

**Project :** SCL - Stabling Sidings at Hung Hom Freight Yard

**Title :** Construction Noise Calculation

**Scenario :** Mitigated Scenario

**Subtitle:** HHS + HUH

Activities	2013												2014												2015																	
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec						
<b>S1 Hung Hom Sidings Zone 1 - Accommodation South</b>																																										
Clearance/Demolition							108	108																																		
Site Investigation							103	103																																		
Utilities Diversion								105	105																																	
Sheet Piling												114	114	114	114																											
Excavation													104	104																												
Substructure (raft foundation)																				103	103	103	103																			
Ground Slab																							103	103																		
Walls & Columns & Roof Slab																								103	103																	
ABWF & BS Installation																									97	97	97	97	97													
<b>S2 Hung Hom Sidings Zone 2 - Accommodation East</b>																																										
Clearance/Demolition								108	108	108																																
Site Investigation								103	103	103																																
Utilities Diversion												105	105	105																												
Excavation													104	104	104	104																										
Substructure (raft foundation)																				103	103	103	103	103	103																	
Storm Drain Diversion																						103	103	103	103																	
Ground Slab																								103	103	103	103	103														
Walls & Columns & Roof Slab																									103	103	103	103	103													
Structural Modification Works																									104	104	104															
ABWF & BS Installation																																				97	97	97	97	97		
<b>S3 Hung Hom Sidings Zone 3 - Accommodation East</b>																																										
Clearance/Demolition				108	108	108																																				
Site Investigation				103	103	103																																				
Utilities Diversion							105	105	105	105																																
Sheet Piling												114	114	114	114																											
Piling												104	104	104	104	104	104																									
Excavation													104	104	104	104																										
Pile Caps																				102	102	102	102																			
Underpinning																					104	104	104	104	104																	
Underground concrete ducts and corridor																								103	103	103	103	103	103													
Track Slab																									103	103	103	103	103													
Roadworks																																										
ABWF & BS Installation																																					97	97	97	97	97	
<b>S4 Hung Hom Sidings Zone 4 - Stabling Middle</b>																																										
Clearance/Demolition							108	108	108	108																																
Site Investigation							103	103	103	103																																
Utilities Diversion												105	105	105	105																											
Sheet Piling													114	114	114																											
Excavation													104	104	104																											
Underground concrete ducts and corridor																					103	103	103	103	103																	
Storm Drain Diversion																								102	102	102	102	102														
Track Slab																									103	103	103	103														
Roadworks																																										
ABWF & BS Installation																																					97	97	97	97	97	
<b>S5 Hung Hom Sidings Zone 5 - Stabling North</b>																																										
Clearance/Demolition				108	108	108																																				
Site Investigation				103	103	103																																				
Utilities Diversion							105	105	105																																	
Sheet Piling												114	114	114	114																											
Excavation													104	104	104																											
Underground concrete ducts																								103	103	103	103															
Track Slab																									103	103	103	103														
Roadworks																																										
ABWF & BS Installation																																						97	97	97	97	97

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Activities	2013												2014												2015																		
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec							
<b>S6 Hung Hom Sidings Zone 6 - North Fan Area</b>																																											
Clearance/Demolition												108	108	108																													
Site Investigation												103	103	103																													
Utilities Diversion														105	105	105																											
Sheet Piling																	108	108																									
Piling (for noise enclosure & box culvert)																	108	108	108	108	108	108																					
Excavation																						100	100	100																			
Box Culvert Diversion																						103	103	103	103	103	103																
Pile Cap (for noise enclosure)																								102	102	102	102	102	102														
Noise Enclosure																																					104	104	104	104	104		
Track Slab																																											
Roadworks																																											
ABWF & BS Installation																																											
<b>S7 Hung Hom Sidings Zone 7 - South External Area</b>																																											
Clearance/Demolition/Site Investigation																						109	109	109	109	109	109																
Underground Utilities/Drainage																																											
Roadworks																																											
<b>S8 Hung Hom Sidings Area H1</b>																																											
Cooling maines diversion							101	101	101	101	101																																
Dia 1650 Sewer diversion																																											
Tentative CLP cable tunnels strengthening																								95	95	95	95	95	95	95													
Dwall construction (SCL (MKK-HUH)) for sewer diversion																																				107	107	107	107	107			
Dwall construction (SCL (MKK-HUH)) remaining																																											
Excavation & Strutting to SCL (MKK-HUH) roof																																											
Excavation & Strutting to SCL (MKK-HUH) base																																											
Concrete Structure SCL (MKK-HUH) roof																																											
Concrete Structure SCL (MKK-HUH) base & wall																																											
Sump pit Structure																																											
Concrete Support to CLP Tunnel																																											

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Activities	2013												2014												2015											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
<b>S9 Hung Hom Sidings Area H2</b>																																				
Modification of Traversa (civil)							116	116	116	116																										
Utilities Diversion / Services relocate by oth GL0-GL7										124	124	124	124																							
Ground Treatment to GL1 to GL7												94	94	94	94	94	94																			
Dwall & Barrette GL0 to GL7																			119	119	119	119	119	119												
Pump test GL0 to GL7																																				
Underpinning beam & columns																																				
Demolish existing columns																																				
Final Excavation & Strutting to SCL (MKK-HUH) base GL0 to GL7																																				
Excavation & Strutting GL0 to GL7																																				
SCL (TAW-HUH) Base GL0 to GL7																																				
SCL (TAW-HUH) and other Structures GL0 to GL7																																				
Vent Shaft Structure GL0																																				
SCL (MKK-HUH) Slab & props to existing Fdn GL0 to GL7																																				
SCL (MKK-HUH) Base & Wall GL0 to GL7																																				
SCL (TAW-HUH) Plant room ABWF Deg. 1																																				
<b>S10 Hung Hom Sidings Area H3</b>																																				
SCL (TAW - HUH) Track Slab & Structures GL7 to GL15																																				
SCL (MKK-HUH) Structures Intermediate Slab & props GL7 to GL15																																				
SCL (MKK-HUH) Structure Base & Wall GL7 to GL15																																				
SCL (TAW-HUH) Structures Wall & Roof GL7 to GL15																																				
SCL (TAW-HUH) & other Structures GL7 to GL15																																				
Utilities Diversion / Services relocate (GL7 to GL15)																																				
Dwall GL7 to GL15																																				
Pump test GL7 to GL15																																				
Excavation to SCL (TAW-HUH) slab GL7 to GL15																																				
Excavation & Strutting to intermediate slab GL7 to GL15																																				
Excavation & Strutting to SCL (MKK-HUH) base GL7 to GL15																																				
<b>S11 Hung Hom Sidings Area H4</b>																																				
Utilities Diversion / Services relocate (GL15-GL28)																																				
Underpinning GL K																																				
Dwall GL15 to GL31 / GL N																																				
Dwall GL15 to GL31 / GL K1																																				
Pump test GL15 to GL28																																				
Excavation & Strutting 1st Layer GL15 to GL28																																				
Excavation & Strutting GL15 to GL28																																				
Excavation & Strutting to SCL (MKK-HUH) base GL7 to GL15																																				
SCL (TAW-HUH) Track Slab GL15 to GL28																																				
Install Temporary Steel Tower Column GL15 to GL22																																				
Demolish existing Column & Pier Cap GL15 to GL22																																				
SCL (MKK-HUH) Base Structure GL15 to GL28																																				
SCL (TAW-HUH) & other Structures GL15 to GL28																																				
SCL (MKK-HUH) Internal Structures GL15 to GL28																																				
<b>S12 Hung Hom Sidings Area H5</b>																																				
Utilities Diversion / Services relocate (GL28-GL38)																																				
Temporary Storm Drain @ 1875 Diversion (GL31)																																				
Redivert Storm @ 1875 Diversion (GL32)																																				
Underpinning GL K & L																																				
Dwall GL31 to GL38 / GL K1																																				
Dwall GL31 to GL38 / GL N																																				
Pump test GL28 to GL38																																				
Excavation & Strutting 1st Layer GL28 to GL38																																				
Excavation & Strutting GL28 to GL38																																				
SCL (TAW-HUH) Track Slab GL28 to GL38																																				
SCL (MKK-HUH) Base Structure GL28 to GL38																																				
SCL (MKK-HUH) Internal Structures GL28 to GL38																																				
Underpinning Columns to Podium Soffit GL28 to GL38																																				
SCL (TAW-HUH) & other Structures GL28 to GL38																																				



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Activities	2016												2017											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
<b>S1 Hung Hom Sidings Zone 1 - Accomodation South</b>																								
Clearance/Demolition																								
Site Investigation																								
Utilities Diversion																								
Sheet Piling																								
Excavation																								
Substructure (raft foundation)																								
Ground Slab																								
Walls & Columns & Roof Slab																								
ABWF & BS Installation																								
<b>S2 Hung Hom Sidings Zone 2 - Accomodation East</b>																								
Clearance/Demolition																								
Site Investigation																								
Utilities Diversion																								
Excavation																								
Substructure (raft foundation)																								
Storm Drain Diversion																								
Ground Slab																								
Walls & Columns & Roof Slab																								
Structural Modification Works																								
ABWF & BS Installation	97	97																						
<b>S3 Hung Hom Sidings Zone 3 - Accomodation East</b>																								
Clearance/Demolition																								
Site Investigation																								
Utilities Diversion																								
Sheet Piling																								
Piling																								
Excavation																								
Pile Caps																								
Underpinning																								
Underground concrete ducts and corridor																								
Track Slab																								
Roadworks																								
ABWF & BS Installation																								
<b>S4 Hung Hom Sidings Zone 4 - Stabling Middle</b>																								
Clearance/Demolition																								
Site Investigation																								
Utilities Diversion																								
Sheet Piling																								
Excavation																								
Underground concrete ducts and corridor																								
Storm Drain Diversion																								
Track Slab																								
Roadworks																								
ABWF & BS Installation																								
<b>S5 Hung Hom Sidings Zone 5 - Stabling North</b>																								
Clearance/Demolition																								
Site Investigation																								
Utilities Diversion																								
Sheet Piling																								
Excavation																								
Underground concrete ducts																								
Track Slab																								
Roadworks																								
ABWF & BS Installation																								

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Activities	2016												2017											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
<b>S6 Hung Hom Sidings Zone 6 - North Fan Area</b>																								
Clearance/Demolition																								
Site Investigation																								
Utilities Diversion																								
Sheet Piling																								
Piling (for noise enclosure & box culvert)																								
Excavation																								
Box Culvert Diversion																								
Pile Cap (for noise enclosure)																								
Noise Enclosure	104																							
Track Slab	103	103	103	103																				
Roadworks					105	105	105																	
ABWF & BS Installation					97	97	97	97																
<b>S7 Hung Hom Sidings Zone 7 - South External Area</b>																								
Clearance/Demolition/Site Investigation																								
Underground Utilities/Drainage														105	105	105								
Roadworks																105	105	105	105					
<b>S8 Hung Hom Sidings Area H1</b>																								
Cooling maines diversion																								
Dia 1650 Sewer diversion	102	102	102																					
Tentative CLP cable tunnels strengthening																								
Dwall construction (SCL (MKK-HUH)) for sewer diversion																								
Dwall construction (SCL (MKK-HUH)) remaining	107	107	107	107	107																			
Excavation & Strutting to SCL (MKK-HUH) roof					109	109	109																	
Excavation & Strutting to SCL (MKK-HUH) base													110	110	110									
Concrete Structure SCL (MKK-HUH) roof							105	105	105															
Concrete Structure SCL (MKK-HUH) base & wall																	109	109	109					
Sump pit Structure												103	103	103	103									
Concrete Support to CLP Tunnel												105	105	105	105	105	105							

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Activities	2016												2017											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
<b>S9 Hung Hom Sidings Area H2</b>																								
Modification of Traversa (civil)																								
Utilities Diversion / Services relocate by oth GL0-GL7																								
Ground Treatment to GL1 to GL7																								
Dwall & Barrette GL0 to GL7																								
Pump test GL0 to GL7																								
Underpinning beam & columns																								
Demolish existing columns																								
Final Excavation & Strutting to SCL (MKK-HUH) base GL0 to GL7		121	121	121																				
Excavation & Strutting GL0 to GL7																								
SCL (TAW-HUH) Base GL0 to GL7																								
SCL (TAW-HUH) and other Structures GL0 to GL7					123	123	123																	
								123																
									116	116	116	116												
Vent Shaft Structure GL0																								
SCL (MKK-HUH) Slab & props to existing Fdn GL0 to GL7	116	116	116	116																				
SCL (MKK-HUH) Base & Wall GL0 to GL7				122	122	122	122	122																
SCL (TAW-HUH) Plant room ABWF Deg. 1											115	115	115	115										
<b>S10 Hung Hom Sidings Area H3</b>																								
SCL (TAW - HUH) Track Slab & Structures GL7 to GL15																								
SCL (MKK-HUH) Structures Intermediate Slab & props GL7 to GL15																								
SCL (MKK-HUH) Structure Base & Wall GL7 to GL15																								
SCL (TAW-HUH) Structures Wall & Roof GL7 to GL15																								
SCL (TAW-HUH) & other Structures GL7 to GL15																								
Utilities Diversion / Services relocate (GL7 to GL15)																								
Dwall GL7 to GL15																								
Pump test GL7 to GL15																								
Excavation to SCL (TAW-HUH) slab GL7 to GL15																								
Excavation & Strutting to intermediate slab GL7 to GL15																								
Excavation & Strutting to SCL (MKK-HUH) base GL7 to GL15																								
<b>S11 Hung Hom Sidings Area H4</b>																								
Utilities Diversion / Services relocate (GL15-GL28)																								
Underpinning GL K																								
Dwall GL15 to GL31 / GL N																								
Dwall GL15 to GL31 / GL K1																								
Pump test GL15 to GL28																								
Excavation & Strutting 1st Layer GL15 to GL28																								
Excavation & Strutting GL15 to GL28																								
Excavation & Strutting to SCL (MKK-HUH) base GL7 to GL15																								
SCL (TAW-HUH) Track Slab GL15 to GL28																								
Install Temporary Steel Tower Column GL15 to GL22																								
Demolish existing Column & Pier Cap GL15 to GL22																								
SCL (MKK-HUH) Base Structure GL15 to GL28																								
SCL (TAW-HUH) & other Structures GL15 to GL28																								
SCL (MKK-HUH) Internal Structures GL15 to GL28																								
<b>S12 Hung Hom Sidings Area H5</b>																								
Utilities Diversion / Services relocate (GL28-GL38)																								
Temporary Storm Drain @ 1875 Diversion (GL31)																								
Redivert Storm @ 1875 Diversion (GL32)																								
Underpinning GL K & L																								
Dwall GL31 to GL38 / GL K1																								
Dwall GL31 to GL38 / GL N																								
Pump test GL28 to GL38																								
Excavation & Strutting 1st Layer GL28 to GL38																								
Excavation & Strutting GL28 to GL38																								
SCL (TAW-HUH) Track Slab GL28 to GL38																								
SCL (MKK-HUH) Base Structure GL28 to GL38																								
SCL (MKK-HUH) Internal Structures GL28 to GL38																								
Underpinning Columns to Podium Soffit GL28 to GL38																								
SCL (TAW-HUH) & other Structures GL28 to GL38	121	121																						

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<b>S13 Hung Hom Sidings Area H6</b> Utilities Diversion / Services relocate (GL38 to GL48) Underpinning GL K & L Underpinning Mid-level walkway Dwall GL38 to GL48 / Interface / GL N Dwall GL38 to GL48 / Interface / GL K1 Pump test GL 38 to GL48 / Interface Excavation & Strutting 1st Layer GL38 to GL48 Excavation & Strutting GL38 to GL48 / Interface SCL (TAW-HUH) Track Slab GL38 to GL48 / Interface SCL (MKK-HUH) Base Structure GL38 to GL48 SCL (MKK-HUH) Internal Structures GL38 to GL48 Underpinning Columns to Podium Soffit GL38 to GL48 SCL (TAW-HUH) & other Structures GL38 to GL48																								
<b>S14 Hung Hom Sidings Area H7</b> Plant Rooms And Ducts				109	109	109																		
<b>S16 Hung Hom Sidings Shunt Neck Area 2</b> Construction of Shunt Track Construction of Noise Barriers								105	105															
<b>S17 Hung Hom Sidings Shunt Neck Area 3</b> Construction of Shunt Track Construction of Noise Barriers																								
<b>S18 Hung Hom Sidings Shunt Neck Area 4</b> Construction of Shunt Track				101																				
<b>S19 Hung Hom Sidings Shunt Neck Area 5</b> Construction of Shunt Track																								
<b>S20 Hung Hom Sidings Shunt Neck Area 6</b> Construction of Shunt Track Construction of Noise Barriers																								
<b>S21 Hung Hom Sidings Shunt Neck Area 7</b> Construction of Shunt Track Above SCL (MKK-HUH)	97																							
<b>S22 Hung Hom Sidings Shunt Neck Area 8B</b> Construction of Shunt Track Above SCL (MKK-HUH)																								

Summary of SWLs	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
S1 Hung Hom Sidings Zone 1 - Accommodation South	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S2 Hung Hom Sidings Zone 2 - Accommodation East	97	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S3 Hung Hom Sidings Zone 3 - Accommodation East	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S4 Hung Hom Sidings Zone 4 - Stabling Middle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S5 Hung Hom Sidings Zone 5 - Stabling North	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S6 Hung Hom Sidings Zone 6 - North Fan Area	107	103	103	103	105	105	105	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S7 Hung Hom Sidings Zone 7 - South External Area	0	0	0	0	0	0	0	0	0	0	0	0	105	105	108	105	105	105	105	0	0	0	0	0
S8 Hung Hom Sidings Area H1	108	108	108	107	111	109	111	105	105	0	0	107	112	112	112	111	111	109	0	0	0	0	0	0
S9 Hung Hom Sidings Area H2	116	122	122	125	126	126	126	116	116	116	119	119	115	119	117	117	117	117	0	0	0	0	0	0
S10 Hung Hom Sidings Area H3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S11 Hung Hom Sidings Area H4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S12 Hung Hom Sidings Area H5	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S13 Hung Hom Sidings Area H6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S14 Hung Hom Sidings Area H7	0	0	0	109	109	109	105	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S16 Hung Hom Sidings Shunt Neck Area 2	0	0	0	0	0	0	0	0	0	0	0	100	91	91	0	0	0	0	0	0	0	0	0	0
S17 Hung Hom Sidings Shunt Neck Area 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S18 Hung Hom Sidings Shunt Neck Area 4	0	0	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S19 Hung Hom Sidings Shunt Neck Area 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S20 Hung Hom Sidings Shunt Neck Area 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S21 Hung Hom Sidings Shunt Neck Area 7	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S22 Hung Hom Sidings Shunt Neck Area 8B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	97	97	0

Predicted Construction Noise, dB(A)	Max	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
HUH-1-3	62	57	0	53	0	0	0	0	0	0	0	0	0	47	38	0	0	0	0	0	52	52	52	0	0
HUH-8-1	65	56	52	54	58	59	59	57	54	0	0	0	0	50	40	0	0	0	0	0	0	0	0	0	0
HUH-3-1	70	62	60	57	61	63	63	61	57	0	0	0	0	52	42	0	0	0	0	0	0	0	0	0	0
HUH-3-2	68	62	60	56	60	61	61	60	56	0	0	0	0	49	39	0	0	0	0	0	0	0	0	0	0
HUH-4-1	73	65	64	57	62	63	63	61	58	0	0	0	0	49	40	0	0	0	0	0	0	0	0	0	0
HUH-4-2	73	64	65	63	66	67	66	66	66	57	55	55	60	62	61	62	61	61	60	51	0	0	0	0	
HUH-10-1	72	61	65	65	68	69	69	69	69	60	59	59	62	63	62	64	63	63	62	55	0	0	0	0	