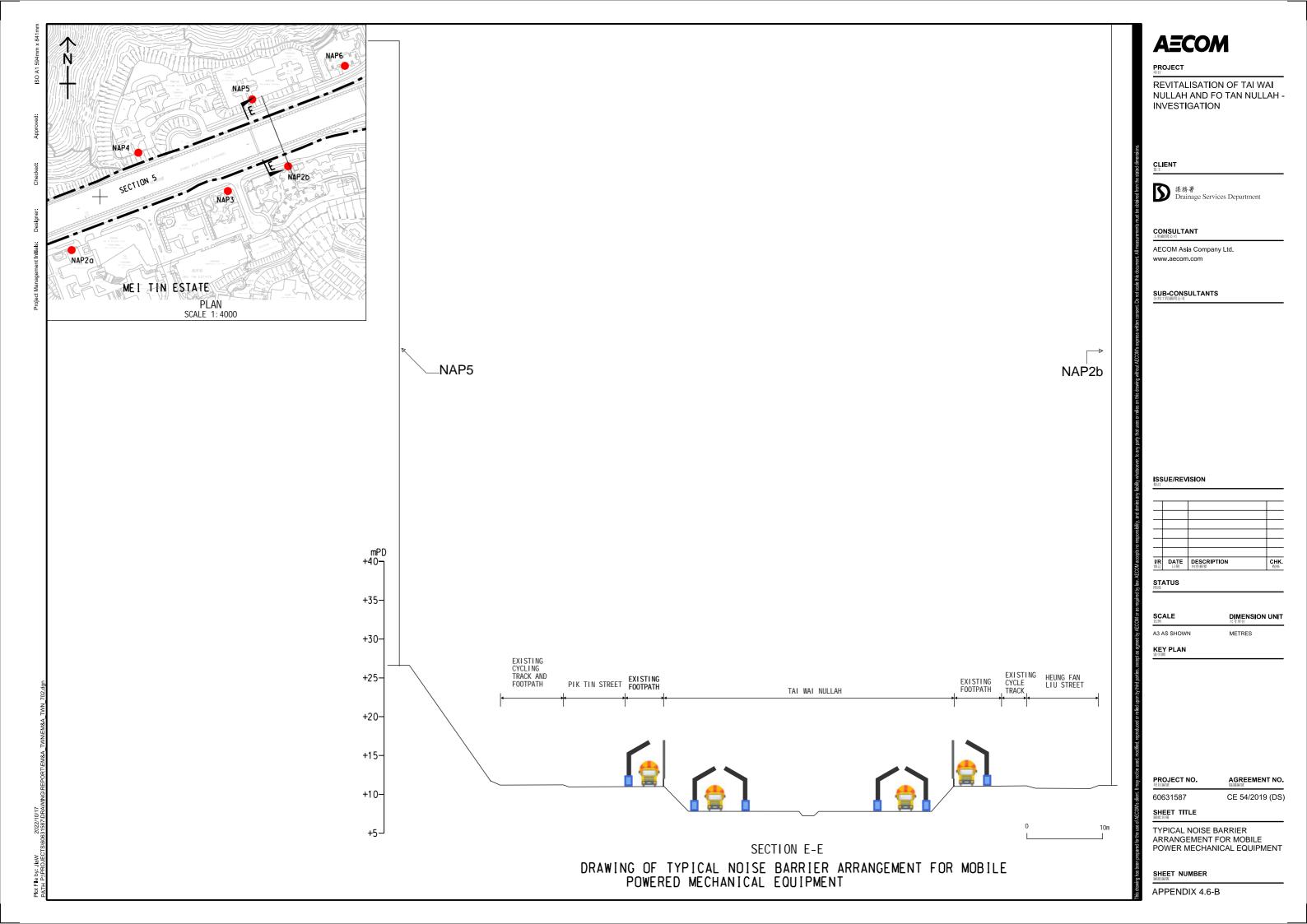
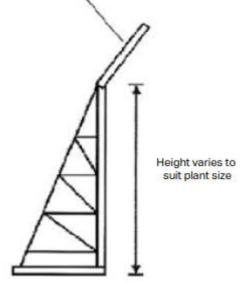
ID Ma	ain Construction Tasks	Work Section (see Appendix 4.2)	Group ID	Construction Works	Sub-Group ^[1]	Sub-Plant ID [2]	Plant / Equipment	Ref Code	SWL, dB(A) (PME)	No. of Units	Utilization Rate (%)	Mitigation Measures [7]	Barrier Correction, dB(A)	Adjusted SWL, dB(A) (PME)	SWL, dB(A) (Sub-Plant) [2]	SWL, dB(A) (Sub Group) [1]	SWL, dB(A) (PME Group)
						A-1a-1	Air Compressor, air flow < 10m3/min	CNP 001 [3	100	1	50	Movable Noise Barrier	-10	87	94	94	94
			A-1	Excavation at the Nullah	a Excavation		Breaker HILTI TE 1000-AVR187619	EPD-04329 [5	99	1	50	Movable Noise Barrier	-5	91	4		
		1 to 6					Road ripper, mini robot mounted Excavator, wheeled/tracked YANMAR VIO12-2A 21016	OCUPME-026 [5	97	1	50	Movable Noise Barrier	-5	89	4		
				De sunfants : : : :	De surfacion and succeipt of the suddeb Dealetti	0.0-4	Roller, vibratory SAKAI HV620 5HV23-11652	EPD-08247 ^{[5}	87 94	1	70 100	Movable Noise Barrier Movable Noise Barrier	-5 -5	80 89		89	89
Δ Chan	nnel Bed Modification		A-2	Re-surfacing and greening of the nullah	a Re-surfacing and greening of the nullah - Backfill b Re-surfacing and greening of the nullah - Vegetating	A-2a-1 A-2b-1	Crane Maeda CC985S-1 51215	EPD-10367	94	1	100	Movable Noise Barrier Movable Noise Barrier	-5 -5	86	89 86	86	- 89
A Jonan	mainier bed Modification				5 Tre-surfacing and greening of the fidulari - vegetating	A-3a-1	Concrete lorry mixer	CNP 044	109	1	50	Movable Noise Barrier	-10	96	96	96	96
		6	A-3	Construction of Energy Dissipation Structures at Upstream Section	a Concreting	A-3a-2	Poker, vibratory, hand-held (electric)	CNP 173	94	1	70	Movable Noise Barrier	-10	82	90		30
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85	7		
							Saw, circular, wood	CNP 201 [3	108	1	70	Movable Noise Barrier	-10	96	96		
					b Backfill	A-3b-1	Roller, vibratory SAKAI HV620 5HV23-11652	EPD-10387 [5	94	1	100	Movable Noise Barrier	-5	89	89	89	1
		1 to 5	B-1	Construction of Viewing Deck / Pavillion, Renovation of Existing Footbridges Construction of Staircases and Access Ramps	a Construction of Viewing Deck / Pavillion, Renovation of Existing Footbridges a Excavation and Lateral Support	B-2a-1	Air Compressor, air flow < 10m3/min	CNP 001 [3	100	1	50	Movable Noise Barrier	-10	87	95	95	95 96
							Breaker HILTI TE 1000-AVR187619	EPD-04329 [5	99	1	50	Movable Noise Barrier	-5	91			
							Poker, vibratory, hand-held (electric)	CNP 173	94	1	70	Movable Noise Barrier	-10	82			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85			
			B-2				Roller, vibratory SAKAI HV620 5HV23-11652	EPD-10387 [5	94	1	100	Movable Noise Barrier	-5	89			
	Improvement of Existing Walkways and Riparian Public Open Spaces						Giken Piler and Power-pack	Giken-001 [6	94	1	70	Noise Insulation Fabric	-10	82	88	94	
							Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	_		
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85			
						B-2a-2	Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	80		
						B-2a-3	Ventilation fan	CNP 241	108	1	100	Noise Enclosure	-15	93	94		
					b Concreting	B-2b-1 B-2b-2	Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85		96	4
							Concrete lorry mixer	CNP 044 [3	109	1	50	Movable Noise Barrier	-10	96	96	90	
							Poker, vibratory, hand-held (electric) Generator, super silenced, 70dB(A) at 7m	CNP 173 [3 CNP 103 [3	94	1	70	Movable Noise Barrier Movable Noise Barrier	-10 -10	82 85			
							Saw, circular, wood	CNP 201	95 108	1	100 70	Movable Noise Barrier Movable Noise Barrier	-10	96		_	
						B-20-2 B-3a-1	Giken Piler and Power-pack	Giken-001 [6	94	1	70	Noise Insulation Fabric	-10	82	96	94	96
		2 to 4	B-3	Construction of riparian walkway, water play features and UV Disinfection System, and visitor facilities (toilet and management office) Demolition of existing footbridge	a Excavation and Lateral Support	D-3a-1	Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-10	80	88	0.	30
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85	1		
						B-3a-2	Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	80	1	
						B-3a-3	Ventilation fan	CNP 241	108	1	100	Noise Enclosure	-15	93		_	
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85	94		
					b Concreting	B-3b-1	Concrete lorry mixer	CNP 044	109	1	50	Movable Noise Barrier	-10	96	96	96	1
							Poker, vibratory, hand-held (electric)	CNP 173	94	1	70	Movable Noise Barrier	-10	82			102
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85			
						B-3b-2 B-4a-1	Saw, circular, wood	CNP 201	108	1	70	Movable Noise Barrier	-10	96	96		
			B-4				Concrete crsusher, excavator mounted	OCUPME-008 [3	103	1	70		0	101	102	102	
		3, 3	D-4	Demonition of existing footbridge	a Demonion		Excavator / Loader	EPD-08247 [5	87	1	70		0	85			
	Construction of Dry Weather Flow Interceptor (DWFI) System / Water pumps and Pipes for Ecological Enhancement Associated					C-1a-1	Giken Piler and Power-pack	Giken-001	94	1	70	Noise Insulation Fabric	-10	82	88	94	94
		1		Connection Works of DWFI System to Existing Sewerage System	a Excavation and Lateral Support		Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85		_	
			C-1			C-1a-2 C-1a-3	Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	80		
							Ventilation fan	CNP 241	108	1	100	Noise Enclosure	-15	93	94		
							Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85		96	
		1 to 6		Construction of DMFI Charact	Pipe Laying and Connection C-1b-1		Crane Maeda CC985S-1 51215 Concrete lorry mixer	EPD-05602 ^{[5} CNP 044 ^{[3}	91	1	100	Movable Noise Barrier	-5	86 96	00	86 96	+
Co		*Underground Pipes from Section 3 to Section 6 for Ecological Enhancement Associated Water Retention and Supplement will be		Construction of DWFI Channel along the Nullah, and Mid-stream water pumps and Pipes along the Nullah for Ecological Enhancement Associated Water Supplement	c Concreting	C-2c-1 C-2c-2 C-2d-1	Poker, vibratory, hand-held (electric)	CNP 173	94	1	50 70	Movable Noise Barrier Movable Noise Barrier	-10 -10	82	96	30	96
			C-2				Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85	+		
			02				Saw, circular, wood	CNP 201	108	1	70	Movable Noise Barrier	-10	96	96	=	
							Roller, vibratory SAKAI HV620 5HV23-11652	EPD-10387 [5	94	1	100	Movable Noise Barrier	-5	89	89	89	-
Enha		_constructed along the DWFI		Construction of Pumping Facilities & Associated E&M works	a Excavation and Lateral Support	C-3a-1	Giken Piler and Power-pack	Giken-001 [6	94	1	70	Noise Insulation Fabric	-10	82	88	94	96
Wa	ater Retention and Supplement						Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80			
	опрринин		C-3				Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85	1		
						C-3a-2	Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	80	7	
						C-3a-3	Ventilation fan	CNP 241	108	1	100	Noise Enclosure	-15	93	94	7	
		3					Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85	1		
					b Concreting	C-3b-1 C-3b-2	Concrete lorry mixer	CNP 044	109	1	50	Movable Noise Barrier	-10	96	96	96	
							Poker, vibratory, hand-held (electric)	CNP 173	94	1	70	Movable Noise Barrier	-10	82			
			1				Generator, super silenced, 70dB(A) at 7m	CNP 103 [3	95	1	100	Movable Noise Barrier	-10	85	<u> </u>	_	
							Saw, circular, wood	CNP 201 [3	108	1	70	Movable Noise Barrier	-10	96	96		
	Landscaping and Miscellaneous	1 to 5		Landscaping / greening of the bankside along the nullah	a Planter Construction / Modification	D-1a-2	Concrete mixer (electric)	CNP 045	96	1	50	Movable Noise Barrier	-5	88	90	90	90
							Poker, vibratory, hand-held (electric)	CNP 173	94	1	70	Movable Noise Barrier	-10	82	1		
_ .			D-1				Generator, super silenced, 70dB(A) at 7m	CNP 103	95	1	100	Movable Noise Barrier	-10	85		_	
							Roller, vibratory SAKAI HV620 5HV23-11652	EPD-10387 [5	94	1	100	Movable Noise Barrier	-5	89	89		
						D-1b-1	Crane Maeda CC985S-1 51215	EPD-05602 [5	91	1	100	Movable Noise Barrier	-5	86	86	86	
			D-2	Utlilty Works	c Utility Laying/Connection		Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	87	87	87
							Crane Maeda CC985S-1 51215	EPD-05602 [5	91	1	100	Movable Noise Barrier	-5	86	+		
E Desi	ilting at downstream tidal zone	1	E-1	Desilting at downstream tidal	a Desilting	E-1a-1	Excavator, wheeled/tracked YANMAR VIO12-2A 21016	EPD-08247 [5	87	1	70	Movable Noise Barrier	-5	80	95	95	95
			1	zone	l l ⁻	I	Dump truck, 5.5 tonne< gross vehicle weight =< 38	OCUPME-038 [4	105	I 1	30	Movable Noise Barrier	-5	95	1	1	1

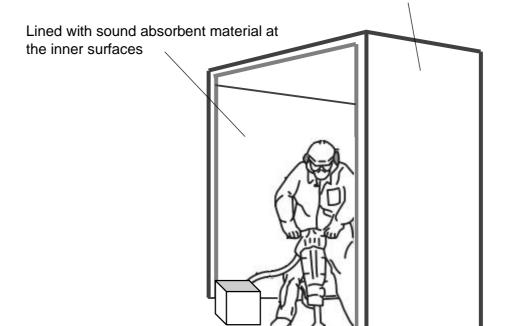
Remarks:
[1] Only one Sub-Group in a PME Group will be operating at the same time.
[2] Only one Sub-Plant in a Sub-Group will be operating at the same time.
[3] The SWL is referenced with Table 3 of EPD's Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.
[4] The SWL is referenced to "Sound power levels of other commonly used PME" at EPD website, https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
[5] The SWL is referenced with QPME system published by EPD.
[6] The SWL is referenced to AEIAR-127/2008 "EIA Report of Tsim Sha Tsui Station Northern Subway". For the sound pressure level at 7m from equipment, see website link: https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-equipment/item/27-press-in-method.html
[7] Noise reduction assumed: 5 dB(A) for moveable PME & 10 dB(A) for static PME with the provision of movable noise barrier; 10 dB(A) for the provision of noise insultating fabric for pilling machine; 15 dB(A) for stationary PME with the provision of enclosure.



Minimum surface density of 14kg/m²



Typical Configuration of Noise Barrier (~3-5m high)



Typical Configuration of Portable Noise Enclosure (~2m high)

Minimum surface density of 14kg/m²

AECOM

PROJECT

REVITALISATION OF TAI WAI NULLAH AND FO TAN NULLAH -INVESTIGATION

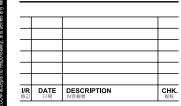


CONSULTANT

AECOM Asia Company Ltd.

SUB-CONSULTANTS

ISSUE/REVISION



STATUS

DIMENSION UNIT A3 AS SHOWN

KEY PLAN

PROJECT NO.

AGREEMENT NO.

60631587

CE 54/2019 (DS)

SHEET TITLE

TYPICAL CONFIGURATION OF MOVABLE
NOISE BARRIER AND PORTABLE NOISE
ENCLOSURE FOR POWER MECHANICAL
EQUIPMENT

SHEET NUMBER

APPENDIX 4.6-B