

OVG Manchester:

Appendix 10.1 – Noise and Vibration – Noise Survey Results

OVG Manchester

Noise and Vibration – Noise Survey Results – Appendix 10.1

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Revision 02

Revision	Description	Issued by	Date	Checked
00	First Issue	GD	13/12/19	BFB
01	Incorporated comments from stakeholders	GD	17/1/20	BFB
02	Scoping Opinion and Legal Review comments incorporated.	GD	14/2/20	BFB

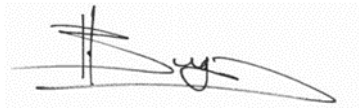
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date **14/2/20**

approved **Ben Burgess**

signature



date **14/2/20**

1 Noise Survey Results

The following outlines measurements taken during the noise survey at all measurement positions.

Where 'baseline' noise levels have been presented these have been chosen according to noise levels when there was no event at the Etihad.

Short-term Measurement Position 1 (ST-1) – Joe Mercer Way

Long-term noise measurements (dBA)						
Location	Date	Start time	End time	L _{Aeq,T}	L _{AF,max}	L _{A90,T}
ST-1	*18/6/19	11:31	11:46	55	68	51
	*18/6/19	17:45	18:00	57	68	55
	*18/6/19	18:58	19:13	60	75	57
	*18/6/19	20:00	20:15	63	86	58
	*18/6/19	21:15	21:30	65	74	61
	*18/6/19	21:30	21:45	63	75	58
	*18/6/19	22:51	23:06	67	84	61
	*18/6/19	23:10	23:25	59	83	55
	*18/6/19	23:30	23:40	55	75	50
	20/6/19	09:50	10:05	51	67	48
Baseline – daytime (07:00-23:00 hours)				51	67	48

*During Etihad stadium event activities.

Short-term Measurement Position 2 (ST-2) – Sportcity Way

Long-term noise measurements (dBA)						
Location	Date	Start time	End time	L _{Aeq,T}	L _{AF,max}	L _{A90,T}
ST-2	*18/6/19	11:50	12:05	58	71	51
	*18/6/19	18:25	18:40	62	84	57
	*18/6/19	19:40	19:55	59	73	51
	*18/6/19	20:45	21:00	62	76	57
	20/6/19	10:35	10:50	60	77	50
Baseline – daytime (07:00-23:00 hours)				60	77	50

*During Etihad stadium event activities.

Short-term Measurement Position 3 (ST-3) – Stuart Street (NSR)

Long-term noise measurements (dBA)						
Location	Date	Start time	End time	L _{Aeq,T}	L _{AF,max}	L _{A90,T}
ST-3	*18/6/19	11:10	11:25	61	84	54
	*18/6/19	18:05	18:20	58	70	54
	*18/6/19	19:22	19:37	60	81	52
	*18/6/19	20:20	20:35	61	69	57
	20/6/19	10:15	10:30	63	74	56
Baseline – daytime (07:00-23:00 hours)				63	74	56

*During Etihad stadium event activities.

Long-term Measurement Position 1 (LT-1) – Alan Turing Way

Long-term noise measurements (dBA)						
Location	Date	Start time	End time	L _{Aeq,T}	L _{AF,max}	L _{A90,T**}
LT-1	*18/6/19	11:00	23:00	68	91	55
	*18/6/19	23:00	07:00	64	80	46
	19/6/19	07:00	23:00	69	81	59
	19/6/19	23:00	07:00	63	79	45
Baseline – daytime (07:00-23:00 hours)				69	81	57***
Baseline – night-time (23:00-07:00 hours)				63	79	45

*During Etihad stadium event activities.

** Modal values.

*** Modal value from entirety of long-term measurements taken during daytime hours.