

Detailed Calculation of Construction Noise Levels at Representative NSRs - Unmitigated Scenario

Project Specific PME Item	SWL dB(A)	Affected	Total SWL	Dist.	Dist.	Screenin	Façade	Corrected Noise
TKST2 - No.4 Tai Kwai San Tsuen								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary Concrete Mixing	96		0	0	0.0	0	0	0.0
Total								108.0
CSH1 - Chung Shak Hei Home for the Aged								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
CKH - Cheung King House								
Works Type 1 - Construction of Sewer (Open Cut Method)	113		0	0	0.0	0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123	v	123	113	-49.0	0	3	77.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96	v	96	139	-50.8	0	3	48.2
Total								77.0
CSH2 - Cheung Shun House								
Works Type 1 - Construction of Sewer (Open Cut Method)	113		0	0	0.0	0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123	v	123	122	-49.7	0	3	76.3
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96	v	96	163	-52.2	0	3	46.8
Total								76.0
PSSL - No. 1A Pak She Second Lane								
Works Type 1 - Construction of Sewer (Open Cut Method)	113		0	0	0.0	0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122	v	122	35	-38.9	0	3	86.1
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								86.0
CCEP - No.7 Cheung Chau Electric Path								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
ST - Block D Seaview Terrence								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	5	-22.0	0	3	94.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								94.0
SW1 - 3A Golden Lake Garden								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	5	-22.0	0	3	94.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113	v	113	12	-29.6	0	3	86.4
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								95.0
THT - No.24 Tai Hing Tai Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	5	-22.0	0	3	94.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113	v	113	20	-34.0	0	3	82.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								94.0
SYT1 - No.2A Sin Yan Tseng								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								102.0

Project Specific PME Item	SWL dB(A)	Affected	Total SWL	Dist.	Dist.	Screenin	Façade	Corrected Noise
SYT2 - No.37 Sin Yan Tseng								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
P1 - No. 34 Praya Street								
Works Type 1 - Construction of Sewer (Open Cut Method)	113		0	0	0.0	0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122	v	122	9	-27.1	0	3	97.9
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104	v	104	19	-33.6	0	3	73.4
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								98.0
TW1 - Cheng Chau Fisheries Joint Association Public School								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122	v	122	6	-23.5	0	3	101.5
Works Type 3 - Upgrading of Existing Sewer	113	v	113	3	-17.5	0	3	98.5
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								106.0
TSB1 - No. 123 Tai San Back Street								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
LTT1 - Cheng Chau Alliance Church								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
LTT2 - No.35 Lung Tsai Tsuen Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
P2 - No.41A Peak Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
KYW1 - No.31 Kwun Yam Wan Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	7	-24.9	0	3	91.1
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								91.0
CCS2 - Block G-H Fu Yuen								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	1	-8.0	0	3	108.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								108.0
PR1 - No.25 Peak Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								102.0

Project Specific PME Item	SWL dB(A)	Affected	Total SWL	Dist.	Dist.	Screenin	Façade	Corrected Noise
PR2 - No.72 Peak Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	4	-20.0	0	3	96.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								96.0
KYW2 - No.46 Kwun Yam Wan Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								102.0
MF1 - Caritas Ka Fai House								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								102.0
FP1 - No.18 Fa Peng Road								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								102.0
FP2 - Bethany Cottage and House								
Works Type 1 - Construction of Sewer (Open Cut Method)	113	v	113	2	-14.0	0	3	102.0
Works Type 2 - Construction of Sewer (Trenchless Method)	122		0	0	0.0	0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	113		0	0	0.0	0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	122		0	0	0.0	0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	123		0	0	0.0	0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	104		0	0	0.0	0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0	0.0
Total								102.0

Summary of Construction Noise Levels at Representative NSRs - Unmitigated Scenario

NSR	Nature of Use	Predicted Unmitigated Cumulative Construction Noise Level, dB(A)	Noise Criteria, dB(A)	Noise Exceedance, dB(A)
TKST2	Residential	108	75	33
CSH1	Homes for the Aged	108	70	38
CKH	Residential	77	75	2
CSH2	Residential	76	75	1
PSSL	Residential	86	75	11
CCEP	Residential	108	75	33
ST	Residential	94	75	19
SW1	Residential	95	75	20
THT	Residential	94	75	19
SYT1	Residential	102	75	27
SYT2	Residential	108	75	33
P1	Residential	98	75	23
TW1	Educational	106	70/65*	33/41
TSB1	Residential	108	75	33
LTT1	Church	108	70	38
LTT2	Residential	108	75	33
P2	Residential	108	75	33
KYW1	Residential	91	75	16
CCS2	Residential	108	75	33
PR1	Residential	102	75	27
PR2	Residential	96	75	21
KYW2	Residential	102	75	27
MF1	Residential	102	75	27
FP1	Residential	102	75	27
FP2	Residential	102	75	27