

NETWORK SUMMARY

Network: new airport pm 2031 v8 203k

New Network

Network Performance - Hourly Values				
Performance Measure	Vehicles	Per Unit Distance	Pedestrians	Persons
Network Level of Service (LOS)	LOS F			
Travel Time Index	1.39			
Speed Efficiency	0.22			
Congestion Coefficient	4.45			
Travel Speed (Average)	12.4 km/h		1.9 km/h	12.2 km/h
Travel Distance (Total)	7746.0 veh-km/h		21.2 ped-km/h	9316.4 pers-km/h
Travel Time (Total)	626.2 veh-h/h		11.3 ped-h/h	762.8 pers-h/h
Desired Speed	55.0 km/h			
Demand Flows (Total)	34386 veh/h		661 ped/h	38002 pers/h
Arrival Flows (Total)	31668 veh/h		661 ped/h	38002 pers/h
Percent Heavy Vehicles (Demand)	0.0 %			
Percent Heavy Vehicles (Arrival)	0.0 %			
Degree of Saturation	1.988			
Control Delay (Total)	473.96 veh-h/h		6.76 ped-h/h	575.51 pers-h/h
Control Delay (Average)	53.9 sec		36.9 sec	54.5 sec
Control Delay (Worst Lane)	945.5 sec			
Control Delay (Worst Movement)	945.5 sec		41.8 sec	945.5 sec
Geometric Delay (Average)	1.8 sec			
Stop-Line Delay (Average)	52.1 sec			
Queue Storage Ratio (Worst Lane)	5.34			
Total Effective Stops	23937 veh/h		575 ped/h	29299 pers/h
Effective Stop Rate	0.76 per veh	3.1 per km	0.87 per ped	0.77 per pers
Proportion Queued	0.50		0.87	0.52
Performance Index	1512.3		14.5	1526.8
Cost (Total)	18719.99 \$/h	2.42 \$/km	237.17 \$/h	18957.16 \$/h
Fuel Consumption (Total)	1408.4 L/h	181.8 mL/km		
Fuel Economy	18.2 L/100km			
Carbon Dioxide (Total)	3309.8 kg/h	427.3 g/km		
Hydrocarbons (Total)	1.482 kg/h	0.191 g/km		
Carbon Monoxide (Total)	11.257 kg/h	1.453 g/km		
NOx (Total)	1.854 kg/h	0.239 g/km		

Network Model Accuracy Level (largest change in degree of saturation for any lane): 21.5 %

Number of Iterations: 10

Network Level of Service (LOS) Method: SIDRA Speed Efficiency.

Model used: New Zealand.

Network Performance - Annual Values

Performance Measure	Vehicles	Pedestrians	Persons
Demand Flows (Total)	16,505,100 veh/y	317,053 ped/y	18,240,800 pers/y
Delay	227,499 veh-h/y	3,245 ped-h/y	276,244 pers-h/y
Effective Stops	11,489,630 veh/y	275,805 ped/y	14,063,360 pers/y
Travel Distance	3,718,060 veh-km/y	10,181 ped-km/y	4,471,854 pers-km/y
Travel Time	300,586 veh-h/y	5,421 ped-h/y	366,124 pers-h/y
Cost	8,985,595 \$/y	113,840 \$/y	9,099,435 \$/y
Fuel Consumption	676,046 L/y		
Carbon Dioxide	1,588,708 kg/y		
Hydrocarbons	711 kg/y		
Carbon Monoxide	5,403 kg/y		
NOx	890 kg/y		

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 Organisation: TRANSPORT FUTURES LTD. | Processed: Friday, 14 August 2015 9:55:42 p.m.
 Project: C:\Sidra\sidra project files and modelling results\Version 8\new airport pm model version 8 2031 203k.sip6