Annex A1 - East of Sha Chau Environmental Monitoring and Audit Sampling Schedule for CMP (April 2017 - March 2021)

			2017				2018												2019												2020												2021		
Pit Specific Sediment Chemistry *	**Code**	**Frequency**	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	M
Active-Pit																																													
	ESC-NPAA	Monthly	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	6	6	6
	ESC-NPAB	Monthly	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	6	6	6
Pit-Edge																																													
	ESC-NEAA	Monthly	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	6	6	6
	ESC-NEAB	Monthly	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	6	6	6
Near-Pit																																													
	ESC-NNAA	Monthly	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	6	6	6
	ESC-NNAB	Monthly	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6	6	6	6

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	M
Near-field Stations																																													
	ESC-RNA	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
	ESC-RNB1	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
Mid-field Stations																																													
	ESC-RMA	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
	ESC-RMB	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
Capped Pit Stations																																													
	ESC-RCA1	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
	ESC-RCB1	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
Far-Field Stations																																													
	ESC-RFA	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
	ESC-RFB	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	
Ma Wan Station																																													
	MW1	4 times per year				12		12				12		12				12		12				12		12				12		12				12		12				6		6	

Sediment Toxicity Tests			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	M
Near-Pit Stations																																													
	ESC-TDA	2 times per year						5						5						5						5						5						5						5	
	ESC-TDB1	2 times per year						5						5						5						5						5						5						5	
Reference Stations																																													
	ESC-TRA	2 times per year						5						5						5						5						5						5						5	
	ESC-TRB	2 times per year						5						5						5						5						5						5						5	
Ma Wan Station																																													
	MW1	2 times per year						5						5						5						5						5						5						5	

Tissue/ Whole Body Sampling			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	M
Near-Pit Stations																																													
	ESC-INA	2 times per year						*						*						*						*						*						*						*	
	ESC-INB	2 times per year						*						*						*						*						*						*						*	
Reference North																																													
	TNA	2 times per year						*						*						*						*						*						*						*	
	TNB	2 times per year						*						*						*						*						*						*						*	
Reference South																																													
	TSA	2 times per year						*						*						*						*						*						*						*	
	TSB	2 times per year						*						*						*						*						*						*						*	

Demersal Trawling			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	M
Near Pit Stations																																													
	ESC-INA	4 times per year					5	5					5	5					5	5					5	5					5	5					5	5					5	5	
	ESC-INB	4 times per year					5	5					5	5					5	5					5	5					5	5					5	5					5	5	
Reference North																																													
	TNA	4 times per year					5	5					5	5					5	5					5	5					5	5					5	5					5	5	
	TNB	4 times per year					5	5					5	5					5	5					5	5					5	5					5	5					5	5	
Reference South																																													
	TSA	4 times per year					5	5					5	5					5	5					5	5					5	5					5	5					5	5	
	TSB	4 times per year					5	5					5	5					5	5					5	5					5	5					5	5					5	5	

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	M
Ebb Tide																																													
Impact Station Downcurrent																																													
	ESC-IPE1A	4 times per year *																														3				3		3							
	ESC-IPE2A	4 times per year *																														3				3		3							
	ESC-IPE3	4 times per year *																														3				3		3							
	ESC-IPE4	4 times per year *																														3				3		3							
	ESC-IPE5	4 times per year *																														3				3		3							
Intermediate Station Downcurrent																																													
	ESC-INE1A	4 times per year *																														3				3		3							
	ESC-INE2A	4 times per year *																														3				3		3							
	ESC-INE3A	4 times per year *																														3				3		3							
	ESC-INE4A	4 times per year *																														3				3		3							
	ESC-INE5A	4 times per year *																														3				3		3							
Reference Station Upcurrent																																													
	ESC-RFE1	4 times per year *																														3				3		3							
	ESC-RFE2	4 times per year *																														3				3		3							
	ESC-RFE3	4 times per year *																														3				3		3							
	ESC-RFE4	4 times per year *																														3				3		3							
	ESC-RFE5	4 times per year *																														3				3		3							
Ma Wan Station																																													
	MW1	4 times per year *																														3				3		3							
Flood Tide																																													
Impact Station Downcurrent																																													
	ESC-IPF1	4 times per year *																														3				3		3							
	ESC-IPF2	4 times per year *																														3				3		3							
	ESC-IPF3	4 times per year *																														3				3		3							
Intermediate Station Downcurrent																																													
	ESC-INF1	4 times per year *																														3				3		3							
	ESC-INF2	4 times per year *																														3				3		3							
	ESC-INF3	4 times per year *																														3				3		3							
Reference Station Upcurrent																																													
	ESC-RFF1A	4 times per year *																														3				3		3							
	ESC-RFF2A	4 times per year *																														3				3		3							
	ESC-RFF3	4 times per year *																														3				3		3							
Ma Wan Station																																													
	MW1	4 times per year *																														3				3		3							

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	M
Ebb Tide																																													
Impact Station Downcurrent																																													
	ESC-IPE1A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-IPE2A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-IPE3	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-IPE4	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-IPE5	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Intermediate Station Downcurrent																																													
	ESC-INE1A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-INE2A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-INE3A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-INE4A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-INE5A	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Reference Station Upcurrent																																													
	ESC-RFE1	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-RFE2	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-RFE3	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-RFE4	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-RFE5	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Ma Wan Station																																													
	MW1	Monthly *		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Flood Tide																																													
Impact Station Downcurrent																																													
	ESC-IPF1	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-IPF2	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-IPF3	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Intermediate Station Downcurrent																																													
	ESC-INF1	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-INF2	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-INF3	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Reference Station Upcurrent																																													
	ESC-RFF1A	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-RFF2A	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
	ESC-RFF3	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4
Ma Wan Station																																													
	MW1	Monthly *		8	8					8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8		8	8	4	4	4	4

Water Column Profiling *			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	M
Plume Stations	WCP1	Monthly	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2
	WCP2	Monthly	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2

Benthic Recolonisation Studies			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	M
Capped Stations at CMPV																																													
	ESCV-CPA	2 times per year																																											
	ESCV-CPB	2 times per year																																											
	ESCV-CPC	2 times per year																																											
	ESCV-CPD	2 times per year																																											
Reference Stations																																													
	RBA	2 times per year																																											
	RBB	2 times per year																																											
	RBC1	2 times per year																																											

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	M
Upstream Stations																																													
	US1	3 times per week	2																										2	2															
	US2	3 times per week	2																										2	2															
Downstream Stations																																													
	DS1	3 times per week	2																										2	2															
	DS2	3 times per week	2																										2	2															
	DS3	3 times per week	2																										2	2															
	DS4	3 times per week	2																										2	2															
	DS5	3 times per week	2																										2	2															
Ma Wan Station																																													
	MW1	3 times per week	2																										2	2															

Notes:
The number shown in each cell represents the numbers of replicates per monitoring station
Impact Monitoring for Dredging will be scheduled when dredging operations commence.
Benthic Recolonisation Studies for CMP V will be scheduled when capping operation for CMP V is completed.

* A proposal on the change of number of sample replication of water quality & sediment monitoring and combination of routine water quality monitoring and water quality monitoring during capping operation was submitted to EPD and agreed by EPD on 3 December 2020. The proposed changes will be effective for the EM&A activities since December 2020. Water Quality Monitoring during Capping Operation and Routine Water Quality Monitoring are combined such that Routine Water Quality Monitoring will be conducted monthly starting in December 2020.