Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario
Subtitle: MTW Station Construction + EEP

Activities	2012						2013												2014												2015												2016											
	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
MTW Stage 1 S1																																																						
Works in S1																111																																						
Works in S1																																102																							
MTW Stage 1 S2																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																	117	117	117	117	117																																	
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																			119	119	119																																	
MTW Stage 1 S4																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																						117	117	117	117																														
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																								119	119	119																													
MTW Stage 1 S6																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																										117	117	117	117																											
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																												119	119	119	119																								
MTW Stage 1 S8																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																	117	117	117	117	117																																	
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																			119	119	119																																	
MTW Stage 1 S10																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																						117	117	117	117																														
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																								119	119	119																													
MTW Stage 1 S12																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																										117	117	117	117																											
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																												119	119	119	119																								
MTW Stage 1 S14																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																	117	117	117	117	117																																	
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																			119	119	119																																	
MTW Stage 1 S16																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																						120	120	120	120																														
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																								122	122	122																													
MTW Stage 1 S18																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																										120	120	120	120																											
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																												122	122	122	122																								
MTW Stage 1 S20																																																							
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																	117	117	117	117	117																																	
Diaphragm Wall, Cross Wall & Roof Slab West Side of Ma Tau Wai Road																			119	119	119																																	
MTW Stage 1 S21																																																							
Works in S21																111																																							
Works in S21																																102																							
MTW Stage 1 & 2 S22																															103	103	103																						
Entrance and Adits																																108	108	108	108	108	108	108	108																
Entrance and Adits																																120	120	120																						
Entrance and Adits																																		118	118	118	118	118	118																
MTW Stage 1 & 2 S24																																		106	106	106																			
Entrance and Adits																																			108	108	108	108	108	108	108	108												
Entrance and Adits																																			120	120	120																			
Entrance and Adits																																					118	118	118	118	118	118													
MTW Stage 2 &3 S26																																																							
Bentonite Plant				106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106																							
Entrance and Adits							103	103	103																																														
Entrance and Adits								108	108	108	108	108	108	108	108																																							
Entrance and Adits								120	120	120																																													
Entrance and Adits										118	118	118	118	118	118																																							
Entrance and Adits																97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97					
MTW Stage 2 & 3 S28																																																							
Bentonite Plant in Garden				103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103																							
Entrance and Adits										103	103	103																																											
Entrance and Adits											108	108	108	108	108	108	108	108																																					
Entrance and Adits											120	120	120																																										
Entrance and Adits													118	118	118	118	118	118																																					
Entrance and Adits										96	96	96	96	96	96	96	96	96																																					
Entrance and Adits																			97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97					
MTW Stage 2 S30																																																							
Roof Slab East Side of Ma Tau Wai Road				117	117	117	117	117	117	117	117																																											
Roof Slab East Side of Ma Tau Wai Road					91	91	91	91	91	91	91																																											
Roof Slab East Side of Ma Tau Wai Road					119	119	119	119	119	119	119	119	119	119	119																																							
MTW Stage 2 S32																																																							
Roof Slab East Side of Ma Tau Wai Road				117	117	117	117	117	117	117	117																																											
Roof Slab East Side of Ma Tau Wai Road					91	91	91	91	91	91	91																																											
Roof Slab East Side of Ma Tau Wai Road					119	119	119	119	119	119	119	119	119	119	119																																							
MTW Stage 2 S34																																																							
Roof Slab East Side of Ma Tau Wai Road				117	117	117	117	117	117	117	117																																											
Roof Slab East Side of Ma Tau Wai Road					91	91	91	91	91	91	91																																											
Roof Slab East Side of Ma Tau Wai Road					119	119	119	119	119	119	119	119	119	119	119																																							
MTW Stage 2 S36																																																							
Roof Slab East Side of Ma Tau Wai Road				117	117	117	117	117	117	117	117																																											
Roof Slab East Side of Ma Tau Wai Road					91	91	91	91	91	91	91																																											
Roof Slab East Side of Ma Tau Wai Road					119	119	119	119	119	119	119	119	119	119	119																																							
MTW Stage 2 S38																																																							
Roof Slab East Side of Ma Tau Wai Road				117	117	117	117	117	117	117	117																																											
Roof Slab East Side of Ma Tau Wai Road					91	91	91	91	91	91	91																																											
Roof Slab East Side of Ma Tau Wai Road					119	119	119	119	119	119	119	119	119	119	119																																							

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	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
MTW Stage 2 & 3 S40																																																						
Roof Slab West Side of Ma Tau Wai Road																														120	120	120																							
Roof Slab West Side of Ma Tau Wai Road																															119	119	119																							
MTW Stage 1 & 2 S42																																																							
Roof Slab West Side of Ma Tau Wai Road																				119	119				119	119																													
Roof Slab West Side of Ma Tau Wai Road																											122	122																												
MTW Stage 3 S50																																115	115	115	115	115	115	115	115	115	115	115	115	115	115										
Top Down Construction																																117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117							
MTW Stage 3 S52																																115	115	115	115	115	115	115	115	115	115	115	115	115	115										
Top Down Construction																																117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117							
MTW Stage 3 S54																																115	115	115	115	115	115	115	115	115	115	115	115	115	115										
Top Down Construction																																117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117							
MTW Stage 3 S56																																115	115	115	115	115	115	115	115	115	115	115	115	115	115										
Top Down Construction																																117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117							
MTW Stage 3 S58																																115	115	115	115	115	115	115	115	115	115	115	115	115	115										
Top Down Construction																																117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117							
MTW Stage 3 S60																																115	115	115	115	115	115	115	115	115	115	115	115	115	115										
Top Down Construction																																117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117							
MTW TKW Garden																																																						
Bentonite Plant			112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112																						
MTW SSS (Include. D&B Tunnels)																																																						
Retrieval shaft				121	121	121	121	121																																															
Retrieval shaft			117	117	117	117	117	117																																															
Retrieval shaft									122	122	122	122	122	122	122	122	122	122	122	122																																			
Retrieval shaft									120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120																													
EKW Pier 15																																																							
Pier Work																						101	101																																	
Pier Work																				119	119																																			
Pier Work																						119																																		
Pier Work																							114	114																																
Pier Work																									117	117	117	117	117																											
Worksite EEP																																																							
Shaft														120	120	120	120	120	120	120	120	123	122	118	118	118	118	118	118	116	116	116	116	116	116	116	118	118	118	118	118	116	116	116	116	116	116	116							

Summary of SWLs																																																						
MTW Stage 1 S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	121	121	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 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	117	117	121	121	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	121	121	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 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	117	117	121	121	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	124	124	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	124	124	122	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	117	121	121	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 S21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 & 2 S22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	120	120	122	118	118	118	118	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 & 2 S24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	120	120	122	118	118	118	118	118	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 2 &3 S26	0	0	106	106	106	106	108	120	120	122	119	119	119	119	119	106	106	106	106	106	106	106	106	106	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
MTW Stage 2 & 3 S28	0	0	103	103	103	103	103	103	103	106	120	120	122	118	118	118	118	118	103	103	103	103	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	0	0	0	0
MTW Stage 2 S30	0	0	117	121	121	121	121	121	121	121	121	119	119	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 2 S32	0	0	117	121	121	121	121	121	121	121	121	119	119	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 2 S34	0	0	117	121	121	121	121	121	121	121	121	119	119	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 2 S36	0	0	117	121	121	121	121	121	121	121	121	119	119	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 2 S38	0	0	117	121	121	121	121	121	121	121	121	119	119	119	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 2 & 3 S40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	122	122	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 1 & 2 S42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	0	0	0	119	119	122	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW Stage 3 S50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119	117	117	117	0	0	0	0	0	0	0	0
MTW Stage 3 S52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119	117	117	117	0	0	0	0	0	0	0	0
MTW Stage 3 S54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119	117	117	117	0	0	0	0	0	0	0	0
MTW Stage 3 S56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119	117	117	117	0	0	0	0	0	0	0	0
MTW Stage 3 S58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119	117	117	117	0	0	0	0	0	0	0	0
MTW Stage 3 S60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	119	119	119	119	119	119	119	119	119	117	117	117	0	0	0	0	0	0	0	0
MTW TKW Garden	0	0	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTW SSS (Include. D&B Tunnels)	0	0	117	122	122	122	122	124	124	124	124	124	124	124	124	124	124	124	124	120	120	120	120	120	120	120	120	120	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EKW Pier 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	119	119	114	114	117	117	117	117	117	0	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 EEP	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120	120	120	120	120	120	120	123	122	118	118	118	118	118	118	116	116	116	116	116	116	116	118	118	118	118	118	116	116	116	116	116	0	0	0	0	0	0	0

Predicted Construction Noise, dB(A)	Max																																																						
MTW-17-1	90	0	0	77	80	80	80	80	80	81	81	81	80	80	80	80	78	79	79	82	90	90	88	84	85	88	88	88	88	87	81	83	84	82	80	79	79	79	79	79	78	78	78	78	78	78	76	76	76	0	0	0	0	0
MTW-12-5	89	0	0	84	89	89	89	89	89	89	89	89	87	87	87	87	82	84	84	87	89	89	82	80	82	85	84	84	84	81	85	87	89	87	85	84	84	84	84	84	83	83	83	83	83	83	81	81	81	0	0	0	0	0
MTW-18-1	89	0	0	79	82	82	82	82	83	83	83	83	81	81	81	81	77	79	79	82	86	86	80	79	81	85	85	87	87	80	86	89	89	86	82	81	81	81	81	81	80	80	80	80	80	80	78	78	78	0	0	0	0	0
MTW-12-4	96	0	0	84	88	88	88	88	89	89	89	90	89	90	88	88	83	89	89	92	92	92	92	92	96	96	94	84	84	88	88	86	91	90	90	95	95	96	93	93	93	93	93	90	90	90	88	88	88	0	0	0	0	0
MTW-12-3	96	0	0	83	87	87	87	87	88	88	88	89	87	88	87	87	81	85	85	87	87	87	92	92	96	96	94	90	90	94	94	92	94	89	89	93	93	94	92	92	92	92	92	89	89	89	87	87	87	0	0	0	0	0
MTW-16-1	94	0	0	87	92	92	92	92	92	92	92	94	93	94	92	92	88	89	89	86	86	86	88	88	92	92	90	86	86	90	90	88	93	91	91	92	92	92	91	91	91	91	91	91	91	91	89	89	89	0	0	0	0	0
MTW-12-2	85	0	0	78	82	82	82	82	83	83	83	83	81	82	81	81	79	81	81	85	85	85	76	76	80	80	78	79	79	79	83	83	81	85	82	83	83	83	83	83	83	83	83	82	82	82	80	80	80	0	0	0	0	0
MTW-12-9	80	0	0	75	79	79	79	79	79	79	80	80	78	79	78	78	72	76	76	79	79	79	72	72	76	76	74	74	74	79	79	77	80	78	78	79	79	79	78	78	78	78	78	78	78	78	76	76	76	0	0	0	0	0
HOM-2-1	86	0	0	78	84	84	84	84	84	85	85	85	85	85	85	85	85	85	85	85	86	82	82	81	81	82	82	82	82	81	73	74	77	74	74	72	72	72	72	72	71	71	71	71	71	71	69	69	69	0	0	0	0	0
MTW-12-4-1	99	0	0	82	86	86	86	86	87	87	88	88	87	88	86	86	81	86	86	88	88	88	89	89	93	93	91	84	84	88	88	86	90	88	89	98	98	99	96	96	96	96	96	88	88	88	85	85	85	0	0	0	0	0
MTW-12-10	99	0	0	85	89	89	89	89	89	89	89	89	87	87	87	87	75	82	82	86	87	86	85	85	90	90	88	85	85	89	89	88	98	98	99	96	96	96	96	96	87	87	87	87	87	87	85	85	85	0	0	0	0	0
HOM-2-1-A	93	0	0	86	91	91	91	91	91	91	93	93	93	93	93	93	93	93	93	93	93	89	89	89	89	89	89	89	89	89	72	73	75	73	72	71	71	71	71	71	69	69	69	69	69	69	67	67	67	0	0	0	0	0
HOM-2-2	89	0	0	82	88	88	88	88	88	89	89	89	89	89	89	89	89	89	89	89	89	85	85	85	85	85	85	85	85	85	67	69	69	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HOM-2-5	86	0	0	79	84	84	84	84	84	84	86	86	86	86	86	86	86	86	86	86	82	82	82	82	82	82	82	82	82	82	82	70	71	68	65	65	65	65	65	65	65	65	65	65	65	65	63	63	63	0	0	0	0	0
MTW-18-2	97	0	0	80	84	84	84	84	84	84	84	84	82	83	82	82	79	82	82	85	88	88	81	80	83	87	86	88	88	81	94	96	97	93	84	83	83	83	83	83	82	82	82	82	82	82	80	80	80	0	0	0	0	0
MTW-12-10-1	96	0	0	86	90	90	90	90	91	91	91	89	89	89	89	89	75	83	83	87	87	87	86	86	90	90	88	90	90	94	94	92	96	93	94	92	92	92	92	92	89	89	89	89	89	89	87	87	87	0	0	0	0	0
MTW-12-11	98	0	0	82	86	86	86	86	87	87	87	88	87	87	86	86	81	84	84	86	86	86	91	91	95	95	93	87	87	91	91	89	93	90	91	96	96	98	95	95	95	95	95	90	90	90	88	88	88	0	0	0	0	0
MTW-12-6	90	0	0	0	0	0	0	0	0	0	0	0	0	0	87	87	87	87	87	87	87	87	90	89	85	85	85	85	85	85	83	83	83	83	83	83	85	85	85	85	85	83	83	83	83	83	83	83	83	0	0	0	0	0
MTW-8-1	90	0	0	0	0	0	0	0	0	0	0	0	0	0	87	87	87	87	87	87	87	87	90	88	84	84	84	84	84	84	82	82	82	82	82	82	82	84	84	84	84	84	82	82	82	82	82	82	82	0	0	0	0	0