

Detailed Calculation of Construction Stage Noise Levels at Representative NSRs - Mitigated Scenario

Works Type 1 - Construction of Sewer (Open Cut Method)												
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6			
				SWL, dB(A)								
				93.0	89.0	85.0	88.0	89.0	85.0	Predicted Noise Level		
TKST2 - No.4 Tai Kwai San Tsuen	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
CSH1 - Chung Shak Hei Home for the Aged	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
CCEP - No.7 Cheung Chau Electric Path	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
ST - Block D Seaview Terrence	5	-22.0	3	74.0	70.0	66.0	69.0	70.0	66.0			
SW1 - 3A Golden Lake Garden	5	-22.0	3	74.0	70.0	66.0	69.0	70.0	66.0			
THT - No.24 Tai Hing Tai Road	5	-22.0	3	74.0	70.0	66.0	69.0	70.0	66.0			
SYT1 - No.2A Sin Yan Tseng	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			
SYT2 - No.37 Sin Yan Tseng	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
TW1 - Cheng Chau Fisheries Joint Association Public School	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			
TSB1 - No. 123 Tai San Back Street	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
LTT1 - Cheng Chau Alliance Church	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
LTT2 - No.35 Lung Tsai Tsuen Road	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
P2 - No.41A Peak Road	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
KYW1 - No.31 Kwun Yam Wan Road	7	-24.9	3	71.1	67.1	63.1	66.1	67.1	63.1			
CCS2 - Block G-H Fu Yuen	1	-8.0	3	88.0	84.0	80.0	83.0	84.0	80.0			
PR1 - No.25 Peak Road	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			
PR2 - No.72 Peak Road	4	-20.0	3	76.0	72.0	68.0	71.0	72.0	68.0			
KYW2 - No.46 Kwun Yam Wan Road	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			
MF1 - Caritas Ka Fai House	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			
FP1 - No.18 Fa Peng Road	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			
FP2 - Bethany Cottage and House	2	-14.0	3	82.0	78.0	74.0	77.0	78.0	74.0			

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Work Type 2 - Construction of Sewer (Trenchless Method)							
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1	Stage 2	Stage 3	Stage 4
				SWL, dB(A)			
				108.0	108.0	85.0	0.0
Predicted Noise Level							
P1 - No. 34 Praya Street	9	-27.1	3	83.9	83.9	60.9	0.0
TW1 - Cheng Chau Fisheries Joint Association Public School	6	-23.5	3	87.5	87.5	64.5	0.0

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Work Type 3 - Upgrading of Existing Sewer												
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7		
				SWL, dB(A)								
				93.0	89.0	89.0	85.0	88.0	89.0	85.0		
				Predicted Noise Level								
SW1 - 3A Golden Lake Garden	12	-29.6	3	66.4	62.4	62.4	58.4	61.4	62.4	58.4		
THT - No.24 Tai Hing Tai Road	20	-34.0	3	62.0	58.0	58.0	54.0	57.0	58.0	54.0		
TW1 - Cheng Chau Fisheries Joint Association Public School	3	-17.5	3	78.5	74.5	74.5	70.5	73.5	74.5	70.5		

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Work Type 4 - Upgrading of Pak She Sewage Pumping Station						
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1	Stage 2	Stage 3
				SWL, dB(A)		
				108.0	107.0	97.0
Predicted Noise Level						
PSSL - No. 1A Pak She Second Lane	35	-38.9	3	72.1	71.1	61.1

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Work Type 5 - Upgrading of Cheung Chau Sewage Treatment Works									
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
				SWL, dB(A)					
				114.0	114.0	118.0	114.0	114.0	118.0
Predicted Noise Level									
CKH - Cheung King House	113	-49.0	3	68.0	68.0	72.0	68.0	68.0	72.0
CSH2 - Cheung Shun House	122	-49.7	3	67.3	67.3	71.3	67.3	67.3	71.3

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Work Type 6 - Rehabilitation of Existing Sewers				
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1
				SWL, dB(A)
				Predicted Noise Level
P1 - No. 34 Praya Street	19	-33.6	3	60.4

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Work Type 7 - Temporary Concrete Mixing				
NSR	Dist. From NSR, m	Dist. Corr., dB(A)	Façade Corr., dB(A)	Stage 1
				SWL, dB(A)
				Predicted Noise Level
				96.0
CKH - Cheung King House	139	-50.8	3	48.2
CSH2 - Cheung Shun House	163	-52.2	3	46.8