

Appendix R – Junction 10: John Ormsby / Owl Lane

Junctions 9	
ARCADY 9 - Roundabout Module	
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Filename: Junc 10 John Ormsby Way - Owl Lane - Feb 2020.j9

Path: P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\2019\Off-Site\Junctions9

Report generation date: 02/03/2020 14:19:12

-
- »2019 Base, AM
 - »2019 Base, PM
 - »2024 DN, AM
 - »2024 DN, PM
 - »2030 DN, AM
 - »2030 DN, PM
 - »2024 DS(A), AM
 - »2024 DS(A), PM
 - »2024 DS(A+B), AM
 - »2024 DS(A+B), PM
 - »2030 DS(A), AM
 - »2030 DS(A), PM
 - »2030 DS(A+B), AM
 - »2030 DS(A+B), PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2019 Base							
1 - John Ormsby Way	1.1	5.40	0.50	A	0.8	4.60	0.42	A
2 - Owl Lane (north)	0.3	4.18	0.22	A	0.2	3.72	0.17	A
3 - Owl Lane (southeast)	3.9	11.83	0.79	B	1.4	5.42	0.57	A
4 - Horace Waller Vc Parade	0.2	6.94	0.10	A	0.7	6.75	0.39	A
	2024 DN							
1 - John Ormsby Way	1.1	5.66	0.52	A	0.7	4.51	0.41	A
2 - Owl Lane (north)	0.3	4.38	0.25	A	0.2	3.67	0.17	A
3 - Owl Lane (southeast)	5.8	16.51	0.85	C	1.5	5.62	0.59	A
4 - Horace Waller Vc Parade	0.2	7.51	0.11	A	0.7	6.99	0.40	A
	2030 DN							
1 - John Ormsby Way	1.2	5.89	0.53	A	0.7	4.43	0.39	A
2 - Owl Lane (north)	0.4	4.62	0.28	A	0.2	3.68	0.18	A
3 - Owl Lane (southeast)	8.4	23.20	0.90	C	1.5	5.60	0.59	A
4 - Horace Waller Vc Parade	0.2	8.00	0.12	A	0.7	6.98	0.40	A
	2024 DS(A)							
1 - John Ormsby Way	1.1	5.36	0.52	A	0.7	4.41	0.41	A
2 - Owl Lane (north)	0.3	4.21	0.25	A	0.2	3.57	0.17	A
3 - Owl Lane (southeast)	5.6	16.05	0.86	C	1.4	5.42	0.59	A
4 - Horace Waller Vc Parade	0.1	5.31	0.11	A	0.7	6.77	0.41	A
	2024 DS(A+B)							
1 - John Ormsby Way	1.1	5.56	0.53	A	0.7	4.43	0.41	A
2 - Owl Lane (north)	0.3	4.24	0.26	A	0.2	3.67	0.20	A
3 - Owl Lane (southeast)	6.5	18.32	0.88	C	1.5	5.48	0.59	A
4 - Horace Waller Vc Parade	0.1	5.52	0.13	A	0.7	6.80	0.41	A
	2030 DS(A)							
1 - John Ormsby Way	1.1	5.59	0.54	A	0.7	4.36	0.40	A
2 - Owl Lane (north)	0.4	4.48	0.29	A	0.2	3.59	0.19	A
3 - Owl Lane (southeast)	8.3	22.99	0.90	C	1.4	5.43	0.59	A
4 - Horace Waller Vc Parade	0.1	5.67	0.13	A	0.7	6.81	0.41	A
	2030 DS(A+B)							
1 - John Ormsby Way	1.5	6.99	0.61	A	1.6	8.03	0.61	A
2 - Owl Lane (north)	0.8	6.07	0.46	A	0.9	6.25	0.48	A
3 - Owl Lane (southeast)	139.0	303.34	1.17	F	5.0	14.01	0.84	B
4 - Horace Waller Vc Parade	0.2	6.76	0.18	A	1.9	15.79	0.66	C

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

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

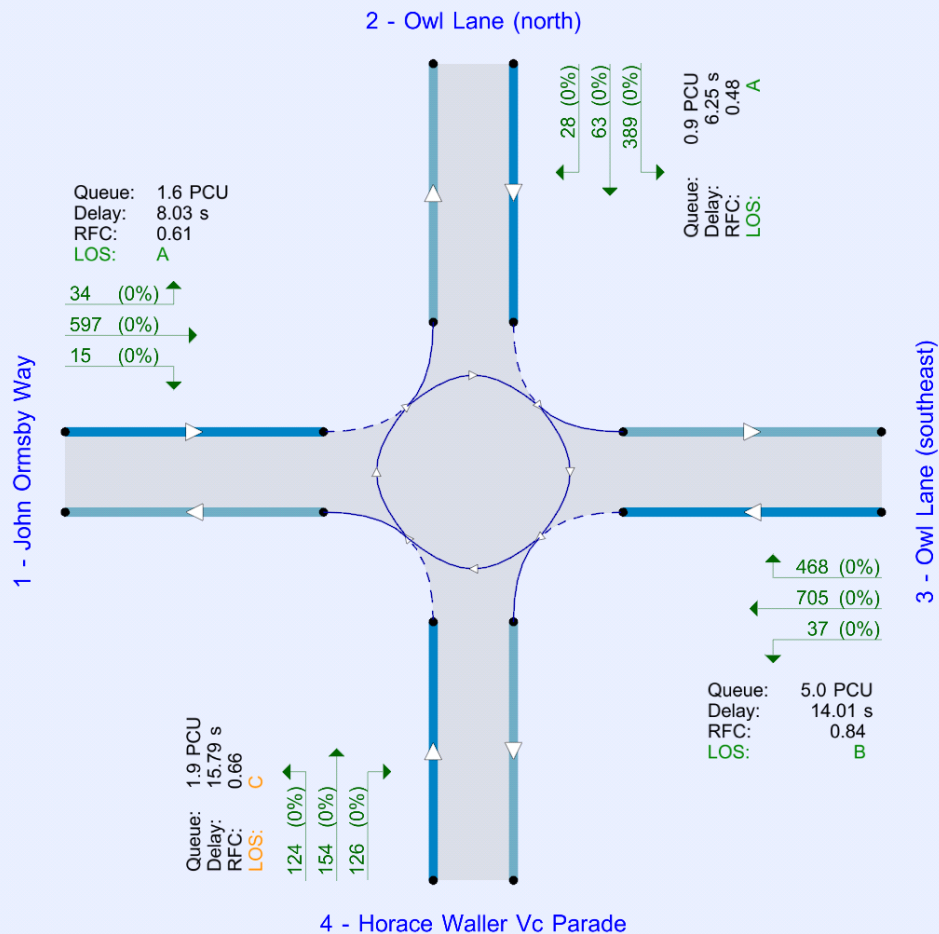
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	27/06/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	WYG\tim.delaat
Description	

Units

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



The junction diagram reflects the last run of Junctions.

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 Base	AM	ONE HOUR	07:05	08:35	15	✓
D2	2019 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2024 DN	AM	ONE HOUR	07:05	08:35	15	✓
D4	2024 DN	PM	ONE HOUR	16:15	17:45	15	✓
D5	2030 DN	AM	ONE HOUR	07:05	08:35	15	✓
D6	2030 DN	PM	ONE HOUR	16:15	17:45	15	✓
D7	2024 DS(A)	AM	ONE HOUR	07:05	08:35	15	✓
D8	2024 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓
D9	2024 DS(A+B)	AM	ONE HOUR	07:05	08:35	15	✓
D10	2024 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓
D11	2030 DS(A)	AM	ONE HOUR	07:05	08:35	15	✓
D12	2030 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓
D13	2030 DS(A+B)	AM	ONE HOUR	07:05	08:35	15	✓
D14	2030 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

2019 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	8.77	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	John Ormsby Way	
2	Owl Lane (north)	
3	Owl Lane (southeast)	
4	Horace Waller Vc Parade	

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
1 - John Ormsby Way	3.63	7.11	13.0	11.8	36.9	14.0	
2 - Owl Lane (north)	3.42	6.35	13.3	22.0	36.4	16.0	
3 - Owl Lane (southeast)	3.60	6.30	19.1	15.7	36.9	24.0	
4 - Horace Waller Vc Parade	3.63	5.94	7.5	19.8	36.9	24.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1 - John Ormsby Way	0.656	1703
2 - Owl Lane (north)	0.653	1640
3 - Owl Lane (southeast)	0.644	1666
4 - Horace Waller Vc Parade	0.611	1484

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 Base	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	649	100.000
2 - Owl Lane (north)		ONE HOUR	✓	234	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1110	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	77	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
From	1 - John Ormsby Way	2	15	539	93
	2 - Owl Lane (north)	24	0	147	63
	3 - Owl Lane (southeast)	624	340	0	146
	4 - Horace Waller Vc Parade	23	17	37	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
From	1 - John Ormsby Way	0	8	6	4
	2 - Owl Lane (north)	0	0	7	1
	3 - Owl Lane (southeast)	4	4	0	5
	4 - Horace Waller Vc Parade	43	32	45	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.50	5.40	1.1	A	596	893
2 - Owl Lane (north)	0.22	4.18	0.3	A	215	322
3 - Owl Lane (southeast)	0.79	11.83	3.9	B	1019	1528
4 - Horace Waller Vc Parade	0.10	6.94	0.2	A	71	106

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	489	122	295	1510	0.324	487	504	0.0	0.5	3.714	A
2 - Owl Lane (north)	176	44	503	1311	0.134	176	279	0.0	0.2	3.312	A
3 - Owl Lane (southeast)	836	209	136	1579	0.529	831	542	0.0	1.2	4.984	A
4 - Horace Waller Vc Parade	58	14	741	1031	0.056	58	226	0.0	0.1	5.228	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	583	146	353	1472	0.396	583	603	0.5	0.7	4.278	A
2 - Owl Lane (north)	210	53	602	1247	0.169	210	334	0.2	0.2	3.632	A
3 - Owl Lane (southeast)	998	249	163	1561	0.639	995	649	1.2	1.8	6.593	A
4 - Horace Waller Vc Parade	69	17	888	941	0.074	69	271	0.1	0.1	5.834	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	715	179	431	1421	0.503	713	736	0.7	1.1	5.370	A
2 - Owl Lane (north)	258	64	737	1158	0.222	257	407	0.2	0.3	4.178	A
3 - Owl Lane (southeast)	1222	306	200	1538	0.795	1214	795	1.8	3.8	11.312	B
4 - Horace Waller Vc Parade	85	21	1083	822	0.103	85	331	0.1	0.2	6.898	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	715	179	434	1419	0.504	715	741	1.1	1.1	5.403	A
2 - Owl Lane (north)	258	64	739	1157	0.223	258	409	0.3	0.3	4.183	A
3 - Owl Lane (southeast)	1222	306	200	1537	0.795	1222	796	3.8	3.9	11.826	B
4 - Horace Waller Vc Parade	85	21	1090	818	0.104	85	332	0.2	0.2	6.939	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	583	146	357	1469	0.397	585	610	1.1	0.7	4.310	A
2 - Owl Lane (north)	210	53	605	1245	0.169	211	337	0.3	0.2	3.642	A
3 - Owl Lane (southeast)	998	249	164	1561	0.639	1006	651	3.9	1.9	6.850	A
4 - Horace Waller Vc Parade	69	17	897	936	0.074	69	273	0.2	0.1	5.877	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	489	122	298	1508	0.324	489	508	0.7	0.5	3.741	A
2 - Owl Lane (north)	176	44	506	1310	0.135	176	281	0.2	0.2	3.324	A
3 - Owl Lane (southeast)	836	209	137	1578	0.530	838	545	1.9	1.2	5.088	A
4 - Horace Waller Vc Parade	58	14	748	1027	0.056	58	228	0.1	0.1	5.252	A

2019 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.25	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
D2	2019 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	539	100.000
2 - Owl Lane (north)		ONE HOUR	✓	185	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	844	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	324	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	1	34	487	17
	2 - Owl Lane (north)	28	0	143	14
	3 - Owl Lane (southeast)	592	228	2	22
	4 - Horace Waller Vc Parade	130	94	99	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	5	2	19
	2 - Owl Lane (north)	0	0	3	14
	3 - Owl Lane (southeast)	5	2	0	17
	4 - Horace Waller Vc Parade	4	4	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.42	4.60	0.8	A	495	742
2 - Owl Lane (north)	0.17	3.72	0.2	A	170	255
3 - Owl Lane (southeast)	0.57	5.42	1.4	A	774	1162
4 - Horace Waller Vc Parade	0.39	6.75	0.7	A	297	446

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	406	101	318	1495	0.271	404	563	0.0	0.4	3.384	A
2 - Owl Lane (north)	139	35	455	1343	0.104	139	267	0.0	0.1	3.086	A
3 - Owl Lane (southeast)	635	159	46	1637	0.388	633	548	0.0	0.7	3.735	A
4 - Horace Waller Vc Parade	244	61	638	1094	0.223	243	40	0.0	0.3	4.392	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	485	121	381	1454	0.333	484	674	0.4	0.5	3.808	A
2 - Owl Lane (north)	166	42	545	1284	0.130	166	320	0.1	0.2	3.325	A
3 - Owl Lane (southeast)	759	190	55	1631	0.465	758	656	0.7	0.9	4.300	A
4 - Horace Waller Vc Parade	291	73	764	1017	0.286	291	48	0.3	0.4	5.153	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	593	148	466	1398	0.425	592	825	0.5	0.8	4.582	A
2 - Owl Lane (north)	204	51	667	1204	0.169	203	391	0.2	0.2	3.715	A
3 - Owl Lane (southeast)	929	232	67	1623	0.572	927	803	0.9	1.4	5.386	A
4 - Horace Waller Vc Parade	357	89	935	912	0.391	356	59	0.4	0.7	6.713	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	593	148	467	1397	0.425	593	827	0.8	0.8	4.597	A
2 - Owl Lane (north)	204	51	668	1203	0.169	204	392	0.2	0.2	3.718	A
3 - Owl Lane (southeast)	929	232	67	1623	0.572	929	805	1.4	1.4	5.417	A
4 - Horace Waller Vc Parade	357	89	937	911	0.392	357	59	0.7	0.7	6.751	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	485	121	382	1453	0.334	485	677	0.8	0.5	3.826	A
2 - Owl Lane (north)	166	42	547	1283	0.130	167	321	0.2	0.2	3.333	A
3 - Owl Lane (southeast)	759	190	55	1631	0.465	761	658	1.4	0.9	4.329	A
4 - Horace Waller Vc Parade	291	73	767	1015	0.287	292	49	0.7	0.4	5.185	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	406	101	320	1494	0.272	406	566	0.5	0.4	3.399	A
2 - Owl Lane (north)	139	35	458	1341	0.104	139	268	0.2	0.1	3.096	A
3 - Owl Lane (southeast)	635	159	46	1637	0.388	636	551	0.9	0.7	3.760	A
4 - Horace Waller Vc Parade	244	61	642	1092	0.223	244	41	0.4	0.3	4.421	A

2024 DN, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	11.47	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 DN	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	662	100.000
2 - Owl Lane (north)		ONE HOUR	✓	259	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1190	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	80	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	2	15	552	93
	2 - Owl Lane (north)	24	0	166	69
	3 - Owl Lane (southeast)	677	363	0	150
	4 - Horace Waller Vc Parade	24	16	40	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	8	6	4
	2 - Owl Lane (north)	0	0	7	1
	3 - Owl Lane (southeast)	4	4	0	5
	4 - Horace Waller Vc Parade	43	32	45	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.52	5.66	1.1	A	607	911
2 - Owl Lane (north)	0.25	4.38	0.3	A	238	356
3 - Owl Lane (southeast)	0.85	16.51	5.8	C	1092	1638
4 - Horace Waller Vc Parade	0.11	7.51	0.2	A	73	110

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	498	125	314	1498	0.333	496	544	0.0	0.5	3.793	A
2 - Owl Lane (north)	195	49	515	1304	0.150	194	295	0.0	0.2	3.395	A
3 - Owl Lane (southeast)	896	224	141	1576	0.569	890	568	0.0	1.4	5.429	A
4 - Horace Waller Vc Parade	60	15	798	996	0.060	60	234	0.0	0.1	5.445	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	595	149	376	1457	0.408	594	652	0.5	0.7	4.409	A
2 - Owl Lane (north)	233	58	617	1237	0.188	233	353	0.2	0.2	3.750	A
3 - Owl Lane (southeast)	1070	267	169	1558	0.687	1066	681	1.4	2.2	7.572	A
4 - Horace Waller Vc Parade	72	18	955	900	0.080	72	280	0.1	0.1	6.155	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	729	182	457	1404	0.519	727	793	0.7	1.1	5.615	A
2 - Owl Lane (north)	285	71	755	1147	0.249	285	430	0.2	0.3	4.368	A
3 - Owl Lane (southeast)	1310	328	207	1533	0.854	1297	833	2.2	5.5	15.083	C
4 - Horace Waller Vc Parade	88	22	1162	774	0.114	88	342	0.1	0.2	7.433	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	729	182	461	1401	0.520	729	800	1.1	1.1	5.662	A
2 - Owl Lane (north)	285	71	756	1146	0.249	285	433	0.3	0.3	4.376	A
3 - Owl Lane (southeast)	1310	328	207	1533	0.855	1309	835	5.5	5.8	16.513	C
4 - Horace Waller Vc Parade	88	22	1173	767	0.115	88	343	0.2	0.2	7.506	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	595	149	381	1453	0.409	597	661	1.1	0.7	4.452	A
2 - Owl Lane (north)	233	58	619	1236	0.188	233	358	0.3	0.2	3.759	A
3 - Owl Lane (southeast)	1070	267	169	1557	0.687	1083	683	5.8	2.3	8.125	A
4 - Horace Waller Vc Parade	72	18	970	891	0.081	72	283	0.2	0.1	6.231	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	498	125	317	1496	0.333	499	550	0.7	0.5	3.825	A
2 - Owl Lane (north)	195	49	518	1302	0.150	195	298	0.2	0.2	3.408	A
3 - Owl Lane (southeast)	896	224	142	1575	0.569	900	572	2.3	1.4	5.581	A
4 - Horace Waller Vc Parade	60	15	806	991	0.061	60	236	0.1	0.1	5.477	A

2024 DN, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.37	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 DN	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	513	100.000
2 - Owl Lane (north)		ONE HOUR	✓	187	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	867	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	328	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	1	34	462	16
	2 - Owl Lane (north)	28	0	144	15
	3 - Owl Lane (southeast)	601	241	2	23
	4 - Horace Waller Vc Parade	128	95	104	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	5	2	19
	2 - Owl Lane (north)	0	0	3	14
	3 - Owl Lane (southeast)	5	2	0	17
	4 - Horace Waller Vc Parade	4	4	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.41	4.51	0.7	A	471	706
2 - Owl Lane (north)	0.17	3.67	0.2	A	172	257
3 - Owl Lane (southeast)	0.59	5.62	1.5	A	796	1193
4 - Horace Waller Vc Parade	0.40	6.99	0.7	A	301	451

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	386	97	332	1486	0.260	385	568	0.0	0.4	3.352	A
2 - Owl Lane (north)	141	35	439	1353	0.104	140	277	0.0	0.1	3.065	A
3 - Owl Lane (southeast)	653	163	46	1637	0.399	650	534	0.0	0.7	3.797	A
4 - Horace Waller Vc Parade	247	62	654	1084	0.228	246	41	0.0	0.3	4.461	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	461	115	398	1443	0.320	461	680	0.4	0.5	3.761	A
2 - Owl Lane (north)	168	42	526	1296	0.130	168	332	0.1	0.2	3.296	A
3 - Owl Lane (southeast)	779	195	55	1631	0.478	778	639	0.7	0.9	4.402	A
4 - Horace Waller Vc Parade	295	74	784	1005	0.293	294	49	0.3	0.4	5.266	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	565	141	487	1384	0.408	564	833	0.5	0.7	4.500	A
2 - Owl Lane (north)	206	51	644	1219	0.169	206	406	0.2	0.2	3.669	A
3 - Owl Lane (southeast)	955	239	67	1623	0.588	952	783	0.9	1.5	5.585	A
4 - Horace Waller Vc Parade	361	90	959	898	0.402	360	60	0.4	0.7	6.949	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	565	141	488	1383	0.408	565	835	0.7	0.7	4.513	A
2 - Owl Lane (north)	206	51	645	1219	0.169	206	407	0.2	0.2	3.672	A
3 - Owl Lane (southeast)	955	239	67	1623	0.588	955	784	1.5	1.5	5.621	A
4 - Horace Waller Vc Parade	361	90	961	896	0.403	361	61	0.7	0.7	6.993	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	461	115	399	1441	0.320	462	683	0.7	0.5	3.778	A
2 - Owl Lane (north)	168	42	528	1295	0.130	168	334	0.2	0.2	3.301	A
3 - Owl Lane (southeast)	779	195	55	1631	0.478	781	641	1.5	1.0	4.434	A
4 - Horace Waller Vc Parade	295	74	787	1003	0.294	296	50	0.7	0.4	5.304	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	386	97	334	1484	0.260	387	572	0.5	0.4	3.367	A
2 - Owl Lane (north)	141	35	442	1351	0.104	141	279	0.2	0.1	3.075	A
3 - Owl Lane (southeast)	653	163	46	1637	0.399	654	537	1.0	0.7	3.826	A
4 - Horace Waller Vc Parade	247	62	658	1081	0.228	247	41	0.4	0.3	4.493	A

2030 DN, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	15.24	C

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2030 DN	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	673	100.000
2 - Owl Lane (north)		ONE HOUR	✓	290	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1254	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	82	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	2	15	568	88
	2 - Owl Lane (north)	24	0	192	74
	3 - Owl Lane (southeast)	717	381	0	156
	4 - Horace Waller Vc Parade	25	14	43	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	8	6	4
	2 - Owl Lane (north)	0	0	7	1
	3 - Owl Lane (southeast)	4	4	0	5
	4 - Horace Waller Vc Parade	43	32	45	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.53	5.89	1.2	A	618	926
2 - Owl Lane (north)	0.28	4.62	0.4	A	266	399
3 - Owl Lane (southeast)	0.90	23.20	8.4	C	1151	1726
4 - Horace Waller Vc Parade	0.12	8.00	0.2	A	75	113

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	507	127	328	1488	0.340	505	574	0.0	0.5	3.861	A
2 - Owl Lane (north)	218	55	525	1297	0.168	217	307	0.0	0.2	3.496	A
3 - Owl Lane (southeast)	944	236	141	1576	0.599	938	602	0.0	1.5	5.824	A
4 - Horace Waller Vc Parade	62	15	841	970	0.064	61	238	0.0	0.1	5.624	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	605	151	392	1446	0.418	604	688	0.5	0.8	4.517	A
2 - Owl Lane (north)	261	65	629	1229	0.212	260	367	0.2	0.3	3.894	A
3 - Owl Lane (southeast)	1127	282	169	1558	0.724	1123	721	1.5	2.6	8.530	A
4 - Horace Waller Vc Parade	74	18	1007	869	0.085	74	285	0.1	0.1	6.430	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	741	185	476	1391	0.533	739	834	0.8	1.2	5.824	A
2 - Owl Lane (north)	319	80	770	1137	0.281	319	445	0.3	0.4	4.608	A
3 - Owl Lane (southeast)	1381	345	207	1533	0.900	1360	882	2.6	7.7	19.685	C
4 - Horace Waller Vc Parade	90	23	1220	738	0.122	90	347	0.1	0.2	7.881	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	741	185	481	1388	0.534	741	844	1.2	1.2	5.887	A
2 - Owl Lane (north)	319	80	772	1136	0.281	319	451	0.4	0.4	4.620	A
3 - Owl Lane (southeast)	1381	345	207	1533	0.901	1378	884	7.7	8.4	23.197	C
4 - Horace Waller Vc Parade	90	23	1235	729	0.124	90	350	0.2	0.2	8.003	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	605	151	401	1441	0.420	607	703	1.2	0.8	4.576	A
2 - Owl Lane (north)	261	65	632	1227	0.212	261	375	0.4	0.3	3.909	A
3 - Owl Lane (southeast)	1127	282	169	1557	0.724	1150	724	8.4	2.8	9.662	A
4 - Horace Waller Vc Parade	74	18	1030	854	0.086	74	289	0.2	0.1	6.555	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	507	127	331	1486	0.341	508	581	0.8	0.6	3.896	A
2 - Owl Lane (north)	218	55	529	1295	0.169	219	310	0.3	0.2	3.506	A
3 - Owl Lane (southeast)	944	236	142	1575	0.599	949	606	2.8	1.6	6.034	A
4 - Horace Waller Vc Parade	62	15	851	964	0.064	62	240	0.1	0.1	5.669	A

2030 DN, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.33	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	2030 DN	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	491	100.000
2 - Owl Lane (north)		ONE HOUR	✓	201	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	865	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	329	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	1	34	441	15
	2 - Owl Lane (north)	28	0	158	15
	3 - Owl Lane (southeast)	590	249	2	24
	4 - Horace Waller Vc Parade	124	96	108	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	5	2	19
	2 - Owl Lane (north)	0	0	3	14
	3 - Owl Lane (southeast)	5	2	0	17
	4 - Horace Waller Vc Parade	4	4	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.39	4.43	0.7	A	451	676
2 - Owl Lane (north)	0.18	3.68	0.2	A	184	277
3 - Owl Lane (southeast)	0.59	5.60	1.5	A	794	1191
4 - Horace Waller Vc Parade	0.40	6.98	0.7	A	302	453

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	370	92	342	1479	0.250	368	557	0.0	0.3	3.321	A
2 - Owl Lane (north)	151	38	426	1362	0.111	151	284	0.0	0.1	3.069	A
3 - Owl Lane (southeast)	651	163	45	1638	0.398	648	532	0.0	0.7	3.788	A
4 - Horace Waller Vc Parade	248	62	652	1085	0.228	246	41	0.0	0.3	4.457	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	441	110	409	1435	0.308	441	667	0.3	0.5	3.715	A
2 - Owl Lane (north)	181	45	510	1307	0.138	181	340	0.1	0.2	3.301	A
3 - Owl Lane (southeast)	778	194	54	1632	0.477	777	637	0.7	0.9	4.389	A
4 - Horace Waller Vc Parade	296	74	781	1006	0.294	295	49	0.3	0.4	5.261	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	541	135	501	1375	0.393	540	816	0.5	0.7	4.420	A
2 - Owl Lane (north)	221	55	624	1232	0.180	221	416	0.2	0.2	3.678	A
3 - Owl Lane (southeast)	952	238	66	1624	0.586	950	779	0.9	1.5	5.562	A
4 - Horace Waller Vc Parade	362	91	956	900	0.403	361	60	0.4	0.7	6.938	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	541	135	502	1374	0.393	541	818	0.7	0.7	4.433	A
2 - Owl Lane (north)	221	55	625	1232	0.180	221	417	0.2	0.2	3.680	A
3 - Owl Lane (southeast)	952	238	66	1624	0.586	952	781	1.5	1.5	5.595	A
4 - Horace Waller Vc Parade	362	91	958	898	0.403	362	61	0.7	0.7	6.981	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	441	110	411	1434	0.308	442	670	0.7	0.5	3.732	A
2 - Owl Lane (north)	181	45	512	1306	0.138	181	342	0.2	0.2	3.306	A
3 - Owl Lane (southeast)	778	194	54	1632	0.477	780	639	1.5	1.0	4.422	A
4 - Horace Waller Vc Parade	296	74	784	1005	0.294	297	50	0.7	0.4	5.298	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	370	92	344	1478	0.250	370	560	0.5	0.3	3.336	A
2 - Owl Lane (north)	151	38	428	1360	0.111	151	286	0.2	0.1	3.076	A
3 - Owl Lane (southeast)	651	163	45	1637	0.398	652	534	1.0	0.7	3.821	A
4 - Horace Waller Vc Parade	248	62	656	1083	0.229	248	41	0.4	0.3	4.489	A

2024 DS(A), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	11.01	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2024 DS(A)	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	662	100.000
2 - Owl Lane (north)		ONE HOUR	✓	265	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1191	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	80	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	2	15	552	93
	2 - Owl Lane (north)	24	0	170	71
	3 - Owl Lane (southeast)	677	364	0	150
	4 - Horace Waller Vc Parade	24	16	40	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.52	5.36	1.1	A	607	911
2 - Owl Lane (north)	0.25	4.21	0.3	A	243	365
3 - Owl Lane (southeast)	0.86	16.05	5.6	C	1093	1639
4 - Horace Waller Vc Parade	0.11	5.31	0.1	A	73	110

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	498	125	314	1497	0.333	496	544	0.0	0.5	3.589	A
2 - Owl Lane (north)	200	50	515	1304	0.153	199	296	0.0	0.2	3.257	A
3 - Owl Lane (southeast)	897	224	142	1575	0.569	891	571	0.0	1.3	5.229	A
4 - Horace Waller Vc Parade	60	15	799	996	0.060	60	235	0.0	0.1	3.846	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	595	149	376	1456	0.409	594	652	0.5	0.7	4.172	A
2 - Owl Lane (north)	238	60	617	1237	0.193	238	354	0.2	0.2	3.603	A
3 - Owl Lane (southeast)	1071	268	171	1557	0.688	1067	684	1.3	2.1	7.305	A
4 - Horace Waller Vc Parade	72	18	956	899	0.080	72	282	0.1	0.1	4.350	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	729	182	458	1403	0.520	727	793	0.7	1.1	5.319	A
2 - Owl Lane (north)	292	73	755	1147	0.254	291	431	0.2	0.3	4.206	A
3 - Owl Lane (southeast)	1311	328	209	1532	0.856	1299	837	2.1	5.3	14.666	B
4 - Horace Waller Vc Parade	88	22	1164	773	0.114	88	344	0.1	0.1	5.255	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	729	182	462	1400	0.521	729	800	1.1	1.1	5.361	A
2 - Owl Lane (north)	292	73	756	1146	0.255	292	435	0.3	0.3	4.214	A
3 - Owl Lane (southeast)	1311	328	209	1532	0.856	1310	839	5.3	5.6	16.046	C
4 - Horace Waller Vc Parade	88	22	1174	766	0.115	88	346	0.1	0.1	5.306	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	595	149	382	1453	0.410	597	661	1.1	0.7	4.212	A
2 - Owl Lane (north)	238	60	619	1236	0.193	239	359	0.3	0.2	3.614	A
3 - Owl Lane (southeast)	1071	268	171	1556	0.688	1084	687	5.6	2.3	7.829	A
4 - Horace Waller Vc Parade	72	18	971	890	0.081	72	284	0.1	0.1	4.399	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	498	125	317	1495	0.333	499	549	0.7	0.5	3.619	A
2 - Owl Lane (north)	200	50	518	1302	0.153	200	299	0.2	0.2	3.269	A
3 - Owl Lane (southeast)	897	224	143	1574	0.570	900	575	2.3	1.3	5.372	A
4 - Horace Waller Vc Parade	60	15	807	991	0.061	60	237	0.1	0.1	3.870	A

2024 DS(A), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.20	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	2024 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	513	100.000
2 - Owl Lane (north)		ONE HOUR	✓	190	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	870	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	329	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	1	34	462	16
	2 - Owl Lane (north)	28	0	146	16
	3 - Owl Lane (southeast)	601	244	2	23
	4 - Horace Waller Vc Parade	128	96	104	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.41	4.41	0.7	A	471	706
2 - Owl Lane (north)	0.17	3.57	0.2	A	174	262
3 - Owl Lane (southeast)	0.59	5.42	1.4	A	799	1198
4 - Horace Waller Vc Parade	0.41	6.77	0.7	A	302	453

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	386	97	335	1483	0.260	385	568	0.0	0.4	3.272	A
2 - Owl Lane (north)	143	36	440	1353	0.106	143	280	0.0	0.1	2.975	A
3 - Owl Lane (southeast)	655	164	47	1637	0.400	653	536	0.0	0.7	3.650	A
4 - Horace Waller Vc Parade	248	62	657	1082	0.229	247	42	0.0	0.3	4.302	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	461	115	402	1440	0.320	461	681	0.4	0.5	3.674	A
2 - Owl Lane (north)	171	43	526	1296	0.132	171	336	0.1	0.2	3.198	A
3 - Owl Lane (southeast)	782	196	56	1631	0.480	781	641	0.7	0.9	4.233	A
4 - Horace Waller Vc Parade	296	74	787	1003	0.295	295	50	0.3	0.4	5.084	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	565	141	491	1381	0.409	564	833	0.5	0.7	4.400	A
2 - Owl Lane (north)	209	52	644	1219	0.172	209	411	0.2	0.2	3.563	A
3 - Owl Lane (southeast)	958	240	68	1623	0.591	956	785	0.9	1.4	5.386	A
4 - Horace Waller Vc Parade	362	91	963	895	0.405	361	62	0.4	0.7	6.728	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	565	141	492	1380	0.409	565	835	0.7	0.7	4.413	A
2 - Owl Lane (north)	209	52	646	1218	0.172	209	412	0.2	0.2	3.566	A
3 - Owl Lane (southeast)	958	240	68	1623	0.591	958	786	1.4	1.4	5.418	A
4 - Horace Waller Vc Parade	362	91	965	894	0.405	362	62	0.7	0.7	6.767	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	461	115	403	1439	0.321	462	683	0.7	0.5	3.690	A
2 - Owl Lane (north)	171	43	528	1295	0.132	171	337	0.2	0.2	3.205	A
3 - Owl Lane (southeast)	782	196	56	1631	0.480	784	643	1.4	0.9	4.264	A
4 - Horace Waller Vc Parade	296	74	790	1001	0.295	297	50	0.7	0.4	5.118	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	386	97	337	1482	0.261	387	572	0.5	0.4	3.287	A
2 - Owl Lane (north)	143	36	442	1351	0.106	143	282	0.2	0.1	2.979	A
3 - Owl Lane (southeast)	655	164	47	1636	0.400	656	538	0.9	0.7	3.675	A
4 - Horace Waller Vc Parade	248	62	661	1080	0.229	248	42	0.4	0.3	4.332	A

2024 DS(A+B), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	12.34	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2024 DS(A+B)	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	662	100.000
2 - Owl Lane (north)		ONE HOUR	✓	270	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1217	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	88	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	2	15	552	93
	2 - Owl Lane (north)	24	0	174	72
	3 - Owl Lane (southeast)	677	390	0	150
	4 - Horace Waller Vc Parade	24	24	40	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.53	5.56	1.1	A	607	911
2 - Owl Lane (north)	0.26	4.24	0.3	A	248	372
3 - Owl Lane (southeast)	0.88	18.32	6.5	C	1117	1675
4 - Horace Waller Vc Parade	0.13	5.52	0.1	A	81	121

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	498	125	340	1480	0.337	496	544	0.0	0.5	3.650	A
2 - Owl Lane (north)	203	51	515	1304	0.156	203	321	0.0	0.2	3.268	A
3 - Owl Lane (southeast)	916	229	143	1574	0.582	911	574	0.0	1.4	5.382	A
4 - Horace Waller Vc Parade	66	17	818	984	0.067	66	236	0.0	0.1	3.921	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	595	149	407	1436	0.414	594	651	0.5	0.7	4.271	A
2 - Owl Lane (north)	243	61	617	1237	0.196	242	384	0.2	0.2	3.619	A
3 - Owl Lane (southeast)	1094	274	172	1556	0.703	1090	688	1.4	2.3	7.667	A
4 - Horace Waller Vc Parade	79	20	979	885	0.089	79	283	0.1	0.1	4.465	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	729	182	495	1379	0.529	727	792	0.7	1.1	5.512	A
2 - Owl Lane (north)	297	74	755	1147	0.259	297	467	0.2	0.3	4.232	A
3 - Owl Lane (southeast)	1340	335	210	1531	0.875	1325	842	2.3	6.1	16.325	C
4 - Horace Waller Vc Parade	97	24	1190	757	0.128	97	345	0.1	0.1	5.454	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	729	182	499	1376	0.530	729	800	1.1	1.1	5.563	A
2 - Owl Lane (north)	297	74	756	1146	0.259	297	472	0.3	0.3	4.241	A
3 - Owl Lane (southeast)	1340	335	210	1531	0.875	1338	843	6.1	6.5	18.319	C
4 - Horace Waller Vc Parade	97	24	1202	749	0.129	97	347	0.1	0.1	5.518	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	595	149	413	1432	0.416	597	663	1.1	0.7	4.317	A
2 - Owl Lane (north)	243	61	619	1236	0.196	243	391	0.3	0.2	3.628	A
3 - Owl Lane (southeast)	1094	274	172	1556	0.703	1110	690	6.5	2.4	8.363	A
4 - Horace Waller Vc Parade	79	20	997	875	0.090	79	286	0.1	0.1	4.529	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	498	125	343	1478	0.337	499	550	0.7	0.5	3.682	A
2 - Owl Lane (north)	203	51	518	1302	0.156	204	324	0.2	0.2	3.280	A
3 - Owl Lane (southeast)	916	229	144	1574	0.582	920	578	2.4	1.4	5.542	A
4 - Horace Waller Vc Parade	66	17	826	979	0.068	66	238	0.1	0.1	3.946	A

2024 DS(A+B), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.22	A

Junction Network 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	2024 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	513	100.000
2 - Owl Lane (north)		ONE HOUR	✓	217	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	873	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	330	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
From	1 - John Ormsby Way	1	34	462	16
	2 - Owl Lane (north)	28	0	167	22
	3 - Owl Lane (southeast)	601	247	2	23
	4 - Horace Waller Vc Parade	128	97	104	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.41	4.43	0.7	A	471	706
2 - Owl Lane (north)	0.20	3.67	0.2	A	199	299
3 - Owl Lane (southeast)	0.59	5.48	1.5	A	801	1202
4 - Horace Waller Vc Parade	0.41	6.80	0.7	A	303	454

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	386	97	338	1482	0.261	385	568	0.0	0.4	3.277	A
2 - Owl Lane (north)	163	41	439	1353	0.121	163	283	0.0	0.1	3.023	A
3 - Owl Lane (southeast)	657	164	51	1634	0.402	655	551	0.0	0.7	3.668	A
4 - Horace Waller Vc Parade	248	62	659	1081	0.230	247	47	0.0	0.3	4.312	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	461	115	405	1438	0.321	461	681	0.4	0.5	3.682	A
2 - Owl Lane (north)	195	49	526	1296	0.150	195	339	0.1	0.2	3.268	A
3 - Owl Lane (southeast)	785	196	61	1627	0.482	784	660	0.7	0.9	4.263	A
4 - Horace Waller Vc Parade	297	74	789	1001	0.296	296	56	0.3	0.4	5.101	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	565	141	495	1379	0.410	564	833	0.5	0.7	4.415	A
2 - Owl Lane (north)	239	60	644	1219	0.196	239	415	0.2	0.2	3.671	A
3 - Owl Lane (southeast)	961	240	75	1618	0.594	959	808	0.9	1.4	5.443	A
4 - Horace Waller Vc Parade	363	91	966	894	0.407	362	68	0.4	0.7	6.762	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	565	141	497	1378	0.410	565	835	0.7	0.7	4.428	A
2 - Owl Lane (north)	239	60	645	1219	0.196	239	416	0.2	0.2	3.673	A
3 - Owl Lane (southeast)	961	240	75	1618	0.594	961	809	1.4	1.5	5.478	A
4 - Horace Waller Vc Parade	363	91	968	892	0.407	363	68	0.7	0.7	6.804	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	461	115	407	1437	0.321	462	683	0.7	0.5	3.696	A
2 - Owl Lane (north)	195	49	528	1295	0.151	195	341	0.2	0.2	3.273	A
3 - Owl Lane (southeast)	785	196	61	1627	0.482	787	662	1.5	0.9	4.294	A
4 - Horace Waller Vc Parade	297	74	792	1000	0.297	298	56	0.7	0.4	5.136	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	386	97	340	1480	0.261	387	572	0.5	0.4	3.295	A
2 - Owl Lane (north)	163	41	442	1351	0.121	164	285	0.2	0.1	3.032	A
3 - Owl Lane (southeast)	657	164	51	1633	0.402	658	554	0.9	0.7	3.694	A
4 - Horace Waller Vc Parade	248	62	663	1079	0.230	249	47	0.4	0.3	4.341	A

2030 DS(A), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	14.89	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2030 DS(A)	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	673	100.000
2 - Owl Lane (north)		ONE HOUR	✓	302	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1256	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	84	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	2	15	568	88
	2 - Owl Lane (north)	24	0	200	78
	3 - Owl Lane (southeast)	717	383	0	156
	4 - Horace Waller Vc Parade	25	16	43	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.54	5.59	1.1	A	618	926
2 - Owl Lane (north)	0.29	4.48	0.4	A	277	416
3 - Owl Lane (southeast)	0.90	22.99	8.3	C	1153	1729
4 - Horace Waller Vc Parade	0.13	5.67	0.1	A	77	116

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	507	127	331	1486	0.341	505	575	0.0	0.5	3.659	A
2 - Owl Lane (north)	227	57	526	1297	0.175	227	310	0.0	0.2	3.359	A
3 - Owl Lane (southeast)	946	236	144	1574	0.601	940	608	0.0	1.5	5.627	A
4 - Horace Waller Vc Parade	63	16	842	969	0.065	63	241	0.0	0.1	3.973	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	605	151	396	1444	0.419	604	688	0.5	0.7	4.285	A
2 - Owl Lane (north)	271	68	629	1229	0.221	271	371	0.2	0.3	3.759	A
3 - Owl Lane (southeast)	1129	282	172	1555	0.726	1125	728	1.5	2.6	8.274	A
4 - Horace Waller Vc Parade	76	19	1008	867	0.087	75	289	0.1	0.1	4.545	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	741	185	480	1388	0.534	739	834	0.7	1.1	5.532	A
2 - Owl Lane (north)	333	83	770	1137	0.292	332	450	0.3	0.4	4.469	A
3 - Owl Lane (southeast)	1383	346	211	1531	0.903	1363	891	2.6	7.6	19.427	C
4 - Horace Waller Vc Parade	92	23	1222	737	0.125	92	352	0.1	0.1	5.582	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	741	185	486	1385	0.535	741	844	1.1	1.1	5.591	A
2 - Owl Lane (north)	333	83	772	1136	0.293	333	455	0.4	0.4	4.480	A
3 - Owl Lane (southeast)	1383	346	211	1530	0.904	1380	893	7.6	8.3	22.989	C
4 - Horace Waller Vc Parade	92	23	1237	728	0.127	92	354	0.1	0.1	5.666	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	605	151	404	1438	0.421	607	703	1.1	0.7	4.337	A
2 - Owl Lane (north)	271	68	632	1227	0.221	272	379	0.4	0.3	3.772	A
3 - Owl Lane (southeast)	1129	282	173	1555	0.726	1151	731	8.3	2.7	9.381	A
4 - Horace Waller Vc Parade	76	19	1032	853	0.089	76	293	0.1	0.1	4.632	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	507	127	334	1484	0.341	508	581	0.7	0.5	3.688	A
2 - Owl Lane (north)	227	57	529	1295	0.176	228	313	0.3	0.2	3.376	A
3 - Owl Lane (southeast)	946	236	145	1573	0.601	950	612	2.7	1.5	5.825	A
4 - Horace Waller Vc Parade	63	16	852	963	0.066	63	243	0.1	0.1	4.002	A

2030 DS(A), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	5.19	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
D12	2030 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	491	100.000
2 - Owl Lane (north)		ONE HOUR	✓	209	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	870	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	332	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	1	34	441	15
	2 - Owl Lane (north)	28	2	162	17
	3 - Owl Lane (southeast)	590	254	2	24
	4 - Horace Waller Vc Parade	124	99	108	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.40	4.36	0.7	A	451	676
2 - Owl Lane (north)	0.19	3.59	0.2	A	192	288
3 - Owl Lane (southeast)	0.59	5.43	1.4	A	798	1197
4 - Horace Waller Vc Parade	0.41	6.81	0.7	A	305	457

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	370	92	349	1474	0.251	368	557	0.0	0.3	3.250	A
2 - Owl Lane (north)	157	39	426	1362	0.116	157	292	0.0	0.1	2.985	A
3 - Owl Lane (southeast)	655	164	48	1636	0.400	652	535	0.0	0.7	3.653	A
4 - Horace Waller Vc Parade	250	62	658	1082	0.231	249	43	0.0	0.3	4.315	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	441	110	418	1429	0.309	441	667	0.3	0.4	3.641	A
2 - Owl Lane (north)	188	47	510	1307	0.144	188	349	0.1	0.2	3.216	A
3 - Owl Lane (southeast)	782	196	57	1629	0.480	781	640	0.7	0.9	4.238	A
4 - Horace Waller Vc Parade	298	75	787	1003	0.298	298	51	0.3	0.4	5.106	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	541	135	512	1368	0.395	540	816	0.4	0.6	4.343	A
2 - Owl Lane (north)	230	58	624	1232	0.187	230	427	0.2	0.2	3.591	A
3 - Owl Lane (southeast)	958	239	70	1621	0.591	956	784	0.9	1.4	5.395	A
4 - Horace Waller Vc Parade	366	91	964	895	0.408	364	63	0.4	0.7	6.773	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	541	135	513	1367	0.396	541	818	0.6	0.7	4.356	A
2 - Owl Lane (north)	230	58	625	1232	0.187	230	428	0.2	0.2	3.593	A
3 - Owl Lane (southeast)	958	239	70	1621	0.591	958	785	1.4	1.4	5.427	A
4 - Horace Waller Vc Parade	366	91	966	894	0.409	366	63	0.7	0.7	6.815	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	441	110	420	1428	0.309	442	670	0.7	0.5	3.657	A
2 - Owl Lane (north)	188	47	512	1306	0.144	188	351	0.2	0.2	3.223	A
3 - Owl Lane (southeast)	782	196	58	1629	0.480	784	642	1.4	0.9	4.270	A
4 - Horace Waller Vc Parade	298	75	790	1001	0.298	299	51	0.7	0.4	5.141	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	370	92	351	1473	0.251	370	560	0.5	0.3	3.265	A
2 - Owl Lane (north)	157	39	428	1360	0.116	157	293	0.2	0.1	2.994	A
3 - Owl Lane (southeast)	655	164	48	1635	0.400	656	537	0.9	0.7	3.678	A
4 - Horace Waller Vc Parade	250	62	661	1080	0.232	250	43	0.4	0.3	4.345	A

2030 DS(A+B), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	170.59	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2030 DS(A+B)	AM	ONE HOUR	07:05	08:35	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	729	100.000
2 - Owl Lane (north)		ONE HOUR	✓	453	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1592	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	107	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	2	15	624	88
	2 - Owl Lane (north)	24	0	307	122
	3 - Owl Lane (southeast)	890	529	0	173
	4 - Horace Waller Vc Parade	25	33	49	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.61	6.99	1.5	A	669	1003
2 - Owl Lane (north)	0.46	6.07	0.8	A	416	624
3 - Owl Lane (southeast)	1.17	303.34	139.0	F	1461	2191
4 - Horace Waller Vc Parade	0.18	6.76	0.2	A	98	147

Main Results for each time segment

07:05 - 07:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	549	137	455	1405	0.391	546	701	0.0	0.6	4.181	A
2 - Owl Lane (north)	341	85	572	1267	0.269	340	430	0.0	0.4	3.871	A
3 - Owl Lane (southeast)	1199	300	177	1553	0.772	1186	734	0.0	3.2	9.504	A
4 - Horace Waller Vc Parade	81	20	1076	826	0.098	80	286	0.0	0.1	4.824	A

07:20 - 07:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	655	164	540	1349	0.486	654	830	0.6	0.9	5.171	A
2 - Owl Lane (north)	407	102	685	1193	0.341	407	509	0.4	0.5	4.577	A
3 - Owl Lane (southeast)	1431	358	212	1530	0.935	1404	879	3.2	10.1	24.347	C
4 - Horace Waller Vc Parade	96	24	1274	705	0.136	96	341	0.1	0.2	5.910	A

07:35 - 07:50

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	803	201	586	1319	0.608	800	890	0.9	1.5	6.906	A
2 - Owl Lane (north)	499	125	838	1093	0.456	498	548	0.5	0.8	6.035	A
3 - Owl Lane (southeast)	1753	438	259	1500	1.169	1492	1076	10.1	75.3	112.306	F
4 - Horace Waller Vc Parade	118	29	1358	654	0.180	118	393	0.2	0.2	6.711	A

07:50 - 08:05

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	803	201	588	1318	0.609	803	894	1.5	1.5	6.986	A
2 - Owl Lane (north)	499	125	840	1091	0.457	499	551	0.8	0.8	6.075	A
3 - Owl Lane (southeast)	1753	438	260	1499	1.169	1498	1079	75.3	139.0	262.434	F
4 - Horace Waller Vc Parade	118	29	1364	650	0.181	118	394	0.2	0.2	6.760	A

08:05 - 08:20

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	655	164	578	1324	0.495	658	895	1.5	1.0	5.418	A
2 - Owl Lane (north)	407	102	688	1191	0.342	408	548	0.8	0.5	4.610	A
3 - Owl Lane (southeast)	1431	358	213	1529	0.936	1519	884	139.0	117.1	303.337	F
4 - Horace Waller Vc Parade	96	24	1377	642	0.150	96	354	0.2	0.2	6.597	A

08:20 - 08:35

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	549	137	573	1328	0.413	550	899	1.0	0.7	4.636	A
2 - Owl Lane (north)	341	85	576	1264	0.270	342	547	0.5	0.4	3.906	A
3 - Owl Lane (southeast)	1199	300	178	1552	0.772	1539	739	117.1	32.1	177.428	F
4 - Horace Waller Vc Parade	81	20	1391	634	0.127	81	326	0.2	0.1	6.510	A

2030 DS(A+B), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3, 4	11.50	B

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2030 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - John Ormsby Way		ONE HOUR	✓	647	100.000
2 - Owl Lane (north)		ONE HOUR	✓	482	100.000
3 - Owl Lane (southeast)		ONE HOUR	✓	1212	100.000
4 - Horace Waller Vc Parade		ONE HOUR	✓	405	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	1	34	597	15
	2 - Owl Lane (north)	28	2	389	63
	3 - Owl Lane (southeast)	705	468	2	37
	4 - Horace Waller Vc Parade	124	154	126	1

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		1 - John Ormsby Way	2 - Owl Lane (north)	3 - Owl Lane (southeast)	4 - Horace Waller Vc Parade
	1 - John Ormsby Way	0	0	0	0
	2 - Owl Lane (north)	0	0	0	0
	3 - Owl Lane (southeast)	0	0	0	0
	4 - Horace Waller Vc Parade	0	0	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1 - John Ormsby Way	0.61	8.03	1.6	A	594	891
2 - Owl Lane (north)	0.48	6.25	0.9	A	442	663
3 - Owl Lane (southeast)	0.84	14.01	5.0	B	1112	1668
4 - Horace Waller Vc Parade	0.66	15.79	1.9	C	372	557

Main Results for each time segment

16:15 - 16:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	487	122	564	1334	0.365	485	642	0.0	0.6	4.229	A
2 - Owl Lane (north)	363	91	556	1277	0.284	361	493	0.0	0.4	3.925	A
3 - Owl Lane (southeast)	912	228	82	1613	0.566	907	835	0.0	1.3	5.063	A
4 - Horace Waller Vc Parade	305	76	903	932	0.327	303	87	0.0	0.5	5.706	A

16:30 - 16:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	582	145	675	1261	0.461	581	769	0.6	0.8	5.283	A
2 - Owl Lane (north)	433	108	666	1205	0.360	433	590	0.4	0.6	4.655	A
3 - Owl Lane (southeast)	1090	272	99	1603	0.680	1086	1000	1.3	2.1	6.926	A
4 - Horace Waller Vc Parade	364	91	1081	823	0.442	363	104	0.5	0.8	7.802	A

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	712	178	822	1164	0.612	710	937	0.8	1.5	7.866	A
2 - Owl Lane (north)	531	133	813	1109	0.479	529	718	0.6	0.9	6.195	A
3 - Owl Lane (southeast)	1334	334	121	1589	0.840	1323	1222	2.1	4.8	13.052	B
4 - Horace Waller Vc Parade	446	111	1317	679	0.657	442	127	0.8	1.8	14.920	B

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	712	178	829	1160	0.614	712	944	1.5	1.6	8.034	A
2 - Owl Lane (north)	531	133	817	1106	0.480	531	724	0.9	0.9	6.251	A
3 - Owl Lane (southeast)	1334	334	121	1589	0.840	1334	1226	4.8	5.0	14.010	B
4 - Horace Waller Vc Parade	446	111	1327	673	0.663	446	128	1.8	1.9	15.794	C

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	582	145	684	1255	0.464	584	779	1.6	0.9	5.393	A
2 - Owl Lane (north)	433	108	671	1202	0.361	435	598	0.9	0.6	4.703	A
3 - Owl Lane (southeast)	1090	272	99	1603	0.680	1101	1007	5.0	2.2	7.333	A
4 - Horace Waller Vc Parade	364	91	1095	814	0.447	368	105	1.9	0.8	8.147	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - John Ormsby Way	487	122	569	1330	0.366	488	648	0.9	0.6	4.281	A
2 - Owl Lane (north)	363	91	560	1274	0.285	364	497	0.6	0.4	3.956	A
3 - Owl Lane (southeast)	912	228	83	1613	0.566	916	841	2.2	1.3	5.190	A
4 - Horace Waller Vc Parade	305	76	911	927	0.329	306	88	0.8	0.5	5.814	A