Appendix 6.3

CONSTRUCTION CALCULATIONS

NOTE

Jackson's Row Developments Ltd (hereinafter referred to as ‘the Applicant’) is seeking to construct a major development proposal known as St Michael’s, Jackson’s Row, Manchester, UK

The planning application for the development was originally registered in January 2017. Following feedback, the decision was taken to revise the scheme. Revised plans and documents were submitted in November 2017 and the development was granted planning permission in June 2018.

Through the detailed design process, a number of relatively minor improvements to the original scheme have been identified; these will also provide technical and functional improvements through the next stage design process. The Applicant wishes to progress these proposed changes, which are considered to require amendments to the original scheme, through a Section 73 application.

An Environmental Statement, produced in accordance with the Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 2011, was submitted in support of the Approved Development in 2017. The 2017 Environmental Statement comprised three volumes, as follows:

Volume 1: Main Text and Figures;
Volume 2: Technical Appendices;
Volume 3: Non-Technical Summary

With reference to Volumes 1 and 2 of the 2017 Environmental Statement, it has been decided that rather than updating and re-submitting the entire Volumes in support the Section 73 application, an ‘Addendum’ to the 2017 Environmental Statement should be submitted. This is because the Proposed Amendments to the scheme are minor in nature and the potential to affect the environmental assessment is limited.

This Environmental Statement Volume 2 (2017) appendix formed part of the application package for the June 2018 approved scheme and remains valid.

Pre-mitigation Construction Calculations

							Old Nags Head		Radisson Blu Hotel	
Plant	**Number**	**LWA** *(dB ref 1pW)*	**LAeq @ 10m** *(dB ref 20 µPa)*	**% On-time**	**Tonal correction**	**Screening correction**	**Distance (m)**	**LAeq** *(dB ref 20 µPa)*	**Distance (m)**	**LAeq** *(dB ref 20 µPa)*
Activity: Demolition pre-enabling works										
Tracked Excavator	1	110		60			27	71.2	60	64.2
Tracked Crusher	1	110		80			27	72.4	60	65.5
Articulated Dump truck	1	106		60			27	67.2	60	60.2
Pulverisor	1	104		30			27	62.1	60	55.2
Breaker mounted on excavator	1	114		30			27	72.1	60	65.2
Scaffold access platform	1	95		20			27	51.4	60	44.4
Road Sweeper	1	104		25			27	61.4	60	54.4
Skip Wagon	1	106		10			27	59.4	60	52.4
Diesel Generator	1	94		100			27	57.4	60	50.4
Tower Crane	4	105		40			27	70.4	60	63.5
							Total	**78.3**	**Total**	**71.4**
Activity: Foundation Construction Phase										
Tracked excavator	1	110		60			30	70.2	65	63.5
Articulated dump truck	1	106		60			30	66.2	65	59.5
Concrete mixer truck	2	108		40			30	69.5	65	62.8
Concrete pump and concrete mixer truck idling	1	103		60			30	63.2	65	56.5
Poker Vibrator	2	97		50			30	59.5	65	52.7
Vibratory roller	1	105		20			30	60.5	65	53.8
Tower crane	1	105		40			30	63.5	65	56.8
Road Sweeper	1	104		25			30	60.4	65	53.7
Diesel generator	2	94		100			30	59.5	65	52.8
Tower crane	4	105		40			30	69.5	65	62.8
							Total	**76.1**	**Total**	**69.4**
Activity: Tower Construction										
Telescopic Handler	1	99		80			30	60.5	65	53.8
Tower Crane	4	105		40			30	69.5	65	62.8
Mobile telescopic crane	1	105		40			30	63.5	65	56.8
Concrete mixer truck	2	108		40			30	69.5	65	62.8
Concrete pump and concrete mixer truck idling	1	103		60			30	63.2	65	56.5
Poker vibrator	2	97		50			30	59.5	65	52.7
Angle grinder	1	108		50			30	67.4	65	60.7
Road Sweeper	1	104		25			30	60.4	65	53.7
Diesel generator	2	94		100			30	59.5	65	52.8
							Total	**75.0**	**Total**	**68.3**