B-ACD	56	14	444	0.126	56	0.2	0.2	10.206	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-C	682	170			682				
AB-D	103	26	565	0.183	103	0.2	0.2	8.574	A
D-ABC	182	45	519	0.350	182	0.6	0.6	11.729	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	196	49	987	0.199	196	0.6	0.6	5.025	A
CD-A	522	130			522				

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)	LOS
B-ACD	46	11	473	0.097	46	0.2	0.1	9.267	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-C	557	139			557				
AB-D	85	21	589	0.144	85	0.2	0.2	7.854	A
D-ABC	148	37	546	0.272	149	0.6	0.4	9.991	A
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	128	32	927	0.138	129	0.6	0.4	4.976	A
CD-A	459	115			459				

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)	LOS
B-ACD	38	10	495	0.078	38	0.1	0.1	8.683	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-C	466	117			466				
AB-D	71	18	606	0.117	71	0.2	0.1	7.398	A
D-ABC	124	31	565	0.220	125	0.4	0.3	9.001	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	91	23	887	0.103	92	0.4	0.2	4.993	A
CD-A	400	100			400				

# 2016, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.92	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2016	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	676	100.000
B - Crane Gardens		ONE HOUR	✓	33	100.000
C - North Hyde Road (E)		ONE HOUR	✓	582	100.000
D - Harold Avenue		ONE HOUR	✓	138	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	51	574	51
	B - Crane Gardens	0	0	28	5
	C - North Hyde Road (E)	554	20	0	8
	D - Harold Avenue	132	3	3	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
A - North Hyde Rd (W)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (E)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.08	9.55	0.1	A	30	45
A-B					47	70
A-C					527	790
A-D					47	70
AB-C					552	829
AB-D	0.11	8.19	0.1	A	51	77
D-ABC	0.29	10.87	0.5	B	127	190
C-D					7	11
C-A					508	763
C-B					18	28
CD-AB	0.08	4.42	0.2	A	61	91
CD-A					590	885

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.0	0.1	8.339	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-C	453	113			453				
AB-D	42	11	593	0.071	42	0.0	0.1	7.180	A
D-ABC	104	26	564	0.184	103	0.0	0.2	8.575	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	935	0.041	38	0.0	0.1	4.414	A
CD-A	494	124			494				

#### 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)	LOS
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B-ACD	30	7	479	0.062	30	0.1	0.1	8.811	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-C	541	135			541				
AB-D	50	13	573	0.088	50	0.1	0.1	7.575	A
D-ABC	124	31	544	0.228	124	0.2	0.3	9.419	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	55	14	987	0.056	55	0.1	0.1	4.251	A
CD-A	582	145			582				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.549	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-C	663	166			663				
AB-D	62	15	545	0.113	62	0.1	0.1	8.182	A
D-ABC	152	38	516	0.294	151	0.3	0.5	10.843	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1061	0.083	88	0.1	0.2	4.068	A
CD-A	692	173			692				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.553	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-C	663	166			663				
AB-D	62	15	545	0.113	62	0.1	0.1	8.185	A
D-ABC	152	38	516	0.294	152	0.5	0.5	10.872	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1062	0.083	88	0.2	0.2	4.069	A
CD-A	692	173			692				

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)	LOS
B-ACD	30	7	479	0.062	30	0.1	0.1	8.818	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-C	541	135			541				
AB-D	50	13	573	0.088	50	0.1	0.1	7.580	A

D-ABC	124	31	544	0.228	125	0.5	0.3	9.454	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	56	14	987	0.056	56	0.2	0.1	4.253	A
CD-A	582	146			582				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.1	0.1	8.348	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-C	453	113			453				
AB-D	42	11	593	0.071	42	0.1	0.1	7.191	A
D-ABC	104	26	564	0.184	104	0.3	0.3	8.624	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	936	0.041	39	0.1	0.1	4.416	A
CD-A	495	124			495				

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.82	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1096	100.000

B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (E)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	179	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	31	979	86
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (E)	893	38	0	10
	D - Harold Avenue	142	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.17	13.77	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					79	118
AB-C					934	1401
AB-D	0.25	11.63	0.4	B	94	140
D-ABC	0.51	21.20	1.1	C	164	246
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.49	6.07	3.2	A	370	555
CD-A					639	959

### 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)	LOS
B-ACD	41	10	429	0.096	41	0.0	0.1	10.186	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-C	766	192			766				
AB-D	77	19	530	0.145	76	0.0	0.2	8.715	A
D-ABC	135	34	482	0.279	133	0.0	0.4	11.285	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	180	45	1066	0.169	178	0.0	0.6	4.462	A
CD-A	646	162			646				

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)	LOS
B-ACD	49	12	395	0.125	49	0.1	0.2	11.445	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-C	915	229			915				
AB-D	92	23	497	0.184	91	0.2	0.2	9.749	A
D-ABC	161	40	444	0.362	160	0.4	0.6	13.904	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	301	75	1156	0.260	299	0.6	1.1	4.639	A
CD-A	687	172			687				

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)	LOS
B-ACD	61	15	348	0.174	60	0.2	0.2	13.739	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	95	24			95				
AB-C	1121	280			1121				
AB-D	112	28	453	0.248	112	0.2	0.4	11.597	B
D-ABC	197	49	384	0.514	195	0.6	1.1	20.786	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	617	154	1291	0.478	609	1.1	3.1	5.883	A
CD-A	593	148			593				

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)	LOS
B-ACD	61	15	348	0.174	61	0.2	0.2	13.765	B
A-B	34	9			34				
A-C	1078	269			1078				



A-D	95	24			95				
AB-C	1121	280			1121				
AB-D	112	28	453	0.248	112	0.4	0.4	11.629	B
D-ABC	197	49	383	0.514	197	1.1	1.1	21.204	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	629	157	1297	0.485	628	3.1	3.2	6.071	A
CD-A	582	146			582				

#### 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)	LOS
B-ACD	49	12	395	0.125	50	0.2	0.2	11.474	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-C	915	229			915				
AB-D	92	23	497	0.185	92	0.4	0.3	9.784	A
D-ABC	161	40	444	0.362	163	1.1	0.6	14.182	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	309	77	1164	0.265	317	3.2	1.2	4.752	A
CD-A	682	171			682				

#### 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)	LOS
B-ACD	41	10	429	0.096	42	0.2	0.1	10.224	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-C	767	192			767				
AB-D	77	19	530	0.145	77	0.3	0.2	8.756	A
D-ABC	135	34	482	0.279	136	0.6	0.4	11.449	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	184	46	1070	0.172	187	1.2	0.6	4.510	A
CD-A	645	161			645				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.98	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	889	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (E)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	149	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	55	779	55
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (E)	935	22	0	9
	D - Harold Avenue	143	3	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	10.93	0.1	B	32	48

A-B					50	76
A-C					715	1072
A-D					50	76
AB-C					742	1113
AB-D	0.15	10.41	0.2	B	55	83
D-ABC	0.39	15.65	0.7	C	137	205
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.17	3.80	0.6	A	140	210
CD-A					872	1308

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.0	0.1	9.014	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-C	609	152			609				
AB-D	45	11	525	0.086	45	0.0	0.1	8.236	A
D-ABC	112	28	498	0.225	111	0.0	0.3	10.206	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	69	17	1111	0.063	69	0.0	0.1	3.800	A
CD-A	760	190			760				

### 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)	LOS
B-ACD	31	8	438	0.072	31	0.1	0.1	9.736	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-C	727	182			727				
AB-D	54	13	492	0.110	54	0.1	0.1	9.032	A
D-ABC	134	33	464	0.288	133	0.3	0.4	11.949	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	115	29	1206	0.095	114	0.1	0.2	3.627	A
CD-A	876	219			876				

### 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)	LOS
B-ACD	39	10	401	0.096	38	0.1	0.1	10.923	B

A-B	61	15			61				
A-C	858	214			858				
A-D	61	15			61				
AB-C	891	223			891				
AB-D	66	17	446	0.148	66	0.1	0.2	10.403	B
D-ABC	164	41	417	0.393	163	0.4	0.7	15.533	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	233	58	1346	0.173	232	0.2	0.6	3.558	A
CD-A	980	245			980				

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)	LOS
B-ACD	39	10	401	0.096	39	0.1	0.1	10.930	B
A-B	61	15			61				
A-C	858	214			858				
A-D	61	15			61				
AB-C	891	223			891				
AB-D	66	17	446	0.148	66	0.2	0.2	10.412	B
D-ABC	164	41	417	0.394	164	0.7	0.7	15.653	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	235	59	1347	0.174	235	0.6	0.6	3.570	A
CD-A	979	245			979				

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)	LOS
B-ACD	31	8	438	0.072	32	0.1	0.1	9.745	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-C	727	182			727				
AB-D	54	13	492	0.110	54	0.2	0.1	9.048	A
D-ABC	134	33	464	0.288	135	0.7	0.5	12.059	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	116	29	1208	0.096	117	0.6	0.2	3.636	A
CD-A	877	219			877				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.1	0.1	9.028	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-C	609	152			609				
AB-D	45	11	525	0.086	45	0.1	0.1	8.254	A
D-ABC	112	28	498	0.225	113	0.5	0.3	10.299	B

C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	70	18	1113	0.063	71	0.2	0.1	3.801	A
CD-A	761	190			761				

## 2024 Baseline+Dev , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	6.35	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1138	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (E)		ONE HOUR	✓	907	100.000
D - Harold Avenue		ONE HOUR	✓	330	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	31	974	133
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (E)	858	38	0	11
	D - Harold Avenue	292	27	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.26	0.2	B	50	76
A-B					28	43
A-C					894	1341
A-D					122	183
AB-C					929	1394
AB-D	0.36	13.31	0.6	B	137	205
D-ABC	0.89	71.83	6.7	F	303	454
C-D					10	15
C-A					787	1181
C-B					35	52
CD-AB	0.62	7.79	5.5	A	478	717
CD-A					636	954

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.371	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-C	762	191			762				
AB-D	112	28	536	0.209	111	0.0	0.3	9.300	A
D-ABC	248	62	498	0.499	244	0.0	1.1	15.367	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	210	52	1122	0.187	207	0.0	0.7	4.332	A
CD-A	701	175			701				

#### 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)	LOS
B-ACD	49	12	387	0.128	49	0.1	0.2	11.718	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				
AB-C	911	228			911				
AB-D	134	33	505	0.265	133	0.3	0.4	10.661	B
D-ABC	297	74	463	0.641	294	1.1	1.8	22.947	C
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	369	92	1227	0.300	366	0.7	1.4	4.622	A
CD-A	721	180			721				

#### 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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.229	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-C	1115	279			1115				
AB-D	164	41	462	0.355	163	0.4	0.6	13.232	B
D-ABC	363	91	408	0.891	348	1.8	5.7	55.487	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	810	202	1376	0.588	796	1.4	4.8	6.974	A
CD-A	513	128			513				

#### 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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.260	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-C	1115	279			1115				
AB-D	164	41	462	0.355	164	0.6	0.6	13.306	B
D-ABC	363	91	408	0.891	359	5.7	6.7	71.827	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	860	215	1392	0.618	857	4.8	5.5	7.793	A
CD-A	474	118			474				

#### 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)	LOS
B-ACD	49	12	387	0.128	50	0.2	0.2	11.753	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				

AB-C	911	228			911				
AB-D	134	34	505	0.266	135	0.6	0.4	10.733	B
D-ABC	297	74	463	0.641	315	6.7	2.1	29.534	D
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	404	101	1251	0.323	419	5.5	1.7	4.898	A
CD-A	706	177			706				

#### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.405	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-C	763	191			763				
AB-D	112	28	536	0.210	113	0.4	0.3	9.374	A
D-ABC	248	62	498	0.499	252	2.1	1.1	16.372	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	218	54	1130	0.193	222	1.7	0.7	4.395	A
CD-A	701	175			701				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	2.69	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1061	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (E)		ONE HOUR	✓	962	100.000
D - Harold Avenue		ONE HOUR	✓	248	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	55	791	215
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (E)	931	22	0	9
	D - Harold Avenue	241	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.32	0.1	B	32	48
A-B					50	76
A-C					726	1089
A-D					197	296
AB-C					753	1130
AB-D	0.54	19.27	1.3	C	202	303
D-ABC	0.66	27.36	2.0	D	228	341
C-D					8	12
C-A					854	1281
C-B					20	30
CD-AB	0.24	3.75	1.1	A	193	289
CD-A					906	1359

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.0	0.1	9.627	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-C	618	154			618				
AB-D	166	41	526	0.315	164	0.0	0.5	10.875	B
D-ABC	187	47	500	0.373	184	0.0	0.6	12.441	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	85	21	1142	0.074	84	0.0	0.1	3.743	A
CD-A	814	204			814				

### 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)	LOS
B-ACD	31	8	405	0.078	31	0.1	0.1	10.603	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-C	738	184			738				
AB-D	198	49	493	0.401	197	0.5	0.7	13.334	B
D-ABC	223	56	466	0.478	222	0.6	1.0	16.086	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	149	37	1249	0.119	148	0.1	0.3	3.597	A
CD-A	927	232			927				

### 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)	LOS
B-ACD	39	10	360	0.107	38	0.1	0.1	12.309	B
A-B	61	15			61				
A-C	871	218			871				
A-D	237	59			237				
AB-C	904	226			904				
AB-D	242	61	447	0.541	240	0.7	1.2	18.909	C
D-ABC	273	68	417	0.655	269	1.0	1.9	26.160	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	338	85	1407	0.241	335	0.3	1.1	3.705	A
CD-A	977	244			977				

### 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)	LOS
B-ACD	39	10	360	0.107	39	0.1	0.1	12.319	B

A-B	61	15			61				
A-C	871	218			871				
A-D	237	59			237				
AB-C	904	226			904				
AB-D	242	61	447	0.541	242	1.2	1.3	19.268	C
D-ABC	273	68	417	0.655	273	1.9	2.0	27.365	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	345	86	1411	0.245	345	1.1	1.1	3.733	A
CD-A	974	243			974				

#### 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)	LOS
B-ACD	31	8	405	0.078	32	0.1	0.1	10.618	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-C	738	185			738				
AB-D	198	49	493	0.401	200	1.3	0.8	13.604	B
D-ABC	223	56	466	0.478	227	2.0	1.0	16.789	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	152	38	1255	0.121	156	1.1	0.3	3.614	A
CD-A	928	232			928				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.1	0.1	9.643	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-C	618	155			618				
AB-D	166	41	526	0.315	167	0.8	0.5	11.053	B
D-ABC	187	47	500	0.373	188	1.0	0.7	12.761	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	86	22	1146	0.075	87	0.3	0.2	3.746	A
CD-A	817	204			817				

## 2029 Baseline , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.96	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1114	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (E)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	183	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	32	994	88
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (E)	905	39	0	10
	D - Harold Avenue	145	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.08	0.2	B	52	78
A-B					29	44
A-C					912	1368
A-D					81	121
AB-C					949	1423
AB-D	0.26	11.86	0.4	B	96	144
D-ABC	0.53	22.28	1.2	C	168	252
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.52	6.49	3.7	A	397	595
CD-A					628	942

## 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)	LOS
B-ACD	43	11	426	0.101	42	0.0	0.1	10.304	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				
AB-C	778	195			778				
AB-D	79	20	527	0.150	78	0.0	0.2	8.802	A
D-ABC	138	34	480	0.287	136	0.0	0.4	11.451	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	190	48	1072	0.177	188	0.0	0.6	4.482	A
CD-A	649	162			649				

### 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)	LOS
B-ACD	51	13	392	0.131	51	0.1	0.2	11.616	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-C	929	232			929				
AB-D	94	24	495	0.191	94	0.2	0.3	9.881	A
D-ABC	165	41	441	0.373	164	0.4	0.6	14.223	B
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	320	80	1164	0.275	318	0.6	1.2	4.701	A
CD-A	683	171			683				

### 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)	LOS
B-ACD	63	16	344	0.182	62	0.2	0.2	14.045	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-C	1138	285			1138				
AB-D	116	29	449	0.257	115	0.3	0.4	11.825	B
D-ABC	201	50	379	0.532	199	0.6	1.2	21.779	C
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	666	166	1302	0.511	657	1.2	3.5	6.228	A
CD-A	562	141			562				

#### 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)	LOS
B-ACD	63	16	344	0.182	63	0.2	0.2	14.075	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-C	1138	285			1138				
AB-D	116	29	449	0.257	116	0.4	0.4	11.861	B
D-ABC	201	50	379	0.532	201	1.2	1.2	22.283	C
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	681	170	1309	0.520	680	3.5	3.7	6.489	A
CD-A	549	137			549				

#### 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)	LOS
B-ACD	51	13	392	0.131	52	0.2	0.2	11.650	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-C	930	232			930				
AB-D	94	24	495	0.191	95	0.4	0.3	9.919	A
D-ABC	165	41	441	0.373	167	1.2	0.7	14.540	B
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	329	82	1173	0.281	339	3.7	1.3	4.841	A
CD-A	677	169			677				

#### 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)	LOS
B-ACD	43	11	426	0.101	43	0.2	0.1	10.338	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				

AB-C	779	195			779				
AB-D	79	20	527	0.150	79	0.3	0.2	8.847	A
D-ABC	138	34	480	0.287	139	0.7	0.5	11.629	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	194	49	1076	0.181	197	1.3	0.7	4.536	A
CD-A	647	162			647				

## 2029 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.03	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	909	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (E)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	154	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	57	795	57
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (E)	950	22	0	9
	D - Harold Avenue	147	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	11.13	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					52	78
AB-C					758	1137
AB-D	0.16	10.61	0.2	B	58	87
D-ABC	0.41	16.26	0.8	C	141	212
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.19	3.79	0.7	A	152	229
CD-A					878	1317

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.0	0.1	9.109	A
A-B	43	11			43				
A-C	599	150			599				



A-D	43	11			43				
AB-C	622	155			622				
AB-D	47	12	523	0.091	47	0.0	0.1	8.319	A
D-ABC	116	29	495	0.234	115	0.0	0.3	10.367	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	74	19	1119	0.066	74	0.0	0.1	3.789	A
CD-A	770	192			770				

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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.865	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-C	742	186			742				
AB-D	57	14	489	0.116	56	0.1	0.1	9.154	A
D-ABC	138	35	461	0.300	138	0.3	0.5	12.221	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	124	31	1216	0.102	123	0.1	0.2	3.624	A
CD-A	885	221			885				

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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.123	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-C	909	227			909				
AB-D	69	17	442	0.157	69	0.1	0.2	10.599	B
D-ABC	170	42	413	0.411	168	0.5	0.7	16.113	C
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	257	64	1359	0.189	255	0.2	0.7	3.590	A
CD-A	979	245			979				

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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.135	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-C	909	227			909				
AB-D	69	17	442	0.157	69	0.2	0.2	10.612	B
D-ABC	170	42	413	0.411	170	0.7	0.8	16.255	C
C-D	10	2			10				
C-A	1046	261			1046				

C-B	24	6			24				
CD-AB	259	65	1361	0.190	259	0.7	0.7	3.602	A
CD-A	977	244			977				

#### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.878	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-C	743	186			743				
AB-D	57	14	489	0.116	57	0.2	0.1	9.170	A
D-ABC	138	35	461	0.300	140	0.8	0.5	12.345	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	125	31	1219	0.103	127	0.7	0.2	3.636	A
CD-A	885	221			885				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.1	0.1	9.123	A
A-B	43	11			43				
A-C	599	150			599				
A-D	43	11			43				
AB-C	622	155			622				
AB-D	47	12	523	0.091	48	0.1	0.1	8.341	A
D-ABC	116	29	495	0.234	116	0.5	0.3	10.472	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	75	19	1121	0.067	76	0.2	0.1	3.794	A
CD-A	771	193			771				

## 2029 Baseline+Dev , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	7.31	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1156	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (E)		ONE HOUR	✓	920	100.000
D - Harold Avenue		ONE HOUR	✓	335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	32	989	135
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (E)	870	39	0	11
	D - Harold Avenue	296	28	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.19	14.59	0.3	B	52	78
A-B					29	44
A-C					908	1361
A-D					124	186
AB-C					944	1416
AB-D	0.37	13.61	0.6	B	139	209

D-ABC	0.91	82.74	7.9	F	307	461
C-D					10	15
C-A					798	1197
C-B					36	54
CD-AB	0.67	8.99	6.7	A	516	775
CD-A					614	921

## 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.489	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-C	774	194			774				
AB-D	114	29	533	0.214	113	0.0	0.3	9.399	A
D-ABC	252	63	496	0.509	248	0.0	1.1	15.718	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	222	55	1129	0.196	219	0.0	0.7	4.357	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	51	13	384	0.134	51	0.1	0.2	11.901	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-C	925	231			925				
AB-D	137	34	502	0.272	136	0.3	0.4	10.818	B
D-ABC	301	75	460	0.655	298	1.1	1.9	23.911	C
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	393	98	1236	0.318	390	0.7	1.5	4.708	A
CD-A	712	178			712				

### 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)	LOS
B-ACD	63	16	334	0.188	62	0.2	0.2	14.559	B
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-C	1133	283			1133				
AB-D	167	42	458	0.365	166	0.4	0.6	13.529	B

D-ABC	369	92	403	0.915	351	1.9	6.5	61.103	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	874	219	1387	0.631	858	1.5	5.7	7.691	A
CD-A	466	116			466				

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)	LOS
B-ACD	63	16	334	0.188	63	0.2	0.3	14.593	B
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-C	1133	283			1133				
AB-D	167	42	458	0.365	167	0.6	0.6	13.612	B
D-ABC	369	92	403	0.915	363	6.5	7.9	82.745	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	938	234	1405	0.668	934	5.7	6.7	8.991	A
CD-A	414	104			414				

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)	LOS
B-ACD	51	13	384	0.134	52	0.3	0.2	11.935	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-C	925	231			925				
AB-D	137	34	502	0.273	138	0.6	0.4	10.899	B
D-ABC	301	75	460	0.655	324	7.9	2.3	32.839	D
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	440	110	1266	0.347	459	6.7	1.9	5.088	A
CD-A	691	173			691				

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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.528	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-C	775	194			775				
AB-D	114	29	533	0.215	115	0.4	0.3	9.478	A
D-ABC	252	63	496	0.509	257	2.3	1.2	16.847	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	231	58	1138	0.203	235	1.9	0.8	4.427	A
CD-A	701	175			701				

# 2029 Baseline+Dev, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	2.90	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1080	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (E)		ONE HOUR	✓	979	100.000
D - Harold Avenue		ONE HOUR	✓	253	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	57	807	216
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (E)	947	22	0	10
	D - Harold Avenue	245	4	4	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
A - North Hyde Rd (W)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (E)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.57	0.1	B	34	51
A-B					52	78
A-C					741	1111
A-D					198	297
AB-C					769	1153
AB-D	0.55	19.90	1.3	C	204	306
D-ABC	0.68	30.50	2.3	D	232	348
C-D					9	14
C-A					869	1303
C-B					20	30
CD-AB	0.26	3.77	1.3	A	204	306
CD-A					913	1370

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.0	0.1	9.730	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-C	631	158			631				
AB-D	167	42	523	0.320	165	0.0	0.5	11.008	B
D-ABC	190	48	495	0.385	188	0.0	0.7	12.784	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	88	22	1151	0.076	87	0.0	0.2	3.722	A
CD-A	827	207			827				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----

B-ACD	33	8	401	0.083	33	0.1	0.1	10.754	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-C	753	188			753				
AB-D	200	50	489	0.408	199	0.5	0.7	13.576	B
D-ABC	227	57	460	0.494	226	0.7	1.0	16.810	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	155	39	1261	0.123	155	0.2	0.3	3.581	A
CD-A	938	235			938				

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)	LOS
B-ACD	41	10	356	0.115	41	0.1	0.1	12.558	B
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-C	923	231			923				
AB-D	244	61	443	0.552	242	0.7	1.3	19.502	C
D-ABC	279	70	407	0.684	274	1.0	2.2	28.788	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	361	90	1422	0.254	358	0.3	1.2	3.734	A
CD-A	975	244			975				

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)	LOS
B-ACD	41	10	356	0.115	41	0.1	0.1	12.570	B
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-C	923	231			923				
AB-D	244	61	443	0.552	244	1.3	1.3	19.899	C
D-ABC	279	70	407	0.684	278	2.2	2.3	30.496	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	370	92	1427	0.259	370	1.2	1.3	3.768	A
CD-A	971	243			971				

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)	LOS
B-ACD	33	8	401	0.083	33	0.1	0.1	10.770	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-C	753	188			753				
AB-D	200	50	489	0.408	202	1.3	0.8	13.874	B



D-ABC	227	57	460	0.495	232	2.3	1.1	17.708	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	160	40	1268	0.126	163	1.3	0.3	3.601	A
CD-A	940	235			940				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.1	0.1	9.748	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-C	631	158			631				
AB-D	167	42	523	0.320	168	0.8	0.5	11.197	B
D-ABC	190	48	495	0.385	192	1.1	0.7	13.149	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	89	22	1155	0.077	90	0.3	0.2	3.724	A
CD-A	829	207			829				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction mitigation.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 24/01/2017 09:11:57

- »2016, AM
- »2016, PM
- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev, PM
- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-ACD	0.2	10.21	0.13	B	0.1	9.55	0.08	A
Stream AB-D	0.2	8.57	0.18	A	0.1	8.19	0.11	A
Stream D-ABC	0.6	11.73	0.35	B	0.5	10.87	0.29	B
Stream CD-AB	0.6	5.03	0.20	A	0.2	4.42	0.08	A
<b>2024 Baseline</b>								
Stream B-ACD	0.2	13.77	0.17	B	0.1	10.93	0.10	B
Stream AB-D	0.4	11.63	0.25	B	0.2	10.41	0.15	B
Stream D-ABC	1.1	21.20	0.51	C	0.7	15.65	0.39	C
Stream CD-AB	3.2	6.07	0.49	A	0.6	3.80	0.17	A
<b>2024 Baseline+Dev</b>								
Stream B-ACD	0.2	14.26	0.18	B	0.1	12.32	0.11	B
Stream AB-D	0.6	13.31	0.36	B	1.3	19.27	0.54	C
Stream D-ABC	6.7	71.83	0.89	F	2.0	27.36	0.66	D
Stream CD-AB	5.5	7.79	0.62	A	1.1	3.75	0.24	A
<b>2029 Baseline</b>								
Stream B-ACD	0.2	14.08	0.18	B	0.1	11.13	0.10	B
Stream AB-D	0.4	11.86	0.26	B	0.2	10.61	0.16	B
Stream D-ABC	1.2	22.28	0.53	C	0.8	16.26	0.41	C

Stream CD-AB	3.7	6.49	0.52	A	0.7	3.79	0.19	A
<b>2029 Baseline+Dev</b>								
Stream B-ACD	0.3	14.59	0.19	B	0.1	12.57	0.11	B
Stream AB-D	0.6	13.61	0.37	B	1.3	19.90	0.55	C
Stream D-ABC	7.9	82.74	0.91	F	2.3	30.50	0.68	D
Stream CD-AB	6.7	8.99	0.67	A	1.3	3.77	0.26	A

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

## File summary

### File Description

<b>Title</b>	(untitled)
<b>Location</b>	
<b>Site number</b>	
<b>Date</b>	19/11/2016
<b>Version</b>	
<b>Status</b>	(new file)
<b>Identifier</b>	
<b>Client</b>	
<b>Jobnumber</b>	
<b>Enumerator</b>	DEMETRIS-PSYLLIDemetris Psyllides
<b>Description</b>	

## 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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.45	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (W)		Major
B	Crane Gardens		Minor
C	North Hyde Road (E)		Major
D	Harold Avenue		Minor

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (W)	9.00		✓	2.20	210.0		-
C - North Hyde Road (E)	7.80				250.0	✓	0.00

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

### Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.234	0.234	0.234	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.225	0.225	0.089	-	-
1	D-C	519	-	0.131	0.297	0.131	0.297	0.208	0.208	0.082	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	691	100.000
B - Crane Gardens		ONE HOUR	✓	51	100.000
C - North Hyde Road (E)		ONE HOUR	✓	505	100.000
D - Harold Avenue		ONE HOUR	✓	165	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	29	583	79
	B - Crane Gardens	0	0	36	15
	C - North Hyde Road (E)	461	35	0	9
	D - Harold Avenue	131	25	9	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.13	10.21	0.2	B	47	70
A-B					27	40
A-C					535	802
A-D					72	109
AB-C					568	852
AB-D	0.18	8.57	0.2	A	86	129

D-ABC	0.35	11.73	0.6	B	151	227
C-D					8	12
C-A					423	635
C-B					32	48
CD-AB	0.20	5.03	0.6	A	138	207
CD-A					460	690

## 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)	LOS
B-ACD	38	10	495	0.078	38	0.0	0.1	8.664	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-C	466	116			466				
AB-D	71	18	606	0.117	70	0.0	0.1	7.375	A
D-ABC	124	31	565	0.220	123	0.0	0.3	8.939	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	90	23	885	0.102	89	0.0	0.2	4.975	A
CD-A	399	100			399				

### 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)	LOS
B-ACD	46	11	473	0.097	46	0.1	0.1	9.256	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-C	556	139			556				
AB-D	84	21	589	0.143	84	0.1	0.2	7.841	A
D-ABC	148	37	546	0.272	148	0.3	0.4	9.936	A
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	127	32	926	0.137	126	0.2	0.4	4.957	A
CD-A	459	115			459				

### 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)	LOS
B-ACD	56	14	444	0.126	56	0.1	0.2	10.198	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-C	681	170			681				
AB-D	103	26	565	0.183	103	0.2	0.2	8.565	A

D-ABC	182	45	519	0.350	181	0.4	0.6	11.682	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	195	49	986	0.198	194	0.4	0.6	5.013	A
CD-A	522	130			522				

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)	LOS
B-ACD	56	14	444	0.126	56	0.2	0.2	10.206	B
A-B	32	8			32				
A-C	642	160			642				
A-D	87	22			87				
AB-C	682	170			682				
AB-D	103	26	565	0.183	103	0.2	0.2	8.574	A
D-ABC	182	45	519	0.350	182	0.6	0.6	11.729	B
C-D	10	2			10				
C-A	508	127			508				
C-B	39	10			39				
CD-AB	196	49	987	0.199	196	0.6	0.6	5.025	A
CD-A	522	130			522				

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)	LOS
B-ACD	46	11	473	0.097	46	0.2	0.1	9.267	A
A-B	26	7			26				
A-C	524	131			524				
A-D	71	18			71				
AB-C	557	139			557				
AB-D	85	21	589	0.144	85	0.2	0.2	7.854	A
D-ABC	148	37	546	0.272	149	0.6	0.4	9.991	A
C-D	8	2			8				
C-A	414	104			414				
C-B	31	8			31				
CD-AB	128	32	927	0.138	129	0.6	0.4	4.976	A
CD-A	459	115			459				

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)	LOS
B-ACD	38	10	495	0.078	38	0.1	0.1	8.683	A
A-B	22	5			22				
A-C	439	110			439				
A-D	59	15			59				
AB-C	466	117			466				
AB-D	71	18	606	0.117	71	0.2	0.1	7.398	A
D-ABC	124	31	565	0.220	125	0.4	0.3	9.001	A
C-D	7	2			7				
C-A	347	87			347				
C-B	26	7			26				
CD-AB	91	23	887	0.103	92	0.4	0.2	4.993	A
CD-A	400	100			400				

# 2016, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.92	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2016	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	676	100.000
B - Crane Gardens		ONE HOUR	✓	33	100.000
C - North Hyde Road (E)		ONE HOUR	✓	582	100.000
D - Harold Avenue		ONE HOUR	✓	138	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	51	574	51
	B - Crane Gardens	0	0	28	5
	C - North Hyde Road (E)	554	20	0	8
	D - Harold Avenue	132	3	3	0

## Vehicle Mix



## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
A - North Hyde Rd (W)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (E)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.08	9.55	0.1	A	30	45
A-B					47	70
A-C					527	790
A-D					47	70
AB-C					552	829
AB-D	0.11	8.19	0.1	A	51	77
D-ABC	0.29	10.87	0.5	B	127	190
C-D					7	11
C-A					508	763
C-B					18	28
CD-AB	0.08	4.42	0.2	A	61	91
CD-A					590	885

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.0	0.1	8.339	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-C	453	113			453				
AB-D	42	11	593	0.071	42	0.0	0.1	7.180	A
D-ABC	104	26	564	0.184	103	0.0	0.2	8.575	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	935	0.041	38	0.0	0.1	4.414	A
CD-A	494	124			494				

#### 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)	LOS
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B-ACD	30	7	479	0.062	30	0.1	0.1	8.811	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-C	541	135			541				
AB-D	50	13	573	0.088	50	0.1	0.1	7.575	A
D-ABC	124	31	544	0.228	124	0.2	0.3	9.419	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	55	14	987	0.056	55	0.1	0.1	4.251	A
CD-A	582	145			582				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.549	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-C	663	166			663				
AB-D	62	15	545	0.113	62	0.1	0.1	8.182	A
D-ABC	152	38	516	0.294	151	0.3	0.5	10.843	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1061	0.083	88	0.1	0.2	4.068	A
CD-A	692	173			692				

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)	LOS
B-ACD	36	9	451	0.081	36	0.1	0.1	9.553	A
A-B	56	14			56				
A-C	632	158			632				
A-D	56	14			56				
AB-C	663	166			663				
AB-D	62	15	545	0.113	62	0.1	0.1	8.185	A
D-ABC	152	38	516	0.294	152	0.5	0.5	10.872	B
C-D	9	2			9				
C-A	610	152			610				
C-B	22	6			22				
CD-AB	88	22	1062	0.083	88	0.2	0.2	4.069	A
CD-A	692	173			692				

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)	LOS
B-ACD	30	7	479	0.062	30	0.1	0.1	8.818	A
A-B	46	11			46				
A-C	516	129			516				
A-D	46	11			46				
AB-C	541	135			541				
AB-D	50	13	573	0.088	50	0.1	0.1	7.580	A

D-ABC	124	31	544	0.228	125	0.5	0.3	9.454	A
C-D	7	2			7				
C-A	498	125			498				
C-B	18	4			18				
CD-AB	56	14	987	0.056	56	0.2	0.1	4.253	A
CD-A	582	146			582				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	25	6	499	0.050	25	0.1	0.1	8.348	A
A-B	38	10			38				
A-C	432	108			432				
A-D	38	10			38				
AB-C	453	113			453				
AB-D	42	11	593	0.071	42	0.1	0.1	7.191	A
D-ABC	104	26	564	0.184	104	0.3	0.3	8.624	A
C-D	6	2			6				
C-A	417	104			417				
C-B	15	4			15				
CD-AB	39	10	936	0.041	39	0.1	0.1	4.416	A
CD-A	495	124			495				

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.82	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1096	100.000

B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (E)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	179	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	31	979	86
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (E)	893	38	0	10
	D - Harold Avenue	142	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.17	13.77	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					79	118
AB-C					934	1401
AB-D	0.25	11.63	0.4	B	94	140
D-ABC	0.51	21.20	1.1	C	164	246
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.49	6.07	3.2	A	370	555
CD-A					639	959

### 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)	LOS
B-ACD	41	10	429	0.096	41	0.0	0.1	10.186	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-C	766	192			766				
AB-D	77	19	530	0.145	76	0.0	0.2	8.715	A
D-ABC	135	34	482	0.279	133	0.0	0.4	11.285	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	180	45	1066	0.169	178	0.0	0.6	4.462	A
CD-A	646	162			646				

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)	LOS
B-ACD	49	12	395	0.125	49	0.1	0.2	11.445	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-C	915	229			915				
AB-D	92	23	497	0.184	91	0.2	0.2	9.749	A
D-ABC	161	40	444	0.362	160	0.4	0.6	13.904	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	301	75	1156	0.260	299	0.6	1.1	4.639	A
CD-A	687	172			687				

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)	LOS
B-ACD	61	15	348	0.174	60	0.2	0.2	13.739	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	95	24			95				
AB-C	1121	280			1121				
AB-D	112	28	453	0.248	112	0.2	0.4	11.597	B
D-ABC	197	49	384	0.514	195	0.6	1.1	20.786	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	617	154	1291	0.478	609	1.1	3.1	5.883	A
CD-A	593	148			593				

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)	LOS
B-ACD	61	15	348	0.174	61	0.2	0.2	13.765	B
A-B	34	9			34				
A-C	1078	269			1078				

A-D	95	24			95				
AB-C	1121	280			1121				
AB-D	112	28	453	0.248	112	0.4	0.4	11.629	B
D-ABC	197	49	383	0.514	197	1.1	1.1	21.204	C
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	629	157	1297	0.485	628	3.1	3.2	6.071	A
CD-A	582	146			582				

#### 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)	LOS
B-ACD	49	12	395	0.125	50	0.2	0.2	11.474	B
A-B	28	7			28				
A-C	880	220			880				
A-D	77	19			77				
AB-C	915	229			915				
AB-D	92	23	497	0.185	92	0.4	0.3	9.784	A
D-ABC	161	40	444	0.362	163	1.1	0.6	14.182	B
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	309	77	1164	0.265	317	3.2	1.2	4.752	A
CD-A	682	171			682				

#### 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)	LOS
B-ACD	41	10	429	0.096	42	0.2	0.1	10.224	B
A-B	23	6			23				
A-C	737	184			737				
A-D	65	16			65				
AB-C	767	192			767				
AB-D	77	19	530	0.145	77	0.3	0.2	8.756	A
D-ABC	135	34	482	0.279	136	0.6	0.4	11.449	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	184	46	1070	0.172	187	1.2	0.6	4.510	A
CD-A	645	161			645				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	0.98	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	889	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (E)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	149	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	55	779	55
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (E)	935	22	0	9
	D - Harold Avenue	143	3	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	10.93	0.1	B	32	48

A-B					50	76
A-C					715	1072
A-D					50	76
AB-C					742	1113
AB-D	0.15	10.41	0.2	B	55	83
D-ABC	0.39	15.65	0.7	C	137	205
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.17	3.80	0.6	A	140	210
CD-A					872	1308

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.0	0.1	9.014	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-C	609	152			609				
AB-D	45	11	525	0.086	45	0.0	0.1	8.236	A
D-ABC	112	28	498	0.225	111	0.0	0.3	10.206	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	69	17	1111	0.063	69	0.0	0.1	3.800	A
CD-A	760	190			760				

### 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)	LOS
B-ACD	31	8	438	0.072	31	0.1	0.1	9.736	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-C	727	182			727				
AB-D	54	13	492	0.110	54	0.1	0.1	9.032	A
D-ABC	134	33	464	0.288	133	0.3	0.4	11.949	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	115	29	1206	0.095	114	0.1	0.2	3.627	A
CD-A	876	219			876				

### 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)	LOS
B-ACD	39	10	401	0.096	38	0.1	0.1	10.923	B



A-B	61	15			61				
A-C	858	214			858				
A-D	61	15			61				
AB-C	891	223			891				
AB-D	66	17	446	0.148	66	0.1	0.2	10.403	B
D-ABC	164	41	417	0.393	163	0.4	0.7	15.533	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	233	58	1346	0.173	232	0.2	0.6	3.558	A
CD-A	980	245			980				

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)	LOS
B-ACD	39	10	401	0.096	39	0.1	0.1	10.930	B
A-B	61	15			61				
A-C	858	214			858				
A-D	61	15			61				
AB-C	891	223			891				
AB-D	66	17	446	0.148	66	0.2	0.2	10.412	B
D-ABC	164	41	417	0.394	164	0.7	0.7	15.653	C
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	235	59	1347	0.174	235	0.6	0.6	3.570	A
CD-A	979	245			979				

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)	LOS
B-ACD	31	8	438	0.072	32	0.1	0.1	9.745	A
A-B	49	12			49				
A-C	700	175			700				
A-D	49	12			49				
AB-C	727	182			727				
AB-D	54	13	492	0.110	54	0.2	0.1	9.048	A
D-ABC	134	33	464	0.288	135	0.7	0.5	12.059	B
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	116	29	1208	0.096	117	0.6	0.2	3.636	A
CD-A	877	219			877				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	465	0.057	26	0.1	0.1	9.028	A
A-B	41	10			41				
A-C	586	147			586				
A-D	41	10			41				
AB-C	609	152			609				
AB-D	45	11	525	0.086	45	0.1	0.1	8.254	A
D-ABC	112	28	498	0.225	113	0.5	0.3	10.299	B

C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	70	18	1113	0.063	71	0.2	0.1	3.801	A
CD-A	761	190			761				

# 2024 Baseline+Dev , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	6.35	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1138	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (E)		ONE HOUR	✓	907	100.000
D - Harold Avenue		ONE HOUR	✓	330	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	31	974	133
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (E)	858	38	0	11
	D - Harold Avenue	292	27	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.26	0.2	B	50	76
A-B					28	43
A-C					894	1341
A-D					122	183
AB-C					929	1394
AB-D	0.36	13.31	0.6	B	137	205
D-ABC	0.89	71.83	6.7	F	303	454
C-D					10	15
C-A					787	1181
C-B					35	52
CD-AB	0.62	7.79	5.5	A	478	717
CD-A					636	954

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.371	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-C	762	191			762				
AB-D	112	28	536	0.209	111	0.0	0.3	9.300	A
D-ABC	248	62	498	0.499	244	0.0	1.1	15.367	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	210	52	1122	0.187	207	0.0	0.7	4.332	A
CD-A	701	175			701				

#### 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)	LOS
B-ACD	49	12	387	0.128	49	0.1	0.2	11.718	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				
AB-C	911	228			911				
AB-D	134	33	505	0.265	133	0.3	0.4	10.661	B
D-ABC	297	74	463	0.641	294	1.1	1.8	22.947	C
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	369	92	1227	0.300	366	0.7	1.4	4.622	A
CD-A	721	180			721				

#### 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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.229	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-C	1115	279			1115				
AB-D	164	41	462	0.355	163	0.4	0.6	13.232	B
D-ABC	363	91	408	0.891	348	1.8	5.7	55.487	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	810	202	1376	0.588	796	1.4	4.8	6.974	A
CD-A	513	128			513				

#### 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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.260	B
A-B	34	9			34				
A-C	1072	268			1072				
A-D	146	37			146				
AB-C	1115	279			1115				
AB-D	164	41	462	0.355	164	0.6	0.6	13.306	B
D-ABC	363	91	408	0.891	359	5.7	6.7	71.827	F
C-D	12	3			12				
C-A	945	236			945				
C-B	42	10			42				
CD-AB	860	215	1392	0.618	857	4.8	5.5	7.793	A
CD-A	474	118			474				

#### 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)	LOS
B-ACD	49	12	387	0.128	50	0.2	0.2	11.753	B
A-B	28	7			28				
A-C	876	219			876				
A-D	120	30			120				

AB-C	911	228			911				
AB-D	134	34	505	0.266	135	0.6	0.4	10.733	B
D-ABC	297	74	463	0.641	315	6.7	2.1	29.534	D
C-D	10	2			10				
C-A	771	193			771				
C-B	34	9			34				
CD-AB	404	101	1251	0.323	419	5.5	1.7	4.898	A
CD-A	706	177			706				

#### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.405	B
A-B	23	6			23				
A-C	733	183			733				
A-D	100	25			100				
AB-C	763	191			763				
AB-D	112	28	536	0.210	113	0.4	0.3	9.374	A
D-ABC	248	62	498	0.499	252	2.1	1.1	16.372	C
C-D	8	2			8				
C-A	646	161			646				
C-B	29	7			29				
CD-AB	218	54	1130	0.193	222	1.7	0.7	4.395	A
CD-A	701	175			701				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	2.69	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1061	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (E)		ONE HOUR	✓	962	100.000
D - Harold Avenue		ONE HOUR	✓	248	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	55	791	215
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (E)	931	22	0	9
	D - Harold Avenue	241	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.32	0.1	B	32	48
A-B					50	76
A-C					726	1089
A-D					197	296
AB-C					753	1130
AB-D	0.54	19.27	1.3	C	202	303
D-ABC	0.66	27.36	2.0	D	228	341
C-D					8	12
C-A					854	1281
C-B					20	30
CD-AB	0.24	3.75	1.1	A	193	289
CD-A					906	1359

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.0	0.1	9.627	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-C	618	154			618				
AB-D	166	41	526	0.315	164	0.0	0.5	10.875	B
D-ABC	187	47	500	0.373	184	0.0	0.6	12.441	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	85	21	1142	0.074	84	0.0	0.1	3.743	A
CD-A	814	204			814				

### 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)	LOS
B-ACD	31	8	405	0.078	31	0.1	0.1	10.603	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-C	738	184			738				
AB-D	198	49	493	0.401	197	0.5	0.7	13.334	B
D-ABC	223	56	466	0.478	222	0.6	1.0	16.086	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	149	37	1249	0.119	148	0.1	0.3	3.597	A
CD-A	927	232			927				

### 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)	LOS
B-ACD	39	10	360	0.107	38	0.1	0.1	12.309	B
A-B	61	15			61				
A-C	871	218			871				
A-D	237	59			237				
AB-C	904	226			904				
AB-D	242	61	447	0.541	240	0.7	1.2	18.909	C
D-ABC	273	68	417	0.655	269	1.0	1.9	26.160	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	338	85	1407	0.241	335	0.3	1.1	3.705	A
CD-A	977	244			977				

### 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)	LOS
B-ACD	39	10	360	0.107	39	0.1	0.1	12.319	B

A-B	61	15			61				
A-C	871	218			871				
A-D	237	59			237				
AB-C	904	226			904				
AB-D	242	61	447	0.541	242	1.2	1.3	19.268	C
D-ABC	273	68	417	0.655	273	1.9	2.0	27.365	D
C-D	10	2			10				
C-A	1025	256			1025				
C-B	24	6			24				
CD-AB	345	86	1411	0.245	345	1.1	1.1	3.733	A
CD-A	974	243			974				

#### 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)	LOS
B-ACD	31	8	405	0.078	32	0.1	0.1	10.618	B
A-B	49	12			49				
A-C	711	178			711				
A-D	193	48			193				
AB-C	738	185			738				
AB-D	198	49	493	0.401	200	1.3	0.8	13.604	B
D-ABC	223	56	466	0.478	227	2.0	1.0	16.789	C
C-D	8	2			8				
C-A	837	209			837				
C-B	20	5			20				
CD-AB	152	38	1255	0.121	156	1.1	0.3	3.614	A
CD-A	928	232			928				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	437	0.060	26	0.1	0.1	9.643	A
A-B	41	10			41				
A-C	596	149			596				
A-D	162	40			162				
AB-C	618	155			618				
AB-D	166	41	526	0.315	167	0.8	0.5	11.053	B
D-ABC	187	47	500	0.373	188	1.0	0.7	12.761	B
C-D	7	2			7				
C-A	701	175			701				
C-B	17	4			17				
CD-AB	86	22	1146	0.075	87	0.3	0.2	3.746	A
CD-A	817	204			817				

## 2029 Baseline , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions



Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.96	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1114	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (E)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	183	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	32	994	88
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (E)	905	39	0	10
	D - Harold Avenue	145	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.08	0.2	B	52	78
A-B					29	44
A-C					912	1368
A-D					81	121
AB-C					949	1423
AB-D	0.26	11.86	0.4	B	96	144
D-ABC	0.53	22.28	1.2	C	168	252
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.52	6.49	3.7	A	397	595
CD-A					628	942

## 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)	LOS
B-ACD	43	11	426	0.101	42	0.0	0.1	10.304	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				
AB-C	778	195			778				
AB-D	79	20	527	0.150	78	0.0	0.2	8.802	A
D-ABC	138	34	480	0.287	136	0.0	0.4	11.451	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	190	48	1072	0.177	188	0.0	0.6	4.482	A
CD-A	649	162			649				

### 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)	LOS
B-ACD	51	13	392	0.131	51	0.1	0.2	11.616	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-C	929	232			929				
AB-D	94	24	495	0.191	94	0.2	0.3	9.881	A
D-ABC	165	41	441	0.373	164	0.4	0.6	14.223	B
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	320	80	1164	0.275	318	0.6	1.2	4.701	A
CD-A	683	171			683				

### 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)	LOS
B-ACD	63	16	344	0.182	62	0.2	0.2	14.045	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-C	1138	285			1138				
AB-D	116	29	449	0.257	115	0.3	0.4	11.825	B
D-ABC	201	50	379	0.532	199	0.6	1.2	21.779	C
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	666	166	1302	0.511	657	1.2	3.5	6.228	A
CD-A	562	141			562				

### 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)	LOS
B-ACD	63	16	344	0.182	63	0.2	0.2	14.075	B
A-B	35	9			35				
A-C	1094	274			1094				
A-D	97	24			97				
AB-C	1138	285			1138				
AB-D	116	29	449	0.257	116	0.4	0.4	11.861	B
D-ABC	201	50	379	0.532	201	1.2	1.2	22.283	C
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	681	170	1309	0.520	680	3.5	3.7	6.489	A
CD-A	549	137			549				

### 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)	LOS
B-ACD	51	13	392	0.131	52	0.2	0.2	11.650	B
A-B	29	7			29				
A-C	894	223			894				
A-D	79	20			79				
AB-C	930	232			930				
AB-D	94	24	495	0.191	95	0.4	0.3	9.919	A
D-ABC	165	41	441	0.373	167	1.2	0.7	14.540	B
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	329	82	1173	0.281	339	3.7	1.3	4.841	A
CD-A	677	169			677				

### 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)	LOS
B-ACD	43	11	426	0.101	43	0.2	0.1	10.338	B
A-B	24	6			24				
A-C	748	187			748				
A-D	66	17			66				

AB-C	779	195			779				
AB-D	79	20	527	0.150	79	0.3	0.2	8.847	A
D-ABC	138	34	480	0.287	139	0.7	0.5	11.629	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	194	49	1076	0.181	197	1.3	0.7	4.536	A
CD-A	647	162			647				

## 2029 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	1.03	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	909	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (E)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	154	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	57	795	57
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (E)	950	22	0	9
	D - Harold Avenue	147	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.10	11.13	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					52	78
AB-C					758	1137
AB-D	0.16	10.61	0.2	B	58	87
D-ABC	0.41	16.26	0.8	C	141	212
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.19	3.79	0.7	A	152	229
CD-A					878	1317

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.0	0.1	9.109	A
A-B	43	11			43				
A-C	599	150			599				

A-D	43	11			43				
AB-C	622	155			622				
AB-D	47	12	523	0.091	47	0.0	0.1	8.319	A
D-ABC	116	29	495	0.234	115	0.0	0.3	10.367	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	74	19	1119	0.066	74	0.0	0.1	3.789	A
CD-A	770	192			770				

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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.865	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-C	742	186			742				
AB-D	57	14	489	0.116	56	0.1	0.1	9.154	A
D-ABC	138	35	461	0.300	138	0.3	0.5	12.221	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	124	31	1216	0.102	123	0.1	0.2	3.624	A
CD-A	885	221			885				

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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.123	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-C	909	227			909				
AB-D	69	17	442	0.157	69	0.1	0.2	10.599	B
D-ABC	170	42	413	0.411	168	0.5	0.7	16.113	C
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	257	64	1359	0.189	255	0.2	0.7	3.590	A
CD-A	979	245			979				

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)	LOS
B-ACD	41	10	396	0.103	41	0.1	0.1	11.135	B
A-B	63	16			63				
A-C	875	219			875				
A-D	63	16			63				
AB-C	909	227			909				
AB-D	69	17	442	0.157	69	0.2	0.2	10.612	B
D-ABC	170	42	413	0.411	170	0.7	0.8	16.255	C
C-D	10	2			10				
C-A	1046	261			1046				

C-B	24	6			24				
CD-AB	259	65	1361	0.190	259	0.7	0.7	3.602	A
CD-A	977	244			977				

#### 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)	LOS
B-ACD	33	8	434	0.077	33	0.1	0.1	9.878	A
A-B	51	13			51				
A-C	715	179			715				
A-D	51	13			51				
AB-C	743	186			743				
AB-D	57	14	489	0.116	57	0.2	0.1	9.170	A
D-ABC	138	35	461	0.300	140	0.8	0.5	12.345	B
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	125	31	1219	0.103	127	0.7	0.2	3.636	A
CD-A	885	221			885				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	462	0.060	28	0.1	0.1	9.123	A
A-B	43	11			43				
A-C	599	150			599				
A-D	43	11			43				
AB-C	622	155			622				
AB-D	47	12	523	0.091	48	0.1	0.1	8.341	A
D-ABC	116	29	495	0.234	116	0.5	0.3	10.472	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	75	19	1121	0.067	76	0.2	0.1	3.794	A
CD-A	771	193			771				

## 2029 Baseline+Dev , AM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	7.31	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1156	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (E)		ONE HOUR	✓	920	100.000
D - Harold Avenue		ONE HOUR	✓	335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	32	989	135
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (E)	870	39	0	11
	D - Harold Avenue	296	28	11	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (E)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.19	14.59	0.3	B	52	78
A-B					29	44
A-C					908	1361
A-D					124	186
AB-C					944	1416
AB-D	0.37	13.61	0.6	B	139	209



D-ABC	0.91	82.74	7.9	F	307	461
C-D					10	15
C-A					798	1197
C-B					36	54
CD-AB	0.67	8.99	6.7	A	516	775
CD-A					614	921

## 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.489	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-C	774	194			774				
AB-D	114	29	533	0.214	113	0.0	0.3	9.399	A
D-ABC	252	63	496	0.509	248	0.0	1.1	15.718	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	222	55	1129	0.196	219	0.0	0.7	4.357	A
CD-A	702	176			702				

### 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)	LOS
B-ACD	51	13	384	0.134	51	0.1	0.2	11.901	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-C	925	231			925				
AB-D	137	34	502	0.272	136	0.3	0.4	10.818	B
D-ABC	301	75	460	0.655	298	1.1	1.9	23.911	C
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	393	98	1236	0.318	390	0.7	1.5	4.708	A
CD-A	712	178			712				

### 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)	LOS
B-ACD	63	16	334	0.188	62	0.2	0.2	14.559	B
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-C	1133	283			1133				
AB-D	167	42	458	0.365	166	0.4	0.6	13.529	B

D-ABC	369	92	403	0.915	351	1.9	6.5	61.103	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	874	219	1387	0.631	858	1.5	5.7	7.691	A
CD-A	466	116			466				

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)	LOS
B-ACD	63	16	334	0.188	63	0.2	0.3	14.593	B
A-B	35	9			35				
A-C	1089	272			1089				
A-D	149	37			149				
AB-C	1133	283			1133				
AB-D	167	42	458	0.365	167	0.6	0.6	13.612	B
D-ABC	369	92	403	0.915	363	6.5	7.9	82.745	F
C-D	12	3			12				
C-A	958	239			958				
C-B	43	11			43				
CD-AB	938	234	1405	0.668	934	5.7	6.7	8.991	A
CD-A	414	104			414				

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)	LOS
B-ACD	51	13	384	0.134	52	0.3	0.2	11.935	B
A-B	29	7			29				
A-C	889	222			889				
A-D	121	30			121				
AB-C	925	231			925				
AB-D	137	34	502	0.273	138	0.6	0.4	10.899	B
D-ABC	301	75	460	0.655	324	7.9	2.3	32.839	D
C-D	10	2			10				
C-A	782	196			782				
C-B	35	9			35				
CD-AB	440	110	1266	0.347	459	6.7	1.9	5.088	A
CD-A	691	173			691				

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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.528	B
A-B	24	6			24				
A-C	745	186			745				
A-D	102	25			102				
AB-C	775	194			775				
AB-D	114	29	533	0.215	115	0.4	0.3	9.478	A
D-ABC	252	63	496	0.509	257	2.3	1.2	16.847	C
C-D	8	2			8				
C-A	655	164			655				
C-B	29	7			29				
CD-AB	231	58	1138	0.203	235	1.9	0.8	4.427	A
CD-A	701	175			701				

# 2029 Baseline+Dev, PM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	2.90	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (W)		ONE HOUR	✓	1080	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (E)		ONE HOUR	✓	979	100.000
D - Harold Avenue		ONE HOUR	✓	253	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To			
		A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
From	A - North Hyde Rd (W)	0	57	807	216
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (E)	947	22	0	10
	D - Harold Avenue	245	4	4	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (W)	B - Crane Gardens	C - North Hyde Road (E)	D - Harold Avenue
A - North Hyde Rd (W)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (E)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.57	0.1	B	34	51
A-B					52	78
A-C					741	1111
A-D					198	297
AB-C					769	1153
AB-D	0.55	19.90	1.3	C	204	306
D-ABC	0.68	30.50	2.3	D	232	348
C-D					9	14
C-A					869	1303
C-B					20	30
CD-AB	0.26	3.77	1.3	A	204	306
CD-A					913	1370

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.0	0.1	9.730	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-C	631	158			631				
AB-D	167	42	523	0.320	165	0.0	0.5	11.008	B
D-ABC	190	48	495	0.385	188	0.0	0.7	12.784	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	88	22	1151	0.076	87	0.0	0.2	3.722	A
CD-A	827	207			827				

#### 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)	LOS
--------	-----------------------	-------------------------	-------------------	-----	---------------------	-------------------	-----------------	-----------	-----

B-ACD	33	8	401	0.083	33	0.1	0.1	10.754	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-C	753	188			753				
AB-D	200	50	489	0.408	199	0.5	0.7	13.576	B
D-ABC	227	57	460	0.494	226	0.7	1.0	16.810	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	155	39	1261	0.123	155	0.2	0.3	3.581	A
CD-A	938	235			938				

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)	LOS
B-ACD	41	10	356	0.115	41	0.1	0.1	12.558	B
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-C	923	231			923				
AB-D	244	61	443	0.552	242	0.7	1.3	19.502	C
D-ABC	279	70	407	0.684	274	1.0	2.2	28.788	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	361	90	1422	0.254	358	0.3	1.2	3.734	A
CD-A	975	244			975				

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)	LOS
B-ACD	41	10	356	0.115	41	0.1	0.1	12.570	B
A-B	63	16			63				
A-C	889	222			889				
A-D	238	59			238				
AB-C	923	231			923				
AB-D	244	61	443	0.552	244	1.3	1.3	19.899	C
D-ABC	279	70	407	0.684	278	2.2	2.3	30.496	D
C-D	11	3			11				
C-A	1043	261			1043				
C-B	24	6			24				
CD-AB	370	92	1427	0.259	370	1.2	1.3	3.768	A
CD-A	971	243			971				

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)	LOS
B-ACD	33	8	401	0.083	33	0.1	0.1	10.770	B
A-B	51	13			51				
A-C	725	181			725				
A-D	194	49			194				
AB-C	753	188			753				
AB-D	200	50	489	0.408	202	1.3	0.8	13.874	B

D-ABC	227	57	460	0.495	232	2.3	1.1	17.708	C
C-D	9	2			9				
C-A	851	213			851				
C-B	20	5			20				
CD-AB	160	40	1268	0.126	163	1.3	0.3	3.601	A
CD-A	940	235			940				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	434	0.064	28	0.1	0.1	9.748	A
A-B	43	11			43				
A-C	608	152			608				
A-D	163	41			163				
AB-C	631	158			631				
AB-D	167	42	523	0.320	168	0.8	0.5	11.197	B
D-ABC	190	48	495	0.385	192	1.1	0.7	13.149	B
C-D	8	2			8				
C-A	713	178			713				
C-B	17	4			17				
CD-AB	89	22	1155	0.077	90	0.3	0.2	3.724	A
CD-A	829	207			829				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 Cumulative  
**Report generation date:** 24/01/2017 10:46:33

- »2024 Baseline , AM
- »2024 Baseline , PM
- »2024 Baseline+Dev , AM
- »2024 Baseline+Dev , PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2024 Baseline								
Stream B-ACD	0.2	14.30	0.18	B	0.1	11.79	0.10	B
Stream AB-CD	37.3	89.04	0.99	F	16.0	38.96	0.91	E
Stream D-ABC	5.4	67.96	0.87	F	1.9	27.58	0.64	D
Stream CD-AB	5.2	7.54	0.60	A	0.9	3.72	0.22	A
2024 Baseline+Dev								
Stream B-ACD	30.4	1434.59	999999999.00	F	35.1	999999999.00	999999999.00	F
Stream AB-CD	63.4	182.86	1.06	F	173.4	612.60	1.31	F
Stream D-ABC	76.2	613.93	1.53	F	176.4	999999999.00	999999999.00	F
Stream CD-AB	6.4	7.88	0.65	A	1.7	4.00	0.30	A

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

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

### File summary

#### File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	

Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLI\Demetris Psyllides
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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2024 Baseline , AM

## Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	21.22	C

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (E)		Major
B	Crane Gardens		Minor
C	North Hyde Road (W)		Major



D	Harold Avenue		Minor
---	---------------	--	-------

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (E)	7.80			210.0	✓	0.00
C - North Hyde Road (W)	7.80			250.0	✓	0.00

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

## Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.248	0.248	0.248	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.239	0.239	0.095	-	-
1	D-C	519	-	0.139	0.315	0.139	0.315	0.220	0.220	0.087	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1141	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	941	100.000
D - Harold Avenue		ONE HOUR	✓	282	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	979	131
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	893	38	0	10
	D - Harold Avenue	245	27	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.18	14.30	0.2	B	50	76
A-B					28	43
A-C					898	1348
A-D					120	180
AB-CD	0.99	89.04	37.3	F	802	1203
AB-C					267	401
D-ABC	0.87	67.96	5.4	F	259	388
C-D					9	14
C-A					819	1229
C-B					35	52
CD-AB	0.60	7.54	5.2	A	467	701
CD-A					636	954

### 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)	LOS
B-ACD	41	10	422	0.098	41	0.0	0.1	10.385	B
A-B	23	6			23				
A-C	737	184			737				

A-D	99	25			99				
AB-CD	394	99	1065	0.370	389	0.0	1.4	5.863	A
AB-C	482	121			482				
D-ABC	212	53	480	0.443	209	0.0	0.8	14.452	B
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	207	52	1116	0.186	204	0.0	0.7	4.349	A
CD-A	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)	LOS
B-ACD	49	12	386	0.128	49	0.1	0.2	11.739	B
A-B	28	7			28				
A-C	880	220			880				
A-D	118	29			118				
AB-CD	646	162	1157	0.559	639	1.4	3.1	7.758	A
AB-C	401	100			401				
D-ABC	254	63	439	0.577	251	0.8	1.4	20.770	C
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	362	91	1219	0.297	359	0.7	1.4	4.628	A
CD-A	717	179			717				

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)	LOS
B-ACD	61	15	338	0.179	60	0.2	0.2	14.266	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	144	36			144				
AB-CD	1282	321	1291	0.993	1188	3.1	26.8	41.650	E
AB-C	0	0			0				
D-ABC	310	78	370	0.839	299	1.4	4.3	49.475	E
C-D	11	3			11				
C-A	983	246			983				
C-B	42	10			42				
CD-AB	795	199	1369	0.581	782	1.4	4.7	6.893	A
CD-A	518	130			518				

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)	LOS
B-ACD	61	15	338	0.179	61	0.2	0.2	14.297	B
A-B	34	9			34				
A-C	1078	269			1078				
A-D	144	36			144				
AB-CD	1283	321	1295	0.991	1241	26.8	37.3	89.041	F
AB-C	0	0			0				
D-ABC	310	78	358	0.868	306	4.3	5.4	67.960	F
C-D	11	3			11				
C-A	983	246			983				

C-B	42	10			42				
CD-AB	832	208	1381	0.603	830	4.7	5.2	7.538	A
CD-A	488	122			488				

#### 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)	LOS
B-ACD	49	12	386	0.128	50	0.2	0.2	11.771	B
A-B	28	7			28				
A-C	880	220			880				
A-D	118	29			118				
AB-CD	798	200	1245	0.641	928	37.3	4.7	20.182	C
AB-C	249	62			249				
D-ABC	254	63	433	0.586	269	5.4	1.6	26.027	D
C-D	9	2			9				
C-A	803	201			803				
C-B	34	9			34				
CD-AB	393	98	1241	0.317	407	5.2	1.6	4.885	A
CD-A	703	176			703				

#### 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)	LOS
B-ACD	41	10	422	0.098	42	0.2	0.1	10.419	B
A-B	23	6			23				
A-C	737	184			737				
A-D	99	25			99				
AB-CD	407	102	1076	0.378	420	4.7	1.5	6.218	A
AB-C	470	118			470				
D-ABC	212	53	479	0.443	215	1.6	0.9	15.172	C
C-D	8	2			8				
C-A	672	168			672				
C-B	29	7			29				
CD-AB	214	54	1123	0.191	218	1.6	0.7	4.412	A
CD-A	694	174			694				

## 2024 Baseline , PM

### Data Errors and Warnings

No errors or warnings

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	7.94	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Traffic Demand

## Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1000	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	233	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	55	779	166
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	935	22	0	9
	D - Harold Avenue	227	3	3	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

# 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-ACD	0.10	11.79	0.1	B	32	48
A-B					50	76
A-C					715	1072
A-D					152	228
AB-CD	0.91	38.96	16.0	E	646	968
AB-C					254	380

D-ABC	0.64	27.58	1.9	D	214	321
C-D					8	12
C-A					858	1287
C-B					20	30
CD-AB	0.22	3.72	0.9	A	176	263
CD-A					913	1370

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	447	0.059	26	0.0	0.1	9.401	A
A-B	41	10			41				
A-C	586	147			586				
A-D	125	31			125				
AB-CD	359	90	950	0.378	354	0.0	1.3	6.642	A
AB-C	379	95			379				
D-ABC	175	44	489	0.359	173	0.0	0.6	12.431	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	79	20	1143	0.069	79	0.0	0.1	3.721	A
CD-A	812	203			812				

### 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)	LOS
B-ACD	31	8	417	0.076	31	0.1	0.1	10.277	B
A-B	49	12			49				
A-C	700	175			700				
A-D	149	37			149				
AB-CD	550	138	1015	0.542	545	1.3	2.6	8.507	A
AB-C	331	83			331				
D-ABC	209	52	453	0.462	208	0.6	0.9	16.061	C
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	137	34	1249	0.110	137	0.1	0.3	3.562	A
CD-A	929	232			929				

### 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)	LOS
B-ACD	39	10	374	0.103	38	0.1	0.1	11.778	B
A-B	61	15			61				
A-C	858	214			858				
A-D	183	46			183				
AB-CD	975	244	1114	0.875	937	2.6	12.0	23.583	C
AB-C	104	26			104				

D-ABC	257	64	400	0.641	253	0.9	1.8	26.216	D
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	305	76	1403	0.218	303	0.3	0.9	3.605	A
CD-A	998	249			998				

### 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)	LOS
B-ACD	39	10	374	0.103	39	0.1	0.1	11.788	B
A-B	61	15			61				
A-C	858	214			858				
A-D	183	46			183				
AB-CD	1029	257	1137	0.905	1013	12.0	16.0	38.956	E
AB-C	50	12			50				
D-ABC	257	64	399	0.643	256	1.8	1.9	27.581	D
C-D	10	2			10				
C-A	1029	257			1029				
C-B	24	6			24				
CD-AB	311	78	1407	0.221	311	0.9	0.9	3.625	A
CD-A	996	249			996				

### 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)	LOS
B-ACD	31	8	417	0.076	32	0.1	0.1	10.289	B
A-B	49	12			49				
A-C	700	175			700				
A-D	149	37			149				
AB-CD	594	149	1050	0.566	646	16.0	3.1	11.445	B
AB-C	287	72			287				
D-ABC	209	52	453	0.463	213	1.9	1.0	16.779	C
C-D	8	2			8				
C-A	841	210			841				
C-B	20	5			20				
CD-AB	140	35	1254	0.112	143	0.9	0.3	3.574	A
CD-A	930	233			930				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	447	0.059	26	0.1	0.1	9.416	A
A-B	41	10			41				
A-C	586	147			586				
A-D	125	31			125				
AB-CD	366	92	956	0.383	373	3.1	1.4	6.935	A
AB-C	372	93			372				
D-ABC	175	44	489	0.359	177	1.0	0.6	12.737	B
C-D	7	2			7				
C-A	704	176			704				
C-B	17	4			17				
CD-AB	81	20	1146	0.070	81	0.3	0.1	3.722	A
CD-A	814	204			814				

# 2024 Baseline+Dev , AM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	105.13	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1195	100.000
B - Crane Gardens		ONE HOUR	✓	55	100.000
C - North Hyde Road (W)		ONE HOUR	✓	953	100.000
D - Harold Avenue		ONE HOUR	✓	434	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	31	985	179
	B - Crane Gardens	0	0	39	16
	C - North Hyde Road (W)	904	38	0	11
	D - Harold Avenue	396	27	11	0

## Vehicle Mix



## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1434.59	30.4	F	50	76
A-B					28	43
A-C					904	1356
A-D					164	246
AB-CD	1.06	182.86	63.4	F	984	1475
AB-C					135	202
D-ABC	1.53	613.93	76.2	F	398	597
C-D					10	15
C-A					830	1244
C-B					35	52
CD-AB	0.65	7.88	6.4	A	573	860
CD-A					656	984

### 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)	LOS
B-ACD	41	10	413	0.100	41	0.0	0.1	10.628	B
A-B	23	6			23				
A-C	742	185			742				
A-D	135	34			135				
AB-CD	529	132	1066	0.496	520	0.0	2.2	7.249	A
AB-C	389	97			389				
D-ABC	327	82	482	0.678	318	0.0	2.1	23.136	C
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	258	64	1196	0.215	254	0.0	0.9	4.211	A
CD-A	762	190			762				

#### 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)	LOS
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B-ACD	49	12	376	0.132	49	0.1	0.2	12.115	B
A-B	28	7			28				
A-C	885	221			885				
A-D	161	40			161				
AB-CD	872	218	1161	0.752	855	2.2	6.4	13.350	B
AB-C	223	56			223				
D-ABC	390	98	442	0.884	376	2.1	5.6	51.827	F
C-D	10	2			10				
C-A	813	203			813				
C-B	34	9			34				
CD-AB	481	120	1316	0.366	477	0.9	2.0	4.755	A
CD-A	732	183			732				

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)	LOS
B-ACD	61	15	0	999999999.000	0	0.2	15.3	1434.587	F
A-B	34	9			34				
A-C	1085	271			1085				
A-D	197	49			197				
AB-CD	1282	320	1212	1.057	1155	6.4	38.2	69.349	F
AB-C	0	0			0				
D-ABC	478	119	366	1.306	361	5.6	34.9	235.039	F
C-D	12	3			12				
C-A	995	249			995				
C-B	42	10			42				
CD-AB	927	232	1429	0.649	910	2.0	6.4	7.885	A
CD-A	462	115			462				

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)	LOS
B-ACD	61	15	0	999999999.000	0	15.3	30.4	-16860.130	?
A-B	34	9			34				
A-C	1085	271			1085				
A-D	197	49			197				
AB-CD	1282	320	1214	1.056	1194	38.2	60.1	150.940	F
AB-C	0	0			0				
D-ABC	478	119	313	1.527	312	34.9	76.2	585.857	F
C-D	12	3			12				
C-A	995	249			995				
C-B	42	10			42				
CD-AB	814	204	1405	0.580	817	6.4	5.6	7.162	A
CD-A	528	132			528				

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)	LOS
B-ACD	49	12	376	0.132	171	30.4	0.2	37.525	E
A-B	28	7			28				
A-C	885	221			885				
A-D	161	40			161				
AB-CD	1217	304	1230	0.989	1204	60.1	63.4	182.856	F
AB-C	0	0			0				

D-ABC	390	98	419	0.931	413	76.2	70.5	613.926	F
C-D	10	2			10				
C-A	813	203			813				
C-B	34	9			34				
CD-AB	556	139	1352	0.411	568	5.6	2.6	5.224	A
CD-A	694	173			694				

### 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)	LOS
B-ACD	41	10	413	0.100	42	0.2	0.1	10.666	B
A-B	23	6			23				
A-C	742	185			742				
A-D	135	34			135				
AB-CD	720	180	1198	0.601	960	63.4	3.5	46.335	E
AB-C	198	49			198				
D-ABC	327	82	475	0.688	467	70.5	35.3	411.583	F
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	405	101	1299	0.311	409	2.6	1.6	4.509	A
CD-A	760	190			760				

# 2024 Baseline+Dev, PM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 2,3,4,5 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	9999999999.00	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1171	100.000
B - Crane Gardens		ONE HOUR	✓	35	100.000
C - North Hyde Road (W)		ONE HOUR	✓	969	100.000
D - Harold Avenue		ONE HOUR	✓	332	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	55	791	325
	B - Crane Gardens	0	0	30	5
	C - North Hyde Road (W)	938	22	0	9
	D - Harold Avenue	325	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	999999999.00	35.1	F	32	48
A-B					50	76
A-C					726	1089
A-D					298	447
AB-CD	1.31	612.60	173.4	F	1029	1543
AB-C					27	41
D-ABC	999999999.00	999999999.00	176.4	F	305	457
C-D					8	12
C-A					861	1291
C-B					20	30
CD-AB	0.30	4.00	1.7	A	191	287
CD-A					908	1361

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	419	0.063	26	0.0	0.1	999999999.000	F
A-B	41	10			41				
A-C	596	149			596				
A-D	245	61			245				
AB-CD	703	176	956	0.735	684	0.0	4.8	14.413	B
AB-C	164	41			164				
D-ABC	250	62	489	0.511	246	0.0	1.1	999999999.000	F
C-D	7	2			7				
C-A	706	177			706				
C-B	17	4			17				
CD-AB	99	25	1180	0.084	98	0.0	0.2	3.661	A
CD-A	867	217			867				

### 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)	LOS
B-ACD	31	8	0	999999999.000	0	0.1	7.9	999999999.000	F
A-B	49	12			49				
A-C	711	178			711				
A-D	292	73			292				
AB-CD	1003	251	997	1.007	932	4.8	22.6	56.207	F
AB-C	0	0			0				
D-ABC	298	75	452	0.661	295	1.1	2.0	999999999.000	F
C-D	8	2			8				
C-A	843	211			843				
C-B	20	5			20				
CD-AB	183	46	1299	0.141	182	0.2	0.4	3.547	A
CD-A	972	243			972				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	7.9	17.6	999999999.000	F
A-B	61	15			61				
A-C	871	218			871				
A-D	358	89			358				
AB-CD	1229	307	934	1.315	930	22.6	97.4	240.914	F
AB-C	0	0			0				
D-ABC	366	91	361	1.012	332	2.0	10.4	999999999.000	F
C-D	10	2			10				
C-A	1033	258			1033				
C-B	24	6			24				
CD-AB	434	108	1454	0.298	429	0.4	1.7	3.880	A
CD-A	952	238			952				

### 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)	LOS
B-ACD	39	10	0	999999999.000	0	17.6	27.2	999999999.000	F

A-B	61	15			61				
A-C	871	218			871				
A-D	358	89			358				
AB-CD	1229	307	934	1.315	934	97.4	171.2	512.740	F
AB-C	0	0			0				
D-ABC	366	91	0	999999999.000	0	10.4	101.7	999999999.000	F
C-D	10	2			10				
C-A	1033	258			1033				
C-B	24	6			24				
CD-AB	179	45	1202	0.149	184	1.7	0.5	3.917	A
CD-A	878	220			878				

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)	LOS
B-ACD	31	8	0	999999999.000	0	27.2	35.1	999999999.000	F
A-B	49	12			49				
A-C	711	178			711				
A-D	292	73			292				
AB-CD	1003	251	999	1.005	994	171.2	173.4	612.605	F
AB-C	0	0			0				
D-ABC	298	75	0	999999999.000	0	101.7	176.4	999999999.000	F
C-D	8	2			8				
C-A	843	211			843				
C-B	20	5			20				
CD-AB	91	23	1083	0.084	92	0.5	0.2	4.002	A
CD-A	772	193			772				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	26	7	419	0.063	166	35.1	0.1	999999999.000	F
A-B	41	10			41				
A-C	596	149			596				
A-D	245	61			245				
AB-CD	1007	252	1064	0.946	1053	173.4	161.9	569.074	F
AB-C	0	0			0				
D-ABC	250	62	450	0.555	448	176.4	126.9	999999999.000	F
C-D	7	2			7				
C-A	706	177			706				
C-B	17	4			17				
CD-AB	163	41	1324	0.123	163	0.2	0.3	3.413	A
CD-A	1003	251			1003				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J11 North Hyde Rd-Harold Avenue -Crane Gardens Staggered Junction.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2029 Cumulative  
**Report generation date:** 24/01/2017 16:16:37

- »2029 Baseline , AM
- »2029 Baseline , PM
- »2029 Baseline+Dev , AM
- »2029 Baseline+Dev , PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2029 Baseline								
Stream B-ACD	9.6	427.41	1.32	F	0.1	12.02	0.11	B
Stream AB-CD	37.8	89.67	0.99	F	22.3	56.26	0.95	F
Stream D-ABC	7.0	85.48	0.92	F	2.1	29.77	0.67	D
Stream CD-AB	6.2	8.50	0.65	A	1.1	3.71	0.24	A
2029 Baseline+Dev								
Stream B-ACD	31.6	1556.22	999999999.00	F	37.1	999999999.00	999999999.00	F
Stream AB-CD	71.5	206.82	1.08	F	188.7	660.20	1.34	F
Stream D-ABC	91.4	757.12	1.78	F	189.2	999999999.00	999999999.00	F
Stream CD-AB	7.2	8.57	0.68	A	1.5	3.98	0.29	A

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

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

### File summary

#### File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	

Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLI\Demetris Psyllides
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	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2029 Baseline , AM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	27.95	D

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	North Hyde Rd (E)		Major



B	Crane Gardens		Minor
C	North Hyde Road (W)		Major
D	Harold Avenue		Minor

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - North Hyde Rd (E)	7.80			210.0	✓	0.00
C - North Hyde Road (W)	7.80			250.0	✓	0.00

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

## Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Crane Gardens	One lane	2.50	21	19
D - Harold Avenue	One lane	3.50	21	21

## Slope / Intercept / Capacity

### Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	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
1	AB-D	696	-	-	-	-	-	0.248	0.248	0.248	-	-
1	B-A	469	0.079	0.199	0.199	-	-	0.125	0.284	-	0.125	0.284
1	B-CD	604	0.085	0.216	0.216	-	-	-	-	-	-	-
1	CD-B	719	0.257	0.257	0.257	-	-	-	-	-	-	-
1	D-AB	669	-	-	-	-	-	0.239	0.239	0.095	-	-
1	D-C	519	-	0.139	0.315	0.139	0.315	0.220	0.220	0.087	-	-

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

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

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

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1159	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	954	100.000
D - Harold Avenue		ONE HOUR	✓	287	100.000

## Origin-Destination Data

## Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	994	133
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	905	39	0	10
	D - Harold Avenue	249	28	10	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	1.32	427.41	9.6	F	52	78
A-B					29	44
A-C					912	1368
A-D					122	183
AB-CD	0.99	89.67	37.8	F	842	1263
AB-C					244	366
D-ABC	0.92	85.48	7.0	F	263	395
C-D					9	14
C-A					830	1246
C-B					36	54
CD-AB	0.65	8.50	6.2	A	504	755
CD-A					616	924

### 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)	LOS
B-ACD	43	11	419	0.102	42	0.0	0.1	10.502	B
A-B	24	6			24				
A-C	748	187			748				

A-D	100	25			100				
AB-CD	412	103	1072	0.384	406	0.0	1.5	5.952	A
AB-C	479	120			479				
D-ABC	216	54	477	0.453	213	0.0	0.9	14.772	B
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	219	55	1123	0.195	216	0.0	0.7	4.374	A
CD-A	697	174			697				

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)	LOS
B-ACD	51	13	383	0.134	51	0.1	0.2	11.922	B
A-B	29	7			29				
A-C	894	223			894				
A-D	120	30			120				
AB-CD	680	170	1166	0.583	672	1.5	3.4	8.142	A
AB-C	384	96			384				
D-ABC	258	65	436	0.592	256	0.9	1.5	21.615	C
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	387	97	1228	0.315	383	0.7	1.5	4.715	A
CD-A	709	177			709				

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)	LOS
B-ACD	63	16	50	1.247	42	0.2	5.3	318.636	F
A-B	35	9			35				
A-C	1094	274			1094				
A-D	146	37			146				
AB-CD	1283	321	1294	0.992	1190	3.4	26.7	41.747	E
AB-C	0	0			0				
D-ABC	316	79	363	0.870	302	1.5	4.9	55.512	F
C-D	11	3			11				
C-A	996	249			996				
C-B	43	11			43				
CD-AB	859	215	1379	0.623	843	1.5	5.5	7.574	A
CD-A	472	118			472				

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)	LOS
B-ACD	63	16	48	1.316	46	5.3	9.6	427.414	F
A-B	35	9			35				
A-C	1094	274			1094				
A-D	146	37			146				
AB-CD	1287	322	1296	0.993	1242	26.7	37.8	89.666	F
AB-C	0	0			0				
D-ABC	316	79	345	0.916	308	4.9	7.0	85.477	F
C-D	11	3			11				
C-A	996	249			996				

C-B	43	11			43				
CD-AB	900	225	1393	0.646	897	5.5	6.2	8.499	A
CD-A	436	109			436				

#### 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)	LOS
B-ACD	51	13	383	0.134	89	9.6	0.2	15.266	C
A-B	29	7			29				
A-C	894	223			894				
A-D	120	30			120				
AB-CD	960	240	1276	0.752	1076	37.8	8.6	36.405	E
AB-C	142	36			142				
D-ABC	258	65	427	0.605	279	7.0	1.8	29.986	D
C-D	9	2			9				
C-A	814	203			814				
C-B	35	9			35				
CD-AB	430	107	1256	0.342	447	6.2	1.8	5.066	A
CD-A	688	172			688				

#### 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)	LOS
B-ACD	43	11	419	0.102	43	0.2	0.1	10.539	B
A-B	24	6			24				
A-C	748	187			748				
A-D	100	25			100				
AB-CD	433	108	1091	0.396	460	8.6	1.6	6.627	A
AB-C	459	115			459				
D-ABC	216	54	476	0.454	220	1.8	0.9	15.618	C
C-D	8	2			8				
C-A	681	170			681				
C-B	29	7			29				
CD-AB	227	57	1130	0.201	231	1.8	0.8	4.443	A
CD-A	695	174			695				

## 2029 Baseline , PM

### Data Errors and Warnings

*No errors or warnings*

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	11.20	B

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1019	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	981	100.000
D - Harold Avenue		ONE HOUR	✓	238	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	795	167
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	950	22	0	9
	D - Harold Avenue	231	4	3	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	0.11	12.02	0.1	B	34	51
A-B					52	78
A-C					730	1094
A-D					153	230
AB-CD	0.95	56.26	22.3	F	683	1024
AB-C					234	351

D-ABC	0.67	29.77	2.1	D	218	328
C-D					8	12
C-A					872	1308
C-B					20	30
CD-AB	0.24	3.71	1.1	A	192	289
CD-A					915	1372

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	444	0.063	28	0.0	0.1	9.498	A
A-B	43	11			43				
A-C	599	150			599				
A-D	126	31			126				
AB-CD	372	93	957	0.388	366	0.0	1.3	6.704	A
AB-C	380	95			380				
D-ABC	179	45	487	0.368	177	0.0	0.6	12.680	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	85	21	1151	0.074	84	0.0	0.1	3.712	A
CD-A	821	205			821				

### 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)	LOS
B-ACD	33	8	413	0.081	33	0.1	0.1	10.419	B
A-B	51	13			51				
A-C	715	179			715				
A-D	150	38			150				
AB-CD	574	144	1025	0.560	568	1.3	2.8	8.774	A
AB-C	324	81			324				
D-ABC	214	53	450	0.475	213	0.6	1.0	16.574	C
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	149	37	1259	0.118	148	0.1	0.3	3.564	A
CD-A	935	234			935				

### 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)	LOS
B-ACD	41	10	370	0.110	41	0.1	0.1	12.008	B
A-B	63	16			63				
A-C	875	219			875				
A-D	184	46			184				
AB-CD	1029	257	1127	0.914	981	2.8	15.0	28.680	D
AB-C	70	18			70				

D-ABC	262	66	396	0.662	258	1.0	2.0	27.955	D
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	338	84	1418	0.238	335	0.3	1.1	3.667	A
CD-A	987	247			987				

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)	LOS
B-ACD	41	10	370	0.110	41	0.1	0.1	12.018	B
A-B	63	16			63				
A-C	875	219			875				
A-D	184	46			184				
AB-CD	1100	275	1155	0.952	1071	15.0	22.3	56.257	F
AB-C	0	0			0				
D-ABC	262	66	394	0.666	262	2.0	2.1	29.775	D
C-D	10	2			10				
C-A	1046	261			1046				
C-B	24	6			24				
CD-AB	345	86	1422	0.242	345	1.1	1.1	3.697	A
CD-A	984	246			984				

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)	LOS
B-ACD	33	8	413	0.081	33	0.1	0.1	10.432	B
A-B	51	13			51				
A-C	715	179			715				
A-D	150	38			150				
AB-CD	640	160	1075	0.596	716	22.3	3.5	14.112	B
AB-C	258	64			258				
D-ABC	214	53	449	0.477	218	2.1	1.0	17.459	C
C-D	8	2			8				
C-A	854	214			854				
C-B	20	5			20				
CD-AB	152	38	1265	0.120	155	1.1	0.3	3.583	A
CD-A	937	234			937				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	444	0.063	28	0.1	0.1	9.515	A
A-B	43	11			43				
A-C	599	150			599				
A-D	126	31			126				
AB-CD	380	95	964	0.394	389	3.5	1.4	7.042	A
AB-C	372	93			372				
D-ABC	179	45	486	0.368	181	1.0	0.7	13.016	B
C-D	7	2			7				
C-A	715	179			715				
C-B	17	4			17				
CD-AB	86	22	1155	0.075	87	0.3	0.2	3.714	A
CD-A	824	206			824				

# 2029 Baseline+Dev , AM

## Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 3,4,5 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	124.80	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1214	100.000
B - Crane Gardens		ONE HOUR	✓	57	100.000
C - North Hyde Road (W)		ONE HOUR	✓	966	100.000
D - Harold Avenue		ONE HOUR	✓	438	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	32	1001	181
	B - Crane Gardens	0	0	40	17
	C - North Hyde Road (W)	916	39	0	11
	D - Harold Avenue	399	28	11	0

## Vehicle Mix



## Heavy Vehicle Percentages

From	To			
	A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
A - North Hyde Rd (E)	10	10	10	10
B - Crane Gardens	10	10	10	10
C - North Hyde Road (W)	10	10	10	10
D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	1556.22	31.6	F	52	78
A-B					29	44
A-C					919	1378
A-D					166	249
AB-CD	1.08	206.82	71.5	F	1022	1532
AB-C					115	173
D-ABC	1.78	757.12	91.4	F	402	603
C-D					10	15
C-A					841	1261
C-B					36	54
CD-AB	0.68	8.57	7.2	A	586	879
CD-A					646	969

### 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)	LOS
B-ACD	43	11	410	0.105	42	0.0	0.1	10.759	B
A-B	24	6			24				
A-C	754	188			754				
A-D	136	34			136				
AB-CD	550	138	1074	0.512	541	0.0	2.3	7.429	A
AB-C	382	96			382				
D-ABC	330	82	479	0.688	321	0.0	2.2	23.832	C
C-D	8	2			8				
C-A	690	172			690				
C-B	29	7			29				
CD-AB	272	68	1202	0.227	269	0.0	1.0	4.249	A
CD-A	759	190			759				

#### 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)	LOS
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B-ACD	51	13	372	0.138	51	0.1	0.2	12.314	B
A-B	29	7			29				
A-C	900	225			900				
A-D	163	41			163				
AB-CD	915	229	1171	0.782	895	2.3	7.4	14.848	B
AB-C	198	50			198				
D-ABC	394	98	438	0.899	378	2.2	6.1	55.338	F
C-D	10	2			10				
C-A	823	206			823				
C-B	35	9			35				
CD-AB	513	128	1324	0.388	508	1.0	2.2	4.897	A
CD-A	714	179			714				

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)	LOS
B-ACD	63	16	0	999999999.000	0	0.2	15.9	1556.218	F
A-B	35	9			35				
A-C	1102	276			1102				
A-D	199	50			199				
AB-CD	1301	325	1210	1.076	1160	7.4	42.7	78.353	F
AB-C	0	0			0				
D-ABC	482	121	356	1.353	352	6.1	38.6	273.113	F
C-D	12	3			12				
C-A	1009	252			1009				
C-B	43	11			43				
CD-AB	971	243	1432	0.678	951	2.2	7.2	8.567	A
CD-A	424	106			424				

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)	LOS
B-ACD	63	16	0	999999999.000	0	15.9	31.6	-4627.295	?
A-B	35	9			35				
A-C	1102	276			1102				
A-D	199	50			199				
AB-CD	1301	325	1211	1.074	1196	42.7	69.1	171.704	F
AB-C	0	0			0				
D-ABC	482	121	271	1.778	271	38.6	91.4	724.445	F
C-D	12	3			12				
C-A	1009	252			1009				
C-B	43	11			43				
CD-AB	767	192	1385	0.553	775	7.2	5.1	6.907	A
CD-A	549	137			549				

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)	LOS
B-ACD	51	13	159	0.322	154	31.6	5.9	430.301	F
A-B	29	7			29				
A-C	900	225			900				
A-D	163	41			163				
AB-CD	1216	304	1231	0.988	1207	69.1	71.5	206.819	F
AB-C	0	0			0				

D-ABC	394	98	409	0.963	404	91.4	88.8	757.124	F
C-D	10	2			10				
C-A	823	206			823				
C-B	35	9			35				
CD-AB	572	143	1351	0.423	581	5.1	2.7	5.311	A
CD-A	680	170			680				

### 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)	LOS
B-ACD	43	11	410	0.105	66	5.9	0.1	12.290	B
A-B	24	6			24				
A-C	754	188			754				
A-D	136	34			136				
AB-CD	845	211	1237	0.683	1109	71.5	5.4	85.441	F
AB-C	111	28			111				
D-ABC	330	82	470	0.702	464	88.8	55.3	561.868	F
C-D	8	2			8				
C-A	690	172			690				
C-B	29	7			29				
CD-AB	421	105	1302	0.324	426	2.7	1.7	4.585	A
CD-A	750	187			750				

## 2029 Baseline+Dev, PM

### Data Errors and Warnings

Severity	Area	Item	Description
Last Run	Last Run	Stream B-ACD	Capacity of Minor Stream B-ACD has been reduced in timesegment(s) 2,3,4,5 due to traffic queuing at the center of the junction.

## Junction Network

### Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	Left-Right Stagger	Two-way	9999999999.00	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## 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	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	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 - North Hyde Rd (E)		ONE HOUR	✓	1190	100.000
B - Crane Gardens		ONE HOUR	✓	37	100.000
C - North Hyde Road (W)		ONE HOUR	✓	986	100.000
D - Harold Avenue		ONE HOUR	✓	337	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	0	57	807	326
	B - Crane Gardens	0	0	31	6
	C - North Hyde Road (W)	954	22	0	10
	D - Harold Avenue	329	4	4	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		A - North Hyde Rd (E)	B - Crane Gardens	C - North Hyde Road (W)	D - Harold Avenue
From	A - North Hyde Rd (E)	10	10	10	10
	B - Crane Gardens	10	10	10	10
	C - North Hyde Road (W)	10	10	10	10
	D - Harold Avenue	10	10	10	10

## 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-ACD	999999999.00	999999999.00	37.1	F	34	51
A-B					52	78
A-C					741	1111
A-D					299	449
AB-CD	1.34	660.20	188.7	F	1048	1571
AB-C					26	39
D-ABC	999999999.00	999999999.00	189.2	F	309	464
C-D					9	14
C-A					875	1313
C-B					20	30
CD-AB	0.29	3.98	1.5	A	189	283
CD-A					911	1366

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	416	0.067	28	0.0	0.1	999999999.000	F
A-B	43	11			43				
A-C	608	152			608				
A-D	245	61			245				
AB-CD	724	181	963	0.752	704	0.0	5.2	15.123	C
AB-C	156	39			156				
D-ABC	254	63	484	0.525	249	0.0	1.2	999999999.000	F
C-D	8	2			8				
C-A	718	180			718				
C-B	17	4			17				
CD-AB	102	25	1189	0.086	101	0.0	0.2	3.641	A
CD-A	879	220			879				

### 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)	LOS
B-ACD	33	8	0	999999999.000	0	0.1	8.4	999999999.000	F
A-B	51	13			51				
A-C	725	181			725				
A-D	293	73			293				
AB-CD	1019	255	997	1.021	939	5.2	25.0	61.622	F
AB-C	0	0			0				
D-ABC	303	76	444	0.682	299	1.2	2.2	999999999.000	F
C-D	9	2			9				
C-A	858	214			858				
C-B	20	5			20				
CD-AB	191	48	1310	0.146	190	0.2	0.4	3.537	A
CD-A	981	245			981				

### 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)	LOS
B-ACD	41	10	0	999999999.000	0	8.4	18.6	999999999.000	F
A-B	63	16			63				
A-C	889	222			889				
A-D	359	90			359				
AB-CD	1247	312	933	1.336	929	25.0	104.5	259.260	F
AB-C	0	0			0				
D-ABC	371	93	308	1.205	297	2.2	20.7	999999999.000	F
C-D	11	3			11				
C-A	1050	263			1050				
C-B	24	6			24				
CD-AB	412	103	1439	0.286	408	0.4	1.5	3.855	A
CD-A	956	239			956				

### 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)	LOS
B-ACD	41	10	0	999999999.000	0	18.6	28.8	999999999.000	F

A-B	63	16			63				
A-C	889	222			889				
A-D	359	90			359				
AB-CD	1247	312	933	1.336	933	104.5	183.2	548.145	F
AB-C	0	0			0				
D-ABC	371	93	0	999999999.000	0	20.7	113.4	999999999.000	F
C-D	11	3			11				
C-A	1050	263			1050				
C-B	24	6			24				
CD-AB	187	47	1213	0.154	191	1.5	0.5	3.899	A
CD-A	887	222			887				

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)	LOS
B-ACD	33	8	0	999999999.000	0	28.8	37.1	999999999.000	F
A-B	51	13			51				
A-C	725	181			725				
A-D	293	73			293				
AB-CD	1019	255	999	1.020	997	183.2	188.7	660.204	F
AB-C	0	0			0				
D-ABC	303	76	0	999999999.000	0	113.4	189.2	999999999.000	F
C-D	9	2			9				
C-A	858	214			858				
C-B	20	5			20				
CD-AB	94	23	1091	0.086	95	0.5	0.2	3.981	A
CD-A	784	196			784				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-ACD	28	7	416	0.067	176	37.1	0.1	999999999.000	F
A-B	43	11			43				
A-C	608	152			608				
A-D	245	61			245				
AB-CD	1029	257	1062	0.968	1052	188.7	182.8	631.437	F
AB-C	0	0			0				
D-ABC	254	63	396	0.640	394	189.2	154.1	999999999.000	F
C-D	8	2			8				
C-A	718	180			718				
C-B	17	4			17				
CD-AB	146	37	1293	0.113	146	0.2	0.3	3.456	A
CD-A	978	245			978				