

Annex A1 - Environmental Monitoring and Audit Sampling Schedule for East of Sha Chau (September 2012 - February 2017)

[illegible]

Cumulative Impact Sediment Chemistry		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	
Near-field Stations	ESC-RNA				*		*				*		*																							*		*			*		*	
	ESC-RNB				*		*				*		*																						*		*			*		*		
Mid-field Stations	ESC-RMA				*		*				*		*																						*		*			*		*		
	ESC-RMB				*		*				*		*																						*		*			*		*		
Capped Pit Stations	ESC-RCA				*		*				*		*																						*		*			*		*		
	ESC-RCB				*		*				*		*																						*		*			*		*		
Far-Field Stations	ESC-RFA				*		*				*		*																						*		*			*		*		
	ESC-RFB				*		*				*		*																						*		*			*		*		
Ma Wan Station																																												
	MW1				*		*				*		*																						*		*			*		*		

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Impact Monitoring for Dredging		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F				
Upstream/Reference Stations																																															
	US1	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
	US2	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
Downstream/Impact Stations																																															
	DS1	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
	DS2	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
	DS3	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
	DS4	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
	DS5	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				
Ma Wan Station																																															
	MW1	*	*	*	*	*	*	*	*	*																	*	*	*	*	*	*									*	*	*				

Capping				S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F			
Ebb Tide																																																
Impact Station																																																
ESC-IPE1																				*		*						*		*								*		*								
ESC-IPE2																				*		*						*		*							*		*									
ESC-IPE3																				*		*						*		*							*		*									
ESC-IPE4																				*		*						*		*							*		*									
ESC-IPE5																				*		*						*		*							*		*									
Intermediate Station																																																
ESC-INE1																				*		*					*		*							*		*										
ESC-INE2																				*		*					*		*							*		*										
ESC-INE3																				*		*					*		*							*		*										
ESC-INE4																				*		*					*		*							*		*										
ESC-INE5																				*		*					*		*							*		*										
Reference Station																																																
ESC-RFE1																				*		*					*		*						*		*											
ESC-RFE2																				*		*					*		*						*		*											
ESC-RFE3																				*		*					*		*						*		*											
ESC-RFE4																				*		*					*		*						*		*											
ESC-RFE5																				*		*					*		*						*		*											
Ma Wan Station																																																
MW1																			*		*					*		*						*		*												
Flood Tide																																																
Impact Station																																																
ESC-IPF1																				*		*					*		*					*		*												
ESC-IPF2																				*		*					*		*					*		*												
ESC-IPF3																				*		*					*		*					*		*												
Intermediate Station																																																
ESC-INF1																				*		*					*		*					*		*												
ESC-INF2																				*		*					*		*					*		*												
ESC-INF3																				*		*					*		*					*		*												
Reference Station																																																
ESC-RFF1																				*		*					*		*					*		*												
ESC-RFF2																				*		*					*		*					*		*												
ESC-RFF3																				*		*					*		*					*		*												
Ma Wan Station																																																
MW1																			*		*					*		*					*		*													

Annex A1 - Environmental Monitoring and Audit Sampling Schedule for East of Sha Chau (September 2012 - February 2017)

		2012				2013				2014				2015				2016				2017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Routine Water Quality Monitoring		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Intermediate Station	ESC-IPE5	*	*			*	*		*	*		*	*																					*	*		*	*		*	*		*	*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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	MW1	*	*			*	*		*	*		*	*																				*	*		*	*		*	*		*	*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Annex A2 - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - February 2017)

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Annex A2 - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - February 2017)

			2012						2013						2014						2015						2016						2017																
Cumulative Impact Sediment Chemistry			J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F			
Near-field Stations	SB-RNA	4 times per year														12				12		12					12	12					12		12														
	SB-RNB	4 times per year														12				12		12					12	12					12		12														
Mid-field Stations	SB-RMA	4 times per year														12				12		12					12	12					12		12														
	SB-RMB	4 times per year														12				12		12					12	12					12		12														
Far-Field Stations	SB-RFA	4 times per year														12				12		12					12	12					12		12														
	SB-RFB	4 times per year														12				12		12					12	12					12		12														
Capped Pit Stations	SB-RCA	4 times per year														12				12		12					12	12					12		12														
	SB-RCB	4 times per year														12				12		12					12	12					12		12														
Sensitive Receiver Stations																12				12		12					12	12					12		12														
	MW1	4 times per year														12				12		12					12	12					12		12														
	THB1	4 times per year														12				12		12					12	12					12		12														
	THB2	4 times per year														12				12		12					12	12					12		12														

Sediment Toxicity Tests				J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F				
SB CMP 1 Active																																																			
Reference	SB-TRA	2 times per year															5																																		
	SB-TRB	2 times per year															5																																		
Near-Field	SB-TAA	2 times per year															5																																		
	SB-TAB	2 times per year															5																																		
Sensitive Receiver Stations																																																			
	MW1	2 times per year															5																																		
	THB1	2 times per year															5																																		
	THB2	2 times per year															5																																		

SB CMP 2 Active																																																			
Reference	SB-TRA	2 times per year																																																	
	SB-TRB	2 times per year																																																	
Near-Field	SB-TBA	2 times per year																																																	
	SB-TBB	2 times per year																																																	
Sensitive Receiver Stations																																																			
	MW1	2 times per year																																																	
	THB1	2 times per year																																																	
	THB2	2 times per year																																																	

Tissue/ Whole Body Sampling				J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F			
Near-Pit Stations	SB-INA	2 times per year																						*																										
	SB-INB	2 times per year																						*																										
Reference North																																																		
	TNA	2 times per year																						*																										
Reference South	TNB	2 times per year																						*																										
	TSA	2 times per year																						*																										
	TSB	2 times per year																						*																										

Demersal Trawling				J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F			
Impact	SB-INA 1-5	4 times per year															5						5	5					5	5					5	5					5	5								
	SB-INB 1-5	4 times per year															5						5	5					5	5					5	5					5	5								
Reference North	TNA 1-5	4 times per year															5						5	5					5	5					5	5					5	5								
	TNB 1-5	4 times per year															5						5	5					5	5					5	5					5	5								
Reference South	TSA 1-5	4 times per year															5						5	5					5	5					5	5					5	5								
	TSB 1-5	4 times per year															5						5	5					5	5					5	5					5	5								

Annex A2 - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - February 2017)

[illegible]

Annex A2 - Environmental Monitoring and Audit Sampling Schedule for South of The Brothers (July 2012 - February 2017)

			2012				2013				2014				2015				2016				2017																									
Capping Water Quality Monitoring			J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F		
Ebb Tide																																																
Impact Stations Downcurrent																																																
	SB-IPE1	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-IPE2	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-IPE3	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-IPE4	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-IPE5	4 times per year																				3		3				3		3				3		3				3		3			3			
Intermediate Stations Downcurrent																																																
	SB-INE1	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-INE2	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-INE3	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-INE4	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-INE5	4 times per year																				3		3				3		3				3		3				3		3			3			
Reference Stations Upcurrent																																																
	SB-RFE1	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-RFE2	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-RFE3	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-RFE4	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-RFE5	4 times per year																				3		3				3		3				3		3				3		3			3			
Sensitive Receiver Stations																																																
	MW1	4 times per year																				3		3				3		3				3		3				3		3			3			
	THB1	4 times per year																				3		3				3		3				3		3				3		3			3			
	THB2	4 times per year																				3		3				3		3				3		3				3		3			3			
	WSR45C	4 times per year																				3		3				3		3				3		3				3		3			3			
	WSR46	4 times per year																				3		3				3		3				3		3				3		3			3			
Flood Tide																																																
Impact Stations Downcurrent																																																
	SB-IPF1	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-IPF2	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-IPF3	4 times per year																				3		3				3		3				3		3				3		3			3			
Intermediate Stations Downcurrent																																																
	SB-INF1	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-INF2	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-INF3	4 times per year																				3		3				3		3				3		3				3		3			3			
Reference Stations Upcurrent																																																
	SB-RFF1	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-RFF2	4 times per year																				3		3				3		3				3		3				3		3			3			
	SB-RFF3	4 times per year																				3		3				3		3				3		3				3		3			3			
Sensitive Receiver Stations																																																
	MW1	4 times per year																				3		3				3		3				3		3				3		3			3			
	THB1	4 times per year																				3		3				3		3				3		3				3		3			3			
	THB2	4 times per year																				3		3				3		3				3		3				3		3			3			
	WSR45C	4 times per year																				3		3				3		3				3		3				3		3			3			
	WSR46	4 times per year																				3		3				3		3				3		3				3		3			3			
Benthic Recolonisation Studies			J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F		
Capped Contaminated Mud Pits																																																
	SB-CPA	2 times per year																																														
	SB-CPB	2 times per year																																														
Reference Stations																																																
	RBA	2 times per year																																														
	RBB	2 times per year																																														
	RBC	2 times per year																																														

Notes:
 **n = Number of replicates depends on parameters
 Naming of stations are tentative only and will be subjected to changes