

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
2 - Barkham Street	219	55	264	665	0.330	220	265	0.7	0.5	8.110	A
3 - B3349 Barkham Road (W)	474	119	156	910	0.521	477	329	1.8	1.1	8.359	A
1 - B3349 Barkham Road (E)	451	113	76	1022	0.441	452	556	1.2	0.8	6.337	A

D6 - 2040 | WSTM-SC2 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		2, 3, 1	23.58	C

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		1	3 - B3349 Barkham Road (W)	23.58	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2040	WSTM-SC2	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
2 - Barkham Street		ONE HOUR	✓	343	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	677	100.000
1 - B3349 Barkham Road (E)		ONE HOUR	✓	686	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		2 - Barkham Street	3 - B3349 Barkham Road (W)	1 - B3349 Barkham Road (E)
From	2 - Barkham Street	0	120	223
	3 - B3349 Barkham Road (W)	139	0	538
	1 - B3349 Barkham Road (E)	257	429	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		2 - Barkham Street	3 - B3349 Barkham Road (W)	1 - B3349 Barkham Road (E)
From	2 - Barkham Street	0	1	0
	3 - B3349 Barkham Road (W)	0	0	2
	1 - B3349 Barkham Road (E)	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)
2 - Barkham Street	0.70	22.37	2.3	C	315	472
3 - B3349 Barkham Road (W)	0.87	31.55	6.1	D	621	932
1 - B3349 Barkham Road (E)	0.77	16.24	3.3	C	629	944

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
2 - Barkham Street	258	65	320	630	0.410	255	296	0.0	0.7	9.546	A
3 - B3349 Barkham Road (W)	510	127	166	904	0.564	505	410	0.0	1.3	8.896	A
1 - B3349 Barkham Road (E)	516	129	104	1005	0.514	512	567	0.0	1.0	7.247	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
2 - Barkham Street	308	77	384	591	0.522	307	354	0.7	1.1	12.603	B
3 - B3349 Barkham Road (W)	609	152	199	882	0.690	605	492	1.3	2.1	12.816	B
1 - B3349 Barkham Road (E)	617	154	124	992	0.621	614	680	1.0	1.6	9.466	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
2 - Barkham Street	378	94	468	539	0.700	373	431	1.1	2.2	21.102	C
3 - B3349 Barkham Road (W)	745	186	243	854	0.873	732	599	2.1	5.6	26.776	D
1 - B3349 Barkham Road (E)	755	189	150	977	0.773	749	824	1.6	3.2	15.383	C

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
2 - Barkham Street	378	94	472	537	0.703	377	435	2.2	2.3	22.374	C
3 - B3349 Barkham Road (W)	745	186	245	852	0.875	743	604	5.6	6.1	31.554	D
1 - B3349 Barkham Road (E)	755	189	153	975	0.774	755	836	3.2	3.3	16.236	C

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
2 - Barkham Street	308	77	390	588	0.525	313	362	2.3	1.1	13.311	B
3 - B3349 Barkham Road (W)	609	152	203	880	0.692	624	499	6.1	2.3	14.809	B
1 - B3349 Barkham Road (E)	617	154	128	990	0.623	623	699	3.3	1.7	9.974	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
2 - Barkham Street	258	65	325	627	0.412	260	300	1.1	0.7	9.841	A
3 - B3349 Barkham Road (W)	510	127	169	903	0.565	514	415	2.3	1.3	9.354	A
1 - B3349 Barkham Road (E)	516	129	105	1004	0.514	519	577	1.7	1.1	7.461	A

D8 - 2040 | WSTM-SC3a | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		2, 3, 1	28.27	D

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-1	3 - B3349 Barkham Road (W)	28.27	D

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2040	WSTM-SC3a	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
2 - Barkham Street		ONE HOUR	✓	366	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	692	100.000
1 - B3349 Barkham Road (E)		ONE HOUR	✓	715	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		2 - Barkham Street	3 - B3349 Barkham Road (W)	1 - B3349 Barkham Road (E)
From	2 - Barkham Street	0	141	225
	3 - B3349 Barkham Road (W)	153	0	539
	1 - B3349 Barkham Road (E)	264	451	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		2 - Barkham Street	3 - B3349 Barkham Road (W)	1 - B3349 Barkham Road (E)
From	2 - Barkham Street	0	1	0
	3 - B3349 Barkham Road (W)	0	0	2
	1 - B3349 Barkham Road (E)	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)
2 - Barkham Street	0.77	29.48	3.1	D	336	504
3 - B3349 Barkham Road (W)	0.89	36.30	7.2	E	635	952
1 - B3349 Barkham Road (E)	0.81	19.80	4.2	C	656	984

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
2 - Barkham Street	276	69	337	620	0.445	272	311	0.0	0.8	10.274	B
3 - B3349 Barkham Road (W)	521	130	167	904	0.576	516	442	0.0	1.3	9.155	A
1 - B3349 Barkham Road (E)	538	135	114	999	0.539	534	569	0.0	1.1	7.670	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
2 - Barkham Street	329	82	404	579	0.568	327	373	0.8	1.3	14.187	B
3 - B3349 Barkham Road (W)	622	156	201	882	0.706	618	530	1.3	2.3	13.466	B
1 - B3349 Barkham Road (E)	643	161	137	985	0.653	640	683	1.1	1.8	10.358	B

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
2 - Barkham Street	403	101	491	525	0.767	396	452	1.3	2.9	26.623	D
3 - B3349 Barkham Road (W)	762	190	244	854	0.893	746	644	2.3	6.4	29.599	D
1 - B3349 Barkham Road (E)	787	197	165	968	0.813	779	824	1.8	3.9	18.250	C

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
2 - Barkham Street	403	101	496	522	0.771	402	458	2.9	3.1	29.479	D
3 - B3349 Barkham Road (W)	762	190	247	851	0.895	759	651	6.4	7.2	36.303	E
1 - B3349 Barkham Road (E)	787	197	168	966	0.815	786	838	3.9	4.2	19.805	C

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
2 - Barkham Street	329	82	411	574	0.573	336	382	3.1	1.4	15.519	C
3 - B3349 Barkham Road (W)	622	156	207	878	0.708	641	540	7.2	2.6	16.208	C
1 - B3349 Barkham Road (E)	643	161	142	982	0.655	652	706	4.2	2.0	11.172	B

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
2 - Barkham Street	276	69	341	617	0.447	278	316	1.4	0.8	10.686	B
3 - B3349 Barkham Road (W)	521	130	171	902	0.578	526	448	2.6	1.4	9.689	A
1 - B3349 Barkham Road (E)	538	135	116	997	0.540	541	580	2.0	1.2	7.949	A

D10 - 2040 | WSTM-SC3b | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		2, 3, 1	31.64	D

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-3	3 - B3349 Barkham Road (W)	31.64	D

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2040	WSTM-SC3b	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
2 - Barkham Street		ONE HOUR	✓	366	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	709	100.000
1 - B3349 Barkham Road (E)		ONE HOUR	✓	719	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		2 - Barkham Street	3 - B3349 Barkham Road (W)	1 - B3349 Barkham Road (E)
From	2 - Barkham Street	0	141	225
	3 - B3349 Barkham Road (W)	155	0	554
	1 - B3349 Barkham Road (E)	253	466	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		2 - Barkham Street	3 - B3349 Barkham Road (W)	1 - B3349 Barkham Road (E)
From	2 - Barkham Street	0	1	0
	3 - B3349 Barkham Road (W)	0	0	2
	1 - B3349 Barkham Road (E)	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)
2 - Barkham Street	0.79	31.98	3.4	D	336	504
3 - B3349 Barkham Road (W)	0.92	42.75	8.7	E	651	976
1 - B3349 Barkham Road (E)	0.82	20.42	4.3	C	660	990

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
2 - Barkham Street	276	69	348	613	0.450	272	304	0.0	0.8	10.473	B
3 - B3349 Barkham Road (W)	534	133	167	904	0.591	528	453	0.0	1.4	9.449	A
1 - B3349 Barkham Road (E)	541	135	115	998	0.543	537	580	0.0	1.2	7.736	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
2 - Barkham Street	329	82	417	571	0.577	327	365	0.8	1.3	14.648	B
3 - B3349 Barkham Road (W)	637	159	201	882	0.723	633	543	1.4	2.5	14.233	B
1 - B3349 Barkham Road (E)	646	162	138	984	0.657	644	696	1.2	1.9	10.497	B

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
2 - Barkham Street	403	101	507	515	0.782	396	442	1.3	3.1	28.451	D
3 - B3349 Barkham Road (W)	781	195	243	854	0.914	761	660	2.5	7.4	33.194	D
1 - B3349 Barkham Road (E)	792	198	166	967	0.819	783	838	1.9	4.1	18.708	C

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
2 - Barkham Street	403	101	512	512	0.787	402	448	3.1	3.4	31.977	D
3 - B3349 Barkham Road (W)	781	195	247	851	0.917	776	667	7.4	8.7	42.754	E
1 - B3349 Barkham Road (E)	792	198	170	965	0.821	791	853	4.1	4.3	20.415	C

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
2 - Barkham Street	329	82	425	566	0.581	337	375	3.4	1.4	16.213	C
3 - B3349 Barkham Road (W)	637	159	207	878	0.726	661	555	8.7	2.8	18.139	C
1 - B3349 Barkham Road (E)	646	162	144	980	0.660	656	723	4.3	2.0	11.391	B

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
2 - Barkham Street	276	69	353	610	0.452	278	309	1.4	0.8	10.921	B
3 - B3349 Barkham Road (W)	534	133	171	902	0.592	539	460	2.8	1.5	10.071	B
1 - B3349 Barkham Road (E)	541	135	118	996	0.543	544	592	2.0	1.2	8.027	A

Junctions 11											
ARCADY 11 - Roundabout Module											
Version: 11.1.0.2307											
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Filename: Bearwood Road_Barkham Road mini roundabout.j11

Path: L:\PROJECTS\11000 SERIES\11337 - Barkham Square Park\Tech\Junction Assessments\Arcady

Report generation date: 14/11/2025 17:16:24

»D1 - 2025 | Base | AM
 »D2 - 2025 | Base | PM
 »D3 - 2040 | WSTM-SC1 | AM
 »D4 - 2040 | WSTM-SC1 | PM
 »D5 - 2040 | WSTM-SC2 | AM
 »D6 - 2040 | WSTM-SC2 | PM
 »D7 - 2040 | WSTM-SC3a | AM
 »D8 - 2040 | WSTM-SC3a | PM
 »D9 - 2040 | WSTM-SC3b | AM
 »D10 - 2040 | WSTM-SC3b | PM

Summary of junction performance

	AM						PM					
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Network Residual Capacity	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Network Residual Capacity
	2025 - Base											
1 - Bearwood Road	D1	3.0	26.72	0.76	D	4 % [1 - Bearwood Road]	D2	3.6	24.08	0.79	C	6 % [1 - Bearwood Road]
2 - B3349 Barkham Road (E)		1.7	9.69	0.63	A			2.2	12.39	0.69	B	
3 - B3349 Barkham Road (W)		2.6	9.54	0.72	A			0.9	5.01	0.47	A	
	2040 - WSTM-SC1											
1 - Bearwood Road	D3	64.4	286.12	1.17	F	-20 % [1 - Bearwood Road]	D4	28.9	143.24	1.05	F	-14 % [1 - Bearwood Road]
2 - B3349 Barkham Road (E)		2.3	13.23	0.71	B			2.5	13.90	0.72	B	
3 - B3349 Barkham Road (W)		4.6	16.26	0.83	C			1.9	8.67	0.66	A	
	2040 - WSTM-SC2											
1 - Bearwood Road	D5	152.0	788.54	1.42	F	-29 % [1 - Bearwood Road]	D6	63.0	288.86	1.17	F	-20 % [1 - Bearwood Road]
2 - B3349 Barkham Road (E)		3.5	17.63	0.79	C			4.0	20.05	0.81	C	
3 - B3349 Barkham Road (W)		7.4	25.40	0.89	D			2.2	9.62	0.69	A	
	2040 - WSTM-SC3a											
1 - Bearwood Road	D7	177.8	956.85	1.48	F	-31 % [1 - Bearwood Road]	D8	79.5	390.48	1.23	F	-22 % [1 - Bearwood Road]
2 - B3349 Barkham Road (E)		3.5	17.52	0.79	C			4.3	21.06	0.82	C	
3 - B3349 Barkham Road (W)		11.8	38.35	0.94	E			2.2	9.61	0.69	A	
	2040 - WSTM-SC3b											
1 - Bearwood Road	D9	183.5	985.73	1.49	F	-31 % [1 - Bearwood Road]	D10	74.1	358.31	1.21	F	-22 % [1 - Bearwood Road]
2 - B3349 Barkham Road (E)		3.6	17.73	0.79	C			4.5	22.09	0.83	C	
3 - B3349 Barkham Road (W)		12.7	41.10	0.95	E			2.4	10.08	0.71	B	

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	Bearwood Road / Barkham Road mini roundabout
Location	Bearwood Road / Barkham Road mini roundabout
Site number	
Date	18/07/2025
Version	
Status	Base Existing
Identifier	
Client	
Jobnumber	
Enumerator	I-TRANSPORT\LM
Description	

Units

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

Analysis Options

Mini-roundabout model	Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
JUNCTIONS 9	5.75					✓	Delay	0.85	36.00	20.00		

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2040	WSTM-SC1	AM	ONE HOUR	07:45	09:15	15	✓
D4	2040	WSTM-SC1	PM	ONE HOUR	16:45	18:15	15	✓
D5	2040	WSTM-SC2	AM	ONE HOUR	07:45	09:15	15	✓
D6	2040	WSTM-SC2	PM	ONE HOUR	16:45	18:15	15	✓
D7	2040	WSTM-SC3a	AM	ONE HOUR	07:45	09:15	15	✓
D8	2040	WSTM-SC3a	PM	ONE HOUR	16:45	18:15	15	✓
D9	2040	WSTM-SC3b	AM	ONE HOUR	07:45	09:15	15	✓
D10	2040	WSTM-SC3b	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

D1 - 2025 | Base | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	13.12	B

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		4	1 - Bearwood Road	13.12	B

Arms

Arms

Arm	Name	Description
1	Bearwood Road	
2	B3349 Barkham Road (E)	
3	B3349 Barkham Road (W)	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1 - Bearwood Road	3.50	3.50	4.33	1.3	7.81	4.51	0.0	
2 - B3349 Barkham Road (E)	3.61	3.06	5.30	25.9	11.69	11.51	0.0	
3 - B3349 Barkham Road (W)	3.00	3.00	7.40	34.5	10.41	8.54	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1 - Bearwood Road	0.619	951
2 - B3349 Barkham Road (E)	0.663	1181
3 - B3349 Barkham Road (W)	0.710	1523

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

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	386	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	585	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	899	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
1 - Bearwood Road		0	183	203
2 - B3349 Barkham Road (E)		182	1	402
3 - B3349 Barkham Road (W)		334	562	3

Vehicle Mix

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

Heavy Vehicle %

From	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
1 - Bearwood Road		0	0	1
2 - B3349 Barkham Road (E)		2	0	1
3 - B3349 Barkham Road (W)		0	1	33

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)
1 - Bearwood Road	0.76	26.72	3.0	D	354	531
2 - B3349 Barkham Road (E)	0.63	9.69	1.7	A	537	805
3 - B3349 Barkham Road (W)	0.72	9.54	2.6	A	825	1237

Main Results for each time segment

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
1 - Bearwood Road	291	73	424	682	0.426	288	386	0.0	0.7	9.073	A
2 - B3349 Barkham Road (E)	440	110	154	1063	0.414	438	558	0.0	0.7	5.727	A
3 - B3349 Barkham Road (W)	677	169	137	1413	0.479	673	454	0.0	0.9	4.843	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
1 - Bearwood Road	347	87	508	629	0.551	345	463	0.7	1.2	12.583	B
2 - B3349 Barkham Road (E)	526	131	184	1043	0.504	525	669	0.7	1.0	6.926	A
3 - B3349 Barkham Road (W)	808	202	164	1393	0.580	806	545	0.9	1.4	6.114	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
1 - Bearwood Road	425	106	620	559	0.760	418	566	1.2	2.9	24.478	C
2 - B3349 Barkham Road (E)	644	161	223	1017	0.633	641	815	1.0	1.7	9.510	A
3 - B3349 Barkham Road (W)	990	247	201	1367	0.724	985	664	1.4	2.5	9.307	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
1 - Bearwood Road	425	106	623	557	0.762	424	568	2.9	3.0	26.724	D
2 - B3349 Barkham Road (E)	644	161	226	1015	0.635	644	821	1.7	1.7	9.694	A
3 - B3349 Barkham Road (W)	990	247	201	1367	0.724	990	669	2.5	2.6	9.536	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
1 - Bearwood Road	347	87	512	627	0.554	354	466	3.0	1.3	13.512	B
2 - B3349 Barkham Road (E)	526	131	189	1040	0.506	529	677	1.7	1.0	7.074	A
3 - B3349 Barkham Road (W)	808	202	165	1393	0.580	813	552	2.6	1.4	6.258	A

09:00 - 09:15

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
1 - Bearwood Road	291	73	427	679	0.428	293	390	1.3	0.8	9.356	A
2 - B3349 Barkham Road (E)	440	110	156	1062	0.415	442	564	1.0	0.7	5.817	A
3 - B3349 Barkham Road (W)	677	169	138	1412	0.479	679	460	1.4	0.9	4.920	A

D2 - 2025 | Base | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	13.32	B

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		6	1 - Bearwood Road	13.32	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	504	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	598	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	586	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	204	300
	2 - B3349 Barkham Road (E)	182	0	416
	3 - B3349 Barkham Road (W)	237	347	2

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	3	0
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	1	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)
1 - Bearwood Road	0.79	24.08	3.6	C	462	694
2 - B3349 Barkham Road (E)	0.69	12.39	2.2	B	549	823
3 - B3349 Barkham Road (W)	0.47	5.01	0.9	A	538	807

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
1 - Bearwood Road	379	95	262	778	0.488	376	314	0.0	0.9	8.877	A
2 - B3349 Barkham Road (E)	450	113	225	1018	0.442	447	412	0.0	0.8	6.271	A
3 - B3349 Barkham Road (W)	441	110	136	1410	0.313	439	536	0.0	0.5	3.703	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
1 - Bearwood Road	453	113	313	746	0.608	451	376	0.9	1.5	12.112	B
2 - B3349 Barkham Road (E)	538	134	270	989	0.544	536	494	0.8	1.2	7.926	A
3 - B3349 Barkham Road (W)	527	132	163	1391	0.379	526	643	0.5	0.6	4.162	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
1 - Bearwood Road	555	139	384	702	0.790	547	460	1.5	3.4	22.212	C
2 - B3349 Barkham Road (E)	658	165	328	951	0.693	654	603	1.2	2.2	11.988	B
3 - B3349 Barkham Road (W)	645	161	199	1365	0.473	644	783	0.6	0.9	4.987	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
1 - Bearwood Road	555	139	384	702	0.791	554	461	3.4	3.6	24.079	C
2 - B3349 Barkham Road (E)	658	165	332	948	0.694	658	606	2.2	2.2	12.391	B
3 - B3349 Barkham Road (W)	645	161	200	1364	0.473	645	790	0.9	0.9	5.008	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
1 - Bearwood Road	453	113	314	745	0.608	461	378	3.6	1.6	12.996	B
2 - B3349 Barkham Road (E)	538	134	276	985	0.546	542	499	2.2	1.2	8.195	A
3 - B3349 Barkham Road (W)	527	132	165	1389	0.379	528	653	0.9	0.6	4.185	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
1 - Bearwood Road	379	95	263	777	0.488	382	316	1.6	1.0	9.177	A
2 - B3349 Barkham Road (E)	450	113	229	1016	0.443	452	416	1.2	0.8	6.405	A
3 - B3349 Barkham Road (W)	441	110	138	1409	0.313	442	543	0.6	0.5	3.726	A

D3 - 2040 | WSTM-SC1 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	99.61	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-20	1 - Bearwood Road	99.61	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2040	WSTM-SC1	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	707	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	590	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	966	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	316	391
	2 - B3349 Barkham Road (E)	295	0	295
	3 - B3349 Barkham Road (W)	557	409	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	0	1
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	0	1	33

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)
1 - Bearwood Road	1.17	286.12	64.4	F	649	973
2 - B3349 Barkham Road (E)	0.71	13.23	2.3	B	541	812
3 - B3349 Barkham Road (W)	0.83	16.26	4.6	C	886	1330

Main Results for each time segment

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
1 - Bearwood Road	532	133	306	755	0.705	523	637	0.0	2.3	14.991	B
2 - B3349 Barkham Road (E)	444	111	289	972	0.457	441	540	0.0	0.8	6.733	A
3 - B3349 Barkham Road (W)	727	182	220	1357	0.536	723	510	0.0	1.1	5.633	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
1 - Bearwood Road	636	159	366	718	0.886	621	763	2.3	5.9	33.111	D
2 - B3349 Barkham Road (E)	530	133	343	937	0.566	529	644	0.8	1.3	8.784	A
3 - B3349 Barkham Road (W)	868	217	264	1326	0.655	866	608	1.1	1.9	7.776	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
1 - Bearwood Road	778	195	446	668	1.165	659	930	5.9	35.8	130.163	F
2 - B3349 Barkham Road (E)	650	162	364	923	0.704	646	740	1.3	2.3	12.801	B
3 - B3349 Barkham Road (W)	1064	266	323	1283	0.829	1053	687	1.9	4.4	15.013	C

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
1 - Bearwood Road	778	195	450	666	1.169	664	937	35.8	64.4	279.566	F
2 - B3349 Barkham Road (E)	650	162	367	921	0.705	649	747	2.3	2.3	13.227	B
3 - B3349 Barkham Road (W)	1064	266	325	1282	0.830	1063	692	4.4	4.6	16.258	C

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
1 - Bearwood Road	636	159	372	714	0.890	703	774	64.4	47.5	286.123	F
2 - B3349 Barkham Road (E)	530	133	389	907	0.585	534	686	2.3	1.4	9.751	A
3 - B3349 Barkham Road (W)	868	217	267	1324	0.656	879	656	4.6	2.0	8.283	A

09:00 - 09:15

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
1 - Bearwood Road	532	133	309	753	0.707	710	644	47.5	3.0	118.002	F
2 - B3349 Barkham Road (E)	444	111	393	904	0.491	446	627	1.4	1.0	7.892	A
3 - B3349 Barkham Road (W)	727	182	223	1355	0.537	730	616	2.0	1.2	5.790	A

D4 - 2040 | WSTM-SC1 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	53.28	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-14	1 - Bearwood Road	53.28	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2040	WSTM-SC1	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	631	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	609	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	736	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	284	347
	2 - B3349 Barkham Road (E)	358	0	251
	3 - B3349 Barkham Road (W)	328	408	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	3	0
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	1	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)
1 - Bearwood Road	1.05	143.24	28.9	F	579	869
2 - B3349 Barkham Road (E)	0.72	13.90	2.5	B	559	838
3 - B3349 Barkham Road (W)	0.66	8.67	1.9	A	675	1013

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
1 - Bearwood Road	475	119	306	750	0.634	468	513	0.0	1.7	12.528	B
2 - B3349 Barkham Road (E)	458	115	258	994	0.461	455	516	0.0	0.8	6.638	A
3 - B3349 Barkham Road (W)	554	139	268	1316	0.421	551	445	0.0	0.7	4.691	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
1 - Bearwood Road	567	142	366	712	0.796	560	615	1.7	3.5	22.591	C
2 - B3349 Barkham Road (E)	547	137	308	961	0.570	546	618	0.8	1.3	8.625	A
3 - B3349 Barkham Road (W)	662	165	321	1278	0.518	660	533	0.7	1.1	5.819	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
1 - Bearwood Road	695	174	447	662	1.049	636	751	3.5	18.1	78.099	F
2 - B3349 Barkham Road (E)	671	168	350	934	0.718	666	734	1.3	2.4	13.215	B
3 - B3349 Barkham Road (W)	810	203	392	1227	0.661	807	624	1.1	1.9	8.506	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
1 - Bearwood Road	695	174	449	661	1.051	652	755	18.1	28.9	143.243	F
2 - B3349 Barkham Road (E)	671	168	358	928	0.722	670	743	2.4	2.5	13.900	B
3 - B3349 Barkham Road (W)	810	203	394	1225	0.661	810	635	1.9	1.9	8.671	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
1 - Bearwood Road	567	142	369	711	0.798	663	621	28.9	5.0	86.772	F
2 - B3349 Barkham Road (E)	547	137	364	924	0.592	552	667	2.5	1.5	9.763	A
3 - B3349 Barkham Road (W)	662	165	324	1275	0.519	665	592	1.9	1.1	5.934	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
1 - Bearwood Road	475	119	308	748	0.635	488	519	5.0	1.8	14.461	B
2 - B3349 Barkham Road (E)	458	115	268	987	0.464	461	528	1.5	0.9	6.872	A
3 - B3349 Barkham Road (W)	554	139	271	1313	0.422	556	458	1.1	0.7	4.761	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	262.31	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-29	1 - Bearwood Road	262.31	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2040	WSTM-SC2	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	773	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	673	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	1016	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	344	429
	2 - B3349 Barkham Road (E)	332	0	341
	3 - B3349 Barkham Road (W)	511	505	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	0	1
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	0	1	33

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)
1 - Bearwood Road	1.42	788.54	152.0	F	709	1064
2 - B3349 Barkham Road (E)	0.79	17.63	3.5	C	618	926
3 - B3349 Barkham Road (W)	0.89	25.40	7.4	D	932	1398

Main Results for each time segment

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
1 - Bearwood Road	582	145	378	711	0.819	566	630	0.0	3.9	22.941	C
2 - B3349 Barkham Road (E)	507	127	314	956	0.530	502	630	0.0	1.1	7.860	A
3 - B3349 Barkham Road (W)	765	191	248	1337	0.572	760	569	0.0	1.3	6.186	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
1 - Bearwood Road	695	174	452	664	1.046	639	755	3.9	18.0	79.076	F
2 - B3349 Barkham Road (E)	605	151	354	929	0.651	602	736	1.1	1.8	10.916	B
3 - B3349 Barkham Road (W)	913	228	297	1301	0.702	910	660	1.3	2.3	9.105	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
1 - Bearwood Road	851	213	547	605	1.406	604	916	18.0	79.7	305.211	F
2 - B3349 Barkham Road (E)	741	185	335	942	0.787	735	816	1.8	3.4	16.828	C
3 - B3349 Barkham Road (W)	1119	280	362	1254	0.892	1101	707	2.3	6.8	21.357	C

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
1 - Bearwood Road	851	213	555	600	1.417	600	927	79.7	142.4	650.833	F
2 - B3349 Barkham Road (E)	741	185	333	943	0.785	741	822	3.4	3.5	17.627	C
3 - B3349 Barkham Road (W)	1119	280	365	1252	0.894	1116	708	6.8	7.4	25.404	D

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
1 - Bearwood Road	695	174	464	657	1.058	656	771	142.4	152.0	788.538	F
2 - B3349 Barkham Road (E)	605	151	364	923	0.656	611	756	3.5	2.0	11.767	B
3 - B3349 Barkham Road (W)	913	228	302	1298	0.704	933	674	7.4	2.5	10.381	B

09:00 - 09:15

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
1 - Bearwood Road	582	145	382	708	0.822	703	638	152.0	121.8	701.901	F
2 - B3349 Barkham Road (E)	507	127	390	906	0.559	509	695	2.0	1.3	9.142	A
3 - B3349 Barkham Road (W)	765	191	251	1334	0.573	769	648	2.5	1.4	6.425	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	101.78	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-20	1 - Bearwood Road	101.78	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2040	WSTM-SC2	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	674	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	687	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	760	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	298	376
	2 - B3349 Barkham Road (E)	377	0	310
	3 - B3349 Barkham Road (W)	309	451	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	3	0
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	1	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)
1 - Bearwood Road	1.17	288.86	63.0	F	618	928
2 - B3349 Barkham Road (E)	0.81	20.05	4.0	C	630	946
3 - B3349 Barkham Road (W)	0.69	9.62	2.2	A	697	1046

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
1 - Bearwood Road	507	127	338	730	0.695	499	513	0.0	2.2	15.072	C
2 - B3349 Barkham Road (E)	517	129	278	981	0.527	513	558	0.0	1.1	7.621	A
3 - B3349 Barkham Road (W)	572	143	281	1306	0.438	569	510	0.0	0.8	4.866	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
1 - Bearwood Road	606	151	405	689	0.880	592	614	2.2	5.6	33.248	D
2 - B3349 Barkham Road (E)	618	154	330	947	0.652	615	666	1.1	1.8	10.737	B
3 - B3349 Barkham Road (W)	683	171	337	1266	0.540	682	608	0.8	1.2	6.148	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
1 - Bearwood Road	742	186	494	633	1.172	624	749	5.6	35.1	134.180	F
2 - B3349 Barkham Road (E)	756	189	348	935	0.809	748	770	1.8	3.8	18.485	C
3 - B3349 Barkham Road (W)	837	209	411	1213	0.690	833	686	1.2	2.2	9.367	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
1 - Bearwood Road	742	186	496	632	1.175	630	755	35.1	63.0	287.676	F
2 - B3349 Barkham Road (E)	756	189	352	933	0.811	756	775	3.8	4.0	20.050	C
3 - B3349 Barkham Road (W)	837	209	415	1210	0.691	837	693	2.2	2.2	9.623	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
1 - Bearwood Road	606	151	408	687	0.883	676	622	63.0	45.5	288.859	F
2 - B3349 Barkham Road (E)	618	154	377	916	0.674	625	707	4.0	2.1	12.661	B
3 - B3349 Barkham Road (W)	683	171	343	1262	0.542	687	659	2.2	1.2	6.313	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
1 - Bearwood Road	507	127	341	728	0.697	679	519	45.5	2.8	113.330	F
2 - B3349 Barkham Road (E)	517	129	379	915	0.565	520	640	2.1	1.3	9.189	A
3 - B3349 Barkham Road (W)	572	143	286	1303	0.439	574	613	1.2	0.8	4.951	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	317.50	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-31	1 - Bearwood Road	317.50	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2040	WSTM-SC3a	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	786	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	674	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	1070	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	344	442
	2 - B3349 Barkham Road (E)	331	0	343
	3 - B3349 Barkham Road (W)	542	528	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	0	1
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	0	1	33

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)
1 - Bearwood Road	1.48	956.85	177.8	F	721	1082
2 - B3349 Barkham Road (E)	0.79	17.52	3.5	C	618	928
3 - B3349 Barkham Road (W)	0.94	38.35	11.8	E	982	1473

Main Results for each time segment

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
1 - Bearwood Road	592	148	395	700	0.845	574	652	0.0	4.5	25.675	D
2 - B3349 Barkham Road (E)	507	127	323	950	0.534	503	646	0.0	1.1	7.963	A
3 - B3349 Barkham Road (W)	806	201	247	1337	0.602	800	578	0.0	1.5	6.626	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
1 - Bearwood Road	707	177	472	652	1.084	634	781	4.5	22.7	95.690	F
2 - B3349 Barkham Road (E)	606	151	356	928	0.653	603	750	1.1	1.8	10.979	B
3 - B3349 Barkham Road (W)	962	240	296	1302	0.739	957	663	1.5	2.7	10.297	B

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
1 - Bearwood Road	865	216	567	593	1.460	592	943	22.7	91.1	360.309	F
2 - B3349 Barkham Road (E)	742	186	333	944	0.786	736	826	1.8	3.4	16.801	C
3 - B3349 Barkham Road (W)	1178	295	361	1255	0.939	1149	707	2.7	9.9	28.491	D

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
1 - Bearwood Road	865	216	578	586	1.477	586	957	91.1	161.0	752.664	F
2 - B3349 Barkham Road (E)	742	186	330	946	0.785	742	834	3.4	3.5	17.523	C
3 - B3349 Barkham Road (W)	1178	295	364	1253	0.940	1171	707	9.9	11.8	38.352	E

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
1 - Bearwood Road	707	177	492	639	1.105	639	806	161.0	177.8	956.854	F
2 - B3349 Barkham Road (E)	606	151	359	926	0.654	612	772	3.5	2.0	11.678	B
3 - B3349 Barkham Road (W)	962	240	301	1298	0.741	997	671	11.8	3.0	13.207	B

09:00 - 09:15

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
1 - Bearwood Road	592	148	400	696	0.850	693	661	177.8	152.6	859.508	F
2 - B3349 Barkham Road (E)	507	127	389	906	0.560	510	703	2.0	1.3	9.145	A
3 - B3349 Barkham Road (W)	806	201	250	1335	0.604	811	649	3.0	1.6	6.955	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	136.51	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-22	1 - Bearwood Road	136.51	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2040	WSTM-SC3a	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	698	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	697	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	764	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	309	389
	2 - B3349 Barkham Road (E)	371	0	326
	3 - B3349 Barkham Road (W)	305	459	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	3	0
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	1	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)
1 - Bearwood Road	1.23	390.48	79.5	F	640	961
2 - B3349 Barkham Road (E)	0.82	21.06	4.3	C	640	959
3 - B3349 Barkham Road (W)	0.69	9.61	2.2	A	701	1052

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
1 - Bearwood Road	525	131	344	726	0.724	516	505	0.0	2.5	16.427	C
2 - B3349 Barkham Road (E)	525	131	287	975	0.538	520	572	0.0	1.1	7.835	A
3 - B3349 Barkham Road (W)	575	144	277	1309	0.439	572	531	0.0	0.8	4.865	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
1 - Bearwood Road	627	157	412	684	0.917	609	605	2.5	7.2	40.035	E
2 - B3349 Barkham Road (E)	627	157	339	941	0.666	623	681	1.1	1.9	11.212	B
3 - B3349 Barkham Road (W)	687	172	332	1270	0.541	685	631	0.8	1.2	6.145	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
1 - Bearwood Road	769	192	503	628	1.224	622	738	7.2	43.8	163.661	F
2 - B3349 Barkham Road (E)	767	192	347	936	0.819	759	778	1.9	4.1	19.360	C
3 - B3349 Barkham Road (W)	841	210	404	1218	0.691	837	702	1.2	2.2	9.356	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
1 - Bearwood Road	769	192	505	626	1.227	626	744	43.8	79.5	358.512	F
2 - B3349 Barkham Road (E)	767	192	349	935	0.821	767	782	4.1	4.3	21.060	C
3 - B3349 Barkham Road (W)	841	210	408	1215	0.692	841	707	2.2	2.2	9.612	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
1 - Bearwood Road	627	157	415	682	0.920	674	614	79.5	68.0	390.481	F
2 - B3349 Barkham Road (E)	627	157	375	918	0.683	635	713	4.3	2.2	13.076	B
3 - B3349 Barkham Road (W)	687	172	338	1265	0.543	691	672	2.2	1.2	6.312	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
1 - Bearwood Road	525	131	347	724	0.725	714	511	68.0	20.9	229.132	F
2 - B3349 Barkham Road (E)	525	131	398	903	0.581	528	663	2.2	1.4	9.684	A
3 - B3349 Barkham Road (W)	575	144	281	1306	0.440	577	645	1.2	0.8	4.949	A

D9 - 2040 | WSTM-SC3b | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	327.56	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-31	1 - Bearwood Road	327.56	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2040	WSTM-SC3b	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	790	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	676	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	1078	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	344	446
	2 - B3349 Barkham Road (E)	331	0	345
	3 - B3349 Barkham Road (W)	547	531	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	0	1
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	0	1	33

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)
1 - Bearwood Road	1.49	985.73	183.5	F	725	1087
2 - B3349 Barkham Road (E)	0.79	17.73	3.6	C	620	930
3 - B3349 Barkham Road (W)	0.95	41.10	12.7	E	989	1484

Main Results for each time segment

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
1 - Bearwood Road	595	149	397	699	0.851	576	656	0.0	4.7	26.326	D
2 - B3349 Barkham Road (E)	509	127	325	949	0.536	504	648	0.0	1.1	8.022	A
3 - B3349 Barkham Road (W)	812	203	247	1337	0.607	806	583	0.0	1.5	6.699	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
1 - Bearwood Road	710	178	475	650	1.093	633	785	4.7	23.9	99.519	F
2 - B3349 Barkham Road (E)	608	152	358	927	0.655	605	751	1.1	1.8	11.062	B
3 - B3349 Barkham Road (W)	969	242	296	1302	0.745	964	666	1.5	2.8	10.500	B

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
1 - Bearwood Road	870	217	569	591	1.471	591	948	23.9	93.7	372.385	F
2 - B3349 Barkham Road (E)	744	186	333	943	0.789	738	826	1.8	3.4	16.985	C
3 - B3349 Barkham Road (W)	1187	297	361	1255	0.946	1156	710	2.8	10.6	29.823	D

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
1 - Bearwood Road	870	217	580	584	1.488	584	962	93.7	165.1	774.273	F
2 - B3349 Barkham Road (E)	744	186	330	946	0.787	744	835	3.4	3.6	17.728	C
3 - B3349 Barkham Road (W)	1187	297	364	1253	0.948	1178	710	10.6	12.7	41.096	E

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
1 - Bearwood Road	710	178	496	637	1.115	636	812	165.1	183.5	985.730	F
2 - B3349 Barkham Road (E)	608	152	359	926	0.656	614	774	3.6	2.0	11.753	B
3 - B3349 Barkham Road (W)	969	242	301	1298	0.746	1008	673	12.7	3.1	13.867	B

09:00 - 09:15

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
1 - Bearwood Road	595	149	403	695	0.856	691	665	183.5	159.4	893.525	F
2 - B3349 Barkham Road (E)	509	127	390	906	0.562	512	704	2.0	1.3	9.191	A
3 - B3349 Barkham Road (W)	812	203	250	1335	0.608	818	651	3.1	1.6	7.044	A

D10 - 2040 | WSTM-SC3b | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	124.36	F

Junction Network

Driving side	Lighting	Road surface	In London	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	Normal/unknown		-22	1 - Bearwood Road	124.36	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2040	WSTM-SC3b	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1 - Bearwood Road		ONE HOUR	✓	687	100.000
2 - B3349 Barkham Road (E)		ONE HOUR	✓	702	100.000
3 - B3349 Barkham Road (W)		ONE HOUR	✓	779	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	298	389
	2 - B3349 Barkham Road (E)	372	0	330
	3 - B3349 Barkham Road (W)	317	462	0

Vehicle Mix

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

Heavy Vehicle %

	To			
		1 - Bearwood Road	2 - B3349 Barkham Road (E)	3 - B3349 Barkham Road (W)
From	1 - Bearwood Road	0	3	0
	2 - B3349 Barkham Road (E)	2	0	1
	3 - B3349 Barkham Road (W)	1	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)
1 - Bearwood Road	1.21	358.31	74.1	F	630	946
2 - B3349 Barkham Road (E)	0.83	22.09	4.5	C	644	966
3 - B3349 Barkham Road (W)	0.71	10.08	2.4	B	715	1072

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
1 - Bearwood Road	517	129	346	725	0.713	508	515	0.0	2.3	15.967	C
2 - B3349 Barkham Road (E)	529	132	288	975	0.542	524	566	0.0	1.2	7.900	A
3 - B3349 Barkham Road (W)	586	147	278	1308	0.448	583	534	0.0	0.8	4.942	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
1 - Bearwood Road	618	154	414	683	0.905	601	617	2.3	6.6	37.680	E
2 - B3349 Barkham Road (E)	631	158	340	941	0.671	628	675	1.2	2.0	11.384	B
3 - B3349 Barkham Road (W)	700	175	333	1269	0.552	699	635	0.8	1.2	6.295	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
1 - Bearwood Road	756	189	506	626	1.208	619	752	6.6	40.8	154.261	F
2 - B3349 Barkham Road (E)	773	193	351	934	0.828	764	775	2.0	4.3	20.121	C
3 - B3349 Barkham Road (W)	858	214	405	1217	0.705	853	710	1.2	2.3	9.771	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
1 - Bearwood Road	756	189	509	625	1.211	624	758	40.8	74.1	336.500	F
2 - B3349 Barkham Road (E)	773	193	353	932	0.829	772	779	4.3	4.5	22.091	C
3 - B3349 Barkham Road (W)	858	214	409	1214	0.706	857	716	2.3	2.4	10.075	B

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
1 - Bearwood Road	618	154	418	680	0.908	671	626	74.1	60.6	358.314	F
2 - B3349 Barkham Road (E)	631	158	380	915	0.690	640	709	4.5	2.3	13.500	B
3 - B3349 Barkham Road (W)	700	175	339	1264	0.554	705	681	2.4	1.3	6.483	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
1 - Bearwood Road	517	129	349	723	0.715	711	521	60.6	12.1	190.280	F
2 - B3349 Barkham Road (E)	529	132	403	900	0.587	532	657	2.3	1.5	9.878	A
3 - B3349 Barkham Road (W)	586	147	282	1305	0.449	588	653	1.3	0.8	5.031	A

