

Appendix 4.2

Preliminary Construction Programme Construction Plant Inventory (Without Mitigation)

Work ID	Activities	Plant [4]	TM Ref. / BS / Other Ref. [1] [2]	No. of PME	Unit SWL, dB(A)	On-time %	SWL, dB(A)	Total SWL for each Work, dB(A)	Max SWL for the Works, dB(A) [4]		
(A,B) Improvement Works to Tributary Sections TKL04, TKL05											
1	Site Clearance	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	116		
		Dump truck	CNP 067	1	117	30%	112				
		Breaker, hand-held, mass > 10kg and <20kg	CNP 024	1	108	50%	105				
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95				
2	Form work of Temporary Channel	Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95	109		116	
		Crane, mobile/barge mounted (diesel)	CNP 048	1	112	50%	109				
		Bar Bender and Cutter (Electric)	CNP 021	1	90	50%	87				
3	Excavation to Formation Level	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	116			116
		Piling, vibrating hammer	[1]	1	115	50%	112				
		Generator, super silenced, 70dB(A) at 7m	CNP 103	4	95	100%	101				
		Dump truck	CNP 067	1	117	30%	112				
		Water pump, submersible (electric)	CNP 283	2	85	100%	88				
		Breaker, hand-held, mass > 10kg and <20kg	CNP 024	1	108	50%	105				
4	Construction of Channel and Crossings	Generator, super silenced, 70dB(A) at 7m	CNP 103	2	95	100%	98	114	116		
		Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109				
		Water pump, submersible (electric)	CNP 283	6	85	100%	93				
		Concrete lorry mixer	CNP 044	1	109	50%	106				
		Poker, vibratory, hand-held	CNP 170	1	113	50%	110				
5	Backfilling & Landscaping	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114		116	
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95				
		Dump truck	CNP 067	1	117	30%	112				
		Roller, vibratory	CNP 186	1	108	50%	105				

Notes:

- [1] Extracted from EPD document namely, "Sound power levels of other commonly used PME" (https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)
- [2] The figures are rounded-up to a whole number.
- [3] Construction plants are reviewed by Engineer.
- [4] The PME for maintenance access ramps are incorporated to "Construction of Channel and Crossing"
- [5] Construction activities will not be carried out concurrently.
- [6] The worst case scenario has been adopted in the calculation using closest work front(s)

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Preliminary Construction Programme Construction Plant Inventory (Without Mitigation)

Work ID	Activities	Plant [5]	TM Ref. / BS / Other Ref. [1] [2]	No. of PME	Unit SWL, dB(A)	On-time %	SWL, dB(A)	Total SWL for each Work, dB(A)	Max SWL for the Works, dB(A) [4]
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(C) Construction of Road Drainage System at Ping Che Road

1	Earth Works	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	114
		Dump truck	CNP 067	1	117	30%	112		
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95		
		Breaker, hand-held, mass > 10kg and <20kg	CNP 024	1	108	50%	105		
2	Trench Support & Ground Compaction	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	
		Roller, vibratory	CNP 186	1	108	50%	105		
		Piling, vibrating hammer	[1]	1	115	50%	112		
		Light goods vehicle, gross vehicle weight \leq 5.5 tonne	[1]	1	101	50%	98		
3	Pipe-laying Works	Concrete lorry mixer	CNP 044	1	109	50%	106	113	
		Dump truck	CNP 067	1	117	30%	112		
		Winch (electric)	CNP 262	1	95	50%	92		
		Ventilation fan	CNP 241	1	108	50%	105		
4	Backfilling & Landscaping	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95		
		Dump truck	CNP 067	1	117	30%	112		
		Roller, vibratory	CNP 186	1	108	50%	105		

Notes:

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- [2] The figures are rounded-up to a whole number.
- [3] Construction plants are reviewed by Engineer.
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Work ID	Activities	Plant [5]	TM Ref. / BS / Other Ref. [1] [2]	No. of PME	Unit SWL, dB(A)	On-time %	SWL, dB(A)	Total SWL for each Work, dB(A)	Max SWL for the Works, dB(A) [4]
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(D) **Construction of Road Drainage System at Ping Yeung Village**

1	Earth Works	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	114
		Dump truck	CNP 067	1	117	30%	112		
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95		
		Breaker, hand-held, mass > 10kg and <20kg	CNP 024	1	108	50%	105		
2	Trench Support & Ground Compaction	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	
		Roller, vibratory	CNP 186	1	108	50%	105		
		Piling, vibrating hammer	[1]	1	115	50%	112		
		Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	[1]	1	101	50%	98		
3	Pipe-laying Works	Concrete lorry mixer	CNP 044	1	109	50%	106	113	
		Dump truck	CNP 067	1	117	30%	112		
		Winch (electric)	CNP 262	1	95	50%	92		
		Ventilation fan	CNP 241	1	108	50%	105		
4	Backfilling & Landscaping	Excavator/loader, wheeled/tracked	CNP 081	1	112	50%	109	114	
		Generator, super silenced, 70dB(A) at 7m	CNP 103	1	95	100%	95		
		Dump truck	CNP 067	1	117	30%	112		
		Roller, vibratory	CNP 186	1	108	50%	105		

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- [3] Construction plants are reviewed by Engineer.
- [4] Construction activities will not be carried out concurrently.
- [5] The worst case scenario has been adopted in the calculation using closest work front(s)