

## Appendix B: Journey times

In Appendix B to the LVRPA's Paper A/4228/16 (<https://www.saveleamarshes.org.uk/DocumentSearch/display.php?Document=74>), there is a table of train and tube travel times between both LVIC and EM 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 EM at the expense of LVIC, then you are welcome to repeat the analysis using some other time. (The TFL Journey Planner is at <https://tfl.gov.uk/>). However, there is an issue with the TFL Journey Planner.

The Planner seems to be unduly pessimistic in estimating walking times to the nearest stations. For both LVIC and EM, 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	To	Time (minutes)	Distance (miles)
LVIC	Lea Bridge station	10	0.54
LVIC	Clapton station	13	0.70
EM	Leyton station	12	0.66
EM	Stratford International	13	0.82

So this has meant to each location I have had to calculate six different journey times: from LVIC using the Planner's recommended route, from LVIC via Lea Bridge station, from the LVIC via Clapton station, from EM using the Planner's recommended route, from EM via Leyton station, and from EM via Stratford International station. The earliest arrival time for the first three gives the total journey time for LVIC, and the earliest arrival time for the

second three gives the total journey time for EM. These total journey times are summarized below.

	LVIC	EM	Difference	Key
Tottenham Hale	00:25	00:43	18	LVIC is better
Stratford	00:23	00:16	-7	EM is better
Cheshunt	00:48	00:52	4	
Bishops Stortford	01:14	01:17	3	
Chelmsford	01:02	00:52	-10	
Southend Central	01:28	01:28	0	
Southend Victoria	01:34	01:34	0	
Ealing Broadway	01:11	01:02	-9	
Liverpool Street	00:37	00:26	-11	
Wimbledon	01:13	01:03	-10	
Epping	01:01	00:41	-20	
Brixton	00:54	00:50	-4	
North Acton	01:06	00:56	-10	
Clapton	00:13	00:43	30	
Hertford East	01:31	01:31	0	
<i>Average (mins)</i>			-2	

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

from	to	route	leg 1	leg 2	leg 3	leg 4	leg 5	leg 6	leg 7	leg 8							
Ice Centre	Tottenham Hale	any	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:25 arrive										
		LB	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:25 arrive										
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:23 tube	Tottenham Hale	12:27 arrive								
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Stratford	12:30 rail	Tottenham Hale	12:43 arrive								
		LB	start 12:00 walk	Leyton	12:21 tube	Stratford	12:30 rail	Tottenham Hale	12:43 arrive								
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:30 rail	Tottenham Hale	12:43 arrive								
Ice Centre	Stratford	any	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:25 arrive										
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:25 arrive										
		Clapton	start 12:00 walk	Clapton	12:24 rail	Hackney Downs	12:28 walk	Hackney Central	12:40 rail	Stratford	12:51 arrive						
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Stratford	12:24 arrive										
		LB	start 12:00 walk	Leyton	12:14 tube	Stratford	12:36 arrive										
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:23 arrive										
Ice Centre	Cheshunt	any	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:40 rail	Cheshunt	12:48 arrive								
		LB	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:40 rail	Cheshunt	12:48 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 rail	St James' St	12:21 bus 230	Tottenham Hale	12:36 walk	Tottenham Hale	12:40 rail	Cheshunt	12:48 arrive				
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Stratford	12:30 rail	Cheshunt	12:52 arrive								
		LB	start 12:00 walk	Leyton	12:21 tube	Stratford	12:30 rail	Cheshunt	12:52 arrive								
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:30 rail	Cheshunt	12:52 arrive								
Ice Centre	Bishops Stortford	any	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:40 rail	Bishops Stortford	13:14 arrive								
		LB	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:40 rail	Bishops Stortford	13:14 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 rail	St James' St	12:21 bus 230	Tottenham Hale	12:36 walk	Tottenham Hale	12:40 rail	Bishops Stortford	13:14 arrive				
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Liverpool St	12:40 rail	Bishops Stortford	13:17 arrive								
		LB	start 12:00 walk	Leyton	12:21 tube	Liverpool St	12:40 rail	Bishops Stortford	13:17 arrive								
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:30 rail	Tottenham Hale	12:52 rail	Bishops Stortford	13:17 arrive						
Ice Centre	Chelmsford	any	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:38 rail	Chelmsford	13:02 arrive								
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:38 rail	Chelmsford	13:02 arrive								
		Clapton	start 12:00 walk	Clapton	12:39 rail	Hackney Downs	12:43 walk	Hackney Central	12:48 rail	Stratford	13:09 rail	Chelmsford	13:34 arrive				
Eton Manor		any	start 12:00 walk	Leyton	12:29 tube	Stratford	12:38 rail	Chelmsford	13:02 arrive								
		LB	start 12:00 walk	Leyton	12:16 tube	Stratford	12:25 rail	Chelmsford	12:52 arrive								
		Clapton	start 12:00 walk	Stratford International	12:23 308, 97	Stratford	12:38 rail	Chelmsford	12:52 arrive	Chelmsford	13:02 arrive						
Ice Centre	Southend Central	any	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:33 tube	West Ham	12:43 rail	Southend Central	13:28 arrive						
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:33 tube	West Ham	12:43 rail	Southend Central	13:28 arrive						
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:27 walk	Walthamstow Queens Road	12:39 rail	Southend Central	13:03 rail	Southend Central	13:40 arrive				
Eton Manor		any	start 12:00 walk	Leyton	12:26 tube	Stratford	12:33 tube	West Ham	12:43 rail	Southend Central	13:28 arrive						
		LB	start 12:00 walk	Leyton	12:26 tube	Stratford	12:33 tube	West Ham	12:43 rail	Southend Central	13:28 arrive						
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	West Ham	12:43 rail	Southend Central	13:28 arrive								
Ice Centre	Southend Victoria	any	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:42 rail	Southend Victoria	13:34 arrive								
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:42 rail	Southend Victoria	13:34 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:27 walk	Walthamstow Queens Road	12:39 rail	Barking	13:03 rail	Southend Central	13:40 walk	South Victoria	13:52 arrive		
Eton Manor		any	start 12:00 walk	Leyton	12:34 tube	Stratford	12:42 rail	Southend Victoria	13:34 arrive								
		LB	start 12:00 walk	Leyton	12:34 tube	Stratford	12:42 rail	Southend Victoria	13:34 arrive								
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:42 rail	Southend Victoria	13:34 arrive								
Ice Centre	Ealing Broadway	any	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:32 tube	Victoria	12:54 tube	Paddington	13:11 walk	Paddington	13:13 rail	Ealing Broadway	13:21 arrive		
		LB	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:32 tube	Victoria	12:54 tube	Paddington	13:11 walk	Paddington	13:13 rail	Ealing Broadway	13:21 arrive		
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:23 tube	Dorset Circus	12:46 walk	Paddington	12:54 walk	Paddington	13:02 rail	Ealing Broadway	13:11 arrive		
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Notting Hill Gate	12:35 tube	Paddington	13:00 walk	Paddington	13:02 rail	Ealing Broadway	13:11 arrive				
		LB	start 12:00 walk	Leyton	12:14 tube	Ealing Broadway	13:00 arrive	King's Cross	12:50 tube	Edgware Road	13:05 tube	Paddington	13:10 walk	Paddington	13:13 rail	Ealing Broadway	13:21 arrive
		Clapton	start 12:00 walk	Stratford International	12:29 rail	St Pancras	12:38 walk	King's Cross	12:50 tube	Edgware Road	13:05 tube	Paddington	13:10 walk	Paddington	13:13 rail	Ealing Broadway	13:21 arrive
Ice Centre	Liverpool Street	any	start 12:00 walk	Clapton	12:24 rail	Liverpool St	12:37 arrive	Liverpool Street	12:38 arrive								
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:25 tube	Liverpool Street	12:38 arrive								
		Clapton	start 12:00 walk	Clapton	12:24 rail	Liverpool St	12:37 arrive	Liverpool Street	12:38 arrive								
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Liverpool St	12:33 arrive										
		LB	start 12:00 walk	Leyton	12:14 tube	Liverpool St	12:26 arrive	Liverpool Street	12:38 arrive								
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:25 tube	Liverpool Street	12:38 arrive								
Ice Centre	Wimbledon	any	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:34 tube	Vauxhall	12:56 walk	Vauxhall	13:07 rail	Wimbledon	13:19 arrive				
		LB	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:34 tube	Vauxhall	12:56 walk	Vauxhall	13:07 rail	Wimbledon	13:19 arrive				
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:23 tube	Vauxhall	12:50 walk	Vauxhall	13:01 rail	Wimbledon	13:13 arrive				
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Bank	12:42 drain	Waterloo	12:54 rail	Wimbledon	13:10 arrive						
		LB	start 12:00 walk	Leyton	12:14 tube	Stratford	12:21 tube	Waterloo	12:47 rail	Wimbledon	13:03 arrive						
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	West Ham	12:31 tube	Waterloo	12:57 rail	Wimbledon	13:13 arrive						
Ice Centre	Epping	any	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:35 tube	Epping	13:01 arrive								
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:35 tube	Epping	13:01 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 rail	Highams Park	12:33 bus 275	Woodford	12:57 tube	Epping	13:12 arrive						
Eton Manor		any	start 12:00 walk	Leyton	12:23 tube	Epping	12:46 arrive										
		LB	start 12:00 walk	Leyton	12:18 tube	Epping	12:41 arrive										
		Clapton	start 12:00 walk	Stratford International	12:23 308, 97	Stratford	12:28 walk	Stratford	12:35 tube	Epping	13:01 arrive						
Ice Centre	Brixton	any	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:32 tube	Brixton	12:58 arrive								
		LB	start 12:00 walk	Lea Bridge	12:22 rail	Tottenham Hale	12:32 tube	Brixton	12:58 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:23 tube	Brixton	12:54 arrive								
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	Bank	12:41 tube	Stockwell	12:54 tube	Brixton	12:56 arrive						
		LB	start 12:00 walk	Leyton	12:14 tube	Stratford	12:25 tube	Stockwell	12:48 tube	Brixton	12:50 arrive						
		Clapton	start 12:00 walk	Stratford International	12:29 rail	St Pancras	12:36 walk	King's Cross	12:48 tube	Brixton	13:04 arrive						
Ice Centre	North Acton	any	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:29 tube	North Acton	13:09 arrive								
		LB	start 12:00 walk	Lea Bridge	12:16 rail	Stratford	12:29 tube	North Acton	13:09 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 rail	Walthamstow Central	12:23 tube	Dorset Circus	12:46 tube	North Acton	13:06 arrive						
Eton Manor		any	start 12:00 walk	Leyton	12:21 tube	North Acton	13:03 arrive										
		LB	start 12:00 walk	Leyton	12:14 tube	North Acton	12:56 arrive										
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:29 tube	North Acton	13:09 arrive								
Ice Centre	Clapton	any	start 12:00 walk	Mount Pleasant Hill	12:11 bus 383	Clapton	12:14 arrive										
		LB	start 12:00 walk	Lea Bridge	12:10 55, 56	Lea Bridge Roundabout	12:28 253, 254, 106	Clapton	12:36 arrive								
		Clapton	start 12:00 walk	Clapton	12:13 arrive												
Eton Manor		any	start 12:00 walk	Spatialfields Market	12:08 bus 308	Lea Bridge Roundabout	12:36 253, 254	Clapton	12:45 arrive								
		LB	start 12:00 walk	Leyton	12:14 tube	Liverpool St	12:33 rail	Clapton	12:48 arrive								
		Clapton	start 12:00 walk	Stratford International	12:23 308, 97	Stratford	12:25 walk	Stratford	12:32 tube	Liverpool Street	12:48 rail	Clapton	12:58 arrive				
Ice Centre	Hertford East	any	start 12:00 walk	Lea Bridge	12:36 rail	Cheshunt	13:09 rail	Hertford East	13:31 arrive								
		LB	start 12:00 walk	Lea Bridge	12:36 rail	Cheshunt	13:09 rail	Hertford East	13:31 arrive								
		Clapton	start 12:00 walk	Clapton	12:30 rail	Hackney Downs	12:48 rail	Hertford East	13:31 arrive								
Eton Manor		any	start 12:00 walk	Spatialfields Market	12:13 W15, 308	Glyn Road	12:28 walk	Homerton	12:36 rail	Hackney Central	12:40 walk	Hackney Downs	12:48 rail	Hertford East	13:31 arrive		
		LB	start 12:00 walk	Leyton	12:24 tube	Liverpool St	12:42 rail	Hertford East	13:31 arrive								
		Clapton	start 12:00 walk	Stratford International	12:20 DLR	Stratford	12:30 rail	Cheshunt	13:09 rail	Hertford East	13:31 arrive						