Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation
Scenario : Mitigated Scenario
Subtitle: HIK Station + Cut & Cover + Portal + Viaduct Construction

Activities	2012												2013												2014												2015												2016											
	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	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
HIK Station Stage 1 S1																																																												
Site Clearance (Demolition of Existing Structures) and Erection of Hoarding - HIK 1																											109	109	109	109																														
Initial Possession of Land Exposing Utilities - HIK 2																														103	103																													
HIK Station Stage 1 S2																																																												
Site Clearance (Demolition of Existing Structures) and Erection of Hoarding - HIK 1																											109	109	109	109																														
Initial Possession of Land Exposing Utilities - HIK 2																														103	103																													
HIK Station Stage 1 S3																																																												
Site Clearance (Demolition of Existing Structures) and Erection of Hoarding - HIK 1																											109	109	109	109																														
Initial Possession of Land Exposing Utilities - HIK 2																														103	103																													
HIK Station Stage 2 S4																																																												
Bulk Excavation of Soft Soil - HIK 3																													105																																
Construction of Piles and Pile Caps/Ground Beams - HIK 4																													109	109	109	109	109	109	109	109																								
HIK Station Stage 2 S5																																																												
Bulk Excavation of Soft Soil - HIK 3																													105																																
Construction of Piles and Pile Caps/Ground Beams - HIK 4																													109	109	109	109	109	109	109	109																								
HIK Station Stage 2 S6																																																												
Bulk Excavation of Soft Soil - HIK 3																													105																																
Construction of Piles and Pile Caps/Ground Beams - HIK 4																													109	109	109	109	109	109	109	109																								
HIK Station Stage 2 S7																																																												
Bulk Excavation of Soft Soil - HIK 3																													105																																
Construction of Piles and Pile Caps/Ground Beams - HIK 4																													109	109	109	109	109	109	109	109																								
HIK Station Stage 3 S8																																																												
Installing Earth Mat HIK 5																																				83	83	83	83																							
Cast Station Structural Elements - HIK 6																																				104	104	104	104	104	104																				
HIK Station Stage 3 S9																																																												
Installing Earth Mat - HIK 5																																								83	83	83																				
Cast Station Structural Elements - HIK 6																																									104	104	104																		
HIK Station Stage 3 S10																																				104	104	104																							
Installing Earth Mat HIK 5																																				104	104	104	104	104																						
Cast Station Structural Elements - HIK 6																																																												
HIK Station Stage 3 S11																																								83	83	83																				
Installing Earth Mat HIK 5																																								104	104	104	104																			
Cast Station Structural Elements - HIK 6																																																												
HIK Station Stage 3 S11a																																																												
Bar Bender and Cutter at Stockpiling Area - HIK 6																																				87	87	87	87	87	87	87	87	87																
HIK Station Stage 4 S12																																								98	98	98	98																			
E&M Installation - HIK 7																																																												
HIK Station Stage 5 S13																																											98	98	98																
E&M Installation - HIK 7																																																												
HIK Station Stage 5 S14																																												101	101	101																
Backfill and Reinstate - HIK 8																																																												
HIK Station Stage 5 S15																																												101	101	101																
Backfill and Reinstate - HIK 8																																																												
HIK Station Stage 5 S16																																												101	101	101																
Backfill and Reinstate - HIK 8																																																													
HIK Portal Stage 1 S17 (HIK WEST)																																																													
Mobilization - HIK Portal 8a						102	102	102																																																						
Ground Investigation - HIK Portal 8b						108	108																																																							
HIK Portal Stage 1 S18 (HIK EAST)																																																													
Mobilization - HIK Portal 8a						102	102	102																																																						
Ground Investigation - HIK Portal 8b						108	108																																																							
Pipe Pile Wall Construction - HIK Portal 8c									103	103	103	103	103	103	103	103	103	103	103																	103	103	103																							
HIK Portal Stage 2 S19 (HIK WEST)																																																													
Excavation / Cut Slope - HIK Portal 8d								100	100																																																					
Conveyor & Hopper Foundations								98	98																																																					
Install Conveyor & Hopper											99	99	99																																																	
HIK Portal Stage 2 S20 (HIK EAST)																																																													
Excavation - HIK Portal 8d								107	107	107	107	107	107	107	107	107	107	107	107	107																		107	107																							
Installation of Struts and Waling - HIK Portal 8e								96	96	96	96	96	96	96	96	96	96	96	96	96																		96	96																							
Construction of Above Ground Noise Enclosure - HIK Portal 8j																					98	98	98															98	98																							
HIK Portal Stage 3, 4 and 5 S21 (HIK WEST)																																																													
Tunnel Portal Construction (Muck Away & Concrete) HIK Portal 8f																				100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100																
HIK Portal Stage 3, 4 and 5 S22 (HIK EAST)																				105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105																						
HIK Portal Stage 6 S24 (HIK EAST)																																								104	104	104	104	104	104	104	104														
Permanent Underground Structures - HIK Portal 8g																																																													
HIK Portal Stage 7 S25 (HIK WEST)																																																102	102	102											
Backfilling and Reinstatement - HIK Portal 8h																																																													
HIK Portal Stage 7 S26 (HIK EAST)																																																102	102	102	102	102	102							
Backfilling and Reinstatement - HIK Portal 8h																																																													
HIK Portal Stage 8 S28																																																		98	98	98	98							
Construction of Above Ground Noise Enclosure (At Grade Box Section) - HIK Portal 8j																																																													
Worksite S31																					99	99	99	99																																					
Pile construction of the C&C tunnels x(trough section including abutment)																																																													
at Hin Keng - HIK Portal 8h																																																													
HIK At Grade Box Section Construction Stage 1 S32																																																													
Install Shoring along C&C Tunnel, U-trough and Demolish Existing Retaining Wall - HIK E1																																						106	106	106	106	106	106	106	106	106	106	106	106										
Bulk Excavation of Soft Soil - HIK E2																																						102	102	102	102	102																				
Cast C&C Tunnel and U-trough - HIK E3																																													102	102	102	102	102									
HIK At Grade Box Section Stage 1 S33																																									106	106	106	106	106	106													
Install Shoring along C&C Tunnel, U-trough and Demolish Existing Retaining Wall HIK E1																																									102	102	102	102	102	102	102											
Bulk Excavation of Soft Soil HIK E2																																																	102	102	102	102	102					
Cast C&C Tunnel and U-trough HIK E3																																																													

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	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	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
HIK Viaduct Stage 2 S34																																																												
Piling Works of Viaduct																						105	105										105	105																											
Install Shoring and Cast Pile Cap																							104	104											104	104																										
Cast Abutment and Column																								102	102											102	102																									
HIK Viaduct Stage 2 S35																																																												
Piling Works of Viaduct HIK E4																				105	105	105																																							
Install Shoring and Cast Pile Cap - HIK E5																						104	104																																						
Cast Abutment and Column - HIK E6																							102	102																																					
HIK Viaduct Stage 2 S36																																																												
Piling Works of Viaduct - HIK E4													105	105																																															
Install Shoring and Cast Pile Cap - HIK E5														104	104																																													
Cast Abutment and Column - HIK E6															102	102																																												
HIK Viaduct Stage 2 S37																																																												
Piling Works of Viaduct - HIK E4												105	105	105																																														
Install Shoring and Cast Pile Cap - HIK E5													102	102																																														
Cast Abutment and Column - HIK E6														102	102																																													
HIK Viaduct Stage 3 S38																																																												
Construction of Bridge Deck - HIK E7																	102	102	102	102	102	102	102	102	102																																			
Installation of Parapet and Viaduct Enclosure - HIK E8																									96	96	96																																	
HIK Viaduct Stage 3 S39																																																												
Construction of Bridge Deck - HIK E7																							102	102																																					
Installation of Parapet and Viaduct Enclosure - HIK E8																								96																																				
HIK Viaduct Stage 4 S40																																																												
Cast Retaining Wall and Demolish Existing Wall - HIK E9																	106	106	106	106	106	106	106	106	106																																			
Mini-Bored Piles for Noise Barrier						104	104	104	104	104	104																																																	
HIK Viaduct Stage 5 S41																																																												
Track Works of SCL Installation of OHL and Modify MOS Overrun Track - HIK E10																									96	96	96	96	96																															
HIK Viaduct Stage 5 S42																																																												
Track Works of SCL Installation of OHL and Modify MOS Overrun Track - HIK E10																																																												
HIK Viaduct Stage 6 S43																																																												
Install Noise Enclosure -HIK E11											96	96	96	96	96	96	96																																											
Worksite S45																																																												
Modificaion of Retaining Wall and Noise Barrier Installation						111	111	111	111	111	111	111																																																
Worksite S46																																																												
Demolition of existing RCP										101	101																																																	
Site clearance for Permanent RCP																																			102																										
Construction of existing RCP																																			101	101	101	101																						
Worksite S47																																																												
Mobilization, site clearance and TTMS for temporary RCP						104	104																																																					
Construction of temporary RCP							102	102	102																																																			
Demolition of existing RCP																																							101																					

Note: S42 are enclosured, construction noise impacts are not anticipated.

Summary of SWLs																																																													
HIK Station Stage 1 S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	110	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 1 S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	110	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 1 S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	109	109	110	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 2 S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	109	109	109	109	109	109	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 2 S5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	109	109	109	109	109	109	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 2 S6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	109	109	109	109	109	109	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 2 S7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	109	109	109	109	109	109	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 3 S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	104	104	104	104	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 3 S9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	104	104	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 3 S10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	104	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 3 S11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	104	104	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 3 S11a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	87	87	87	87	87	87	87	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 4 S12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	98	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 5 S13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 5 S14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	101	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 5 S15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	101	0	0	0	0	0	0	0	0	0	0	0	0
HIK Station Stage 5 S16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	101	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 1 S17 (HIK WEST)	0	0	0	0	0	109	109	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 1 S18 (HIK EAST)	0	0	0	0	0	109	109	102	103	103	103	103	103	103	103	103	103	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 2 S19 (HIK WEST)	0	0	0	0	0	0	0	102	102	0	99	99	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 2 S20 (HIK EAST)	0	0	0	0	0	0	0	107	107	107	107	107	107	107	107	107	107	107	108	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 3, 4 and 5 S21 (HIK WEST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 3, 4 and 5 S22 (HIK EAST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 6 S24 (HIK 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	104	104	104	104	104	104	104	0	0	0	0	0	0	0	0	0	0	0	0
HIK Portal Stage 7 S25 (HIK WEST)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	102	102	0	0	0	0	0	0	0	0	0
HIK Portal Stage 7 S26 (HIK 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	102	102	102	102	102	0	0	0	0	0	0	0
HIK Portal Stage 8 S28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	98	98	98	0	0	0	0	0	0
Worksite S31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	99	99	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK At Grade Box Section Construction Stage 1 S32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	106	106	107	107	107	107	106	0	0	0	0	0	0	0	0	0
HIK At Grade Box Section Stage 1 S33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	108	102	0	102	102	102	102	102	0	0	0	0	0	0
HIK Viaduct Stage 2 S34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	108	106	102	0	0	0	0	0	0	0	0	105	105	104	106	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 2 S35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	105	108	106	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 2 S36	0	0	0	0	0	0	0	0	0	0	0	0	105	108	106	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 2 S37	0	0	0	0	0	0	0	0	0	0	0	105	107	108	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 3 S38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	102	102	102	102	102	102	103	96	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 3 S39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 4 S40	0	0	0	0	0	104	104	104	104	104	104	0	0	0	0	0	106	106	106	106	106	106	106	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 5 S41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96	96	96	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 5 S42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HIK Viaduct Stage 6 S43	0	0	0	0	0	0	0	0	0	96	96	96	96	96	96	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S45	0	0	0	0	0	111	111	111	111	111	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S46	0	0	0	0	0	0	0	0	0	101	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	101	101	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S47	0	0	0	0	0	104	106	102	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Predicted Construction Noise, dB(A)	Max																																																												
TAW 5-1	66	0	0	0	0	0	61	61	61	61	61	61	60	45	45	45	45	56	56	56	56	56	58	60	59	58	49	61	61	66	66	64	64	64	64	64	65	58	57	54	54	55	56	56	56	55	55	54	0	0	0	0	0	0	0	0	0	0	0	0
TAW 5-2	71	0	0	0	0	0	61	61	58	58	58	58	61	63	65	62	57	55	55	53	64	64	66	66	63	55	46	68	68	71	71	69	68	68	68	68	69	63	63	63	63	64	63	62	62	62	62	58	58	58	58	51	51	51	0	0	0	0	0	0
TAW 6-4	66	0	0	0	0	0	61	61	61	61	61	61	60	46	46	46	46	57	57	57	57	57	59	60	59	58	49	60	60	66