

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

Project Specific PME Item	SWL dB(A)	Affected	Total	Dist.	Dist.	Façade	Corrected Noise Levels, dB(A)
TKST2 - No.4 Tai Kwai San Tsuen							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
CSH1 - Chung Shak Hei Home for the Aged							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
CKH - Cheung King House							
Works Type 1 - Construction of Sewer (Open Cut Method)	93		0	0	0.0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118	v	118	113	-49.0	3	72.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96	v	96	139	-50.8	3	48.2
Total							72.0
CSH2 - Cheung Shun House							
Works Type 1 - Construction of Sewer (Open Cut Method)	93		0	0	0.0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118	v	118	122	-49.7	3	71.3
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96	v	96	163	-52.2	3	46.8
Total							71.0
PSSL - No. 1A Pak She Second Lane							
Works Type 1 - Construction of Sewer (Open Cut Method)	93		0	0	0.0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108	v	108	35	-38.9	3	72.1
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							72.0
CCEP - No.7 Cheung Chau Electric Path							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
ST - Block D Seaview Terrence							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	5	-22.0	3	74.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							74.0
SW1 - 3A Golden Lake Garden							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	5	-22.0	3	74.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93	v	93	12	-29.6	3	66.4
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							75.0
THT - No.24 Tai Hing Tai Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	5	-22.0	3	74.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93	v	93	20	-34.0	3	62.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							74.0
SYT1 - No.2A Sin Yan Tseng							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							82.0

Project Specific PME Item	SWL dB(A)	Affected	Total	Dist.	Dist.	Façade	Corrected Noise Levels, dB(A)
SYT2 - No.37 Sin Yan Tseng							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
P1 - No. 34 Praya Street							
Works Type 1 - Construction of Sewer (Open Cut Method)	93		0	0	0.0	0	0.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108	v	108	9	-27.1	3	83.9
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91	v	91	19	-33.6	3	60.4
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							84.0
TW1 - Cheng Chau Fisheries Joint Association Public School							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108	v	108	6	-23.5	3	87.5
Works Type 3 - Upgrading of Existing Sewer	93	v	93	3	-17.5	3	78.5
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							89.0
TSB1 - No. 123 Tai San Back Street							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
LTT1 - Cheng Chau Alliance Church							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
LTT2 - No.35 Lung Tsai Tsuen Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
P2 - No.41A Peak Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
KYW1 - No.31 Kwun Yam Wan Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	7	-24.9	3	71.1
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							71.0
CCS2 - Block G-H Fu Yuen							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	1	-8.0	3	88.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							88.0
PR1 - No.25 Peak Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							82.0

Project Specific PME Item	SWL dB(A)	Affected	Total	Dist.	Dist.	Façade	Corrected Noise Levels, dB(A)
PR2 - No.72 Peak Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	4	-20.0	3	76.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							76.0
KYW2 - No.46 Kwun Yam Wan Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							82.0
MF1 - Caritas Ka Fai House							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							82.0
FP1 - No.18 Fa Peng Road							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							82.0
FP2 - Bethany Cottage and House							
Works Type 1 - Construction of Sewer (Open Cut Method)	93	v	93	2	-14.0	3	82.0
Works Type 2 - Construction of Sewer (Trenchless Method)	108		0	0	0.0	0	0.0
Works Type 3 - Upgrading of Existing Sewer	93		0	0	0.0	0	0.0
Works Type 4 - Upgrading of of Pak She Sewage Pumping Station	108		0	0	0.0	0	0.0
Works Type 5 - Upgrading of Cheung Chau Sewage Treatment Works	118		0	0	0.0	0	0.0
Works Type 6 - Rehabilitation of Existing Sewers	91		0	0	0.0	0	0.0
Works Type 7 - Temporary concrete mixing	96		0	0	0.0	0	0.0
Total							82.0

Summary of Construction Noise Levels at Representative NSRs - Mitigated Scenario

NSR	Nature of Use	Predicted Unmitigated Maximum Cumulative Construction Noise Level, dB(A)	Noise Criteria, dB(A)	Noise Exceedance, dB(A)
TKST2	Residential	88	75	13
CSH1	Homes for the Aged	88	70	18
CKH	Residential	72	75	0
CSH2	Residential	71	75	0
PSSL	Residential	72	75	0
CCEP	Residential	88	75	13
ST	Residential	74	75	0
SW1	Residential	75	75	0
THT	Residential	74	75	0
SYT1	Residential	82	75	7
SYT2	Residential	88	75	13
P1	Residential	84	75	9
TW1	Educational	89	70/65*	19/24
TSB1	Residential	88	75	13
LTT1	Church	88	70	18
LTT2	Residential	88	75	13
P2	Residential	88	75	13
KYW1	Residential	71	75	0
CCS2	Residential	88	75	13
PR1	Residential	82	75	7
PR2	Residential	76	75	1
KYW2	Residential	82	75	7
MF1	Residential	82	75	7
FP1	Residential	82	75	7
FP2	Residential	82	75	7