

Appendix 11.5

Construction Results

Results of the prediction and assessment of on-site construction works (individual activities)

Activity	Predicted construction noise level (dB L)				Included in Timeslice ID							
	R1	R2	R3/R4	R5/R6	1	2	3	4	5	6	7	8
Erecting cabins	42	42	46	45	X							
Placing concrete	49	50	53	53	X	X	X	X	X	X	X	X
Compacting ground	46	46	50	49	X	X	X	X	X	X	X	X
Excavation	49	49	53	52	X	X	X	X	X	X	X	X
Lifting steelwork	53	53	57	56		X	X	X	X	X	X	
Hydraulic jacking of structure	41	41	44	44		X	X					
Sheet piling	56	56	62	61		X						
Piling (Hotel)	49	50	57	56			X	X				
Piling	53	53	57	56			X	X				
Lifting precast concrete	45	45	47	47				X	X	X	X	
Substructure & RC frame (Hotel)	53	54	61	60					X	X	X	X
Loading out frame and façade (Hotel)	47	47	54	53						X	X	X
Fixing cladding and fittings	46	46	50	49							X	X
Façade works (Hotel)	45	45	52	51								X
Façade works (Hotel)	39	39	46	45								X
Paving	51	51	55	54								X

Notes on predicted construction noise levels:

- The calculated noise levels take distance attenuation into account assuming all ground between the source and receptor is hard;
- No screening losses (e.g., from site hoarding or other obstacles such as the stadium structure itself) have been applied to assume a worst-case.

Appendix 11.5 Construction Results

Results of the prediction and assessment of construction traffic

Road link details		Basic Noise Level (BNL), dB L _{A10,18hr} (06:00 - 00:00)		
		2024 without development construction	2024 inc. peak week of construction traffic	Change in BNL due to construction traffic
3	A6010 Alan Turing Way (South of Gibbon Street)	74.7	74.7	0.0
4	A6010 Alan Turing Way (South of Ashton New Road)	74.9	74.9	0.0
5	A6010 Alan Turing Way (North of Ashton Old Road)	73.9	73.9	0.0
8	A662 Ashton New Road (East of Alan Turing Way)	71.5	71.5	0.0
9	A662 Ashton New Road (West of Alan Turing Way)	70.9	71.0	0.0
10	A635 Ashton Old Road (East of Alan Turing Way)	73.6	73.7	0.0
11	A635 Ashton Old Road (West of Alan Turing Way)	73.3	73.3	0.0
12	Gibbon Street East	68.1	68.1	0.0
13	Stuart Street	63.2	63.2	0.0
14	Welcomb Street	62.4	62.4	0.0
15	A665/ Great Ancoats Street	72.2	72.2	0.0
17	Bradford Road (West of Saxon Street)	69.4	69.4	0.0
18	Briscoe Lane (west of Riverpark Road)	70.8	70.8	0.0
19	A6010 Pottery Lane (north of Ambrose Street)	74.3	74.3	0.0
20	A622 Ashton New Road (East of Linfield Street)	70.6	70.6	0.0
21	A635 Ashton Old Road(West of Louisa Street)	72.5	72.5	0.0
22	A635 Ashton Old Road (east of Lime Bank Street)	73.6	73.6	0.0
23	A662 Ashton New Road (west of Hillkirk Street)	70.4	70.4	0.0

Notes on predicted road traffic noise levels:

- The calculated basic noise levels follow the Calculation of Road Traffic Noise (CRTN) methodology and take traffic flows, average speeds, percentage of heavy vehicles, and low flow conditions into account; and
- The predicted noise level represents an arbitrary point 10 m away from the nearside carriage edge of the corresponding road, as advised CRTN.

Construction road traffic link diagram

