

12.04.23

Roger Faires response to cross examination question on the Proof of evidence from Nicolas Contentin point 5.30 and table 5.13.

↓

Time	AM Peak			PM Peak			All Day		
	# Occurance	% occurrence	Cum %	# Occurance	% occurrence	Cum %	# Occurance	% occurrence	Cum %
1-2min	29	2.57%	2.57%	39	3.34%	3.34%	634	3.06%	3.06%
2-3min	537	47.61%	50.18%	525	44.91%	48.25%	9866	47.59%	50.65%
3-4min	283	25.09%	75.27%	291	24.89%	73.14%	4928	23.77%	74.42%
4-5min	156	13.83%	89.10%	173	14.80%	87.94%	3008	14.51%	88.93%
5-6min	84	7.45%	96.54%	92	7.87%	95.81%	1492	7.20%	96.13%
6-7min	25	2.22%	98.76%	24	2.05%	97.86%	475	2.29%	98.42%
7-8min	9	0.80%	99.56%	12	1.03%	98.89%	168	0.81%	99.23%
8-9min	2	0.18%	99.73%	3	0.26%	99.14%	68	0.33%	99.56%
9-10min	2	0.18%	99.91%	4	0.34%	99.49%	48	0.23%	99.79%
10-11min	0	0.00%	99.91%	4	0.34%	99.83%	12	0.06%	99.85%
11-12min	1	0.09%	100.00%	1	0.09%	99.91%	9	0.04%	99.89%
12-13min	0	0.00%	100.00%	1	0.09%	100.00%	7	0.03%	99.92%
13-14min	0	0.00%	100.00%	0	0.00%	100.00%	3	0.01%	99.94%
14-15min	0	0.00%	100.00%	0	0.00%	100.00%	5	0.02%	99.96%
15-16min	0	0.00%	100.00%	0	0.00%	100.00%	2	0.01%	99.97%
16-17min	0	0.00%	100.00%	0	0.00%	100.00%	2	0.01%	99.98%
17-18min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	99.98%
18-19min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	99.98%
19-20min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	99.98%
20-21min	0	0.00%	100.00%	0	0.00%	100.00%	1	0.00%	99.99%
21-22min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	99.99%
22-23min	0	0.00%	100.00%	0	0.00%	100.00%	1	0.00%	99.99%
23-24min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	99.99%
24-25min	0	0.00%	100.00%	0	0.00%	100.00%	1	0.00%	100.00%
25-26min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	100.00%
26-27min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	100.00%
27-28min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	100.00%
28-29min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	100.00%
29-30min	0	0.00%	100.00%	0	0.00%	100.00%	0	0.00%	100.00%
30min +	0	0.00%	100.00%	0	0.00%	100.00%	1	0.00%	100.00%
<b>5.13</b> Total	1128	100.00%		1169	100.00%		20731	100.00%	

	Median time (s)	%occurance	total time	
1-2 min	90	2.57	231.3	
2-3mins	150	47.61	7141.5	
3-4mins	210	25.09	5268.9	
4-5mins	270	13.83	3734.1	
5-6mins	330	7.45	2458.5	
6-7mins	390	2.2	858	
7-8mins	450	0.8	360	
8-9mins	510	0.18	91.8	
9-10mins	570	0.18	102.6	
10-11mins	630	0.09	56.7	
total -		100%		
Average time			203.0 seconds	>169 seconds

Without full data I have taken the middle of the time bands in seconds and multiplied that by the occurrences to then review an average time. This is 203 seconds as the above table, I appreciate this is based on some approximation but it is the best available analysis on the data available from the

table. 203 seconds is greater than the 169 seconds in the modelling. I see this as proof that the data used in the modelling is incorrect rather than any validation and the additional 34 seconds per train would add further delay and frustration at Meldreth road.

However the data doesn't assess the signals or their position on Meldreth Road. Nor does it model the different types of trains.