Appendix 5.2

SWL of PME and Sections of Workfronts and NSRs

Project: Agreement No. CE 1/2013 (CE) Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery - Design and Construction

Title: SWLs of PMEs

			Unmitigated SWLs					Quiet Plant				Mitigated Scenario				
PME	%	Corr, dB(A)	ID	Description	Power	PME	Unmitigate	ID	Power rating Size, wieght	PME	Quiet Plant	Enclosure,	Barrier,	Acoustic	Total	Mitigate
	Operation				rating Size,	SWL,	d SWL,			SWL,	SWL,	dB(A)	dB(A)	Mat,	Reduction,	, d SWL,
					wieght	dB(A)	dB(A) [1]			dB(A)	dB(A) [1]			dB(A)	dB(A)	dB(A) [1]
Air Compressor (CNP002) (100%)	100	0	CNP002	Air compressor, air flow > 10m3/min and =< 30 m3/min	-	102	102				102	-15			-15	87
Asphalt Paver (CNP004) (100%)	100	0	CNP004	Asphalt paver	-	109	109	BS5228-D8-24	Mass: 13t	101	101		-5		-5	96
Hand Held Breaker (CNP023) (100%)	100	0	CNP023	Breaker, hand held, mass < 15kg	-	108	108				108		-10		-10	98
Bar Bender and Cutter (Electric) (CNP021) (100%)	100	0	CNP021	Bar bender and cutter (electric)	-	90	90				90					90
Concrete Lorry Mixer (CNP044) (70%)	70	-2	CNP044	Concrete lorry mixer	-	109	107	BS5228-D6-23	Power rating: 22kW	100	98		-5		-5	93
Concrete pump (CNP047) (100%)	100	0	CNP047	Concrete pump, stationary / lorry mounted	-	109	109	BS5228-D6-36	Power rating: 100kW	106	106		-10		-10	96
Mobile Crane (CNP048) (100%)	100	0	CNP048	Crane, mobile / barge mounted (diesel), P >55	-	102	102	EPD-01516	KOBELCO, Model #:CKS900	101	101		-5		-5	96
Tower Crane (CNP049) (100%)	100	0	CNP049	Crane, tower (electric)	-	95	95				95					95
Drill, Percussive, hand-held (electric) (CNP064) (100%)	100	0	CNP064	Drill, percussive, hand held (electric)	-	103	103				103		-10		-10	93
Dump Truck (70%)	70	-2	[3]	Dump truck (5.5 tonne < gross vehicle weight <=38	-	105		BS5228-D9-19		102	100		-5		-5	95
Excavator (CNP081) (100%)	100	0	CNP081	Excavator / loader, wheeled / tracked	-	112	112		JCB, Model #:8016	93	93		-5		-5	88
Backhoe (CNP081) (100%)	100	0	CNP081	Excavator / loader, wheeled / tracked	-	112	112	EPD-01176	JCB, Model #:8016	93	93		-5		-5	88
Generator (CNP101) (100%)	100	0	CNP101	Generator, standard	-	108	108	EPD-02175	DENYO, Model #:DCA-45ESI	89	89	-15			-15	74
Piling, large dia bored, oscillator (CNP165) (100%)	100	0	CNP165	Piling, large dia bored, oscillator	-	115	115				115			-5	-5	110
Piling, large dia bored, reverse cirulation drill (CNP166) (100%)	100	0	CNP166	Piling, large dia bored, reverse cirulation drill	-	100	100				100		-5		-5	95
Piling Rig and Drilling Rig (CNP167) (100%)	100	0	CNP167	Piling, earth auger, auger	-	114	114				114		-5		-5	109
Vibratory Poker (CNP170) (100%)	100	0	CNP170	Poker, vibratory, hand held	-	113			Poker, vibratroy, hand held [2]	102	102		-10		-10	92
Roller (CNP185) (100%)	100	0	CNP185	Road Roller	-	108	108	EPD-01806	KANTO-TK, Model #:KV25DS	95	95		-5		-5	90
Saw, Circular Wood (CNP201) (100%)	100	0	CNP201	Saw, Circular Wood (100%)	-	108	108		-		108		-10		-10	98
Water pump (CNP281) (Electric) (100%)	100	0	CNP281	Water pump (electric)	-	88	88				88		-10		-10	78

- Note:
 [1] SWL with utilisation rates adjustment
- [2] CPME#:The quiet plant SWL data for Poker, Vibratory, Hand Held (CNP170) are based on sound power levels of other commonly used PME from http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
- [3] The SWL data for Dump Truck (5.5 tonne < gross vehicle weight <=38 tonne) is based on sound power levels of other commonly used PME from http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

