

Appendix 11.2

Construction Data

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Data used for the prediction and assessment of on-site construction works

Activities, plant and usage details

Activity	Plant Item	Quantity	BS 5228-1 Ref.	L _{Aeq,T} at 10 m (dB)	On-time (%)	From	To
Erecting cabins	Mobile crane	1	C4.41	71	90	14/06/23	30/09/23
Placing concrete	Concrete pump	1	C3.25	78	90	14/06/23	12/11/25
	Poker vibrator	1	C4.34	69	90	14/06/23	12/11/25
Compacting ground	Vibratory roller	1	C5.25	75	90	14/06/23	12/11/25
Excavation	Excavator	3	C2.24	73	90	14/06/23	12/11/25
Lifting steelwork	Tower crane	3	C4.48	76	90	19/01/24	28/01/25
	Mobile crane	2	C4.41	71	90	19/01/24	28/01/25
Hydraulic jacking of structure	Hydraulic jacks	1	C3.6	68	90	15/02/24	02/05/24
	Power packs	1	C3.7	70	90	15/02/24	02/05/24
Sheet piling	Vibratory piling rig	1	C3.8	88	90	08/04/24	26/04/24
Piling (Hotel)	Crawler mounted CFA piling rig	1	C3.21	79	90	29/04/24	24/06/24
	Tracked excavator	1	C3.23	68	90	29/04/24	24/06/24
	Concrete pump	1	C3.25	78	90	29/04/24	24/06/24
Piling	Crawler mounted CFA piling rig	1	C3.21	79	90	29/04/24	24/06/24
	Tracked excavator	1	C3.23	68	90	29/04/24	24/06/24
	Concrete pump	1	C3.25	78	90	29/04/24	24/06/24
Lifting precast concrete	Tower crane	1	C4.48	76	90	09/05/24	17/12/24
Substructure & RC frame (Hotel)	Concrete mixer truck (discharging) & concrete pump (pumping)	1	C4.28	75	90	24/06/24	02/06/25
	Breaker mounted on wheeled backhoe	1	C1.1	92	20	24/06/24	02/06/25
Loading out frame and façade (Hotel)	Tower crane	2	C4.48	76	90	19/08/24	16/06/25
Fixing cladding and fittings	Hammer drill	2	Manufacturer	75	90	30/09/24	21/07/25
Façade works (Hotel)	Mast climbing work platform	4	C4.61 +3 dB	68	90	27/01/25	25/08/25
	Caged material hoist (electric)	2	C4.61	68	90	27/01/25	12/01/26
Paving	Vibratory plate (petrol)	1	C2.41	80	90	27/01/25	12/11/25

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Details of timeslices (groups of construction activities that take place at the same time) used in the assessment

Activity	Timeslice ID							
	1	2	3	4	5	6	7	8
Erecting cabins	X							
Placing concrete	X	X	X	X	X	X	X	X
Compacting ground	X	X	X	X	X	X	X	X
Excavation	X	X	X	X	X	X	X	X
Lifting steelwork		X	X	X	X	X	X	
Hydraulic jacking of structure		X	X					
Sheet piling		X						
Piling (Hotel)			X	X				
Piling			X	X				
Lifting precast concrete				X	X	X	X	
Substructure & RC frame (Hotel)					X	X	X	X
Loading out frame and façade (Hotel)						X	X	X
Fixing cladding and fittings							X	X
Façade works (Hotel)								X
Façade works (Hotel)								X
Paving								X

Appendix 11.2 Construction Data

Data used for the prediction and assessment of construction road traffic

Construction road traffic data

Road link details		Average speed (km/h)	AAWT 18hr (06:00 - 00:00)			
			2024 without development construction traffic		2024 inc. peak week of construction traffic	
			Total vehicles	% heavy vehicles	Total vehicles	% heavy vehicles
3	A6010 Alan Turing Way (South of Gibbon Street)	49	33315	11.0	33554	11.0
4	A6010 Alan Turing Way (South of Ashton New Road)	51	30924	13.0	31121	13.0
5	A6010 Alan Turing Way (North of Ashton Old Road)	42	28952	12.0	29150	12.0
8	A662 Ashton New Road (East of Alan Turing Way)	43	20368	8.0	20413	8.0
9	A662 Ashton New Road (West of Alan Turing Way)	44	18092	7.7	18123	7.8
10	A635 Ashton Old Road (East of Alan Turing Way)	49	26231	11.0	26299	11.0
11	A635 Ashton Old Road (West of Alan Turing Way)	46	24003	12.0	24063	12.0
12	Gibbon Street East	32	14311	4.0	14311	4.0
13	Stuart Street	24	5235	3.0	5235	3.0
14	Welcomb Street	23	1910	15.0	1910	15.0
15	A665/ Great Ancoats Street	48	32938	2.3	32939	2.3
17	Bradford Road (West of Saxon Street)	43	12797	8.0	12797	8.0
18	Briscoe Lane (west of Riverpark Road)	43	16684	9.0	16684	9.0
19	A6010 Pottery Lane (north of Ambrose Street)	46	29193	13.0	29259	13.0
20	A622 Ashton New Road (East of Linfield Street)	46	15079	9.0	15124	9.0
21	A635 Ashton Old Road(West of Louisa Street)	41	25007	9.0	25074	9.0
22	A635 Ashton Old Road (east of Lime Bank Street)	44	29324	10.0	29392	10.0
23	A662 Ashton New Road (west of Hillkirk Street)	47	14173	9.0	14176	9.0

Construction road traffic link diagram

