

Appendix 4-8

**Results of Construction
Noise Assessment
(Mitigated Scenario)**

Project: Main Arena of the 2008 Olympic Equestrian Event
 Title: Calculated Construction Noise Level, Leq (30 min)
 Option: Mitigated

NSR	Building Description	2006											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
N3	HKJC Staff Quarters	0	0	0	0	0	0	64	64	64	67	67	67
N4	Racecourse Villa	0	0	0	0	0	0	65	65	65	67	67	67
N5	International Christian School – Elementary	0	0	0	0	0	0	62	62	62	64	64	64
N7	Leung Kui Kau Primary School	0	0	0	0	0	0	64	64	64	65	65	65

NSR	Building Description	2007											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
N3	HKJC Staff Quarters	67	71	69	0	0	0	0	0	0	0	0	0
N4	Racecourse Villa	67	70	68	0	0	0	0	0	0	0	0	0
N5	International Christian School – Elementary	63	66	64	0	0	0	0	0	0	0	0	0
N7	Leung Kui Kau Primary School	65	68	66	0	0	0	0	0	0	0	0	0

NSR	Building Description	2008											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
N3	HKJC Staff Quarters	0	0	42	60	59	59	0	0	0	57	57	57
N4	Racecourse Villa	0	0	40	57	57	57	0	0	0	55	55	55
N5	International Christian School – Elementary	0	0	36	54	54	54	0	0	0	52	52	52
N7	Leung Kui Kau Primary School	0	0	38	55	55	55	0	0	0	53	53	53

NSR	Building Description	2009			Max Noise Level, Leq	EIAO Criteria	Exceedance
		Jan	Feb	Mar			
N3	HKJC Staff Quarters	37	38	39	71	75	0
N4	Racecourse Villa	55	0	0	70	75	0
N5	International Christian School – Elementary	52	0	0	66	70	0
N7	Leung Kui Kau Primary School	53	0	0	68	70	0

Note:
 See attached for detailed calculation.

Project: 2008 Olympic Equestrian Event

Title: Total SWL of PME for each Month for each worksite - Summary Sheet

Worksite	2006												2007											
	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12
WS1	0	0	0	0	0	0	0	0	0	115	115	115	115	120	118	0	0	0	0	0	0	0	0	0
WS2	0	0	0	0	0	0	118	118	118	118	118	118	118	118	116	0	0	0	0	0	0	0	0	0
WS4	0	0	0	0	0	0	110	110	110	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0
WS5	0	0	0	0	0	0	109	109	109	109	109	109	109	109	109	0	0	0	0	0	0	0	0	0

Note:

[1] Total SWL is based sub-total SWL of the preceding calculation sheet for each worksite.

Project: 2008 Olympic Equestrian Event

Title: Total SWL of PME for each Month for each worksite - Summary Sheet

Worksite	2008												2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
WS1	0	0	92	109	109	109	0	0	0	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0
WS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note:

[1] Total SWL is based sub-total SWL of the preceding calculation sheet for each worksite.

Project: 2008 Olympic Equestrian Event

Title: Calculated Leq (30 min) from Total SWL of PME in worksite

NSR No.: 3 (HKJC Staff Quarters)

	Distance	Distance Correction	2006												2007											
			Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12
WS1	176	-52.9	0	0	0	0	0	0	0	0	65	65	65	65	70	68	0	0	0	0	0	0	0	0		
WS2	316	-58.0	0	0	0	0	0	0	0	63	63	63	63	63	63	61	0	0	0	0	0	0	0	0		
WS4	444	-61.0	0	0	0	0	0	0	0	52	52	52	52	0	0	0	0	0	0	0	0	0	0	0		
WS5	669	-64.5	0	0	0	0	0	0	0	47	47	47	47	47	47	47	0	0	0	0	0	0	0	0		
Total SPL			0	0	0	0	0	0	0	64	64	64	67	67	67	67	67	71	69	0	0	0	0	0		

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $-20 \log r - 8$ based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.

Project: 2008 Olympic Equestrian Event

Title: Calculated Leq (30 min) from Total SWL of PME in worksite

NSR No.: 3 (HKJC Staff Quarters)

	Distance	Distance Correction	2008												2009											
			Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12
WS1	176	-52.9	0	0	42	60	59	59	0	0	0	57	57	57	57	0	0	0	0	0	0	0	0	0	0	0
WS2	316	-58.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS4	444	-61.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS5	669	-64.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total SPL			0	0	42	60	59	59	0	0	0	57	57	57	57	0	0	0	0	0	0	0	0	0	0	0

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $-20 \log r - 8$ based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.

Project: 2008 Olympic Equestrian Event
 Title: Calculated Leq (30 min) from Total SWL of PME in worksite
 NSR No: 4 (Racecourse Villa)

	Distance	Distance Correction	2006												2007											
			Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12
WS1	224	-55.0	0	0	0	0	0	0	0	0	0	63	63	63	63	68	66	0	0	0	0	0	0	0	0	0
WS2	285	-57.1	0	0	0	0	0	0	0	64	64	64	64	64	64	64	62	0	0	0	0	0	0	0	0	
WS4	334	-58.5	0	0	0	0	0	0	0	54	54	54	54	54	0	0	0	0	0	0	0	0	0	0	0	
WS5	530	-62.5	0	0	0	0	0	0	0	49	49	49	49	49	49	49	49	0	0	0	0	0	0	0	0	
Total SPL			0	0	0	0	0	0	0	65	65	65	67	67	67	70	68	0	0	0	0	0	0	0	0	

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $- 20 \log r - 8$
 based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.

Project: 2008 Olympic Equestrian Event
 Title: Calculated Leq (30 min) from Total SWL of PME in worksite
 NSR No: 4 (Racecourse Villa)

	Distance	Distance Correction	2008												2009												
			Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12	Jan 1	Feb 2	Mar 3	Apr 4	May 5	Jun 6	Jul 7	Aug 8	Sep 9	Oct 10	Nov 11	Dec 12	
WS1	224	-55.0	0	0	40	57	57	57	0	0	0	55	55	55	55	0	0	0	0	0	0	0	0	0	0	0	0
WS2	285	-57.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WS4	334	-58.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WS5	530	-62.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total SPL			0	0	40	57	57	57	0	0	0	55	55	55	55	0	0	0	0	0	0	0	0	0	0	0	

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $- 20 \log r - 8$
 based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.

Project: 2008 Olympic
Equestrian Event

Title: Calculated Leq (30 min)
from Total SWL of PME
in worksite

NSR No: 5 (International
Christian School –
Elementary)

	Distance	Distance Correction	2006												2007											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WS1	347	-58.8	0	0	0	0	0	0	0	0	0	59	59	59	59	64	63	0	0	0	0	0	0	0	0	
WS2	405	-60.2	0	0	0	0	0	0	0	61	61	61	61	61	61	61	59	0	0	0	0	0	0	0	0	
WS4	434	-60.7	0	0	0	0	0	0	0	52	52	52	52	52	0	0	0	0	0	0	0	0	0	0	0	
WS5	601	-63.6	0	0	0	0	0	0	0	48	48	48	48	48	48	48	48	0	0	0	0	0	0	0	0	
Total SPL			0	0	0	0	0	0	0	62	62	62	64	64	63	66	64	0	0	0	0	0	0	0	0	

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $-20 \log r - 8$
based on hemi-spherical radiation,
where r = distance.

[3] Total Sound Pressure Level (SPL)
= Total SWL + Distance Correction +
3 dB facade correction. Total SWL is
based on the Total SWL Summary
Sheet.

Project: 2008 Olympic Equestrian Event

Title: Calculated Leq (30 min) from Total SWL of PME in worksite

NSR No: 5 (International Christian School – Elementary)

Worksite	Distance [1]	Distance Correction	2008												2009											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WS1	347	-58.8	0	0	36	54	54	54	0	0	0	52	52	52	52	0	0	0	0	0	0	0	0	0	0	0
WS2	405	-60.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WS4	434	-60.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WS5	601	-63.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total SPL			0	0	36	54	54	54	0	0	0	52	52	52	52	0	0	0	0	0	0	0	0	0	0	

Notes:
 [1] Distance between NSR and notional source position of worksite

[2] Distance correction = $-20 \log r - 8$ based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.

Project: 2008 Olympic Equestrian Event

Title: Calculated Leq (30 min) from Total SWL of PME in worksite

NSR No: 7 (Leung Kui Kau Primary School)

Worksite	Distance [1]	Distance Correction	2006												2007														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
WS1	296	-57.4	0	0	0	0	0	0	0	0	0	0	60	60	60	60	65	64	0	0	0	0	0	0	0	0	0	0	0
WS2	314	-57.9	0	0	0	0	0	0	0	64	64	64	64	64	64	64	64	61	0	0	0	0	0	0	0	0	0	0	0
WS4	472	-61.5	0	0	0	0	0	0	0	51	51	51	51	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS5	609	-63.7	0	0	0	0	0	0	0	48	48	48	48	48	48	48	48	48	0	0	0	0	0	0	0	0	0	0	0
Total SPL			0	0	0	0	0	0	0	64	64	64	65	65	65	65	68	66	0	0	0	0	0	0	0	0	0	0	0

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $-20 \log r - 8$ based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.

Project: 2008 Olympic Equestrian Event

Title: Calculated Leq (30 min) from Total SWL of PME in worksite

NSR No: 7 (Leung Kui Kau Primary School)

	Distance	Distance Correction	2008												2009											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WS1	296	-57.4	0	0	38	55	55	55	0	0	0	53	53	53	53	0	0	0	0	0	0	0	0	0	0	
WS2	314	-57.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WS4	472	-61.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WS5	609	-63.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total SPL			0	0	38	55	55	55	0	0	0	53	53	53	53	0	0	0	0	0	0	0	0	0	0	

Notes:

[1] Distance between NSR and notional source position of worksite

[2] Distance correction = $-20 \log r - 8$ based on hemi-spherical radiation, where r = distance.

[3] Total Sound Pressure Level (SPL) = Total SWL + Distance Correction + 3 dB facade correction. Total SWL is based on the Total SWL Summary Sheet.