



Appendix 4-3b

Predicted Construction Noise Levels (Mitigated Scenario)

Appendix 4-3b Predicted Construction Noise Levels (Mitigated Scenario)

NSRs	Sources of Impact ⁽¹⁾	No. of Storey	Floor	Distance, m					Dist. Corr., dB(A)	Façade Corr., dB(A)	Subject to Noise from Works Type				Mitigated Noise Impact, dB(A)								Noise Criteria, dB(A)	Mitigated Noise Level, dB(A)	
				Notional Dis.	z (mPD)	Source Elev. (mPD)	mPD Difference between Source and NSR	Slant Dis.							Works Type 1 ⁽²⁾		Works Type 2 ⁽²⁾		Works Type 3 ⁽²⁾		Works Type 4 ⁽²⁾				
											1	2	3	4	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2			
Sung Shan New Village																									
SSNV1 (#88A, Yau Cha Po)	Widening of the existing drainage channel - section of works area S102	3	G/F	18.2	12.7	12.7	0.0	18.2	-33.2	3.0	Y					64	64	-	-	-	-	75	64		
			1/F	18.2	15.5	12.7	2.8	18.4	-33.3	3.0	Y					64	64	-	-	-	-		64		
			2/F	18.2	18.3	12.7	5.6	19.0	-33.6	3.0	Y					63	63	-	-	-	-		63		
	Widening of the existing drainage channel - section of works area S103		G/F	24.5	12.7	12.8	-0.1	24.5	-35.8	3.0	Y					61	61	-	-	-	-		61		
			1/F	24.5	15.5	12.8	2.7	24.7	-35.9	3.0	Y					61	61	-	-	-	-		61		
			2/F	24.5	18.3	12.8	5.5	25.1	-36.0	3.0	Y					61	61	-	-	-	-		61		
Mitigated Maximum Noise Level at SSNV1, dB(A)																						66			
SSNV2 (Village house next to a nallah in Tong Tai Po Tsuen (near DD118 1720 S.A.))	Widening of the existing drainage channel - section of works area S104	2	G/F	10.6	13.3	12.9	0.4	10.6	-28.5	3.0	Y					68	68	-	-	-	-	75	68		
			1/F	10.6	16.1	12.9	3.2	11.1	-28.9	3.0	Y					68	68	-	-	-	-		68		
			G/F	17.3	13.3	12.9	0.4	17.3	-32.8	3.0	Y					64	64	-	-	-	-		64		
	Widening of the existing drainage channel - section of works area S105		1/F	17.3	16.1	12.9	3.2	17.6	-32.9	3.0	Y					64	64	-	-	-	-		64		
			Mitigated Maximum Noise Level at SSNV2, dB(A)																						70
			SSNV3 (Village house near a soybean sauce factory in Sung Shan New Village (near DD118 1712))	Widening of the existing channel - section of works area S112	1	G/F	12.4	12.7	13.4	-0.7	12.4	-29.9	3.0	Y					67	67	-	-	-	-	75
G/F	11.8	12.7				14.0	-1.3	11.9	-29.5	3.0	Y					67	67	-	-	-	-		67		
Mitigated Maximum Noise Level at SSNV3, dB(A)																						70			
SSNV4 (#107, Yau Cha Po)	Widening of the existing channel - section of works area S113	2	G/F	25.0	19.5	14.0	5.5	25.6	-36.2	3.0	Y					61	61	-	-	-	-	75	61		
			1/F	25.0	22.3	14.0	8.3	26.3	-36.4	3.0	Y					61	61	-	-	-	-		61		
			G/F	21.5	19.5	14.6	4.9	22.0	-34.8	3.0	Y					62	62	-	-	-	-		62		
	Widening of the existing channel - section of works area S114		1/F	21.5	22.3	14.6	7.7	22.8	-35.2	3.0	Y					62	62	-	-	-	-		62		
			Mitigated Maximum Noise Level at SSNV4, dB(A)																						65
			SSNV5 (#25, Sung Shan New Village)	Widening of the existing channel - section of works area S115	1	G/F	45.4	14.4	14.0	0.4	45.4	-41.1	3.0	Y					56	56	-	-	-	-	75
G/F	34.0	14.4				14.0	0.4	34.0	-38.6	3.0	Y					58	58	-	-	-	-		58		
Mitigated Noise Level, dB(A)																						60			
SSNV5 (#25, Sung Shan New Village)	Widening of the existing channel - section of works area S116	1	G/F	34.0	14.4	14.0	0.4	34.0	-38.6	3.0	Y					58	58	-	-	-	-	75	58		
			G/F	43.4	14.4	14.0	0.4	43.4	-40.7	3.0	Y					56	56	-	-	-	-		56		
Mitigated Noise Level, dB(A)																						60			
Mitigated Maximum Noise Level at SSNV5, dB(A)																						60			
SSNV6 (#43, Sung Shan New Village)	Widening of the existing channel - section of works area S118	1	G/F	29.6	14.4	14.4	0.0	29.6	-37.4	3.0	Y					60	60	-	-	-	-	75	60		
			G/F	24.9	14.4	14.4	0.0	24.9	-35.9	3.0	Y					61	61	-	-	-	-		61		
Mitigated Noise Level, dB(A)																						63			
SSNV6 (#43, Sung Shan New Village)	Widening of the existing channel - section of works area S119	1	G/F	24.9	14.4	14.4	0.0	24.9	-35.9	3.0	Y					61	61	-	-	-	-	75	61		
			G/F	45.1	14.4	14.4	0.0	45.1	-41.1	3.0	Y					56	56	-	-	-	-		56		
Mitigated Noise Level, dB(A)																						62			
Mitigated Maximum Noise Level at SSNV6, dB(A)																						63			
SSNV7 (Temporary structure next to a track in Sung Shan New Village (DD118 Lot. 1767))	Widening of the existing channel - section of works area S119	1	G/F	80.2	15.8	14.4	1.4	80.2	-46.1	3.0	Y					51	51	-	-	-	-	75	51		
			G/F	53.2	15.8	14.4	1.4	53.2	-42.5	3.0	Y					54	54	-	-	-	-		54		
Mitigated Maximum Noise Level at SSNV7, dB(A)																						56			

Note:
 (1) Locations of works areas in section are shown in Appendix 4-1a of this EIA Report.
 (2) Works Type 1 - Widening of the Existing Drainage Channel at Sung Shan New Village: [1] Excavation; and [2] Formwork and Reinforcement.
 Works Type 2 - Construction of drainage channel at Tai Wo: [1] Excavation; and [2] Formwork and Reinforcement.
 Works Type 3 - Widening of the existing drainage channel and construction of a new drainage pipe at Lin Fa Tei: [1] Excavation; and [2] Formwork and Reinforcement.
 Works Type 4 - Widening of the existing drainage channel and construction of a new drainage pipe at Ha Che.: [1] Excavation; and [2] Formwork and Reinforcement.
 Sound Power Level exceeds relevant noise criteria

NSRs	Sources of Impact ⁽¹⁾	No. of Storey	Floor	Distance, m					Dist. Corr., dB(A)	Façade Corr., dB(A)	Subject to Noise from Works Type				Mitigated Noise Impact, dB(A)								Noise Criteria, dB(A)	Mitigated Noise Level, dB(A)	
				Notional Dis.	z (mPD)	Source Elev. (mPD)	mPD Difference between Source and NSR	Slant Dis.							Works Type 1 ⁽²⁾		Works Type 2 ⁽²⁾		Works Type 3 ⁽²⁾		Works Type 4 ⁽²⁾				
											1	2	3	4	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2	Stage 1	Stage 2			
Tai Wo																									
TW1 (Temporary structure near footbridge in Cheung Po (DD113 Lot.1542))	Widening of the existing channel - section of works area S201	1	G/F	22.9	15.4	14.1	1.3	22.9	-35.2	3.0		Y				-	-	62	62	-	-	-	-	75	62
	Widening of the existing channel - section of works area S202		G/F	36.0	15.4	14.1	1.3	36.0	-39.1	3.0		Y				-	-	58	58	-	-	-	-		58
Mitigated Maximum Noise Level at TW1, dB(A)																						63			
TW2 (#200, Cheung Po)	Widening of the existing channel - section of works area S205	3	G/F	39.2	17.3	14.1	3.2	39.4	-39.9	3.0		Y				-	-	57	57	-	-	-	-	75	57
			2/F	39.2	20.1	14.1	6.0	39.7	-40.0	3.0		Y				-	-	57	57	-	-	-	-		57
			1/F	39.2	22.9	14.1	8.8	40.2	-40.1	3.0		Y				-	-	57	57	-	-	-	-		57
	Widening of the existing channel - section of works area S206		G/F	38.0	17.3	14.1	3.2	38.2	-39.6	3.0		Y				-	-	57	57	-	-	-	-		57
			2/F	38.0	20.1	14.1	6.0	38.5	-39.7	3.0		Y				-	-	57	57	-	-	-	-		57
			1/F	38.0	22.9	14.1	8.8	39.0	-39.8	3.0		Y				-	-	57	57	-	-	-	-		57
Mitigated Noise Level, dB(A)																						60			
TW2 (#200, Cheung Po)	Widening of the existing channel - section of works area S206	3	G/F	38.0	17.3	14.1	3.2	38.2	-39.6	3.0		Y				-	-	57	57	-	-	-	-	75	57
			2/F	38.0	20.1	14.1	6.0	38.5	-39.7	3.0		Y				-	-	57	57	-	-	-	-		57
			1/F	38.0	22.9	14.1	8.8	39.0	-39.8	3.0		Y				-	-	57	57	-	-	-	-		57
	Widening of the existing channel - section of works area S207		G/F	39.6	17.3	14.1	3.2	39.7	-40.0	3.0		Y				-	-	57	57	-	-	-	-		57
			2/F	39.6	20.1	14.1	6.0	40.0	-40.0	3.0		Y				-	-	57	57	-	-	-	-		57
			1/F	39.6	22.9	14.1	8.8	40.5	-40.1	3.0		Y				-	-	57	57	-	-	-	-		57
Mitigated Noise Level, dB(A)																						60			
Mitigated Maximum Noise Level at TW2, dB(A)																						60			
TW3 (Kai Yip Garden, #3H, Tai Wo)	Widening of the existing channel - section of works area S217	3	G/F	62.6	20.6	20.8	-0.2	62.6	-43.9	3.0		Y				-	-	53	53	-	-	-	-	75	53
			2/F	62.6	23.4	20.8	2.6	62.6	-43.9	3.0		Y				-	-	53	53	-	-	-	-		53
			1/F	62.6	26.2	20.8	5.4	62.8	-44.0	3.0		Y				-	-	53	53	-	-	-	-		53
	Widening of the existing channel - section of works area S218		G/F	54.2	20.6	20.8	-0.2	54.2	-42.7	3.0		Y				-	-	54	54	-	-	-	-		54
			2/F	54.2	23.4	20.8	2.6	54.3	-42.7	3.0		Y				-	-	54	54	-	-	-	-		54
			1/F	54.2	26.2	20.8	5.4	54.5	-42.7	3.0		Y				-	-	54	54	-	-	-	-		54
Mitigated Maximum Noise Level at TW3, dB(A)																						57			
TW4 (#40B, Tai Wo)	Widening of the existing channel - section of works area S217	3	G/F	64.3	21.8	20.8	1.0	64.3	-44.2	3.0		Y				-	-	53	53	-	-	-	-	75	53
			2/F	64.3	24.6	20.8	3.8	64.5	-44.2	3.0		Y				-	-	53	53	-	-	-	-		53
			1/F	64.3	27.4	20.8	6.6	64.7	-44.2	3.0		Y				-	-	53	53	-	-	-	-		53
	Widening of the existing channel - section of works area S218		G/F	43.9	21.8	20.8	1.0	43.9	-40.8	3.0		Y				-	-	56	56	-	-	-	-		56
			2/F	43.9	24.6	20.8	3.8	44.1	-40.9	3.0		Y				-	-	56	56	-	-	-	-		56
			1/F	43.9	27.4	20.8	6.6	44.4	-40.9	3.0		Y				-	-	56	56	-	-	-	-		56
Mitigated Maximum Noise Level at TW4, dB(A)																						58			

Note:
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 (2) Works Type 1 - Widening of the Existing Drainage Channel at Sung Shan New Village: [1] Excavation; and [2] Formwork and Reinforcement;
 Works Type 2 - Construction of drainage channel at Tai Wo: [1] Excavation; and [2] Formwork and Reinforcement.
 Works Type 3 - Widening of the existing drainage channel and construction of a new drainage pipe at Lin Fa Tei: [1] Excavation; and [2] Formwork and Reinforcement.
 Works Type 4 - Widening of the existing drainage channel and construction of a new drainage pipe at Ha Che.: [1] Excavation; and [2] Formwork and Reinforcement.
 Sound Power Level exceeds relevant noise criteria

