

Junctions 9	
ARCADY 9 - Roundabout Module	
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Report generation date: 10/02/2020 10:49:52

»2019 Observed, AM
 »2019 Observed, PM
 »2021 Base, AM
 »2021 Base, PM
 »2036 Base, AM
 »2036 Base, PM
 »2021 Base + Dev, AM
 »2021 Base + Dev, PM
 »2036 Base + Dev, AM
 »2036 Base + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (Veh)	Delay (s)	RFC	Junction Delay (s)	Queue (Veh)	Delay (s)	RFC	Junction Delay (s)
	2019 Observed							
A - A4230 West	1.5	6.49	0.61	5.09	1.3	6.22	0.56	4.87
B - A474 Neath Abbey Rd (E)	1.8	6.02	0.64		1.0	4.56	0.51	
C - A474 (S)	0.8	3.06	0.46		1.2	3.56	0.55	
D - TESCO	0.3	4.30	0.21		1.0	6.44	0.50	
	2021 Base							
A - A4230 West	1.6	6.70	0.62	5.25	1.4	6.44	0.58	5.02
B - A474 Neath Abbey Rd (E)	1.9	6.25	0.65		1.1	4.68	0.52	
C - A474 (S)	0.9	3.11	0.46		1.3	3.66	0.56	
D - TESCO	0.3	4.37	0.22		1.0	6.67	0.51	
	2036 Base							
A - A4230 West	2.4	9.11	0.71	6.93	2.0	8.68	0.67	6.51
B - A474 Neath Abbey Rd (E)	2.9	8.69	0.74		1.5	5.80	0.60	
C - A474 (S)	1.1	3.61	0.53		1.8	4.54	0.64	
D - TESCO	0.4	4.99	0.26		1.6	9.05	0.61	
	2021 Base + Dev							
A - A4230 West	1.7	6.87	0.63	5.34	1.4	6.64	0.59	5.12
B - A474 Neath Abbey Rd (E)	1.9	6.35	0.66		1.2	4.85	0.54	
C - A474 (S)	0.9	3.13	0.47		1.3	3.71	0.57	
D - TESCO	0.3	4.38	0.21		1.0	6.66	0.50	
	2036 Base + Dev							
A - A4230 West	2.5	9.39	0.72	7.10	2.2	9.09	0.69	6.69
B - A474 Neath Abbey Rd (E)	3.0	8.91	0.75		1.6	6.06	0.62	
C - A474 (S)	1.1	3.63	0.53		1.8	4.63	0.65	
D - TESCO	0.3	5.01	0.26		1.5	9.07	0.61	

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Junction LOS and Junction Delay are demand-weighted averages.

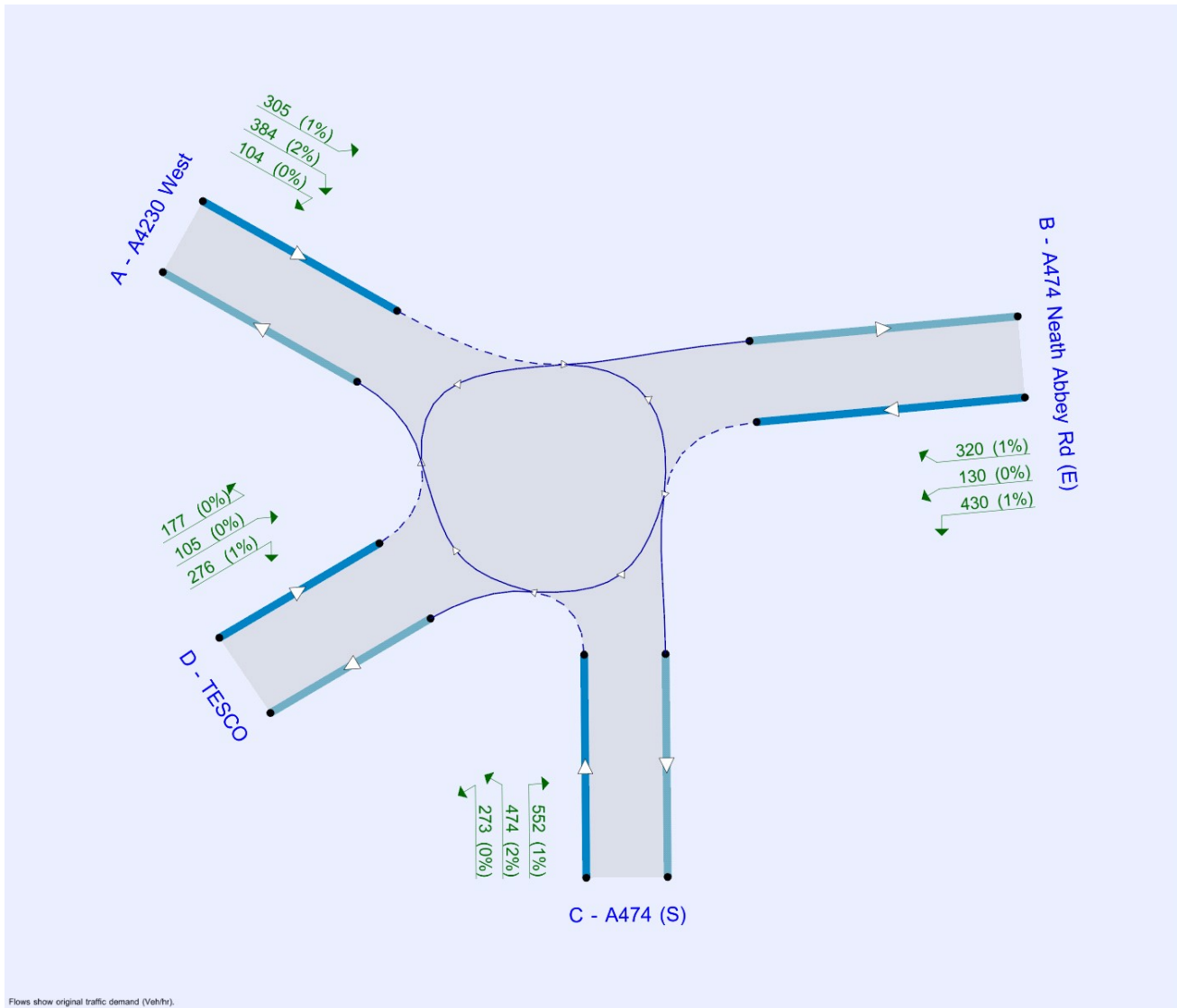
File summary

File Description

Title	A474 / A4230 / Tesco / Neath Abbey Rd Rbt
Location	
Site number	
Date	31/10/2019
Version	
Status	
Identifier	
Client	
Jobnumber	
Enumerator	al
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	Veh	Veh	perHour	s	-Hour	perHour



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	2019 Observed	AM	ONE HOUR	07:30	09:00	15	✓
D2	2019 Observed	PM	ONE HOUR	16:45	18:15	15	✓
D3	2021 Base	AM	ONE HOUR	07:30	09:00	15	✓
D4	2021 Base	PM	ONE HOUR	16:45	18:15	15	✓
D5	2036 Base	AM	ONE HOUR	07:30	09:00	15	✓
D6	2036 Base	PM	ONE HOUR	16:45	18:15	15	✓
D7	2021 Base + Dev	AM	ONE HOUR	07:30	09:00	15	✓
D8	2021 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓
D9	2036 Base + Dev	AM	ONE HOUR	07:30	09:00	15	✓
D10	2036 Base + 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

2019 Observed, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	5.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
A	A4230 West	
B	A474 Neath Abbey Rd (E)	
C	A474 (S)	
D	TESCO	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
A - A4230 West	3.00	9.00	16.0	40.0	84.0	30.0	
B - A474 Neath Abbey Rd (E)	3.60	7.80	27.0	35.0	84.0	25.0	
C - A474 (S)	7.30	10.00	5.8	40.0	84.0	30.0	
D - TESCO	3.60	6.80	16.0	25.0	84.0	25.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A - A4230 West	0.481	1778
B - A474 Neath Abbey Rd (E)	0.518	2015
C - A474 (S)	0.600	2603
D - TESCO	0.474	1728

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2019 Observed	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	779	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	962	100.000
C - A474 (S)		ONE HOUR	✓	892	100.000
D - TESCO		ONE HOUR	✓	203	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	401	288	90
	B - A474 Neath Abbey Rd (E)	352	0	560	50
	C - A474 (S)	377	445	0	70
	D - TESCO	63	25	115	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	3	5	1
	B - A474 Neath Abbey Rd (E)	4	0	4	4
	C - A474 (S)	6	4	0	7
	D - TESCO	2	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.61	6.49	1.5	A	715	1072
B - A474 Neath Abbey Rd (E)	0.64	6.02	1.8	A	883	1324
C - A474 (S)	0.46	3.06	0.8	A	819	1228
D - TESCO	0.21	4.30	0.3	A	186	279

Main Results for each time segment

07:30 - 07:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	586	147	439	1511	0.388	584	594	0.0	0.6	3.872	A
B - A474 Neath Abbey Rd (E)	724	181	370	1746	0.415	721	654	0.0	0.7	3.506	A
C - A474 (S)	672	168	369	2260	0.297	670	722	0.0	0.4	2.262	A
D - TESCO	153	38	881	1260	0.121	152	158	0.0	0.1	3.248	A

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	700	175	525	1470	0.476	699	711	0.6	0.9	4.665	A
B - A474 Neath Abbey Rd (E)	865	216	443	1708	0.506	864	782	0.7	1.0	4.256	A
C - A474 (S)	802	200	442	2217	0.362	801	864	0.4	0.6	2.541	A
D - TESCO	182	46	1054	1176	0.155	182	189	0.1	0.2	3.622	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	858	214	643	1413	0.607	855	870	0.9	1.5	6.426	A
B - A474 Neath Abbey Rd (E)	1059	265	541	1657	0.639	1056	957	1.0	1.7	5.961	A
C - A474 (S)	982	246	540	2159	0.455	981	1057	0.6	0.8	3.053	A
D - TESCO	224	56	1291	1062	0.210	223	231	0.2	0.3	4.289	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	858	214	644	1413	0.607	858	872	1.5	1.5	6.486	A
B - A474 Neath Abbey Rd (E)	1059	265	543	1657	0.639	1059	959	1.7	1.8	6.022	A
C - A474 (S)	982	246	542	2158	0.455	982	1060	0.8	0.8	3.060	A
D - TESCO	224	56	1293	1061	0.211	224	231	0.3	0.3	4.298	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	700	175	527	1469	0.477	703	714	1.5	0.9	4.711	A
B - A474 Neath Abbey Rd (E)	865	216	445	1707	0.507	868	785	1.8	1.0	4.304	A
C - A474 (S)	802	200	444	2216	0.362	803	868	0.8	0.6	2.549	A
D - TESCO	182	46	1057	1175	0.155	183	189	0.3	0.2	3.629	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	586	147	441	1511	0.388	588	597	0.9	0.6	3.906	A
B - A474 Neath Abbey Rd (E)	724	181	372	1745	0.415	726	657	1.0	0.7	3.538	A
C - A474 (S)	672	168	371	2259	0.297	672	726	0.6	0.4	2.271	A
D - TESCO	153	38	885	1258	0.121	153	158	0.2	0.1	3.259	A

2019 Observed, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	4.87	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	2019 Observed	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	682	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	745	100.000
C - A474 (S)		ONE HOUR	✓	1133	100.000
D - TESCO		ONE HOUR	✓	504	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	251	337	94
	B - A474 Neath Abbey Rd (E)	264	0	363	118
	C - A474 (S)	416	470	0	247
	D - TESCO	158	96	250	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	1	2	0
	B - A474 Neath Abbey Rd (E)	2	0	1	0
	C - A474 (S)	2	1	0	0
	D - TESCO	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.56	6.22	1.3	A	626	939
B - A474 Neath Abbey Rd (E)	0.51	4.56	1.0	A	684	1025
C - A474 (S)	0.55	3.56	1.2	A	1040	1559
D - TESCO	0.50	6.44	1.0	A	462	694

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	513	128	612	1467	0.350	511	629	0.0	0.5	3.761	A
B - A474 Neath Abbey Rd (E)	561	140	511	1733	0.324	559	613	0.0	0.5	3.060	A
C - A474 (S)	853	213	357	2358	0.362	851	712	0.0	0.6	2.386	A
D - TESCO	379	95	863	1307	0.290	378	344	0.0	0.4	3.867	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	613	153	733	1409	0.435	612	753	0.5	0.8	4.514	A
B - A474 Neath Abbey Rd (E)	670	167	611	1681	0.398	669	734	0.5	0.7	3.556	A
C - A474 (S)	1019	255	427	2316	0.440	1018	853	0.6	0.8	2.772	A
D - TESCO	453	113	1033	1226	0.370	452	412	0.4	0.6	4.650	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	751	188	897	1330	0.564	749	921	0.8	1.3	6.167	A
B - A474 Neath Abbey Rd (E)	820	205	748	1610	0.509	819	898	0.7	1.0	4.540	A
C - A474 (S)	1247	312	523	2259	0.552	1246	1043	0.8	1.2	3.547	A
D - TESCO	555	139	1264	1115	0.498	553	504	0.6	1.0	6.390	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	751	188	898	1330	0.565	751	923	1.3	1.3	6.220	A
B - A474 Neath Abbey Rd (E)	820	205	750	1609	0.510	820	900	1.0	1.0	4.563	A
C - A474 (S)	1247	312	524	2258	0.552	1247	1046	1.2	1.2	3.561	A
D - TESCO	555	139	1266	1114	0.498	555	505	1.0	1.0	6.436	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	613	153	735	1408	0.436	615	755	1.3	0.8	4.555	A
B - A474 Neath Abbey Rd (E)	670	167	614	1679	0.399	671	736	1.0	0.7	3.574	A
C - A474 (S)	1019	255	429	2315	0.440	1020	857	1.2	0.8	2.785	A
D - TESCO	453	113	1036	1225	0.370	455	414	1.0	0.6	4.684	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	513	128	615	1465	0.350	514	632	0.8	0.5	3.789	A
B - A474 Neath Abbey Rd (E)	561	140	514	1732	0.324	562	616	0.7	0.5	3.077	A
C - A474 (S)	853	213	359	2357	0.362	854	716	0.8	0.6	2.396	A
D - TESCO	379	95	867	1306	0.291	380	346	0.6	0.4	3.892	A

2021 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	5.25	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
D3	2021 Base	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	791	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	978	100.000
C - A474 (S)		ONE HOUR	✓	906	100.000
D - TESCO		ONE HOUR	✓	206	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	407	293	91
	B - A474 Neath Abbey Rd (E)	358	0	569	51
	C - A474 (S)	383	452	0	71
	D - TESCO	64	25	117	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	3	5	1
	B - A474 Neath Abbey Rd (E)	4	0	4	4
	C - A474 (S)	6	4	0	7
	D - TESCO	2	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.62	6.70	1.6	A	726	1089
B - A474 Neath Abbey Rd (E)	0.65	6.25	1.9	A	897	1346
C - A474 (S)	0.46	3.11	0.9	A	831	1247
D - TESCO	0.22	4.37	0.3	A	189	284

Main Results for each time segment

07:30 - 07:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	596	149	446	1508	0.395	593	604	0.0	0.6	3.923	A
B - A474 Neath Abbey Rd (E)	736	184	376	1743	0.423	733	663	0.0	0.7	3.556	A
C - A474 (S)	682	171	375	2256	0.302	680	734	0.0	0.4	2.282	A
D - TESCO	155	39	895	1253	0.124	155	160	0.0	0.1	3.275	A

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	711	178	534	1466	0.485	710	723	0.6	0.9	4.756	A
B - A474 Neath Abbey Rd (E)	879	220	450	1705	0.516	878	794	0.7	1.1	4.347	A
C - A474 (S)	814	204	449	2213	0.368	814	879	0.4	0.6	2.572	A
D - TESCO	185	46	1071	1168	0.159	185	191	0.1	0.2	3.662	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	871	218	653	1408	0.618	868	885	0.9	1.6	6.634	A
B - A474 Neath Abbey Rd (E)	1077	269	550	1653	0.651	1074	971	1.1	1.8	6.182	A
C - A474 (S)	998	249	549	2154	0.463	996	1075	0.6	0.9	3.108	A
D - TESCO	227	57	1311	1052	0.216	226	234	0.2	0.3	4.359	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	871	218	654	1408	0.619	871	886	1.6	1.6	6.701	A
B - A474 Neath Abbey Rd (E)	1077	269	552	1652	0.652	1077	973	1.8	1.9	6.254	A
C - A474 (S)	998	249	550	2153	0.463	998	1078	0.9	0.9	3.115	A
D - TESCO	227	57	1313	1051	0.216	227	235	0.3	0.3	4.368	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	711	178	535	1465	0.485	714	725	1.6	1.0	4.806	A
B - A474 Neath Abbey Rd (E)	879	220	452	1703	0.516	882	797	1.9	1.1	4.400	A
C - A474 (S)	814	204	451	2211	0.368	816	883	0.9	0.6	2.580	A
D - TESCO	185	46	1075	1166	0.159	186	192	0.3	0.2	3.670	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	596	149	448	1507	0.395	597	607	1.0	0.7	3.958	A
B - A474 Neath Abbey Rd (E)	736	184	378	1742	0.423	738	666	1.1	0.7	3.592	A
C - A474 (S)	682	171	377	2255	0.302	683	738	0.6	0.4	2.291	A
D - TESCO	155	39	899	1251	0.124	155	161	0.2	0.1	3.287	A

2021 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	5.02	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
D4	2021 Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	693	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	757	100.000
C - A474 (S)		ONE HOUR	✓	1152	100.000
D - TESCO		ONE HOUR	✓	513	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	255	342	96
	B - A474 Neath Abbey Rd (E)	268	0	369	120
	C - A474 (S)	423	478	0	251
	D - TESCO	161	98	254	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	1	2	0
	B - A474 Neath Abbey Rd (E)	2	0	1	0
	C - A474 (S)	2	1	0	0
	D - TESCO	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.58	6.44	1.4	A	636	954
B - A474 Neath Abbey Rd (E)	0.52	4.68	1.1	A	695	1042
C - A474 (S)	0.56	3.66	1.3	A	1057	1586
D - TESCO	0.51	6.67	1.0	A	471	706

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	522	130	623	1462	0.357	520	639	0.0	0.6	3.814	A
B - A474 Neath Abbey Rd (E)	570	142	519	1729	0.330	568	624	0.0	0.5	3.095	A
C - A474 (S)	867	217	363	2354	0.368	865	724	0.0	0.6	2.414	A
D - TESCO	386	97	878	1300	0.297	385	350	0.0	0.4	3.923	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	623	156	745	1403	0.444	622	765	0.6	0.8	4.604	A
B - A474 Neath Abbey Rd (E)	681	170	621	1676	0.406	680	746	0.5	0.7	3.612	A
C - A474 (S)	1036	259	435	2312	0.448	1035	866	0.6	0.8	2.818	A
D - TESCO	461	115	1050	1218	0.379	460	419	0.4	0.6	4.748	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	763	191	912	1323	0.577	761	936	0.8	1.3	6.376	A
B - A474 Neath Abbey Rd (E)	833	208	760	1604	0.520	832	913	0.7	1.1	4.653	A
C - A474 (S)	1268	317	532	2254	0.563	1267	1060	0.8	1.3	3.641	A
D - TESCO	565	141	1285	1105	0.511	563	513	0.6	1.0	6.620	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	763	191	914	1322	0.577	763	938	1.3	1.4	6.437	A
B - A474 Neath Abbey Rd (E)	833	208	762	1603	0.520	833	915	1.1	1.1	4.678	A
C - A474 (S)	1268	317	533	2253	0.563	1268	1062	1.3	1.3	3.655	A
D - TESCO	565	141	1287	1104	0.512	565	514	1.0	1.0	6.673	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	623	156	748	1402	0.445	625	768	1.4	0.8	4.649	A
B - A474 Neath Abbey Rd (E)	681	170	624	1674	0.406	682	749	1.1	0.7	3.635	A
C - A474 (S)	1036	259	436	2311	0.448	1037	870	1.3	0.8	2.831	A
D - TESCO	461	115	1053	1216	0.379	463	421	1.0	0.6	4.789	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	522	130	626	1460	0.357	523	642	0.8	0.6	3.845	A
B - A474 Neath Abbey Rd (E)	570	142	522	1727	0.330	571	627	0.7	0.5	3.116	A
C - A474 (S)	867	217	365	2353	0.369	868	728	0.8	0.6	2.425	A
D - TESCO	386	97	881	1299	0.297	387	352	0.6	0.4	3.951	A

2036 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	6.93	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	2036 Base	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	886	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	1094	100.000
C - A474 (S)		ONE HOUR	✓	1015	100.000
D - TESCO		ONE HOUR	✓	231	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	456	328	102
	B - A474 Neath Abbey Rd (E)	400	0	637	57
	C - A474 (S)	429	506	0	80
	D - TESCO	72	28	131	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	3	5	1
	B - A474 Neath Abbey Rd (E)	4	0	4	4
	C - A474 (S)	6	4	0	7
	D - TESCO	2	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.71	9.11	2.4	A	813	1220
B - A474 Neath Abbey Rd (E)	0.74	8.69	2.9	A	1004	1506
C - A474 (S)	0.53	3.61	1.1	A	931	1397
D - TESCO	0.26	4.99	0.4	A	212	318

Main Results for each time segment

07:30 - 07:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	667	167	499	1482	0.450	664	676	0.0	0.8	4.377	A
B - A474 Neath Abbey Rd (E)	824	206	420	1720	0.479	820	743	0.0	0.9	3.986	A
C - A474 (S)	764	191	419	2230	0.343	762	821	0.0	0.5	2.449	A
D - TESCO	174	43	1002	1202	0.145	173	179	0.0	0.2	3.499	A

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	796	199	597	1435	0.555	795	809	0.8	1.2	5.607	A
B - A474 Neath Abbey Rd (E)	983	246	503	1677	0.586	982	889	0.9	1.4	5.162	A
C - A474 (S)	912	228	502	2182	0.418	912	983	0.5	0.7	2.833	A
D - TESCO	208	52	1199	1106	0.188	207	215	0.2	0.2	4.003	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	976	244	731	1371	0.712	971	989	1.2	2.4	8.901	A
B - A474 Neath Abbey Rd (E)	1205	301	615	1619	0.744	1199	1087	1.4	2.8	8.450	A
C - A474 (S)	1118	279	613	2116	0.528	1116	1201	0.7	1.1	3.592	A
D - TESCO	254	64	1466	977	0.260	254	262	0.2	0.3	4.975	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	976	244	732	1370	0.712	975	992	2.4	2.4	9.107	A
B - A474 Neath Abbey Rd (E)	1205	301	618	1618	0.744	1204	1090	2.8	2.9	8.686	A
C - A474 (S)	1118	279	615	2115	0.529	1118	1207	1.1	1.1	3.610	A
D - TESCO	254	64	1470	975	0.261	254	263	0.3	0.4	4.992	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	796	199	599	1434	0.555	801	813	2.4	1.3	5.727	A
B - A474 Neath Abbey Rd (E)	983	246	507	1675	0.587	989	893	2.9	1.4	5.291	A
C - A474 (S)	912	228	505	2179	0.419	914	991	1.1	0.7	2.848	A
D - TESCO	208	52	1204	1104	0.188	208	216	0.4	0.2	4.021	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	667	167	501	1481	0.450	669	679	1.3	0.8	4.439	A
B - A474 Neath Abbey Rd (E)	824	206	423	1718	0.479	826	747	1.4	0.9	4.042	A
C - A474 (S)	764	191	422	2229	0.343	765	827	0.7	0.5	2.460	A
D - TESCO	174	43	1007	1199	0.145	174	180	0.2	0.2	3.511	A

2036 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	6.51	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	2036 Base	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	777	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	849	100.000
C - A474 (S)		ONE HOUR	✓	1291	100.000
D - TESCO		ONE HOUR	✓	574	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	286	384	107
	B - A474 Neath Abbey Rd (E)	301	0	414	134
	C - A474 (S)	474	536	0	281
	D - TESCO	180	109	285	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	1	2	0
	B - A474 Neath Abbey Rd (E)	2	0	1	0
	C - A474 (S)	2	1	0	0
	D - TESCO	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.67	8.68	2.0	A	713	1069
B - A474 Neath Abbey Rd (E)	0.60	5.80	1.5	A	779	1169
C - A474 (S)	0.64	4.54	1.8	A	1185	1777
D - TESCO	0.61	9.05	1.6	A	527	790

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	585	146	698	1426	0.410	582	716	0.0	0.7	4.254	A
B - A474 Neath Abbey Rd (E)	639	160	581	1697	0.377	637	698	0.0	0.6	3.390	A
C - A474 (S)	972	243	406	2328	0.417	969	812	0.0	0.7	2.642	A
D - TESCO	432	108	984	1249	0.346	430	392	0.0	0.5	4.383	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	699	175	835	1360	0.514	697	857	0.7	1.0	5.418	A
B - A474 Neath Abbey Rd (E)	763	191	696	1637	0.466	762	836	0.6	0.9	4.110	A
C - A474 (S)	1161	290	487	2281	0.509	1159	972	0.7	1.0	3.208	A
D - TESCO	516	129	1177	1157	0.446	515	469	0.5	0.8	5.599	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	855	214	1021	1271	0.673	852	1049	1.0	2.0	8.507	A
B - A474 Neath Abbey Rd (E)	935	234	850	1557	0.600	932	1022	0.9	1.5	5.741	A
C - A474 (S)	1421	355	595	2216	0.642	1418	1188	1.0	1.8	4.499	A
D - TESCO	632	158	1440	1031	0.613	629	573	0.8	1.5	8.894	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	855	214	1024	1270	0.674	855	1051	2.0	2.0	8.684	A
B - A474 Neath Abbey Rd (E)	935	234	854	1555	0.601	935	1025	1.5	1.5	5.804	A
C - A474 (S)	1421	355	597	2215	0.642	1421	1192	1.8	1.8	4.537	A
D - TESCO	632	158	1443	1029	0.614	632	575	1.5	1.6	9.053	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	699	175	839	1358	0.514	702	861	2.0	1.1	5.525	A
B - A474 Neath Abbey Rd (E)	763	191	702	1634	0.467	766	840	1.5	0.9	4.158	A
C - A474 (S)	1161	290	489	2279	0.509	1164	978	1.8	1.0	3.234	A
D - TESCO	516	129	1182	1155	0.447	519	471	1.6	0.8	5.691	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	585	146	701	1424	0.411	586	720	1.1	0.7	4.306	A
B - A474 Neath Abbey Rd (E)	639	160	586	1694	0.377	640	702	0.9	0.6	3.418	A
C - A474 (S)	972	243	409	2327	0.418	973	817	1.0	0.7	2.663	A
D - TESCO	432	108	988	1247	0.346	433	394	0.8	0.5	4.428	A

2021 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	5.34	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	2021 Base + Dev	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	801	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	990	100.000
C - A474 (S)		ONE HOUR	✓	910	100.000
D - TESCO		ONE HOUR	✓	200	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	421	293	87
	B - A474 Neath Abbey Rd (E)	367	0	574	49
	C - A474 (S)	383	459	0	68
	D - TESCO	61	24	115	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	3	5	1
	B - A474 Neath Abbey Rd (E)	4	0	4	4
	C - A474 (S)	6	4	0	8
	D - TESCO	2	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.63	6.87	1.7	A	735	1103
B - A474 Neath Abbey Rd (E)	0.66	6.35	1.9	A	908	1363
C - A474 (S)	0.47	3.13	0.9	A	835	1253
D - TESCO	0.21	4.38	0.3	A	184	275

Main Results for each time segment

07:30 - 07:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	603	151	449	1507	0.400	600	609	0.0	0.7	3.962	A
B - A474 Neath Abbey Rd (E)	745	186	371	1746	0.427	742	678	0.0	0.7	3.575	A
C - A474 (S)	685	171	377	2256	0.304	683	736	0.0	0.4	2.287	A
D - TESCO	151	38	907	1246	0.121	150	153	0.0	0.1	3.282	A

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	720	180	537	1464	0.492	719	728	0.7	1.0	4.823	A
B - A474 Neath Abbey Rd (E)	890	222	444	1709	0.521	889	812	0.7	1.1	4.383	A
C - A474 (S)	818	205	451	2212	0.370	817	881	0.4	0.6	2.580	A
D - TESCO	180	45	1086	1160	0.155	180	183	0.1	0.2	3.671	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	882	220	658	1406	0.627	879	891	1.0	1.6	6.798	A
B - A474 Neath Abbey Rd (E)	1090	273	543	1657	0.658	1087	993	1.1	1.9	6.273	A
C - A474 (S)	1002	250	552	2153	0.465	1001	1078	0.6	0.9	3.122	A
D - TESCO	220	55	1329	1043	0.211	220	224	0.2	0.3	4.373	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	882	220	658	1406	0.627	882	893	1.6	1.7	6.870	A
B - A474 Neath Abbey Rd (E)	1090	273	545	1657	0.658	1090	995	1.9	1.9	6.349	A
C - A474 (S)	1002	250	554	2152	0.466	1002	1081	0.9	0.9	3.130	A
D - TESCO	220	55	1331	1042	0.211	220	225	0.3	0.3	4.382	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	720	180	538	1463	0.492	723	731	1.7	1.0	4.878	A
B - A474 Neath Abbey Rd (E)	890	222	446	1707	0.521	893	815	1.9	1.1	4.437	A
C - A474 (S)	818	205	454	2211	0.370	819	886	0.9	0.6	2.588	A
D - TESCO	180	45	1089	1158	0.155	180	184	0.3	0.2	3.683	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	603	151	451	1506	0.401	604	611	1.0	0.7	3.998	A
B - A474 Neath Abbey Rd (E)	745	186	373	1745	0.427	747	682	1.1	0.8	3.612	A
C - A474 (S)	685	171	379	2254	0.304	686	741	0.6	0.4	2.295	A
D - TESCO	151	38	911	1244	0.121	151	154	0.2	0.1	3.294	A

2021 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	5.12	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	2021 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	708	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	789	100.000
C - A474 (S)		ONE HOUR	✓	1159	100.000
D - TESCO		ONE HOUR	✓	495	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
	A - A4230 West	0	274	342	92
	B - A474 Neath Abbey Rd (E)	288	0	385	116
	C - A474 (S)	423	494	0	242
	D - TESCO	157	93	245	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
	A - A4230 West	0	1	2	0
	B - A474 Neath Abbey Rd (E)	1	0	1	0
	C - A474 (S)	2	1	0	0
	D - TESCO	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.59	6.64	1.4	A	650	975
B - A474 Neath Abbey Rd (E)	0.54	4.85	1.2	A	724	1086
C - A474 (S)	0.57	3.71	1.3	A	1064	1595
D - TESCO	0.50	6.66	1.0	A	454	681

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	533	133	624	1461	0.365	531	651	0.0	0.6	3.859	A
B - A474 Neath Abbey Rd (E)	594	149	509	1735	0.342	592	646	0.0	0.5	3.143	A
C - A474 (S)	873	218	372	2349	0.371	870	729	0.0	0.6	2.430	A
D - TESCO	373	93	905	1288	0.289	371	338	0.0	0.4	3.922	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	636	159	747	1403	0.454	635	779	0.6	0.8	4.687	A
B - A474 Neath Abbey Rd (E)	709	177	609	1683	0.421	708	773	0.5	0.7	3.690	A
C - A474 (S)	1042	260	445	2305	0.452	1041	873	0.6	0.8	2.846	A
D - TESCO	445	111	1082	1203	0.370	444	404	0.4	0.6	4.744	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	780	195	914	1323	0.589	777	954	0.8	1.4	6.571	A
B - A474 Neath Abbey Rd (E)	869	217	745	1612	0.539	867	946	0.7	1.2	4.818	A
C - A474 (S)	1276	319	545	2246	0.568	1274	1067	0.8	1.3	3.696	A
D - TESCO	545	136	1325	1086	0.502	543	494	0.6	1.0	6.609	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	780	195	916	1322	0.590	779	956	1.4	1.4	6.639	A
B - A474 Neath Abbey Rd (E)	869	217	748	1611	0.539	869	948	1.2	1.2	4.847	A
C - A474 (S)	1276	319	546	2245	0.568	1276	1070	1.3	1.3	3.714	A
D - TESCO	545	136	1327	1085	0.502	545	495	1.0	1.0	6.660	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	636	159	750	1401	0.454	639	782	1.4	0.8	4.737	A
B - A474 Neath Abbey Rd (E)	709	177	613	1681	0.422	711	776	1.2	0.7	3.718	A
C - A474 (S)	1042	260	447	2304	0.452	1044	877	1.3	0.8	2.859	A
D - TESCO	445	111	1085	1201	0.371	447	405	1.0	0.6	4.783	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	533	133	627	1460	0.365	534	654	0.8	0.6	3.892	A
B - A474 Neath Abbey Rd (E)	594	149	512	1734	0.343	595	649	0.7	0.5	3.162	A
C - A474 (S)	873	218	374	2348	0.372	874	733	0.8	0.6	2.442	A
D - TESCO	373	93	908	1286	0.290	373	339	0.6	0.4	3.949	A

2036 Base + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	7.10	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	2036 Base + Dev	AM	ONE HOUR	07:30	09:00	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	895	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	1107	100.000
C - A474 (S)		ONE HOUR	✓	1019	100.000
D - TESCO		ONE HOUR	✓	225	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	469	328	98
	B - A474 Neath Abbey Rd (E)	410	0	642	55
	C - A474 (S)	429	513	0	77
	D - TESCO	69	27	129	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	3	5	1
	B - A474 Neath Abbey Rd (E)	4	0	4	4
	C - A474 (S)	6	4	0	7
	D - TESCO	2	4	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.72	9.39	2.5	A	821	1232
B - A474 Neath Abbey Rd (E)	0.75	8.91	3.0	A	1016	1524
C - A474 (S)	0.53	3.63	1.1	A	935	1403
D - TESCO	0.26	5.01	0.3	A	206	310

Main Results for each time segment

07:30 - 07:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	674	168	502	1481	0.455	670	681	0.0	0.8	4.425	A
B - A474 Neath Abbey Rd (E)	833	208	416	1722	0.484	830	757	0.0	0.9	4.016	A
C - A474 (S)	767	192	422	2229	0.344	765	824	0.0	0.5	2.455	A
D - TESCO	169	42	1015	1195	0.142	169	172	0.0	0.2	3.508	A

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	805	201	601	1433	0.561	803	815	0.8	1.3	5.693	A
B - A474 Neath Abbey Rd (E)	995	249	498	1680	0.592	993	906	0.9	1.4	5.225	A
C - A474 (S)	916	229	505	2180	0.420	915	986	0.5	0.7	2.844	A
D - TESCO	202	51	1214	1098	0.184	202	206	0.2	0.2	4.016	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	985	246	735	1369	0.720	981	997	1.3	2.5	9.162	A
B - A474 Neath Abbey Rd (E)	1219	305	608	1623	0.751	1213	1108	1.4	2.9	8.654	A
C - A474 (S)	1122	280	617	2115	0.531	1120	1205	0.7	1.1	3.614	A
D - TESCO	248	62	1485	967	0.256	247	252	0.2	0.3	4.995	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	985	246	737	1368	0.720	985	1000	2.5	2.5	9.392	A
B - A474 Neath Abbey Rd (E)	1219	305	611	1622	0.752	1219	1111	2.9	3.0	8.914	A
C - A474 (S)	1122	280	620	2113	0.531	1122	1210	1.1	1.1	3.632	A
D - TESCO	248	62	1488	966	0.257	248	253	0.3	0.3	5.013	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	805	201	603	1433	0.562	810	819	2.5	1.3	5.824	A
B - A474 Neath Abbey Rd (E)	995	249	502	1678	0.593	1001	911	3.0	1.5	5.364	A
C - A474 (S)	916	229	509	2178	0.421	918	993	1.1	0.7	2.859	A
D - TESCO	202	51	1219	1096	0.185	203	208	0.3	0.2	4.034	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	674	168	504	1480	0.455	676	685	1.3	0.8	4.487	A
B - A474 Neath Abbey Rd (E)	833	208	419	1721	0.484	836	761	1.5	0.9	4.076	A
C - A474 (S)	767	192	425	2228	0.344	768	829	0.7	0.5	2.467	A
D - TESCO	169	42	1019	1192	0.142	170	174	0.2	0.2	3.523	A

2036 Base + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	A474 / A4230 / Tesco / Neath Abbey Rd Rbt	Standard Roundabout		A, B, C, D	6.69	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
D10	2036 Base + Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A - A4230 West		ONE HOUR	✓	793	100.000
B - A474 Neath Abbey Rd (E)		ONE HOUR	✓	880	100.000
C - A474 (S)		ONE HOUR	✓	1299	100.000
D - TESCO		ONE HOUR	✓	558	100.000

Origin-Destination Data

Demand (Veh/hr)

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	305	384	104
	B - A474 Neath Abbey Rd (E)	320	0	430	130
	C - A474 (S)	474	552	0	273
	D - TESCO	177	105	276	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		A - A4230 West	B - A474 Neath Abbey Rd (E)	C - A474 (S)	D - TESCO
From	A - A4230 West	0	1	2	0
	B - A474 Neath Abbey Rd (E)	1	0	1	0
	C - A474 (S)	2	1	0	0
	D - TESCO	0	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS	Average Demand (Veh/hr)	Total Junction Arrivals (Veh)
A - A4230 West	0.69	9.09	2.2	A	728	1092
B - A474 Neath Abbey Rd (E)	0.62	6.06	1.6	A	808	1211
C - A474 (S)	0.65	4.63	1.8	A	1192	1788
D - TESCO	0.61	9.07	1.5	A	512	768

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	597	149	700	1425	0.419	594	728	0.0	0.7	4.317	A
B - A474 Neath Abbey Rd (E)	663	166	572	1702	0.389	660	722	0.0	0.6	3.444	A
C - A474 (S)	978	244	415	2323	0.421	975	817	0.0	0.7	2.665	A
D - TESCO	420	105	1010	1237	0.340	418	380	0.0	0.5	4.385	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	713	178	837	1359	0.524	711	872	0.7	1.1	5.545	A
B - A474 Neath Abbey Rd (E)	791	198	685	1644	0.481	790	863	0.6	0.9	4.212	A
C - A474 (S)	1168	292	497	2274	0.513	1166	978	0.7	1.0	3.245	A
D - TESCO	502	125	1209	1142	0.439	501	455	0.5	0.8	5.603	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	873	218	1024	1270	0.688	869	1066	1.1	2.1	8.885	A
B - A474 Neath Abbey Rd (E)	969	242	837	1565	0.619	966	1056	0.9	1.6	5.986	A
C - A474 (S)	1430	358	608	2208	0.648	1427	1195	1.0	1.8	4.591	A
D - TESCO	614	154	1479	1013	0.607	611	557	0.8	1.5	8.907	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	873	218	1027	1268	0.688	873	1069	2.1	2.2	9.093	A
B - A474 Neath Abbey Rd (E)	969	242	841	1563	0.620	969	1059	1.6	1.6	6.058	A
C - A474 (S)	1430	358	610	2207	0.648	1430	1200	1.8	1.8	4.634	A
D - TESCO	614	154	1482	1011	0.608	614	558	1.5	1.5	9.067	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	713	178	842	1357	0.525	717	876	2.2	1.1	5.663	A
B - A474 Neath Abbey Rd (E)	791	198	691	1641	0.482	794	868	1.6	0.9	4.264	A
C - A474 (S)	1168	292	500	2273	0.514	1171	985	1.8	1.1	3.275	A
D - TESCO	502	125	1213	1140	0.440	505	457	1.5	0.8	5.695	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Junction Arrivals (Veh)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	Throughput (exit side) (Veh/hr)	Start queue (Veh)	End queue (Veh)	Delay (s)	Unsignalised level of service
A - A4230 West	597	149	704	1423	0.419	599	732	1.1	0.7	4.373	A
B - A474 Neath Abbey Rd (E)	663	166	577	1700	0.390	664	726	0.9	0.6	3.479	A
C - A474 (S)	978	244	418	2322	0.421	979	822	1.1	0.7	2.685	A
D - TESCO	420	105	1015	1235	0.340	421	382	0.8	0.5	4.430	A