Appendix B: Journey Times

The Minutes to the Additional Authority Meeting of 16th June 2016 include a table of train and tube travel times between both Lea Bridge and Eton Manor and a list of typical locations in and around London. But these figures are of little value in assessing how accessible the two sites are by public transport.

It would appear (by comparing with information on the TFL website) that these are *minimum* journey times. In other words, they are the times that would be spent travelling if one timed the start of each journey to coincide precisely with the train's departure time. But this is not realistic, because it takes no account of service frequencies. You might have a very fast service to your desired destination, but if it only runs once in a blue moon then that is going to be of no practical use to you. What we need to know is the *most probable* total journey time for *any* departure time, in other words including time spent waiting on platforms. Obviously it would be quite impractical to compute all these times for every possible time of the day and day of the week. However, a reasonable approximation may be achieved by selecting just *one* typical time, and using that consistently as the start time for every journey. In some cases this method will probably overstate the most probable total journey time, and in other cases it will probably understate it; but on average it should give a reasonably representative result. Also, to reduce the amount of data, it should not be necessary to compute both outward and inward journey times – one should be pretty much the same as the other.

I have therefore used the TFL Journey Planner to recalculate all of the journey times subject to this principle. The start time that I have used is noon on a Wednesday (a weekday rather than a weekend, because there are often service disruptions on a weekend). And I have only considered journeys *from* the two sites. If you suspect that I have selected this time in order to favour Eton Manor at the expense of Lea Bridge, then you are welcome to repeat the analysis using some other time. (The TFL Journey Planner is at https://tfl.gov.uk/). However, there are a couple of issues with the TFL Journey Planner.

Firstly, at the time of writing (early August 2019) there is an error in the data. The Planner thinks that the 55 bus takes less than a quarter of an hour to travel from Lea Bridge to central London. This is clearly wrong: according to the timetable it takes an hour and a quarter for the 55 bus to travel this distance. This error introduces a systematic bias into the results. So any journey that the Planner comes up with that includes this part of the 55's route must be excluded.

Secondly, the Planner does not seem to consider walking for more than a very few minutes, even though I specified among the preferences "I only want to walk for a maximum of 40 mins" and "I'd rather walk if it makes my journey quicker". For both the Lea Bridge and the Eton Manor sites, there are two nearby stations: Lea Bridge and Clapton for the former, and Leyton and Stratford International for the latter. To ensure that these are properly considered, I have used the Planner to get journey times from each of these stations as well as from the two sites. To incorporate these results correctly, it is necessary to know the actual walking times between the sites and their nearest stations, so I have measured them *in situ* (and I can also provide GPX traces if required). They are as follows.

From	То	Time (minutes)	Distance (miles)		
Lea Bridge site	Lea Bridge station	10	0.54		
Lea Bridge site	Clapton station	13	0.70		

From	То	Time (minutes)) Distance (miles)			
Eton Manor site	Leyton station	12	0.66			
Eton Manor site	Stratford International	13	0.82			

So this has meant to each location I have had to calculate six different journey times: from the Lea Bridge site using the Planner's recommended route, from the Lea Bridge site via Lea Bridge station, from the Lea Bridge site via Clapton station, from the Eton Manor site using the Planner's recommended route, from the Eton Manor site via Leyton station, and from the Eton Manor site via Stratford International station. The earliest arrival time for the first three gives the total journey time for Lea Bridge (but as mentioned above, journeys subject to the 55 bus problem have to be ignored), and the earliest arrival time for the second three gives the total journey time for Eton Manor. These total journey times are summarized below, together with the LVRPA's original figures.

	C	orrect figure	es .	Ľ	VRPA's figur	es	Кеу
	Lea Bridge	Eton Manor	Difference	Lea Bridge	Eton Manor	Difference	Lea Bridge is better
Tottenham Hale	00:22	00:43	21	00:09	00:38	29	Eton Manor is better
Stratford	00:40	00:16	-24	00:11	00:25	14	LVRPA's time is understated
Cheshunt	00:48	00:52	4	00:22	00:51	29	LVRPA's time is overstated
Bishops Stortford	01:14	01:17	3	00:49	01:18	29	
Chelmsford	01:22	00:52	-30	00:45	00:52	. 7	
Southend Central	01:40	01:28	-12	01:05	01:16	11 -	
Southend Victoria	01:52	01:34	-18	01.03	01.10	11	
Ealing Broadway	01:11	01:02	-9	01:05	01:08	3	
Liverpool Street	00:37	00:26	-11	00:25	00:35	10	
Wimbledon	01:13	01:03	-10	01:10	01:30	20	
Epping	01:12	00:41	-31	00:45	00:53	8	
Brixton	00:54	00:50	-4	00:42	00:57	15	
North Acton	01:06	00:56	-10	00:55	00:58	3	
Clapton	00:13	00:43	30	00:52	01:03	11	
Hertford East	01:31	01:31	0	00:54	01:26	32	
Average (mins)			-7			16	

It will be seen that the LVRPA's claim that the journey times for Eton Manor are on average 16 minutes greater than those for Lea Bridge is completely wrong. The truth is quite the opposite: the journey times for Lea Bridge are on average 7 minutes greater than those for Eton Manor.

The details from the Planner are shown on the next page.

from	to	route	leg 1 leg 2		leg 3	3	leg 4		leg 5		leg 6		leg 7		leg 8	leg 9
		best	start 12:00 walk Lee Valley Ice Centre	12:03 bus 55	Holles Street	12:16 walk	Oxford Circus	12:24 tube	Tottenham Hale	12:39 arrive						
Ice Centre		LB	start 12:00 walk Lea Bridge	12:36 rail	Tottenham Hale	12:43 arrive										
Tottenham Hale	Tottenham Hale	Clapton		12:13 rail		12:18 tube	Tottenham Hale	12:22 arrive								
Eton Monor	Eton Manor	best		12:02 W15, 308	Glyn Road Stratford	12:13 walk 12:30 rail	Homerton Tottenham Hale	12:21 rail 12:43 arrive	Highbury & Islington	12:42 tube	Tottenham Hale	12:50 arrive				
Eton Manor		Leyton	start 12:00 walk Leyton start 12:00 walk Stratford International		Stratford	12:30 rail 12:30 rail	Tottenham Hale	12:43 arrive								
		best	start 12:00 walk Lea Bridge	12:31 rail	Stratford	12:40 arrive	TOTTE I MAIN TRACE	12.45 011140								
Ice Centre		LB	start 12:00 walk Lea Bridge	12:31 rail	Stratford	12:40 arrive										
	Stratford	Clapton	start 12:00 walk Clapton	12:24 rail	Hackney Downs	12:28 walk	Hackney Central	12:40 rail	Stratford	12:51 arrive	:					
		best	start 12:00 walk Ruckholt Road Bridge	12:03 bus W15		12:17 walk	Leyton	12:24 tube	Stratford	12:26 arrive						
Eton Manor	r	Leyton	start 12:00 walk Leyton	12:14 tube	Stratford	12:16 arrive										
		SI			Stratford	12:23 arrive										
Ice Centre		best	start 12:00 walk Lea Bridge start 12:00 walk Lea Bridge	12:36 rail 12:36 rail	Cheshunt Cheshunt	12:52 arrive 12:52 arrive										
ice centre		Clapton		12:30 rail	St James' St	12:52 arrive	Tottenham Hale	12:35 walk	Tottenham Hale	12:40 rail	Cheshunt	12:48 arrive				
	Cheshunt	best		12:17 W15, 308	Glyn Road	12:28 walk	Homerton		Hackney Central	12:40 ran		12:48 rail	Cheshunt	13:09 arrive		
Eton Manor	r	Leyton	start 12:00 walk Leyton	12:21 tube	Stratford	12:30 rail	Cheshunt	12:52 arrive	ridekiie y cericidi	12.40 Wuik	ridekiie y bowiis	12.40 (0)	Circandine	15.05 011140		
		SI	start 12:00 walk Stratford International		Stratford	12:30 rail	Cheshunt	12:52 arrive								
		best	start 12:00 walk Lea Bridge	12:36 rail	Tottenham Hale	12:52 rail	Bishops Stortford	13:17 arrive								
Ice Centre		LB	start 12:00 walk Lea Bridge	12:36 rail	Tottenham Hale	12:52 rail	Bishops Stortford	13:17 arrive								
	Bishops Stortford	Clapton	start 12:00 walk Clapton	12:13 rail	St James' St	12:21 bus 230	Tottenham Hale	12:35 walk		12:40 rail	Bishops Stortford					
Eton Manor		best	start 12:00 walk Ruckholt Road Bridge	12:02 W15, 308	Glyn Road	12:13 walk	Homerton	12:21 rail	Highbury & Islington	12:38 tube	Tottenham Hale	12:52 rail	Bishops Stortford	13:17 arrive		
Eton Manor		Leyton	start 12:00 walk Leyton	12:21 tube	Liverpool St	12:40 rail	Bishops Stortford	13:17 arrive	Dishara Charles	13:17 arrive						
		best	start 12:00 walk Stratford International start 12:00 walk Lea Bridge	12:20 DLR 12:31 rail	Stratford	12:30 rail 12:55 rail	Tottenham Hale Chelmsford	12:52 rail 13:22 arrive	Bishops Stortford	13:1/ arrive	:					
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		SI	start 12:00 walk Stratford International		Stratford	12:29 walk	Stratford	12:38 rail	Chelmsford	13:02 arrive	,					
		best		12:07 bus 55	Great Titchfield St	12:19 walk	Oxford Circus		Mile End	12:45 tube	Barking	13:03 rail	Southend Central	13:40 arrive		
Ice Centre		LB	start 12:00 walk Lea Bridge	12:31 rail	Stratford	12:51 tube	West Ham	13:13 rail	Southend Central	13:58 arrive	1					
	Southend Central	Clapton	start 12:00 walk Clapton	12:13 rail	Walthamstow Central		Walthamstow Queens Road		Barking	13:03 rail	Southend Central					
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Eton Manor	r	Leyton	start 12:00 walk Leyton	12:34 tube	Stratford	12:42 rail	Southend Victoria	13:34 arrive								
		SI	start 12:00 walk Stratford International		Stratford	12:42 rail	Southend Victoria	13:34 arrive								
l		best		12:25 bus 55	Great Titchfield St	12:37 walk	Oxford Circus	12:46 tube	Paddington	12:54 walk	Paddington	13:03 rail	Ealing Broadway	13:11 arrive		
Ice Centre		LB	start 12:00 walk Lea Bridge	12:16 bus 55		12:27 walk	Oxford Circus	12:36 tube		13:02 arrive						
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		best	start 12:00 walk Lea Bridge	12:31 rail	Stratford	12:45 tube	Epping	13:12 arrive								
Ice Centre		LB	start 12:00 walk Lea Bridge	12:31 rail	Stratford	12:45 tube	Epping	13:12 arrive								
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