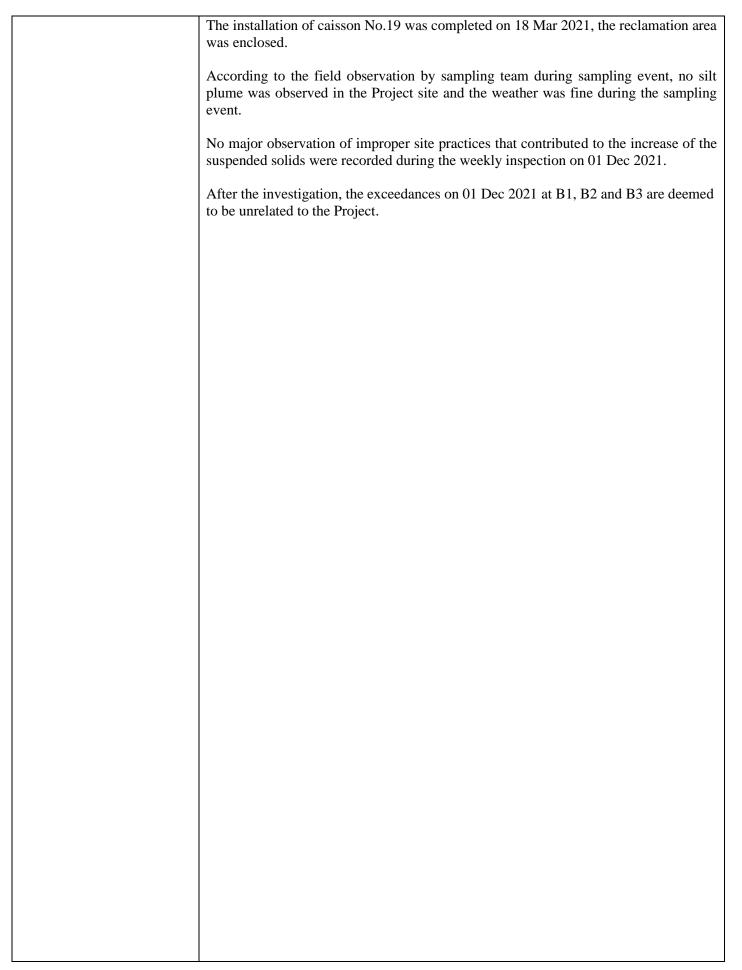
Contract No. EP/SP/66. Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix N	Exceedance Report	

Statistical Summary of Exceedances in the Reporting Period

Water Quality (Regular Monitoring)			
Location	Action Level	Limit Level	Total
B1	3	5	8
B2	3	7	10
В3	4	7	11
B4	3	5	8
CR1	4	6	10
CR2	3	7	10
F1A	3	3	6
H1	4	3	7
S1	0	0	0
S2A	0	0	0
S3	0	0	0
M1	2	4	6

	Noise (Day Time)				
Location	Action Level	Limit Level To			
M1	0	0	0		
M2	0	0	0		
M3	0	0	0		
	Noise (Eve	ening Time)			
Location	Action Level	Limit Level	Total		
M1	0	0	0		
M2	0	0	0		
M3	0	0	0		
	Noise (Night Time)				
Location	Action Level	Limit Level	Total		
M1	0	0	0		
M2	0	0	0		
M3	0	0	0		

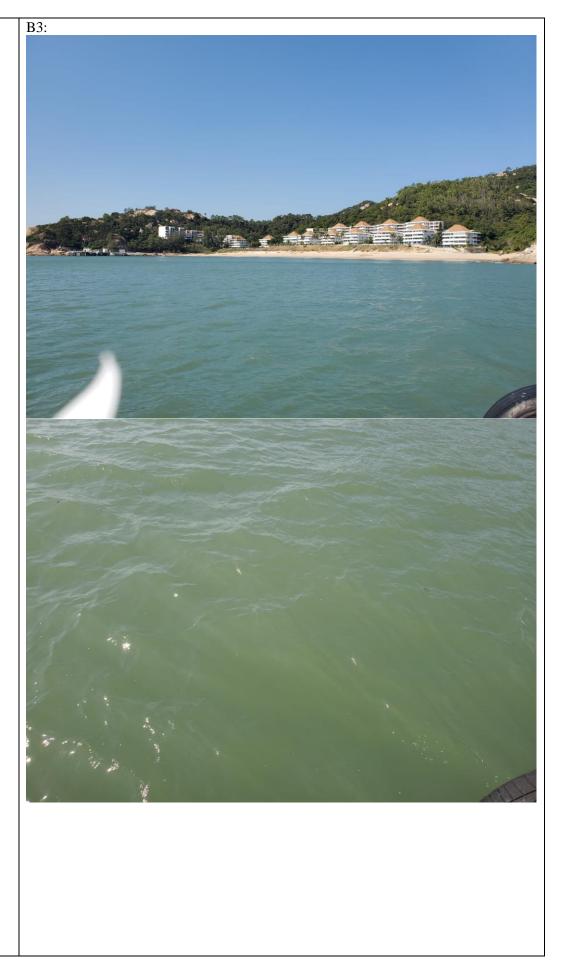
Project	Integrated Waste Management Facilities, Phase 1		
Date	01 Dec 2021 (Lab result received on 8 Dec 2021)		
Time	08:00 – 11:25 (Mid-Ebb)		
	14:08 – 17:38 (Mid-Flood)		
	Mid-E	Ebb	
Monitoring Location	B1, B2, B3 + B1 S1-	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAIMED AREA FOR THE IMMF	F1A N F1A N N F1A N N A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT
Demonstra	C1-1C-1:1/CC)		THE IWMF SITE BOUNDARY
Parameter Action & Limit Levels	Suspended Solid (SS)	T t 1/4 T = 1	
Action & Limit Levels	Action Level	Limit Level	(1200/ of C1A)
Measurement Level	\geq 11.8 mg/L (120% of C1A) Impact Station(s) of		(130% of C1A)
Measurement Level	Exceedance	Measurement Level	Impact Station(s) of without Exceedance
	21.8 mg/L (B1)	9.8 mg/L (C1A)	9.5 mg/L (B4)
	21.0 mg/L (B1) 21.0 mg/L (B2)	10.0 mg/L (C2A)	10.5 mg/L (F1)
	19.3 mg/L (B3)	10.0 mg/L (C2A)	9.0 mg/L (H1)
	19.3 Hig/L (B3)		9.3 mg/L (M1)
			8.7 mg/L (CR1)
			9.8 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works undertaken on 1 December 2021 include 2.5 tonne armour weighing and dropping test, levelling of underlayer rock at BWA CH870 – 900, landfilling works for below +6.00mPD, landfill works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of limit level were found at B1, B2 and B3. B1, B2 and B3 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at these monitoring stations are deemed to be unrelated to the Project.		

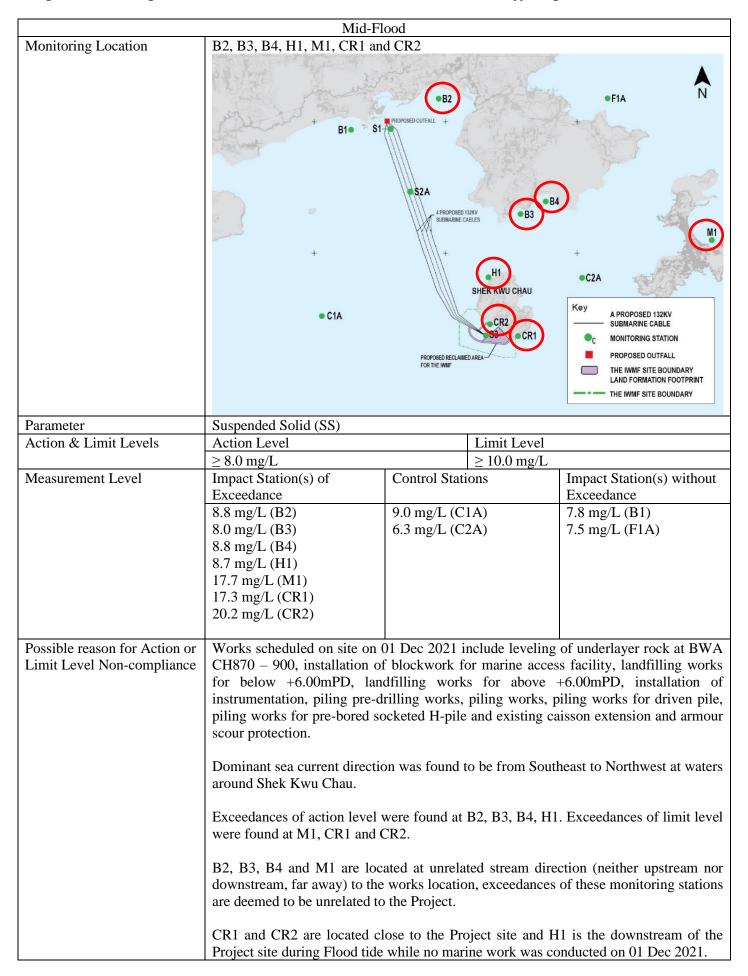


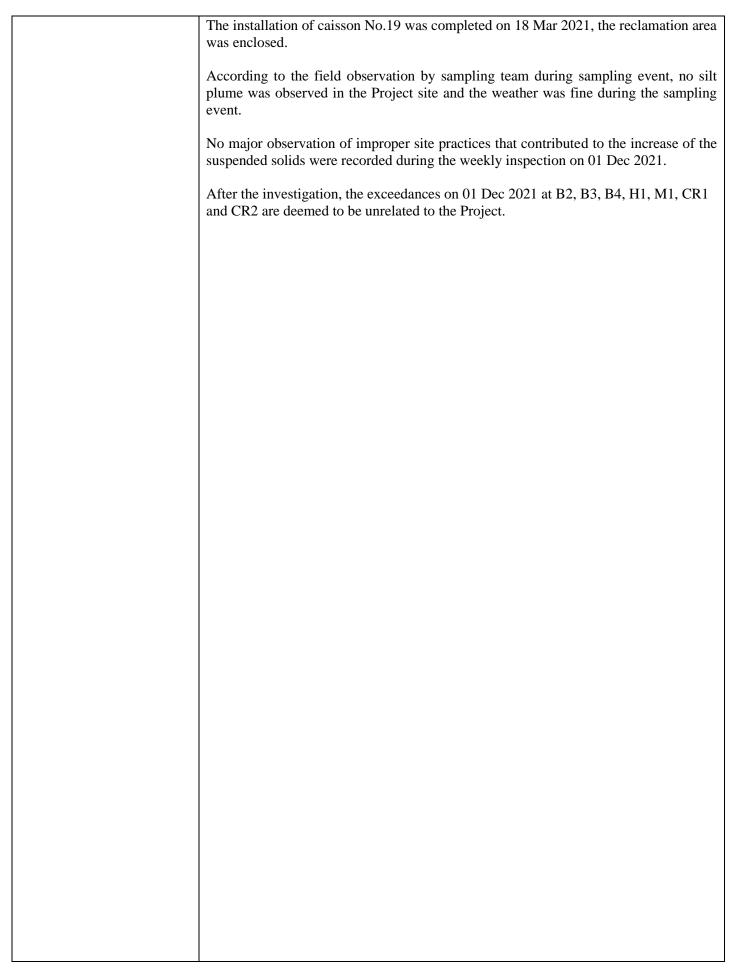
Monitoring photos of stations with exceedance B1:



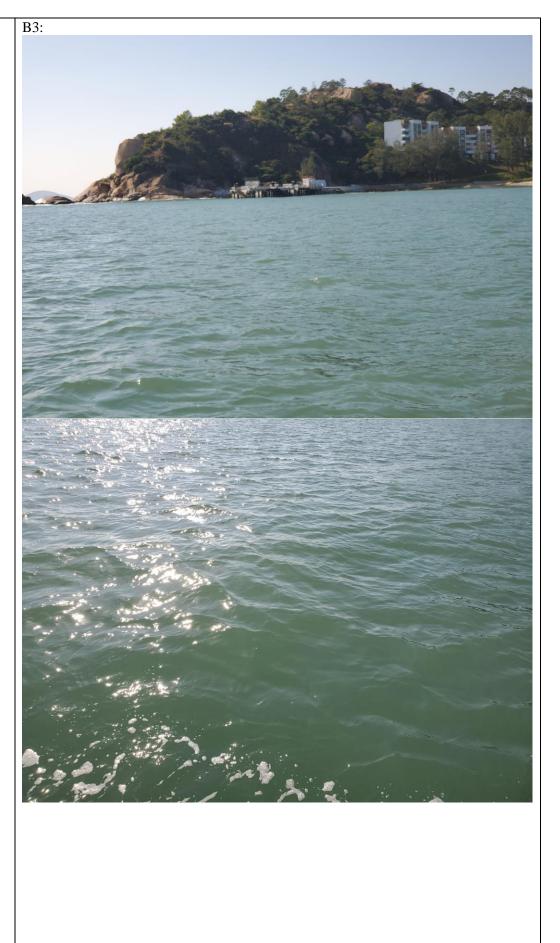
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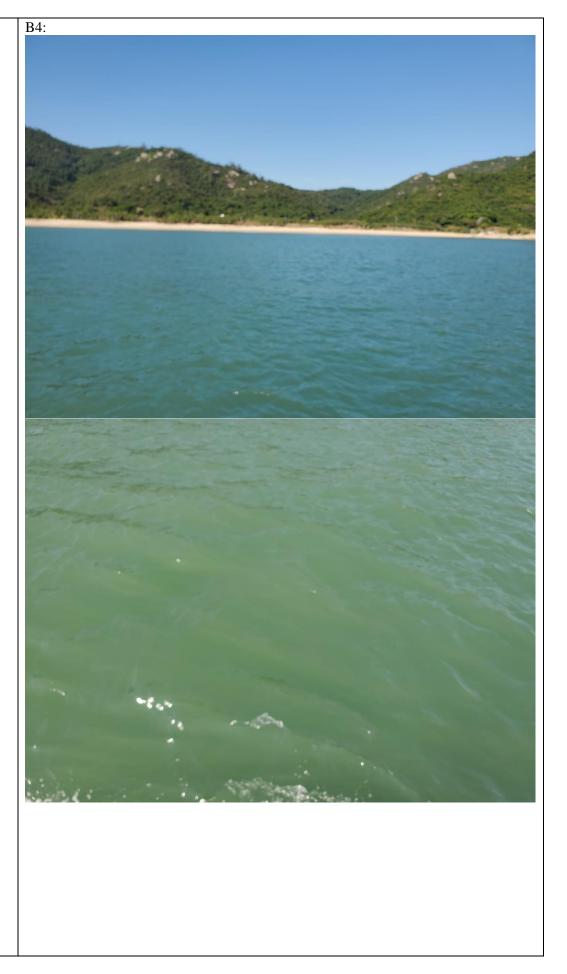


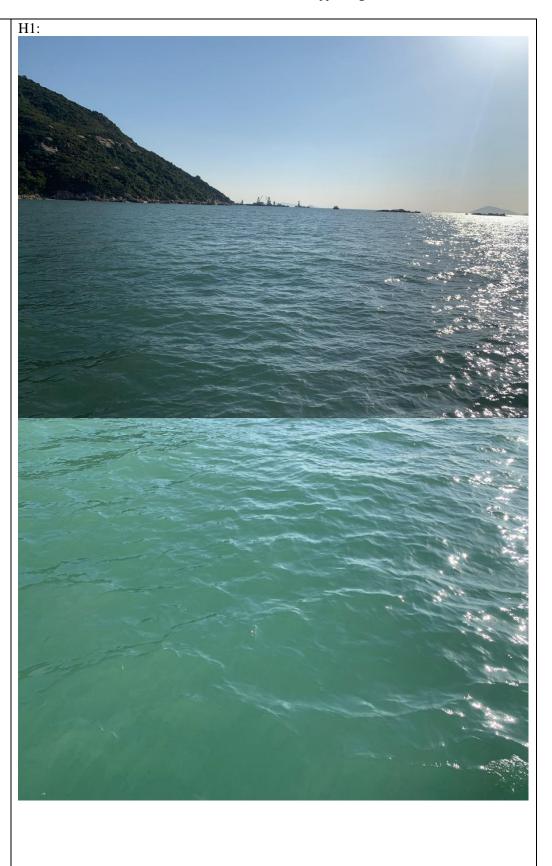


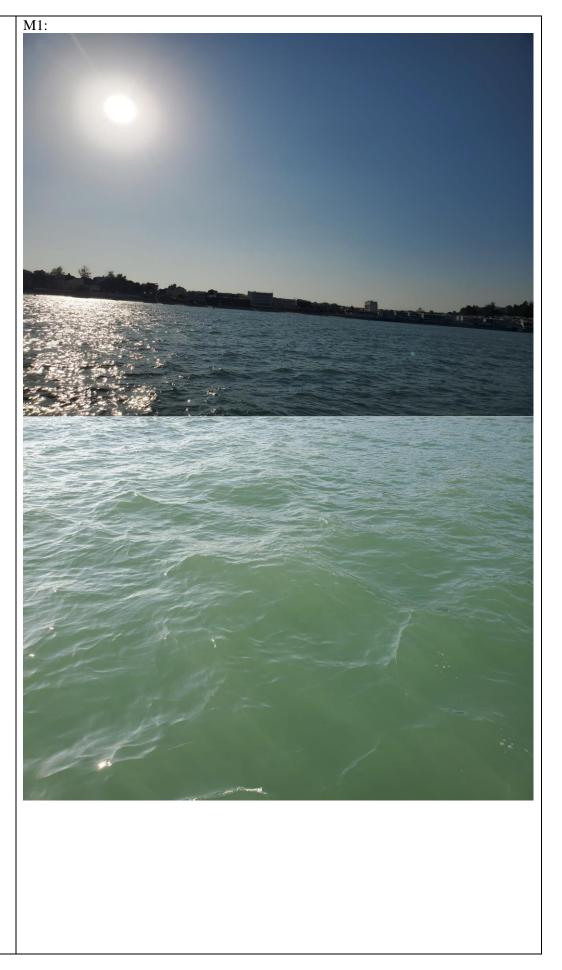


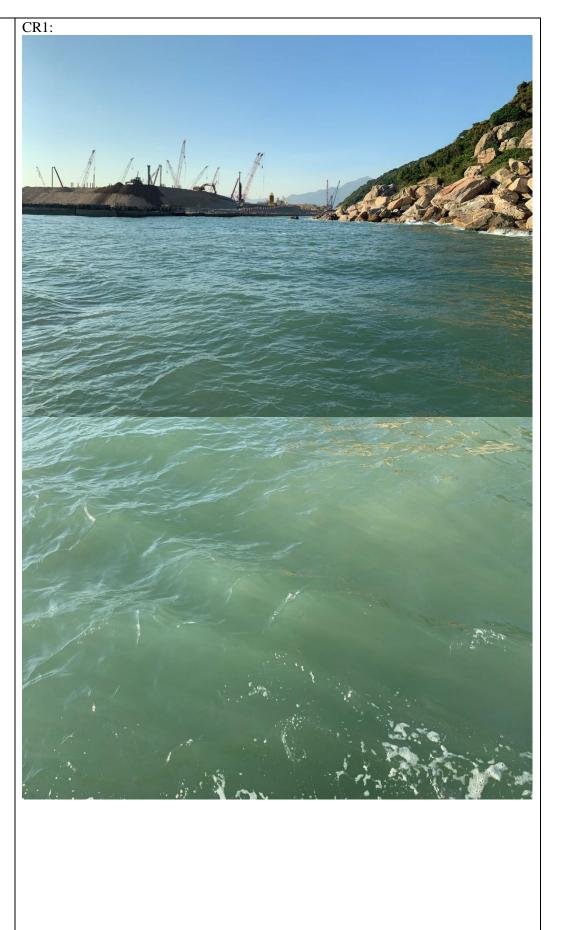
Monitoring photos of B2: stations with exceedance

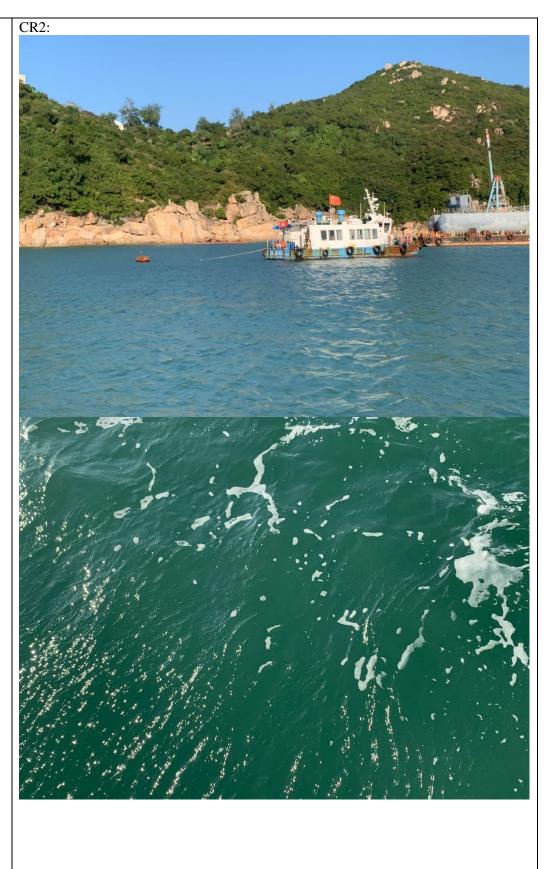


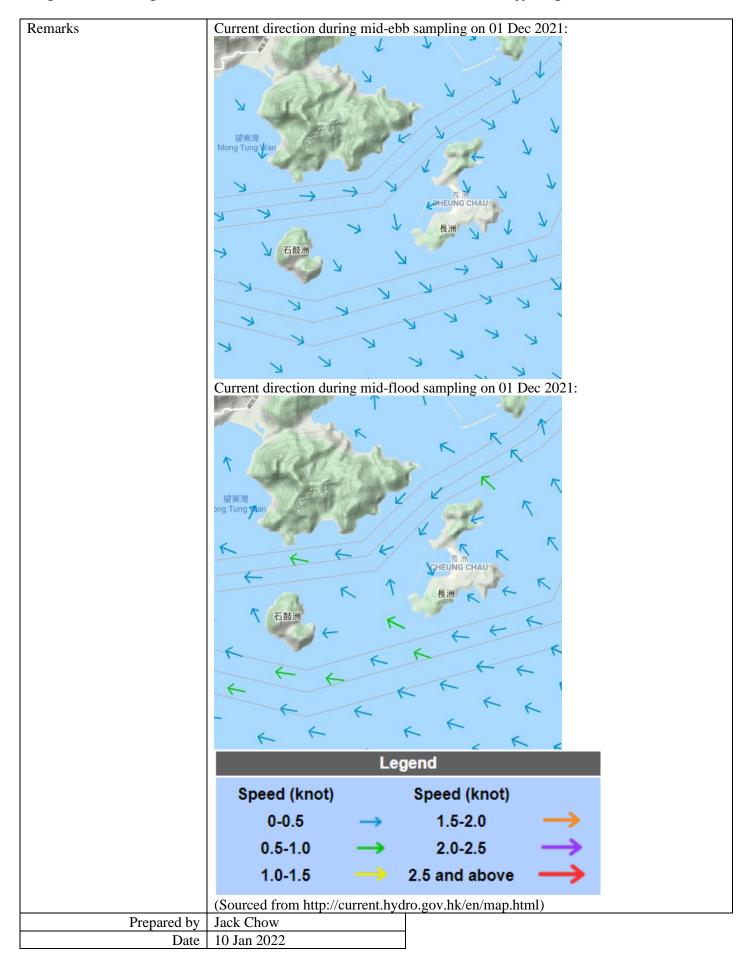








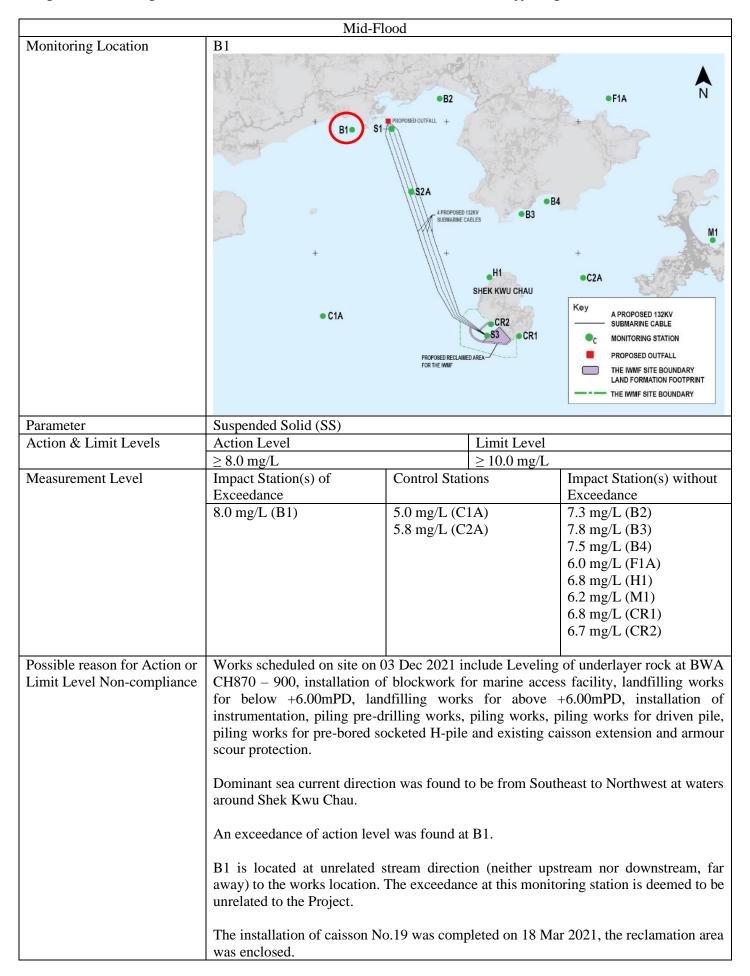




Project	Integrated Waste Management Facilities, Phase 1			
Date	03 Dec 2021 (Lab result received on 10 Dec 2021)			
Time	09:47 – 13:17 (Mid-Ebb)			
	15:18 – 18:48 (Mid-Flood)			
	Mid-H	Ebb		
Monitoring Location	F1A B10 S1	PROPOSED OUTFALL + PROPOSED THE WINF	H1 SHEK KWU CHAU CR2 S3 CR1	Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
De ne ve et en	C			
Parameter	Suspended Solid (SS)		A -4: 0 T :	24 T1-
Action & Limit Levels	Action Level		Action & Lim	it Levels
Massaurant I aval	\geq 9.0 mg/L (120% of C1A)	Magazzaa	$\geq 10.0 \text{ mg/L}$	Immost Ctation(s) of
Measurement Level	Impact Station(s) of Exceedance	Measuremen	it Level	Impact Station(s) of Exceedance
	9.2 mg/L (F1A)	7.5 mg/L (C	1 A)	7.5 mg/L (B1)
	9.2 mg/L (PTA)	9.2 mg/L (C2		6.5 mg/L (B2)
		9.2 mg/L (C.	2A)	5.8 mg/L (B3)
				6.5 mg/L (B4)
				6.0 mg/L (H1)
				7.0 mg/L (M1)
				6.7 mg/L (CR1)
				6.2 mg/L (CR2)
				0.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 03 Dec 2021 include Leveling of underlayer rock at BWA CH870 – 900, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. An exceedance of action level was found at F1A.			
	The choose and of dotton leve			

F1A was located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, the exceedance at this monitoring station is deemed to be unrelated to the Project. The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed. According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event. No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 07 Dec 2021. After the investigation, the exceedance on 03 Dec 2021 at F1A is deemed to be unrelated to the Project.

Monitoring photos of stations with exceedance F1A:

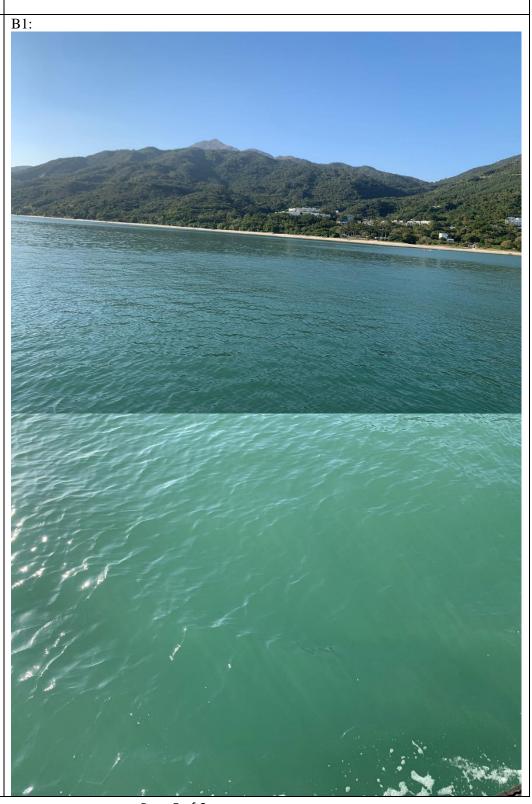


According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.

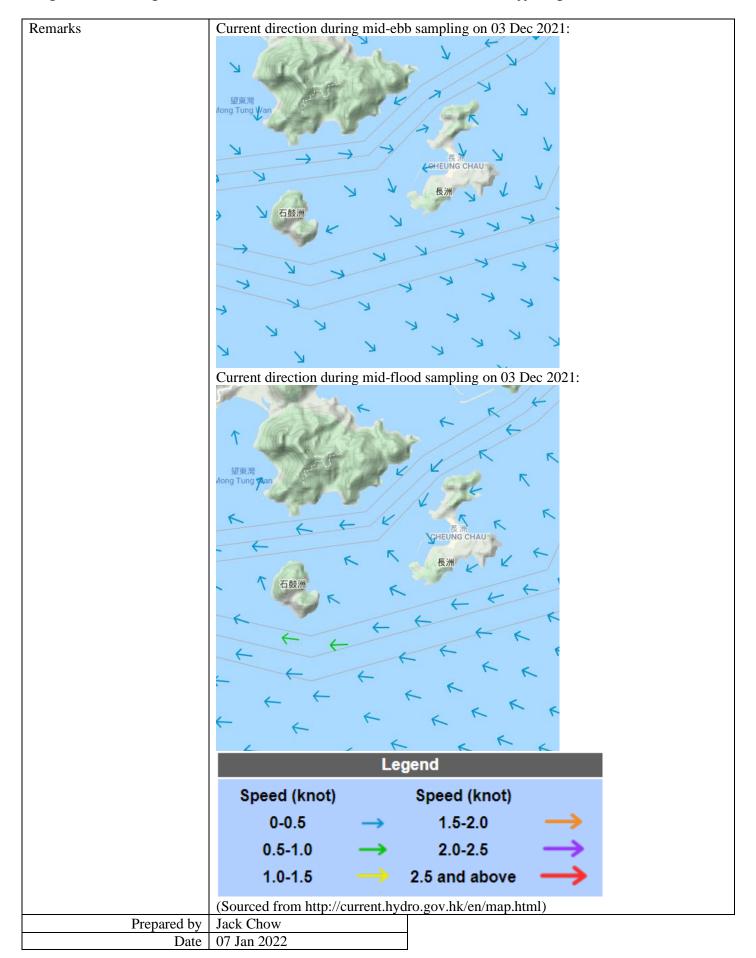
No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 07 Dec 2021.

After the investigation, the exceedance on 03 Dec 2021 at B1 is deemed to be unrelated to the Project.

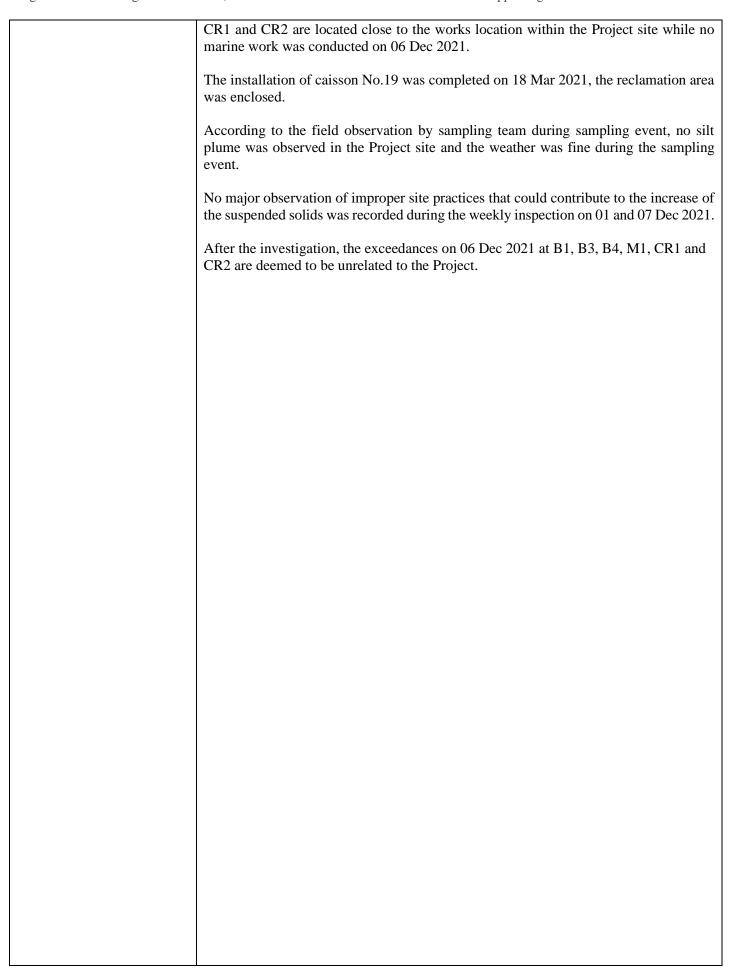
Monitoring photos of stations with exceedance



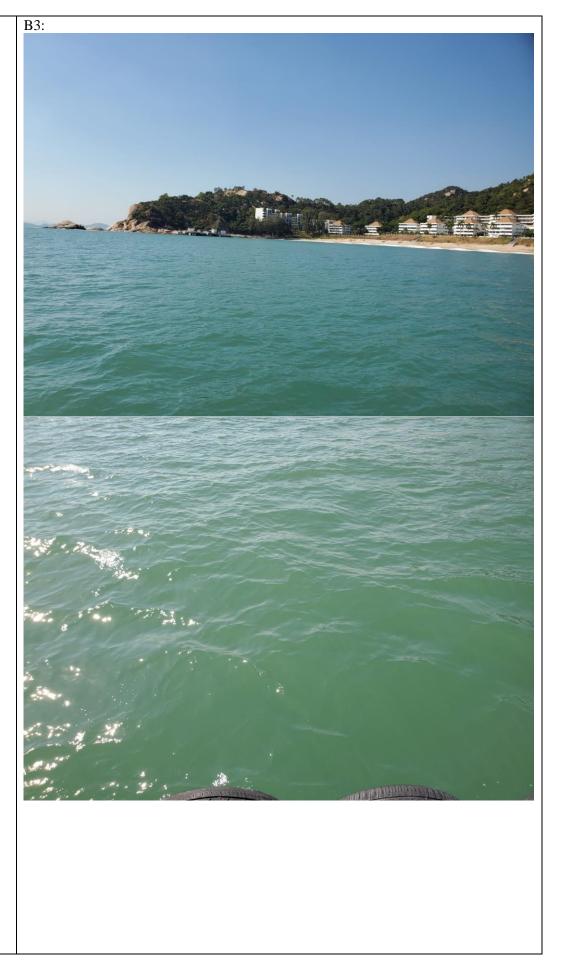
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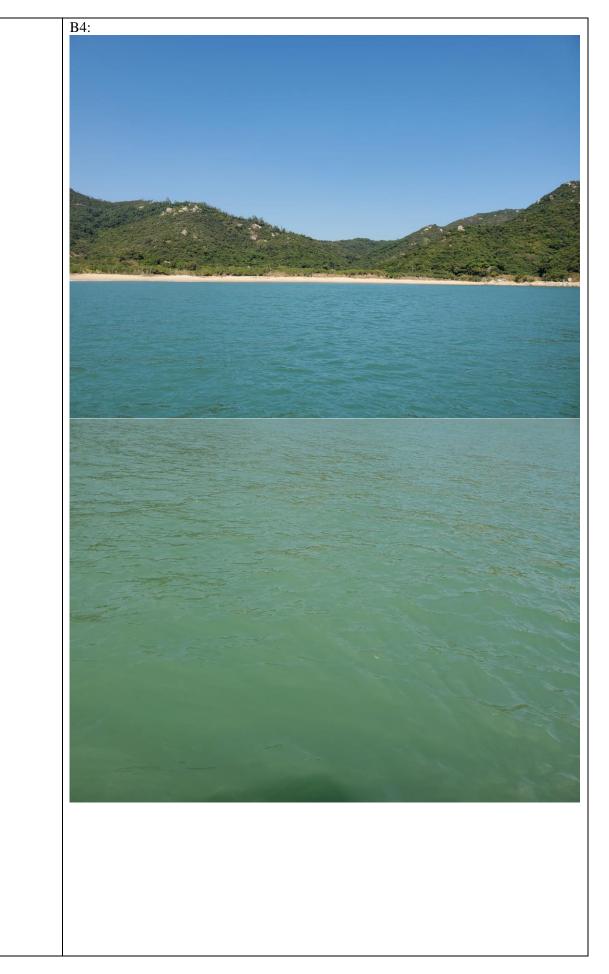


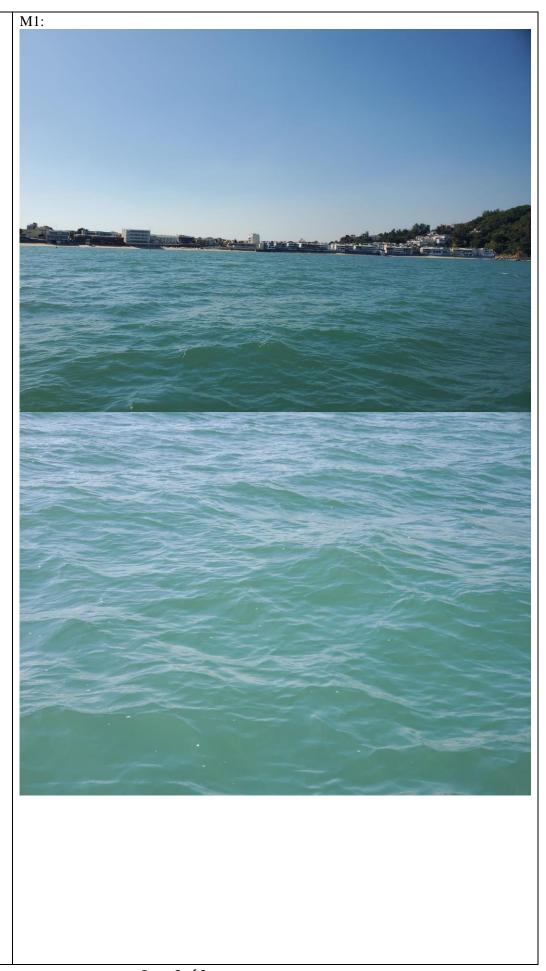
Project	Integrated Waste Management Facilities, Phase 1		
Date	06 Dec 2021 (Lab result received on 13 Dec 2021)		
Time	12:22 – 15:52 (Mid-Ebb)		
	Mid-F	Ebb	
Monitoring Location	B1, B3, B4, M1, CR1, CR2 B1 B1 C1A	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 H1 SHEK KWU CHAU CR2 FROPOSED RECLAIMED AREA FOR THE IMMIF	F1A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE WMF SITE BOUNDARY
Donomoton	Cuspended Calid (CC)		
Parameter	Suspended Solid (SS)	T * ', T	1
Action & Limit Levels	Action Level	Limit Lev	
	≥ 8.0 mg/L	$\geq 10.0 \text{ mg}$	
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without
	Exceedance		Exceedance
	9.8 mg/L (B1)	5.2 mg/L (C1A)	7.0 mg/L (B2)
	9.0 mg/L (B3)	5.0 mg/L (C2A)	5.2 mg/L (F1)
	11.5 mg/L (B4)		6.8 mg/L (H1)
	8.5 mg/L (M1)		
	8.7 mg/L (CR1)		
	8.5 mg/L (CR2)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 06 Dec 2021 include Laying 1 T armour rock st Seawall A, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension and armour scour protection. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of action level were found at B1, B3, M1, CR1 and CR2. Exceedances of limit level was found at B4. B1, B3, B4 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations		
	are deemed to be unrelated to the Project.		



Monitoring photos of stations with exceedance B1:

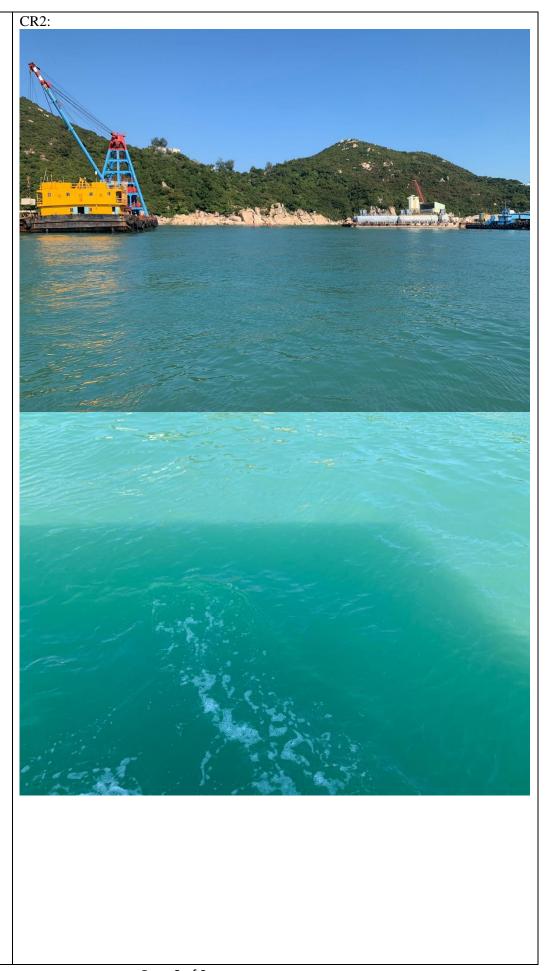




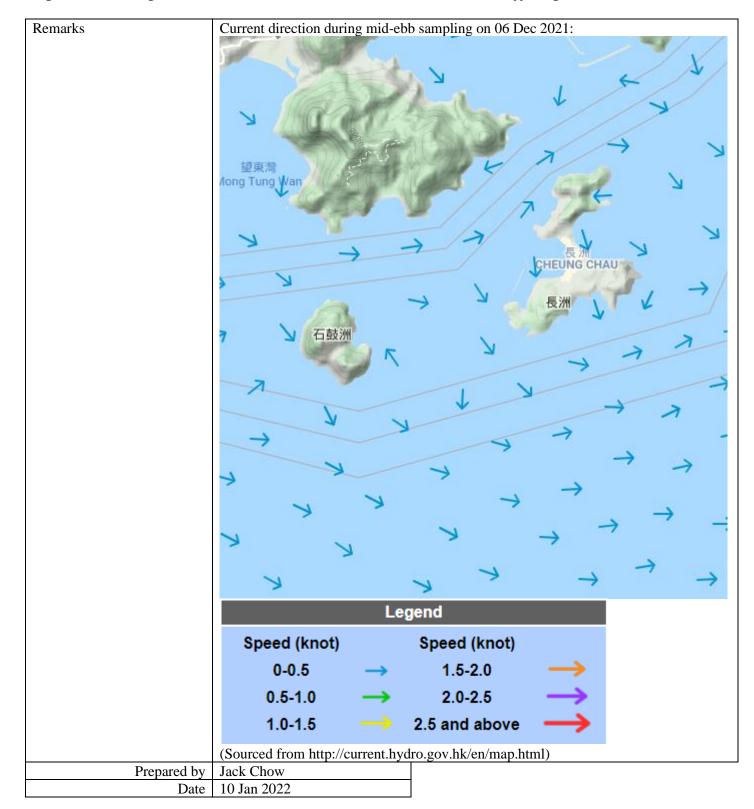


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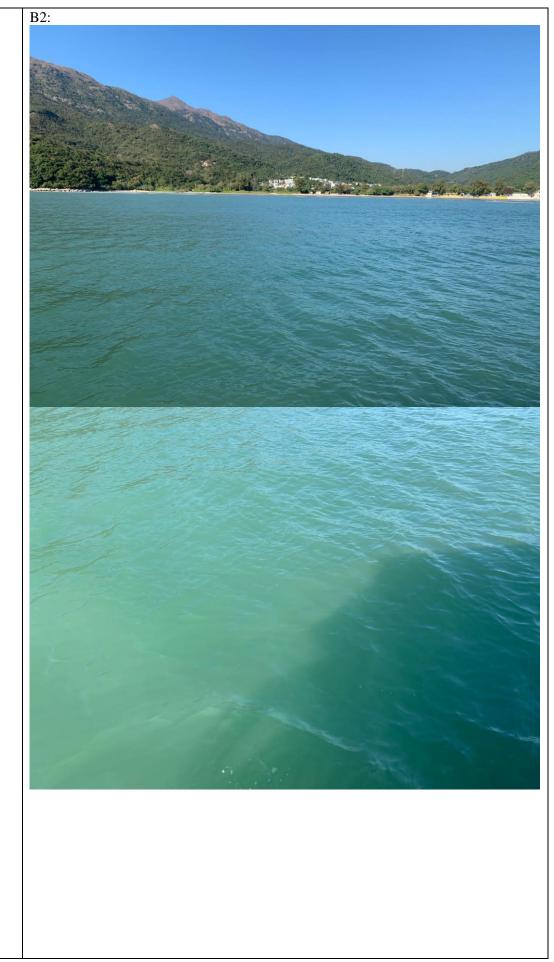
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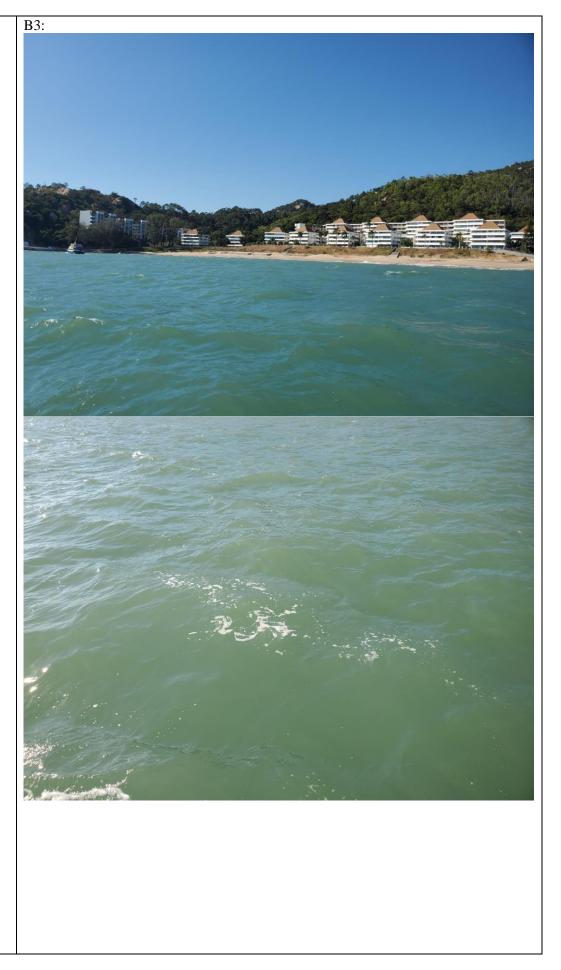


Project	Integrated Waste Management Facilities, Phase 1			
Date	08 Dec 2021 (Lab result received on 15 Dec 2021)			
Time	14:18 – 16:54 (Mid-Ebb)			
	08:50 – 12:20 (Mid-Flood)			
	Mid-Ebb			
Monitoring Location	B1, B2, B3, B4, M1, CR1 and			
	+ B1 > S1-	PROPOSED OUTFALL + SZA 4 PROPOSED 132KV SUBMARRINE CABLES B3 H1 SHEK KWU CHAU CR2 S3 CR1	F1A N F1A N P1A N N N N N N N N N N N N N	
D	0 1 10 1:1 (00)			
Parameter	Suspended Solid (SS)		· · · · · · ·	
Action & Limit Levels	Action Level		imit Levels	
	$\geq 11.2 \text{ mg/L } (120\% \text{ of C1A})$		L (130% of C1A)	
Measurement Level	Impact Station(s) of	Measurement Level	Impact Station(s) without	
	Exceedance	0.2 7 (01.4)	Exceedance	
	15.5 mg/L (B1)	9.3 mg/L (C1A)	9.8 mg/L (F1)	
	13.8 mg/L (B2)	10.2 mg/L (C2A)	11.0 mg/L (H1)	
	15.8 mg/L (B3)			
	14.0 mg/L (B4)			
	22.2 mg/L (M1)			
	12.5 mg/L (CR1)			
	24.2 mg/L (CR2)			
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 08 Dec 2021 include leveling of 500kg armour rock at Breakwater B CH60 - CH150, leveling of underlayer rock at BWA CH900 - CH930, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of limit level were found at B1, B2, B3, B4, M1, CR1 and CR2.			

B1, B2, B3, B4 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR2 is located within the Project site while no marine work was conducted on 08 Dec 2021. The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed. According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event. No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 14 Dec 2021. After the investigation, the exceedances on 08 Dec 2021 at B1, B2, B3, B4, M1, CR1 and CR2 are deemed to be unrelated to the Project.

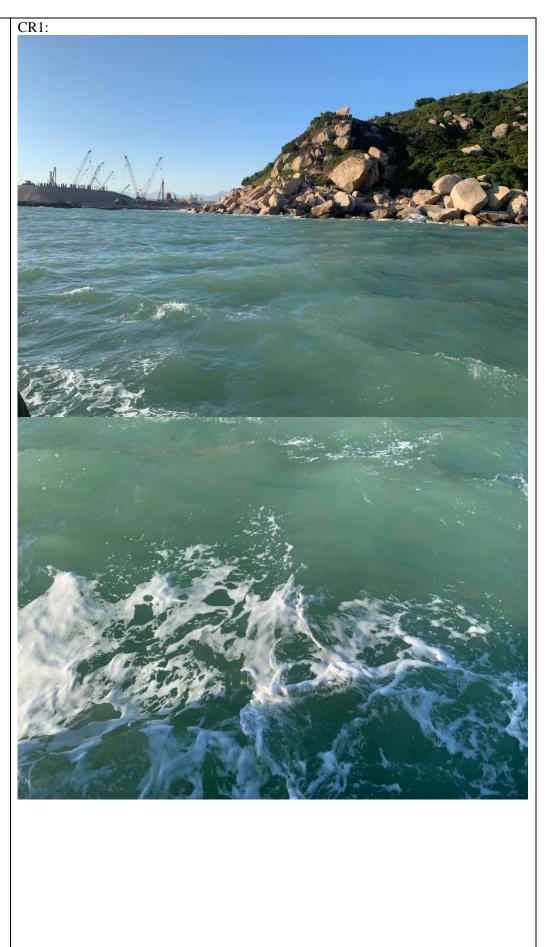
Monitoring photos of stations with exceedance B1:

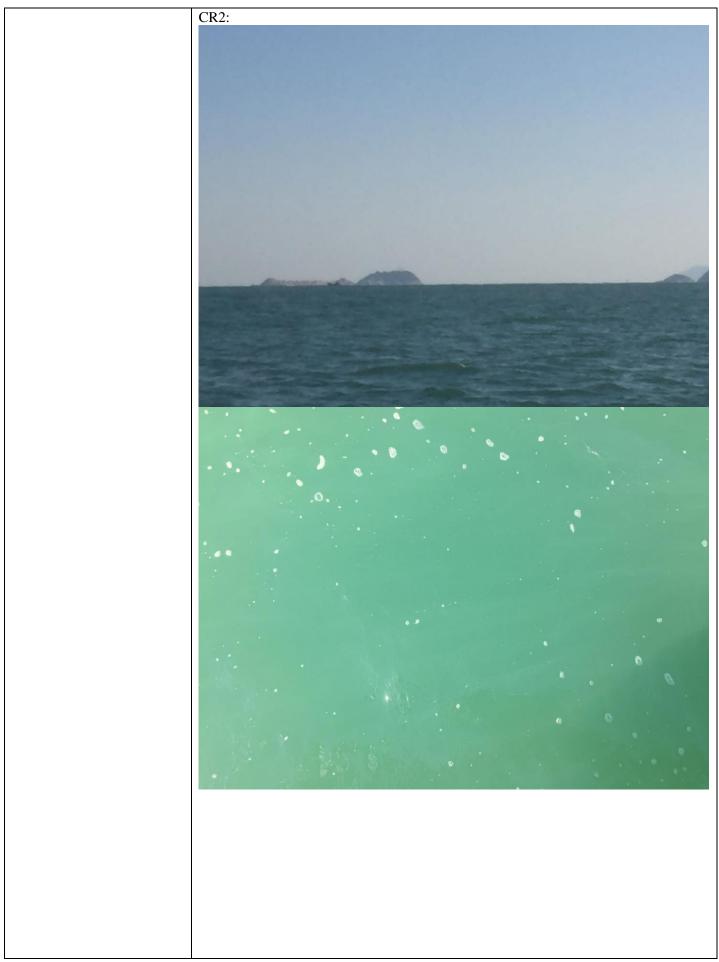


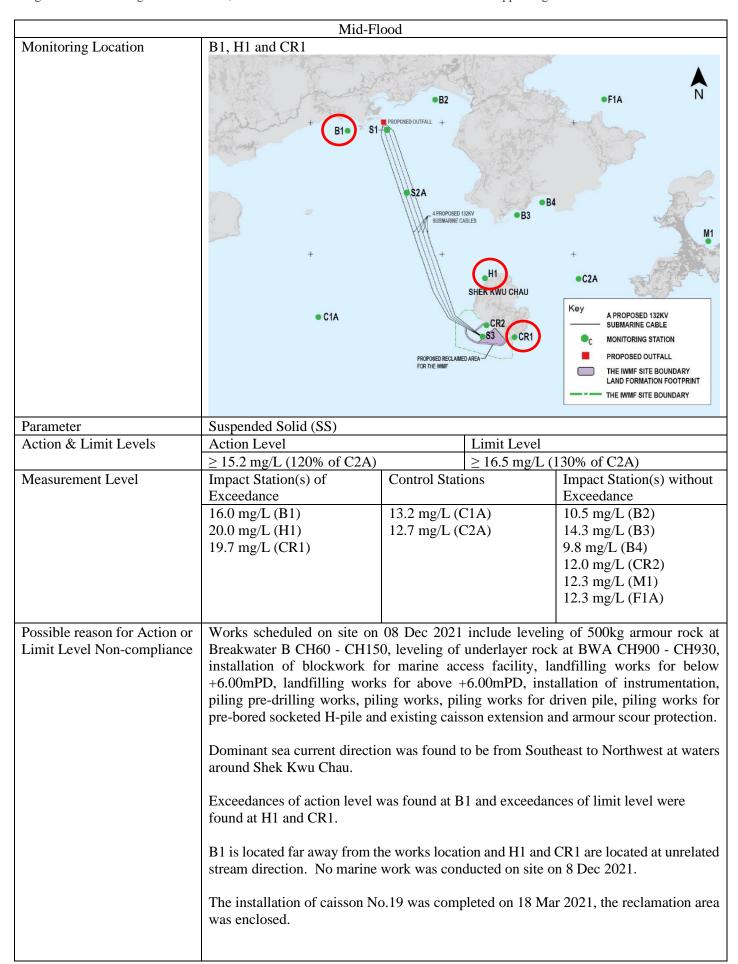




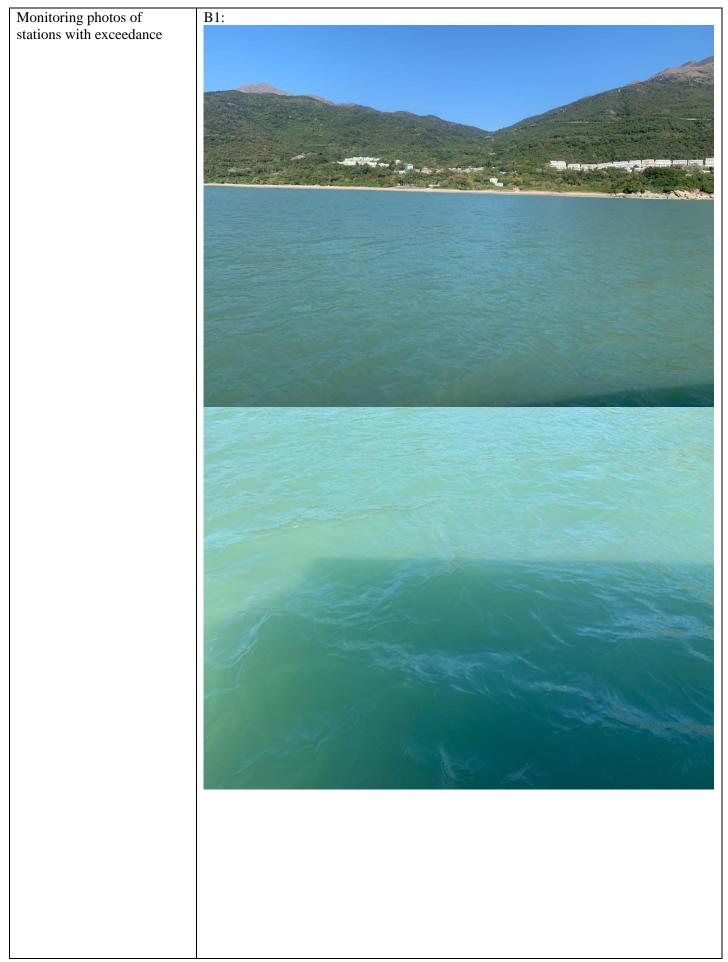


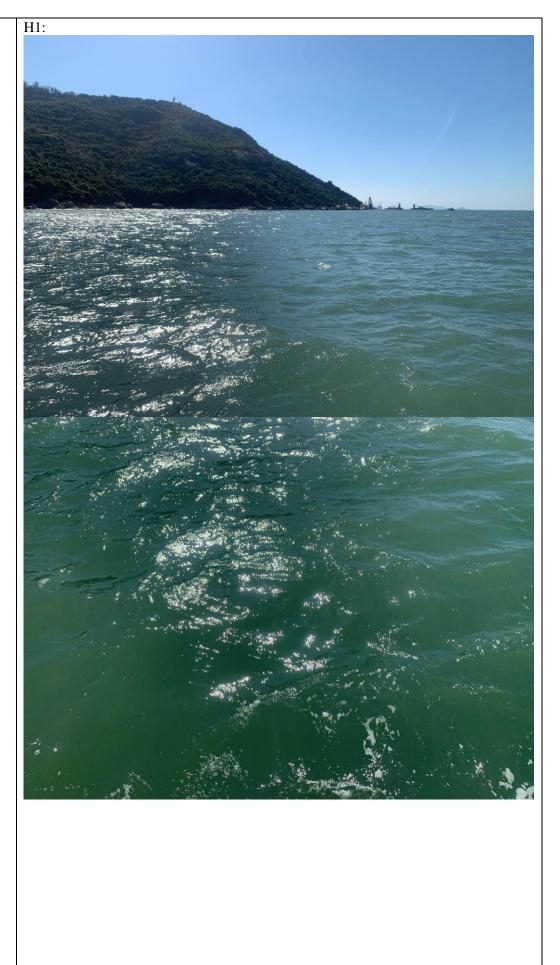


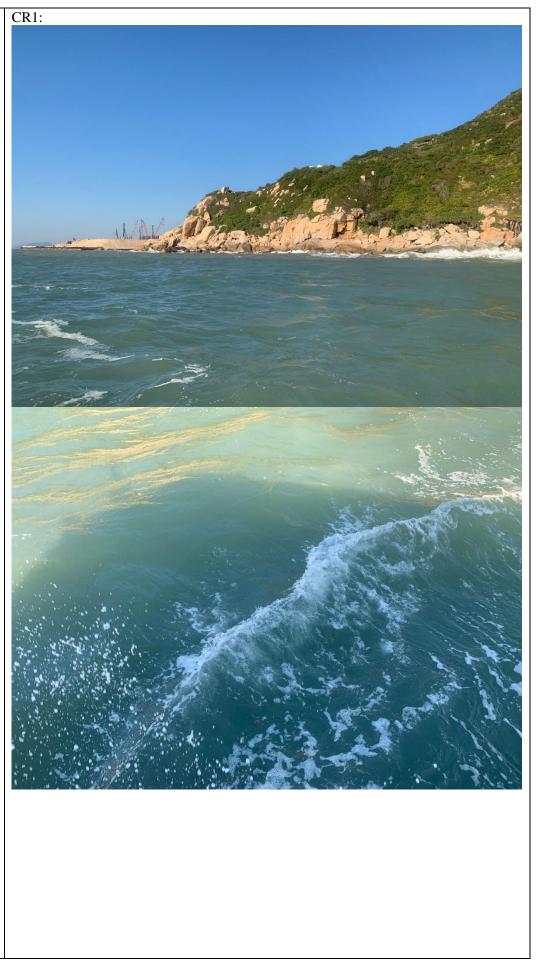


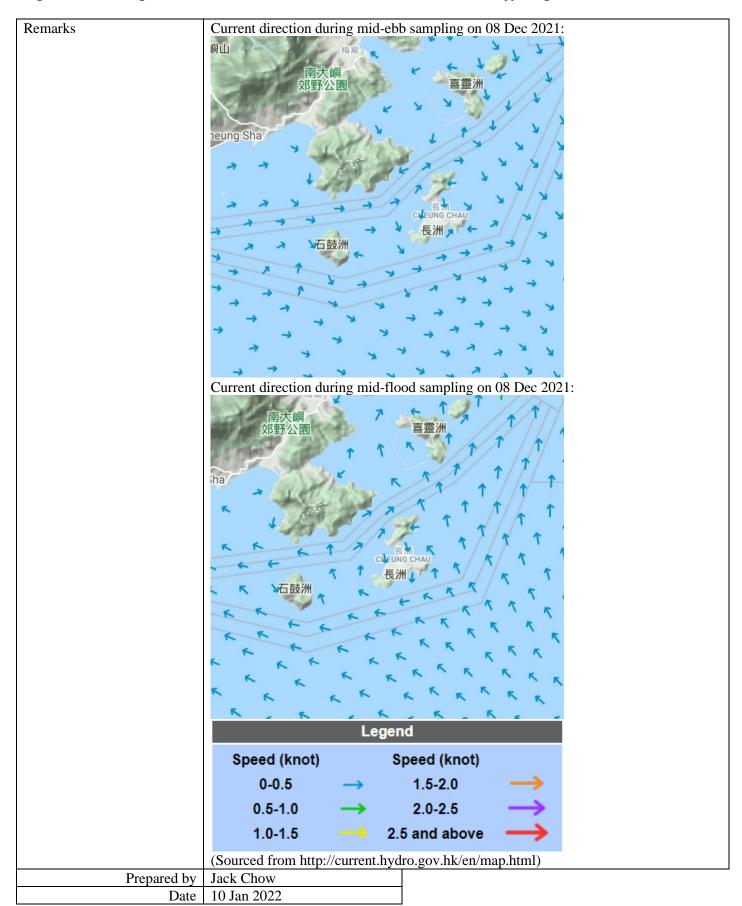


According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly inspection on 14 Dec 2021.
After the investigation, the exceedances on 08 Dec 2021 at B1, H1 and CR1 are deemed to be unrelated to the Project.





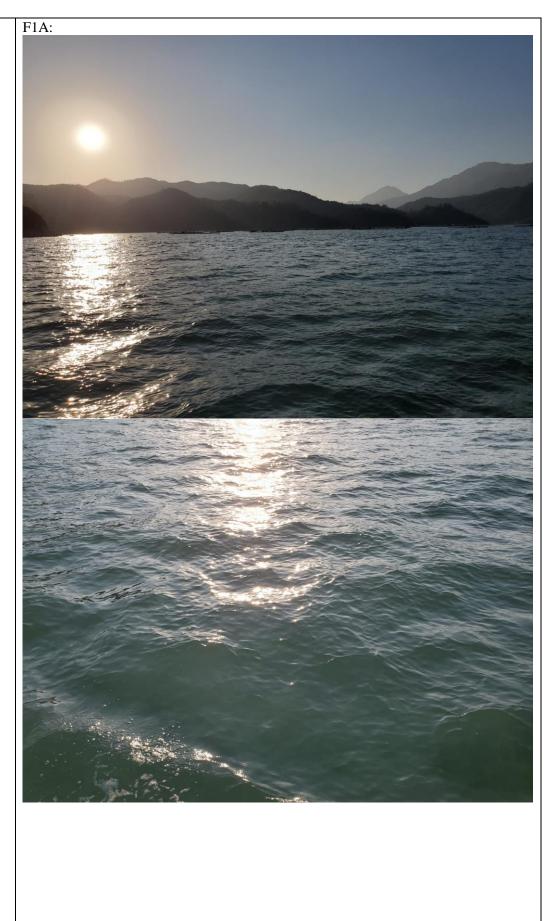


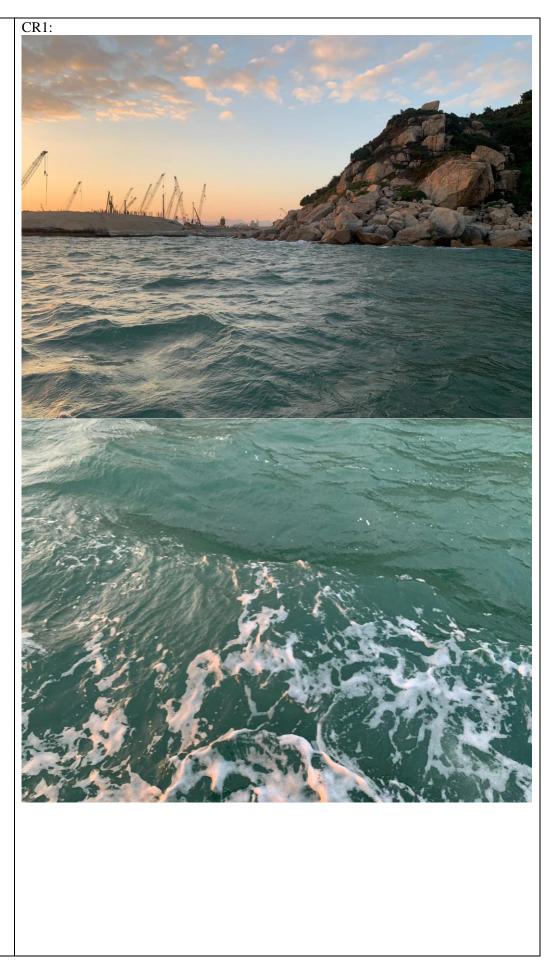


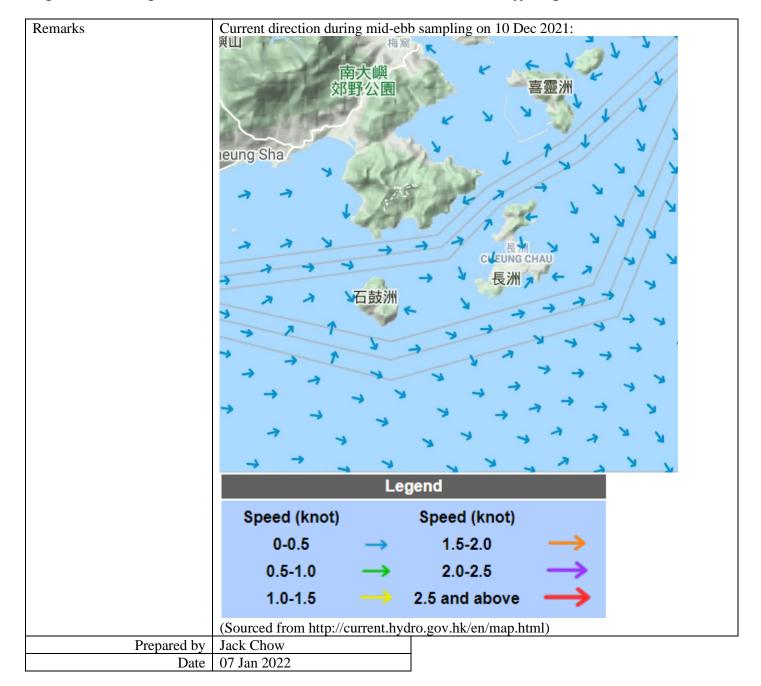
Project	Integrated Waste Management Facilities, Phase 1					
Date	10 Dec 2021 (Lab result received on 16 Dec 2021)					
Time	15:45 – 19:00 (Mid-Ebb)					
	Mid-Ebb					
Monitoring Location	F1A, CR1 B10 S1-	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES H1 SHEK KWU CH PROPOSED RECLAIMED AREA FOR THE IMMF	RAU Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE WMF SITE BOUNDARY			
Parameter	Suspended Solid (SS)					
Action & Limit Levels	Action Level	Limit L	evel			
	$\geq 11.2 \text{ mg/L (C1A of 120\%)}$		ng/L (C1A of 130%)			
Measurement Level	Impact Station(s) of Exceedance 12.2 mg/L (F1A) 11.2 mg/L (CR1)	Control Stations 9.3 mg/L (C1A) 11.0 mg/L (C2A)	Impact Station(s) without Exceedance 9.8 mg/L (B1) 7.0 mg/L (B2) 8.0 mg/L (B3) 7.5 mg/L (B4) 8.8 mg/L (H1) 5.5 mg/L (M1) 5.5 mg/L (CR2)			
Possible reason for Action or Limit Level Non-compliance	Breakwater B CH60 - CH15 CH440, installation of Caiss facility, landfilling works for installation of instrumentation driven pile, piling works for armour scour protection.	50, laying of 900kg arn son 49K1, installation below +6.00mPD, land: n, piling pre-drilling wo pre-bored socketed H-p	leveling of 500kg armour rock at mour rock at Seawall A CH320 - of blockwork for marine access filling works for above +6.00mPD, orks, piling works, piling works for bile, existing caisson extension and in Northwest to Southeast at waters			

An exceedance of action level was found at CR1 and an exceedance of limit level was found at F1A. F1A is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedance at this monitoring station is deemed to be unrelated to the Project. CR1 is located within the Project site while no marine work was conducted on 10 Dec 2021. The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed. According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event. No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 14 Dec 2021. After the investigation, the exceedances on 10 Dec 2021 at F1A and CR1 are deemed to be unrelated to the Project.

Monitoring photos of stations with exceedance



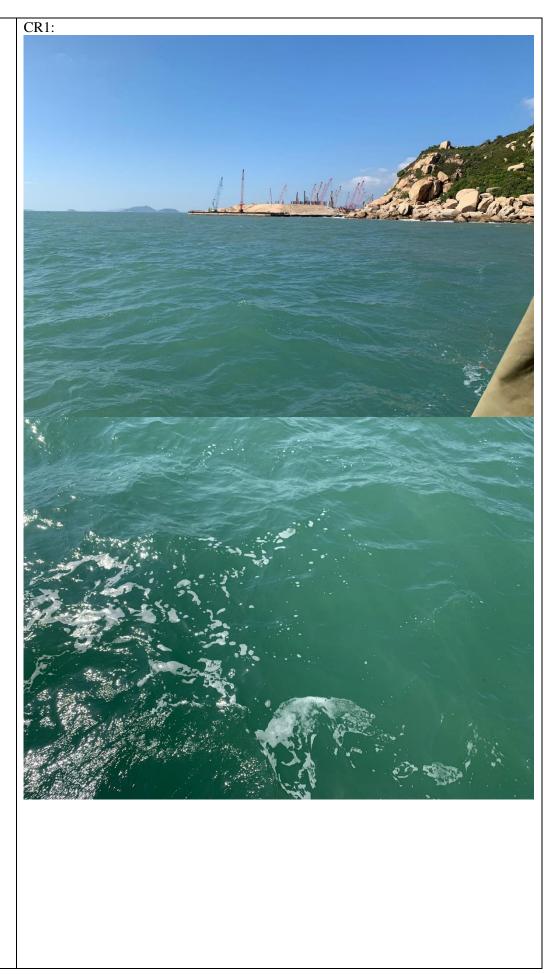




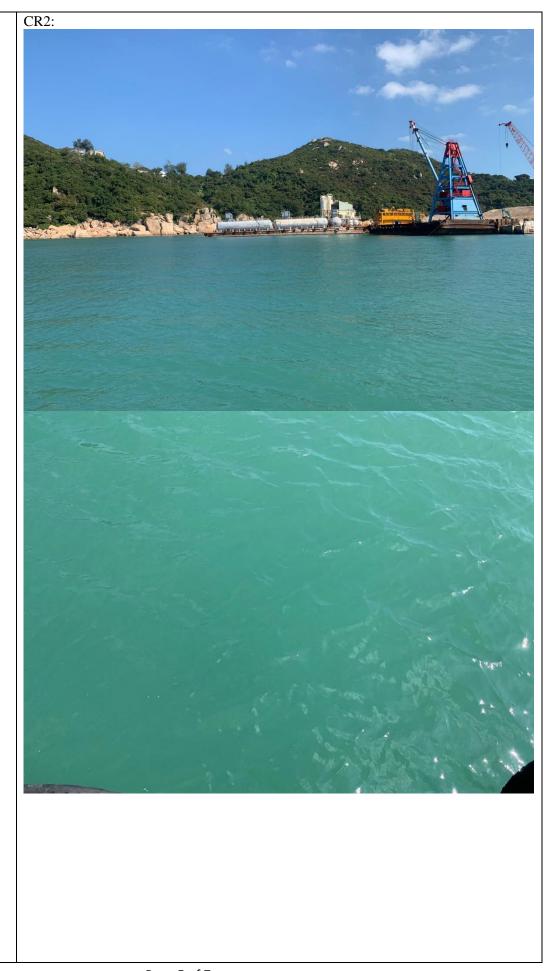
Project	I or Limit Level Non-compliance Integrated Waste Management Facilities, Phase 1					
Date	10 Dec 2021	it i dellities, i i	ilase 1			
Time	10:34 – 14:04 (Mid-Flood)					
Time	Mid-Flood					
Monitoring Location	H1, CR1 and CR2 B1 S1	PROPOSED OUTFALL + PROPOSED RECLAIME FOR THE IMMIF	H1 SHEK KWU CHAU CR2 CR1	F1A N F1A N F1A N N A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY		
Parameter	Dissolved oxygen (DO)					
Action & Limit Levels	Action Level		Limit Level			
Action & Limit Levels	≤ 7.13 mg/L		≤ 4 mg/L			
Measurement Level	Impact Station(s) of Exceedance	Control Stati		Impact Station(s) without Exceedance		
	6.29 mg/L (H1) 6.45 mg/L (CR1) 6.22 mg/L (CR2)	7.59 mg/L (C1A) 6.61 mg/L (C2A) 8.24 mg/L (B1) 8.12 mg/L (B2) 8.03 mg/L (B3) 8.15 mg/L (B4) 7.49 mg/L (F1A) 7.45 mg/L (M1)				
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 10 Dec 2021 include leveling of 500kg armour rock at Breakwater B CH60 - CH150, laying of 900kg armour rock at Seawall A CH320 - CH440, installation of Caisson 49K1, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection.					
	Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of Action level were found at H1, CR1 and CR2. CR1 and CR2 is located within the Project site and H1 is the downstream of the Project site during Flood tide while no marine work was conducted on 10 Dec 2021.					

Keppel Seghers – Zhen Hua Joint Venture The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed. According to the field observation by sampling team during sampling event, no silt plume or stain of chemical spillage was observed in the Project site and the weather was fine during the sampling event. No major observation of improper site practices that contributed to the increase of the chemical oxygen demand (COD) were recorded during the weekly inspection on 14 Dec 2021. The exceedances of Action level at location H1, CR1 and CR2 were possibly caused by the natural fluctuation in DO level. With reference to the water quality monitoring data documented Marine Water Annual Quality Report (https://www.epd.gov.hk/epd/sites/default/files/epd/english/environmentinhk/water/hk wqrc/files/waterquality/annual-report/marinereport2020.pdf) issued by EPD, the DO level of three monitoring stations (i.e. SM11, SM12 and SM13) that were adjacent to the Project site was ranged from 4.2mg/L to 8.6mg/L. The measured DO levels at monitoring stations H1, CR1 and CR2 were within the range of DO level recorded by the EPD. After the investigation, the exceedances on 10 Dec 2021 at H1, CR1 and CR2 are deemed to be unrelated to the Project.

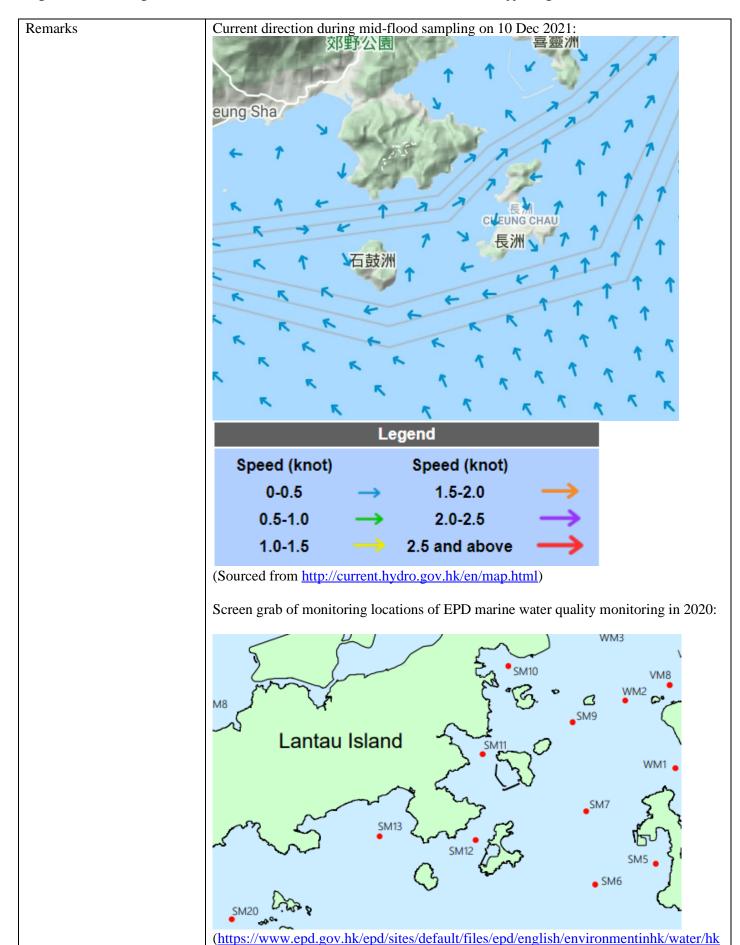
Monitoring photos of stations with exceedance H1:



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wqrc/files/waterquality/annual-report/marinereport2020.pdf)

	Screen grab of monitoring of	data of EPD m	arine water o	quality mon	itoring in 20	020:	
	Summary of water quality	statistics for	the Souther	rn WCZ in 2	020 (contin	ued)	
		Lantau I	Lantau Island (East)		Lantau Island (South)		
	Parameter	SM10	SM11	SM12	SM13	SM17	
	Number of samples	8	8	8	8	8	
	Temperature (°C)	25.8	25.8	25.6	25.9	25.1	
	Tomporataio (O)	(20.6 - 29.3)	(20.8 - 29.0)	(20.6 - 29.0)	(20.5 - 29.2)	(20.1 - 29.0	
	Salinity	29.4	29.9	30.1	29.5	31.1	
	Sallility	(24.8 - 33.1)	(25.8 - 33.1)	(25.2 - 33.1)	(22.6 - 33.3)	(26.9 - 33.0	
	Dissalyed Ovygen (mg/L)	6.0	6.4	6.4	6.5	5.9	
	Dissolved Oxygen (mg/L)	(4.8 - 6.8)	(4.2 - 8.4)	(4.7 - 8.1)	(5.4 - 8.6)	(5.0 - 6.5)	
	D-#	6.0	6.4	6.3	6.6	5.8	
	Both	om (4.5 - 6.8)	(3.8 - 8.7)	(4.4 - 8.0)	(5.3 - 9.1)	(4.2 - 7.3)	
	(https://www.epd.gov.hk/ep	od/sites/default	/files/epd/er	nglish/enviro	onmentinhk		
	wqrc/files/waterquality/ann						
	q. v. morquaity/umi	Topora mu		<u>- 0. pur</u>)			
Prepared by	Joe Ho						
Date	11 Jan 2022						

Data		Integrated Waste Management Facilities, Phase 1			
Date	15 Dec 2021 (Lab result received on 21 Dec 2021)				
Time	08:07 – 11:37 (Mid-Ebb)				
	Mid-Ebb				
Monitoring Location	B1, B2, B3 and F1A				
	+ B1 S1	PROPOSED OUTFALL + PROPOSED TECLAIME FOR THE IMME	H1 SHEK KWU CHAU CR2 S3 CR1	Key A PROPOSED 132KV SUBMARINE CABLE OC MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY	
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level		Limit Level		
Action & Limit Levels					
Management	\geq 9.2 mg/L (120% of C1A)	C	$\geq 10.0 \text{ mg/L}$	Towns of Charles (a) social and	
Measurement Level	Impact Station(s) of	Control Stati	ons	Impact Station(s) without	
	Exceedance	77(C)	1.4.	Exceedance	
	14.0 mg/L (B1)	7.7 mg/L (C)		6.8 mg/L (B4)	
	11.8 mg/L (B2)	6.5 mg/L (C2	2A)	7.8 mg/L (H1)	
	11.0 mg/L (B3)			8.7 mg/L (M1)	
	16.0 mg/L (F1A)			8.7 mg/L (CR1)	
				8.5 mg/L (CR2)	
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 15 Dec 2021 include infilling of G200 rock at Caisson 49K1; laying of 900kg armour rock at Seawall A (CH320 - CH440; CH660 - CH670); leveling of underlayer rock at BWA CH920 – 950, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile and existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of limit level were found at B1, B2, B3 and F1A. B1, B2, B3 and F1A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedances at these monitoring stations are deemed to be unrelated to the Project.				

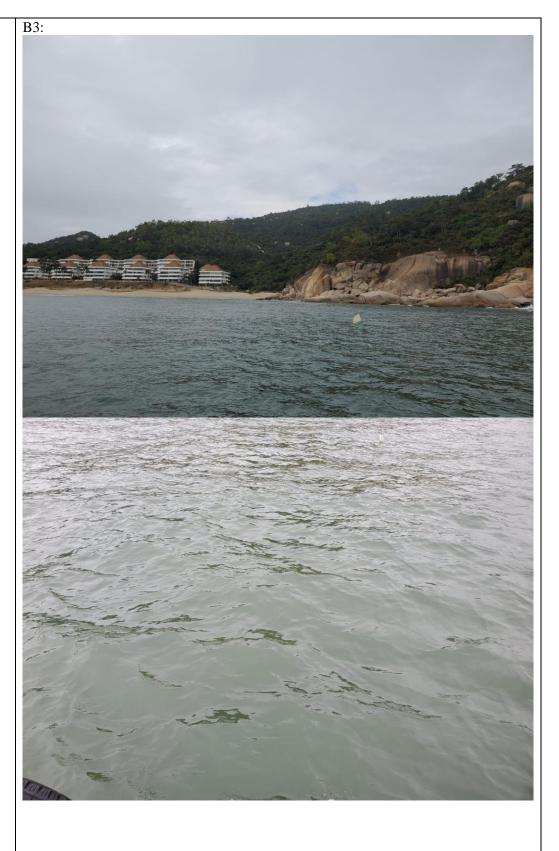
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine cloudy during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 23 Dec 2021.
After the investigation, the exceedances on 15 Dec 2021 at B1, B2, B3 and F1A are deemed to be unrelated to the Project.

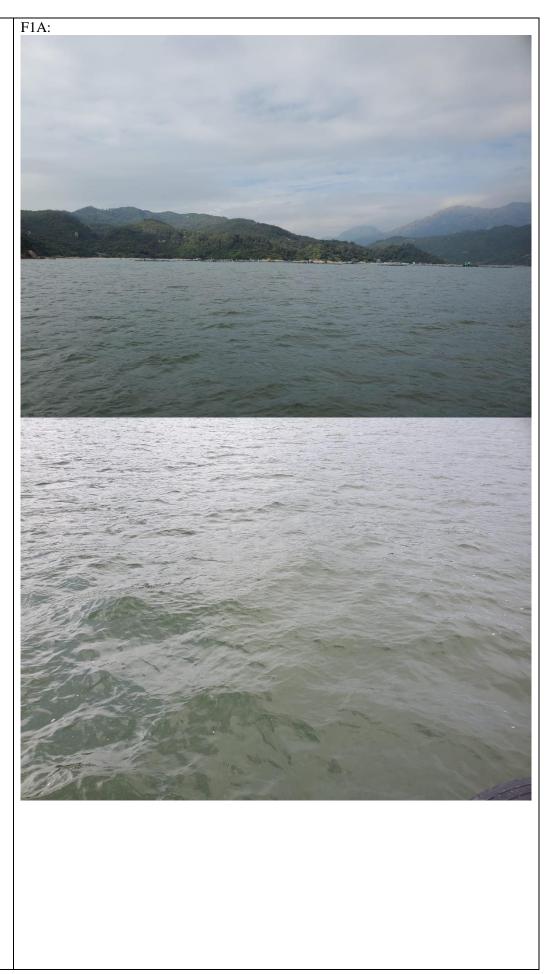
Monitoring photos of stations with exceedance





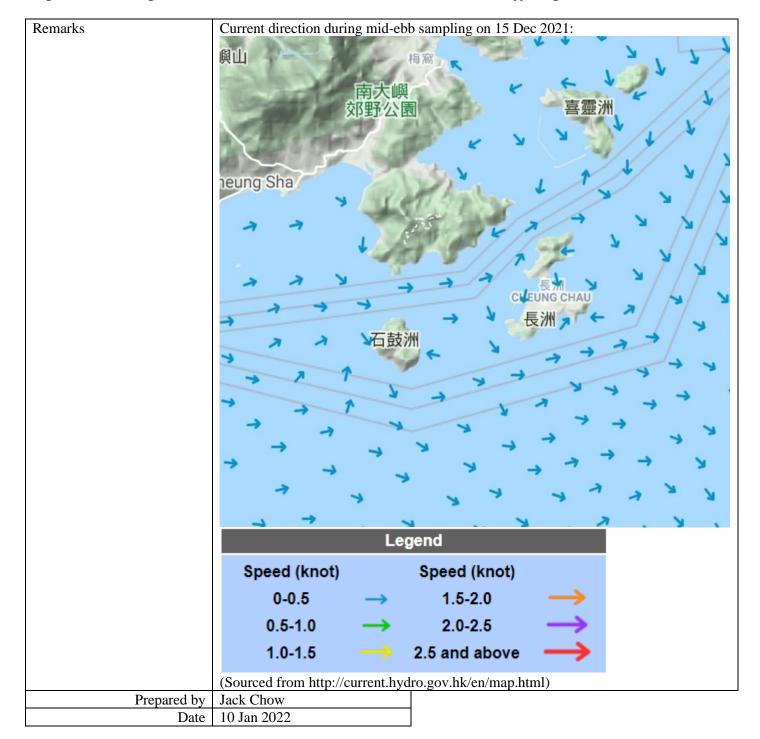
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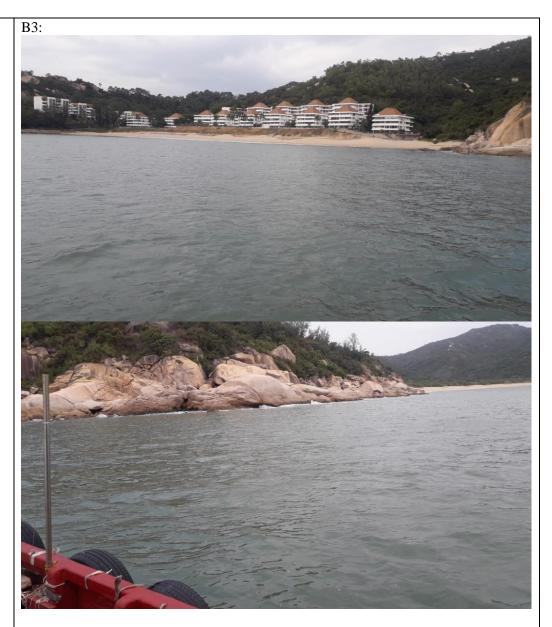
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Project	Integrated Waste Management Facilities, Phase 1				
Date	17 Dec 2021 (Lab result received on 22 Dec 2021)				
Time	09:31 – 13:01 (Mid-Ebb)				
	14:50 – 18:20 (Mid-Flood)				
	Mid-E	Ebb			
Monitoring Location	B2, B3, B4, H1, M1, CR1 and CR2				
	B2, B3, B4, H1, M1, CR1 and CR2 B1 S1 PROPOSED DUTFALL + 4 PROPOSED 132KV SUBMARNE CABLES S1 PROPOSED BECLAMED AREA FOR THE WIME B2 A PROPOSED 132KV SUBMARNE CABLE MONITORING STATION PROPOSED OUTFALL THE WIME SITE BOUNDARY LAND FORMATION FOOTPRINT THE WIME SITE BOUNDARY LAND FORMATION FOOTPRINT THE WIME SITE BOUNDARY				
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	Action & Lim	ait Levels		
retion & Emili Bevers	\geq 9.8 mg/L (120% of C1A)		120% of C1A)		
Measurement Level	Impact Station(s) of	Measurement Level	Impact Station(s) without		
1.10030201110110 =0 (01	Exceedance		Exceedance		
	10.8 mg/L (B2)	8.2 mg/L (C1A)	9.0 mg/L (B1)		
	10.0 mg/L (B3)	11.0 mg/L (C2A)	9.2 mg/L (F1A)		
	10.3 mg/L (B4)				
	10.0 mg/L (H1)				
	14.3 mg/L (M1)				
	14.3 mg/L (CR1)				
	24.3 mg/L (CR2)				
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 17 Dec 2021 include laying of 1T armour rock at Seawall A CH300 - CH350, laying of 900kg armour rock at Seawall A CH350 - CH440, leveling of underlayer rock at BWA CH920 - 950, installation of blockwork for marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. Exceedances of action level were found at B3, B4 and H1. Exceedances of limit level				
	were found at B2, M1, CR1 and CR2.				

B2, B3, B4, H1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at these monitoring stations are deemed to be unrelated to the Project. CR1 and CR2 are located close to the Project site while no marine work was conducted on 17 Dec 2021. The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed. According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was cloudy during the sampling event. No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 23 Dec 2021. After the investigation, the exceedances on 17 Dec 2021 at B2, B3, B4, H1, M1, CR1 and CR2 are deemed to be unrelated to the Project.

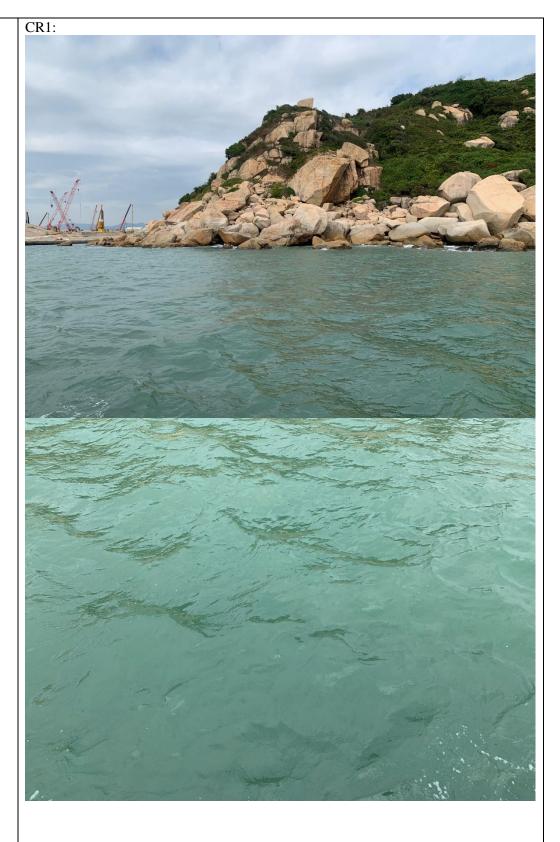
Monitoring photos of B2: stations with exceedance



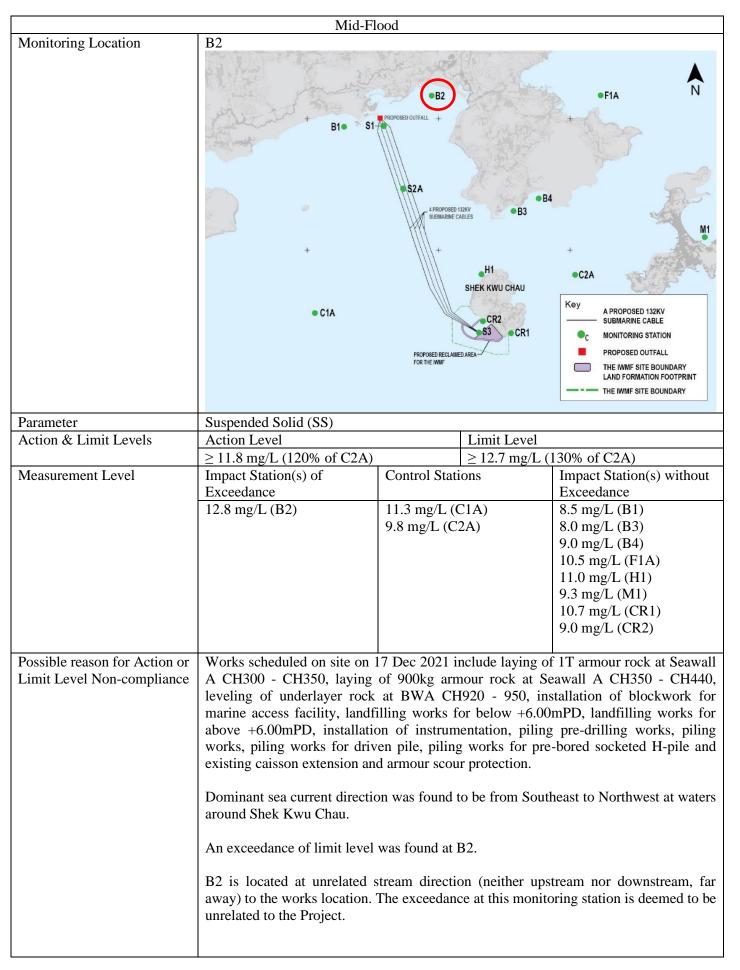


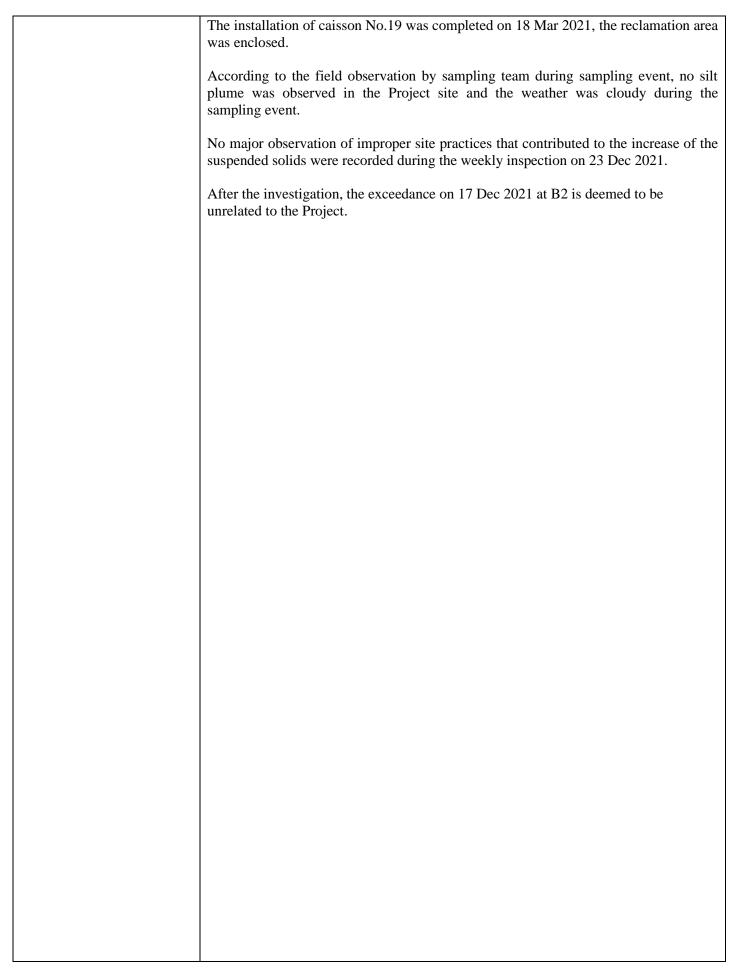




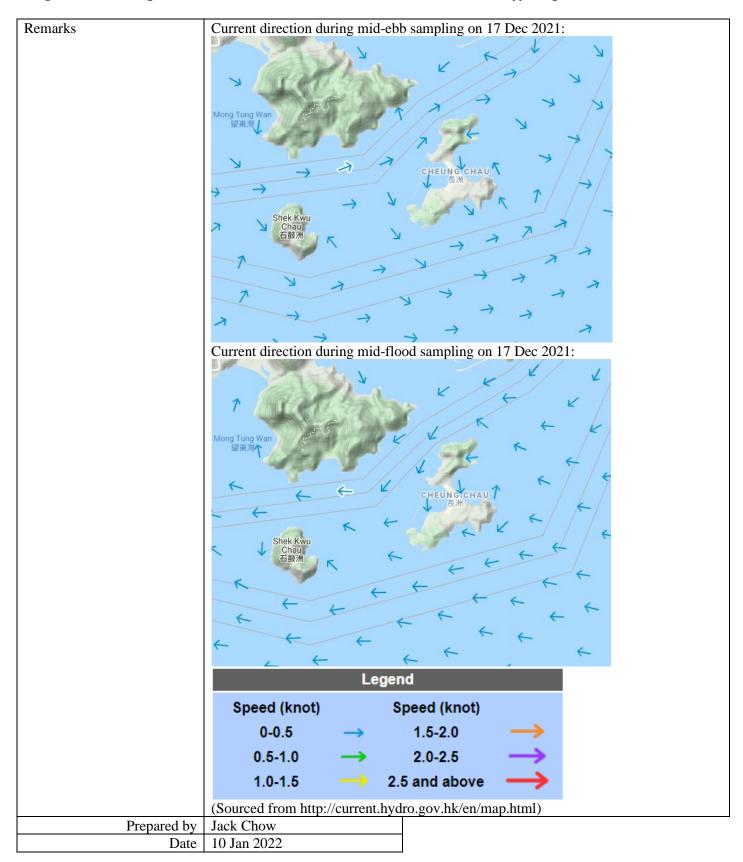






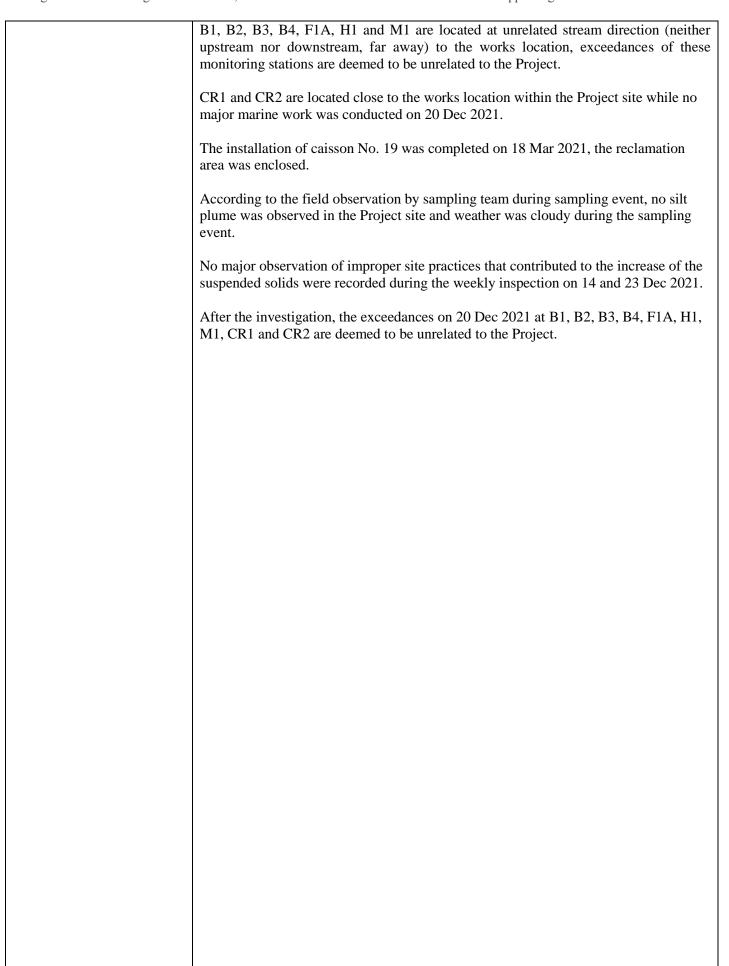


Monitoring photos of stations with exceedance B2:



Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1				
Date	20 Dec 2021 (Lab result received on 24 Dec 2021)				
Time	08:00 – 10:42 (Mid-Flood)				
Mid-Flood					
Monitoring Location	Mid-Fl B1, B2, B3, B4, F1A, H1, M B1 C1A		Key A PROPOSED 132KV SUBMARINE CABLE OC MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)		LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY		
Action & Limit Levels	Action Level	Limit Level			
	\geq 9.2 mg/L (120% of C2A)	$\geq 10.0 \text{ mg/L}$			
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
	Exceedance	10.0 7 (01.1)	Exceedance		
	13.8 mg/L (B1)	10.3 mg/L (C1A)	N/A		
	13.0 mg/L (B2)	7.7 mg/L (C2A)			
	15.0 mg/L (B3) 17.0 mg/L (B4)				
	9.5 mg/L (F1A)				
	13.7 mg/L (H1)				
	14.8 mg/L (M1)				
	17.0 mg/L (CR1)				
	15.8 mg/L (CR2)				
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 20 Dec 2021 including transferring underlayer rock, laying of underlayer rock at Breakwater B Caisson J4, installation of block work at marine access facility, landfill works for the below +6.0mPD, landfilling works for the above +6.0mPD, installation of instrumentation, piling pre-drilling works, piling works for driven pile, piling works for pre-bored socketed H-piles, existing caisson				
	extension, and armour scour protection. Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.				
	Exceedances of limit level were found at B1, B2, B3, B4, H1, M1, CR1 and CR2. An exceedance of action level was found at F1A.				



Monitoring photos of stations with exceedance B1:



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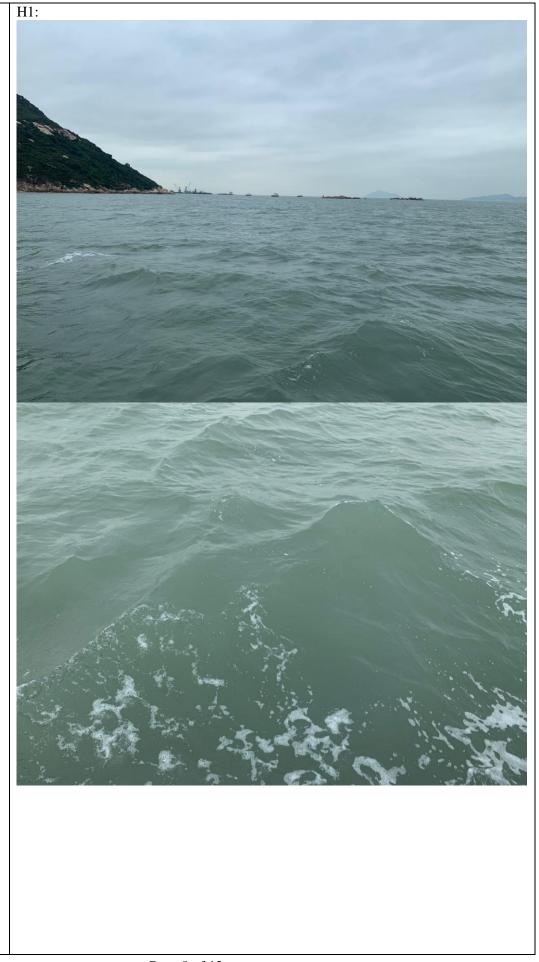
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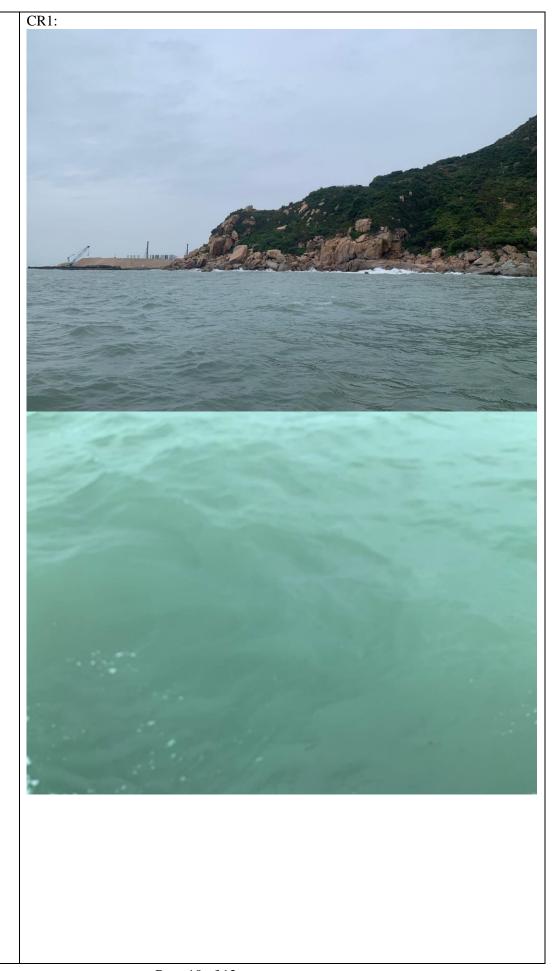
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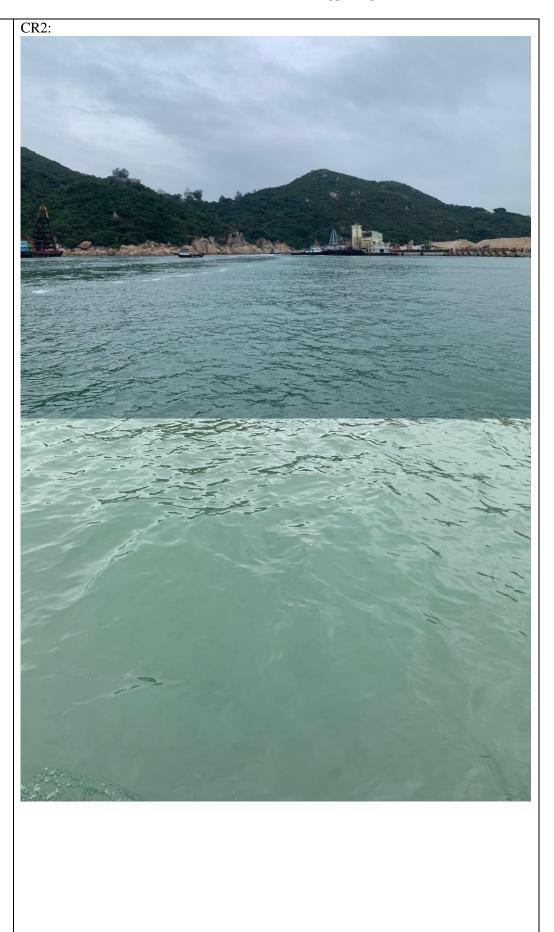


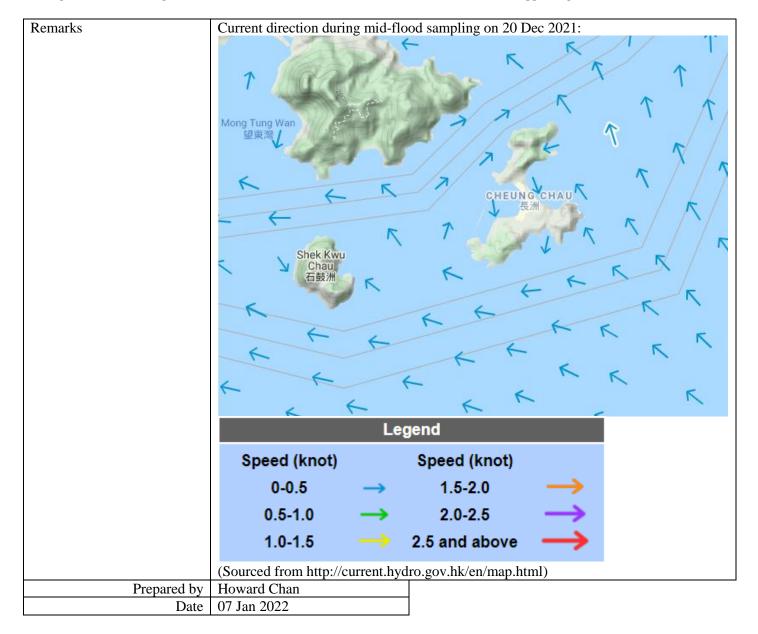
Page 8 of 12



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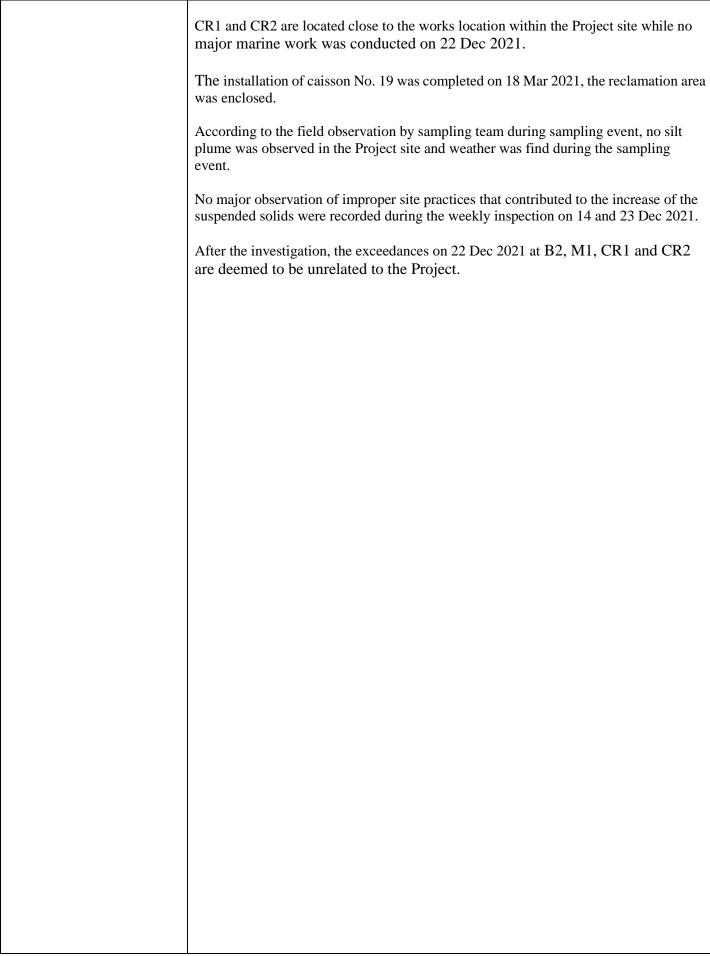






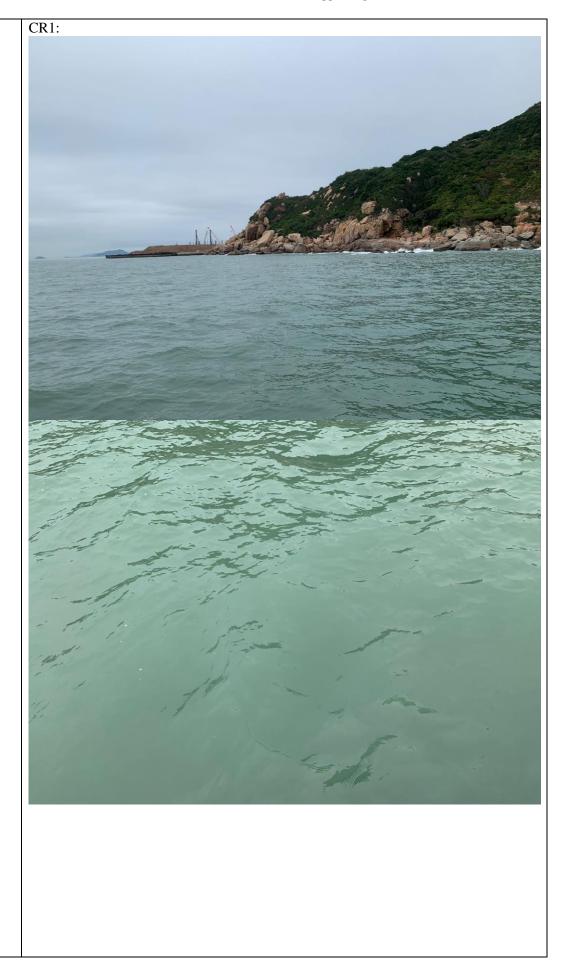
Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1					
Date	22 Dec 2021 (Lab result received on 29 Dec 2021)					
Time	12:48–14:54 (Mid-Flood)					
	Mid-Flood					
Monitoring Location	B2, M1, CR1 and CR2 B1 C1A	PROPOSED OUTFALL +	F1A N F1A N N F1A N N N N N N N N N N N N N			
Parameter	Suspended Solid (SS)		THE IWMF SITE BOUNDARY			
Action & Limit Levels	Action Level	Limit Level				
Action & Limit Levels	\geq 8.4 mg/L (120% of C2A)	$\geq 10.0 \text{ mg/L}$				
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without			
Weasurement Level	Exceedance	Control Stations	Exceedance			
	8.5 mg/L (B2)	6.3 mg/L (C1A)	5.0 mg/L (B1)			
	8.8 mg/L (M1)	7.0 mg/L (C2A)	5.5 mg/L (B3)			
	8.7 mg/L (CR1)	7.0 Hg/L (C2A)	6.3 mg/L (B4)			
	9.3 mg/L (CR2)		6.7 mg/L (F1A)			
	7.5 mg/L (CR2)		5.5 mg/L (H1)			
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 22 Dec 2021 include, levelling of 500 kg scour apron at Breakwater B, installation of layer 8 block work, levelling of underlayer rock at Breakwater A, transloading public fill from Zone C to Zone A, filling and levelling public fill at Zone J, drilling of boreholes, piling works, pre-boring works for driven H piles, landfill work for below +6.00mPD, armour scour protection and formwork erection.					
	Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.					
	Exceedances of action level v	were found at B2, M1, CR1 a	and CR2.			
	B2 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances at these monitoring stations are deemed to be unrelated to the Project.					

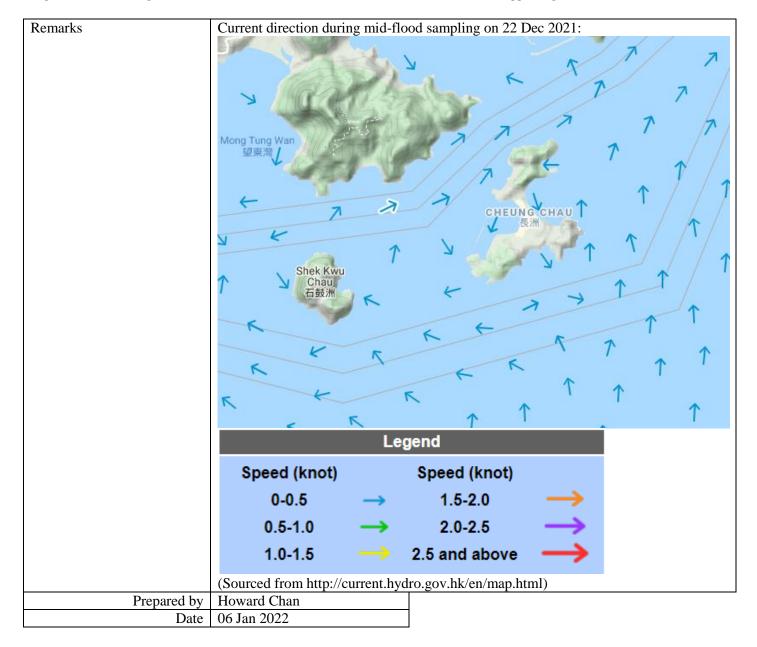


Monitoring photos of stations with exceedance B2:









Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1					
Date	24 Dec 2021 (Lab result rece					
Time	08:49 – 12:19 (Mid-Flood)					
	14:06 – 16:08 (Mid-Ebb)					
	Mid-Flood					
Monitoring Location B3, B4 and CR2						
	+ B1 S1-	PROPOSED OUTFALL + 4 PROPOSED 13 SUBMARINE CA PROPOSED RECLAIME FOR THE IMMIF	H1 SHEK KWU CHAU CR2 S3 CR1	F1A N F1A N N F1A M1 + C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)					
Action & Limit Levels	Action Level		Limit Level			
Action & Limit Levels			$\geq 10.1 \text{ mg/L}$ (2)	1200/ of C2A)		
Measurement Level	\geq 9.4 mg/L (120% of C2A) Impact Station(s) of	Control Stati		Impact Station(s) without		
ivieasurement Lever	Exceedance	Control Stations		Exceedance		
	10.0 mg/L (B3)	6.8 mg/L (C1A)		6.5 mg/L (B1)		
	9.8 mg/L (B4)	7.8 mg/L (C2		5.8 mg/L (B2)		
	10.2 mg/L (CR2)	7.6 mg/L (C2	<i>.</i> A)	7.0 mg/L (F1A)		
	10.2 llig/L (CR2)			5.0 mg/L (H1)		
				8.0 mg/L (M1)		
				7.8 mg/L (CR1)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on 24 Dec 2021 include, levelling of 500kg scour apron at Breakwater B CH60 - Ch180, laying of 100 – 150kg underlayer rock at Breakwater A CH730 – CH760, installation of block work at marine access facility, leveling of underlayer rock at Breakwater A CH940 - CH960, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD, installation of instrumentation, piling pre-drilling works, piling works, piling works for driven pipe, piling works for pre-bored socketed H-pipe, existing caisson extension, and armour scour protection.					
	Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.					
	Exceedances of action level were found at B3 and B4 and exceedance of limit level was found at CR2.					

B3 and B4 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of the monitoring station is deemed to be unrelated to the Project.

CR2 is located close to the works location within the Project site while no major marine work was conducted on 24 Dec 2021.

The installation of caisson No. 19 was completed on 18 Mar 2021, the reclamation area was enclosed.

According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and weather was fine during the sampling event.

No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 24 and 29 Dec 21.

After the investigation, the exceedances on 24 Dec 2021 at B3, B4 and CR2 are deemed to be unrelated to the Project.

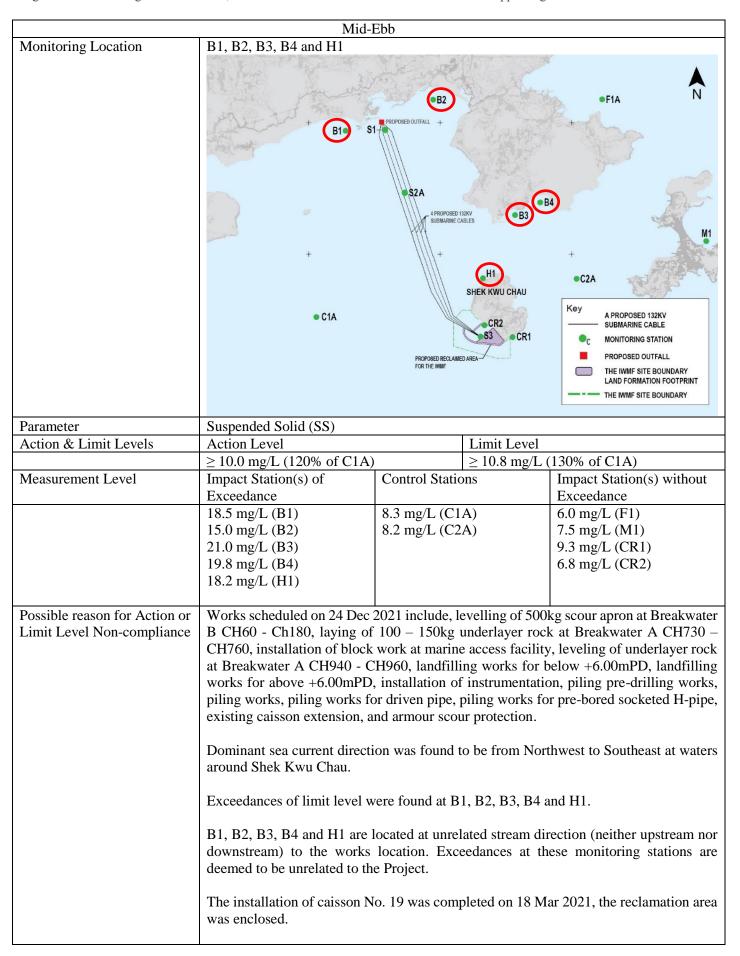
Monitoring photos of stations with exceedance





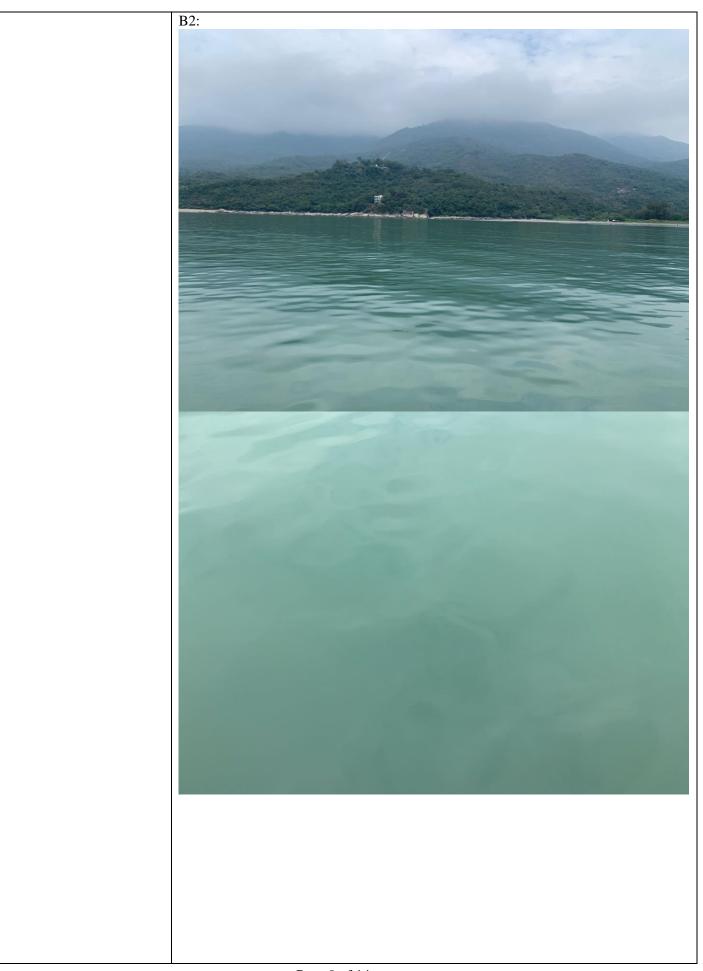
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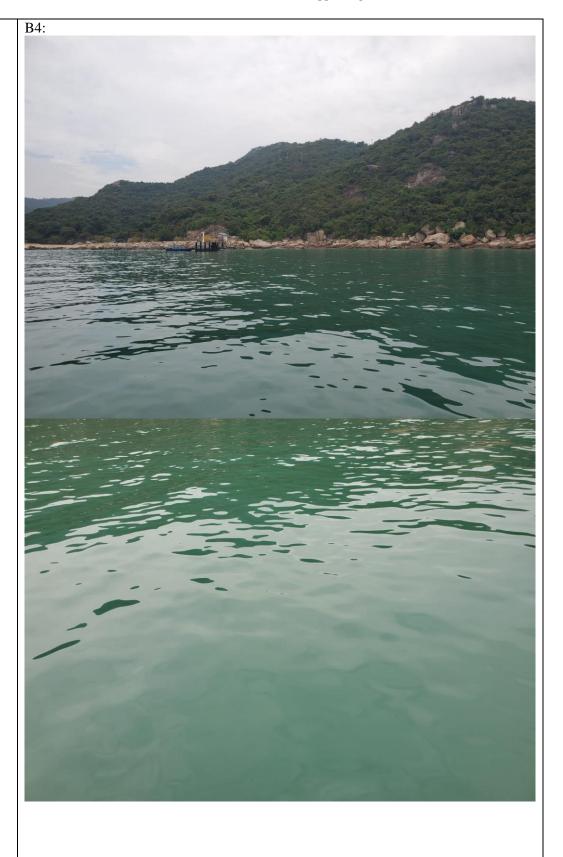


According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 24 and 29 Dec 21.
After the investigation, the exceedances on 24 Dec 2021 at B1, B2, B3, B4 and H1 are deemed to be unrelated to the Project.

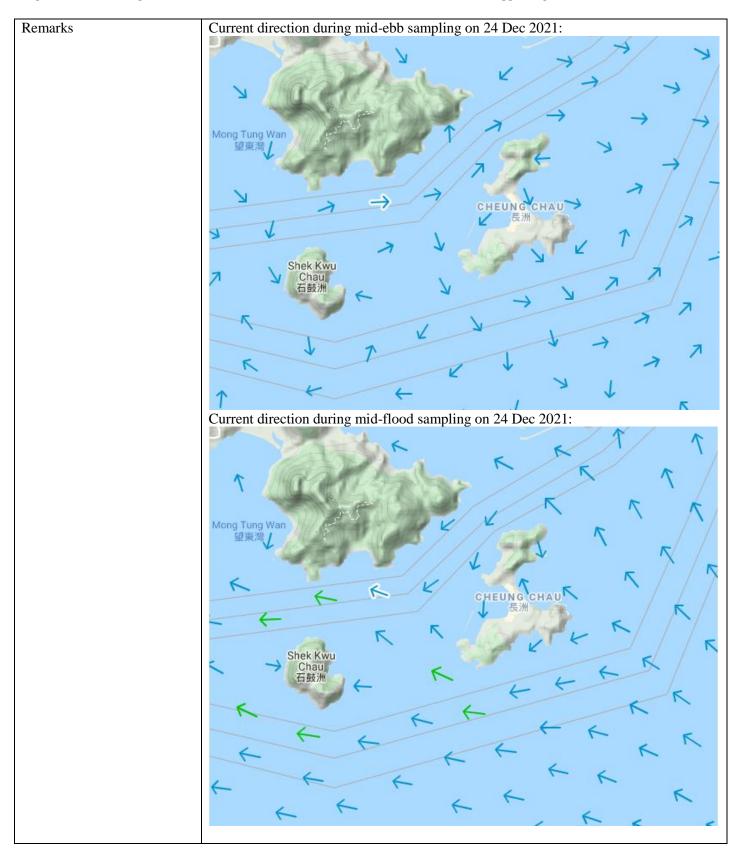
Monitoring photos of stations with exceedance B1:











	Legend				
	Speed (knot)		Speed (knot)		
	0-0.5	\rightarrow	1.5-2.0	\rightarrow	
	0.5-1.0	\rightarrow	2.0-2.5	\rightarrow	
	1.0-1.5		2.5 and above	\rightarrow	
	(Sourced from http://c	current.hy	dro.gov.hk/en/map.ht	ml)	
Prepared by	Howard Chan				
Date	11 Jan 2022	•			

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Managemen	nt Facilities, Pl	nase 1			
Date	27 Dec 2021 (Lab result rece					
Time	11:19 – 14:49 (Mid-Flood)		,			
	16:57 – 19:00 (Mid-Ebb)					
	Mid-Flood					
Monitoring Location	B3, B4 and H1					
	+ B1 • S1-	PROPOSED OUTFALL + PROPOSED A PROPOSED AS SUBMARINE CA	SHEK KWU CHAU	F1A M1 + C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)					
Action & Limit Levels	Action Level		Limit Level			
	$\geq 10.4 \text{ mg/L } (120\% \text{ of C2A})$			130% of C2A)		
Measurement Level	Impact Station(s) of	Control Stati		Impact Station(s) without		
	Exceedance			Exceedance		
	12.0 mg/L (B3)	10.2 mg/L (C	C1A)	9.0 mg/L (B1)		
	12.0 mg/L (B4)	8.7 mg/L (C2		7.0 mg/L (B2)		
	11.0 mg/L (H1)	/L (H1)		9.5 mg/L (F1A)		
				9.2 mg/L (M1)		
				9.3 mg/L (CR1)		
				7.0 mg/L (CR2)		
Possible reason for Action or Limit Level Non-compliance						
	Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. Exceedances of limit level were found at B3 and B4 and an exceedance of action level					
	was found at H1.					
	B3 and B4 are located at unrefar away) to the works location to be unrelated to the Project.	on. Exceedance		-		

H1 is the downstream of the Project site during Flood tide while no marine work was conducted on 27 Dec 2021.

The installation of caisson No. 19 was completed on 18 Mar 2021, the reclamation area was enclosed.

According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and weather was fine during the sampling event.

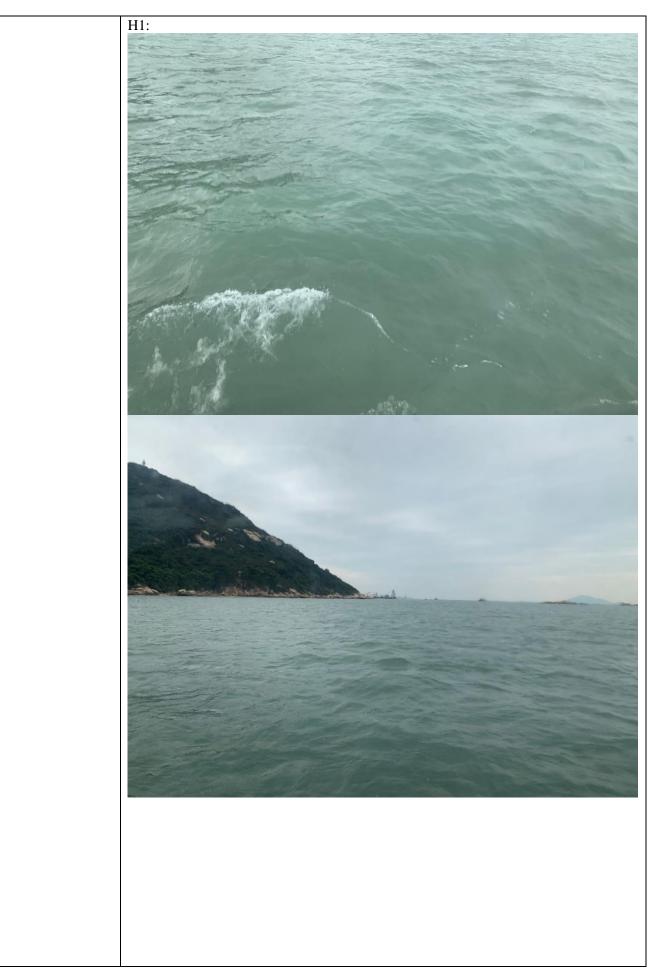
No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 24 and 29 Dec 21.

After the investigation, the exceedances on 27 Dec 2021 at B3, B4 and H1 are deemed to be unrelated to the Project.

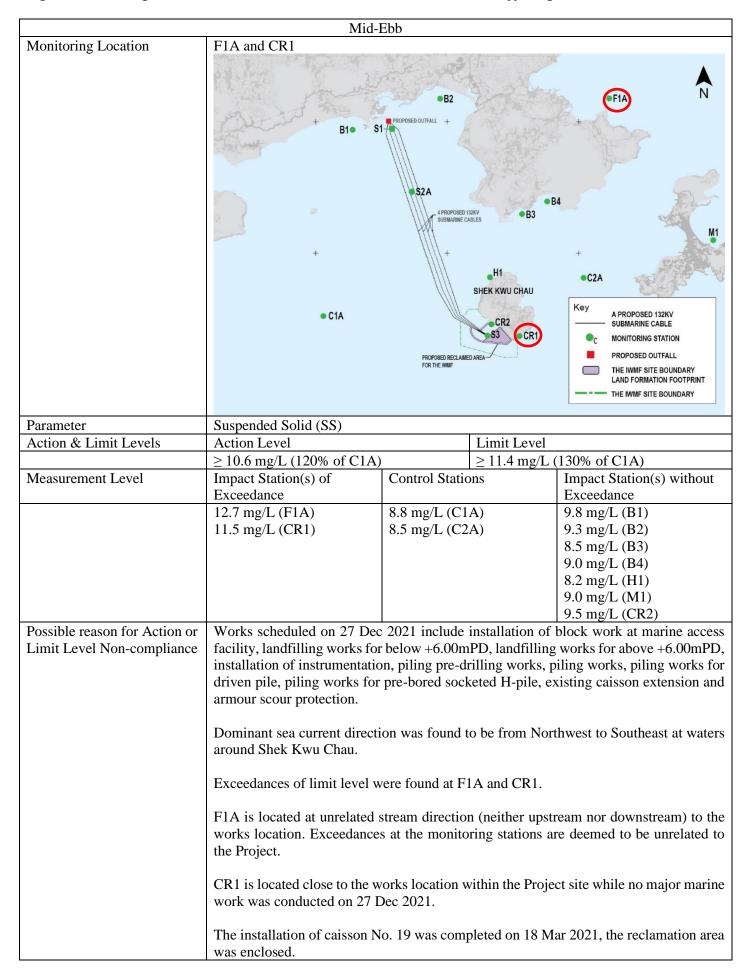
Monitoring photos of stations with exceedance







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According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 24 and 29 Dec 21.
After the investigation, the exceedances on 27 Dec 2021 at F1A and CR1 are deemed to be unrelated to the Project.

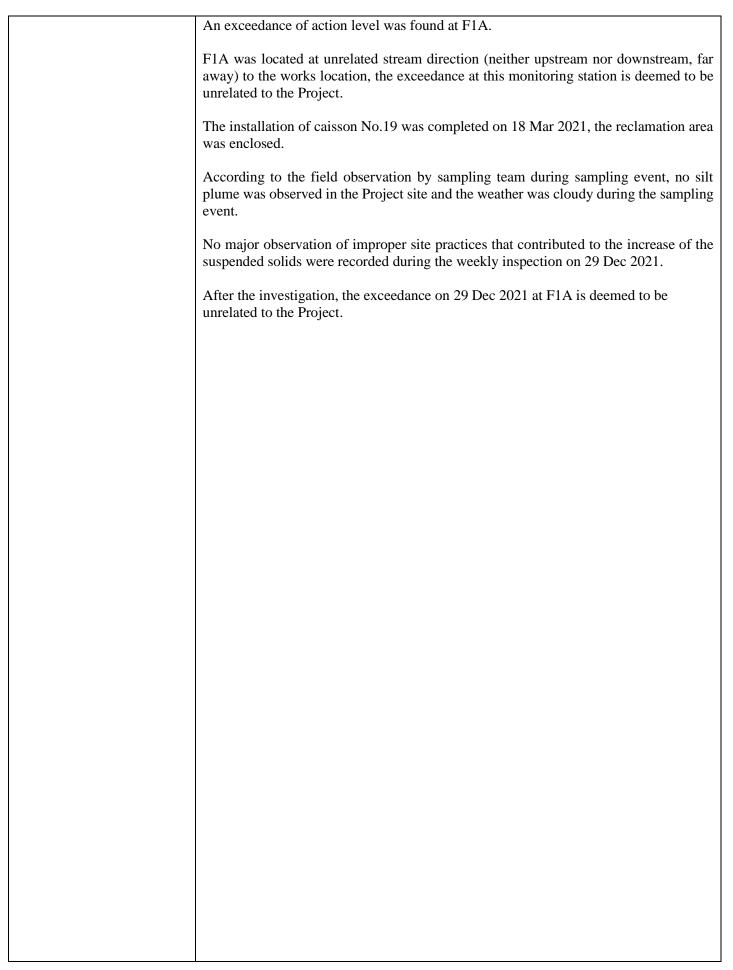
Monitoring photos of stations with exceedance F1A:

CR1: No clear photos could be taken at the site after the sunset due to the darkness of surrounding environment. Current direction during mid-flood sampling on 27 Dec 2021: Remarks Shek Kwu Chau Current direction during mid-ebb sampling on 27 Dec 2021: Mong Tung War 望東灣 / Shek Kwu Chau

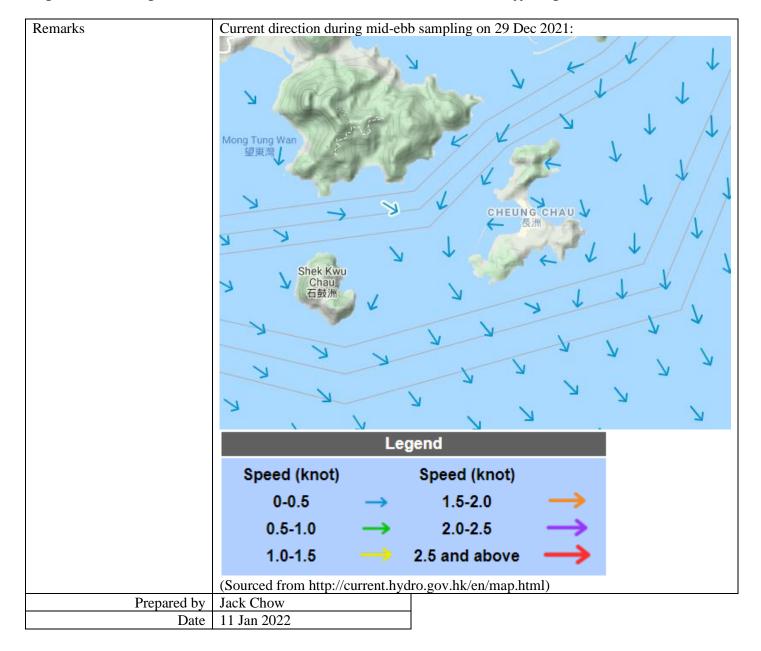
	Legend				
	Speed (knot)		Speed (knot)		
	0-0.5	\rightarrow	1.5-2.0	\rightarrow	
	0.5-1.0	\rightarrow	2.0-2.5	\rightarrow	
	1.0-1.5		2.5 and above	\rightarrow	
	(Sourced from http://c	current.hy	dro.gov.hk/en/map.ht	ml)	
Prepared by	Howard Chan				
Date	11 Jan 2022				

Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Managemen	nt Facilities, P	hase 1			
Date	29 Dec 2021 (Lab result rece	29 Dec 2021 (Lab result received on 05 Jan 2022)				
Time	08:00 – 10:42 (Mid-Ebb)					
	Mid-Ebb					
Monitoring Location	F1A B1 S1	PROPOSED OUTFALL + PROPOSED SUBMARINE OF THE IMME	H1 SHEK KWU CHAU CR2 83 CR1	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)					
Action & Limit Levels	Action Level		Limit Level			
retion & Ellint Ecvels	\geq 27.2 mg/L (120% of C1A)		\geq 29.5 mg/L (2	130% of C1A)		
Measurement Level	Impact Station(s) of	Control Stat		Impact Station(s) without		
	Exceedance			Exceedance		
	28.8 mg/L (F1A)	22.7 mg/L (0 27.0 mg/L (0		11.0 mg/L (B1) 10.5 mg/L (B2) 8.8 mg/L (B3) 8.3 mg/L (B4) 13.3 mg/L (M1) 8.8 mg/L (H1) 10.0 mg/L (CR1) 10.7 mg/L (CR2)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on Breakwater B CH190 - CH22 A CH770 -CH780, leveling installation of blockwork for +6.00mPD, landfilling work piling pre-drilling works, piling pre-bored socketed H-pile and Dominant sea current direction around Shek Kwu Chau.	20, leveling of of underlaye or marine access for above ing works, pild existing cais	100 - 150kg un r rock at Break cess facility, la +6.00mPD, insta ling works for d sson extension as	derlayer rock at Breakwater twater A CH950 - CH970, andfilling works for below allation of instrumentation, lriven pile, piling works for armour scour protection.		



Monitoring photos of stations with exceedance F1A:



Incident Report on Action Level or Limit Level Non-compliance

Darie 3.1 Dec 2021 (Lab result received on 06 January 2022) Time 13.54 – 17:24 (Mid-Flood) 08:33 – 12:03 (Mid-Flood)	Project	Integrated Waste Manageme	nt Facilities, Pl	hase 1			
Monitoring Location CR2 SINCK NOW CRAW Now Companies SINCK NOW CRAW SINCK NOW	Date						
Monitoring Location CR2 Bits St	Time	13:54 – 17:24 (Mid-Flood)					
Parameter Suspended Solid (SS)							
Parameter Suspended Solid (SS) Selection & Support Control Stations Selection &							
Parameter Suspended Solid (SS) Action & Limit Levels Action Level ≥ 11.2 mg/L (120% of C2A) Impact Station(s) of Exceedance 12.2 mg/L (CR2) Possible reason for Action or Limit Level Non-compliance Works scheduled on 31 Dec 2021 include installation of block work at marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD installation of instrumentation, piling pre-drilling works, piling works, pi	Monitoring Location	CR2					
Action & Limit Level ≥ 11.2 mg/L (120% of C2A) ≥ 12.1 mg/L (130% of C2A) Measurement Level Impact Station(s) of Exceedance Control Stations Impact Station(s) without Exceedance 12.2 mg/L (CR2) 10.5 mg/L (C1A) 3.5 mg/L (B1) 9.3 mg/L (C2A) 3.0 mg/L (B2) 3.0 mg/L (B3) 3.7 mg/L (B4) 3.8 mg/L (H1) 3.6 mg/L (CR1) Possible reason for Action or Limit Level Non-compliance Limit Level Non-compliance Works scheduled on 31 Dec 2021 include installation of block work at marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD installation of instrumentation, piling pre-drilling works, piling works for driven pile, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Southeast to Northwest at water around Shek Kwu Chau.		+	4 PROPOSED I SUBMARINE CI	H1 SHEK KWU CHAU CR2 S3 CR1	A PROPOSED 132KV SUBMARINE CABLE OC MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT		
Action & Limit Level ≥ 11.2 mg/L (120% of C2A) ≥ 12.1 mg/L (130% of C2A) Measurement Level Impact Station(s) of Exceedance Control Stations Impact Station(s) without Exceedance 12.2 mg/L (CR2) 10.5 mg/L (C1A) 3.5 mg/L (B1) 9.3 mg/L (C2A) 3.0 mg/L (B2) 3.0 mg/L (B3) 3.7 mg/L (B4) 3.8 mg/L (H1) 3.6 mg/L (CR1) Possible reason for Action or Limit Level Non-compliance Limit Level Non-compliance Works scheduled on 31 Dec 2021 include installation of block work at marine access facility, landfilling works for below +6.00mPD, landfilling works for above +6.00mPD installation of instrumentation, piling pre-drilling works, piling works for driven pile, piling works for pre-bored socketed H-pile, existing caisson extension and armour scour protection. Dominant sea current direction was found to be from Southeast to Northwest at water around Shek Kwu Chau.	Domomoton	Sugmanded Calid (CC)					
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Measurement Level Impact Station(s) of Exceedance	Action & Limit Levels				(1200/ of C2A)		
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around Shek Kwu Chau.							
Exceedance of limit level was found at CR2.							
		Exceedance of limit level wa	s found at CR2	2.			

CR2 is located close to the works location within the Project site while no major marine work was conducted on 31 Dec 2021.

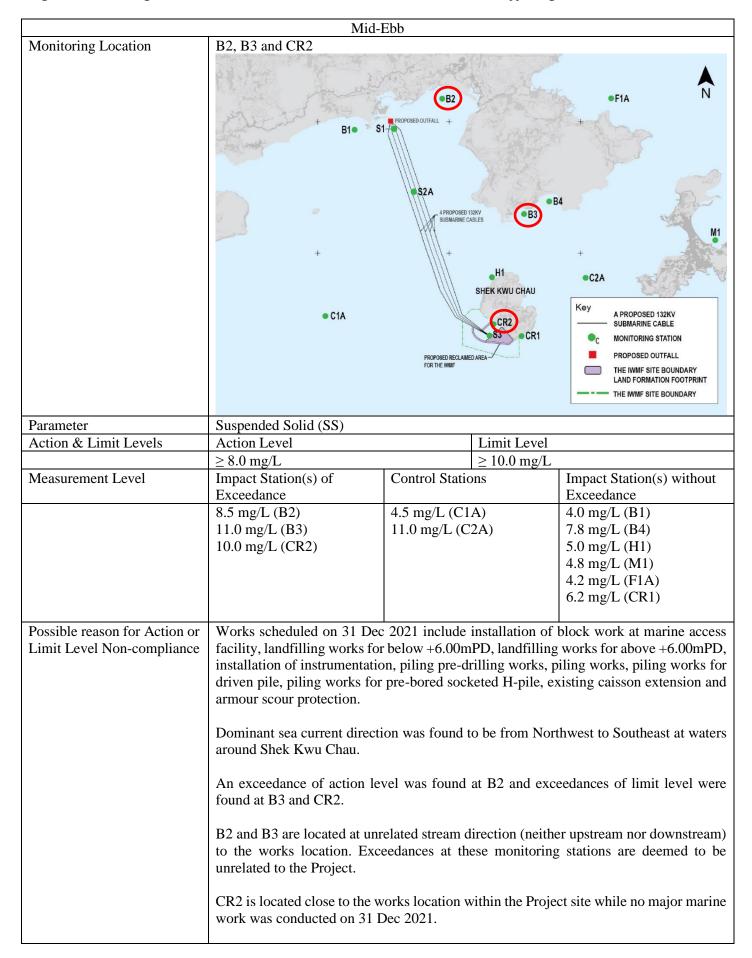
The installation of caisson No. 19 was completed on 18 Mar 2021, the reclamation area was enclosed.

According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and weather was fine during the sampling event.

No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 29 Dec 2021 and 04 Jan 2022.

After the investigation, the exceedances on 31 Dec 2021 at CR2 is deemed to be unrelated to the Project.

Monitoring photos of stations with exceedance CR2:



The installation of caisson No. 19 was completed on 18 Mar 2021, the reclamation area was enclosed.

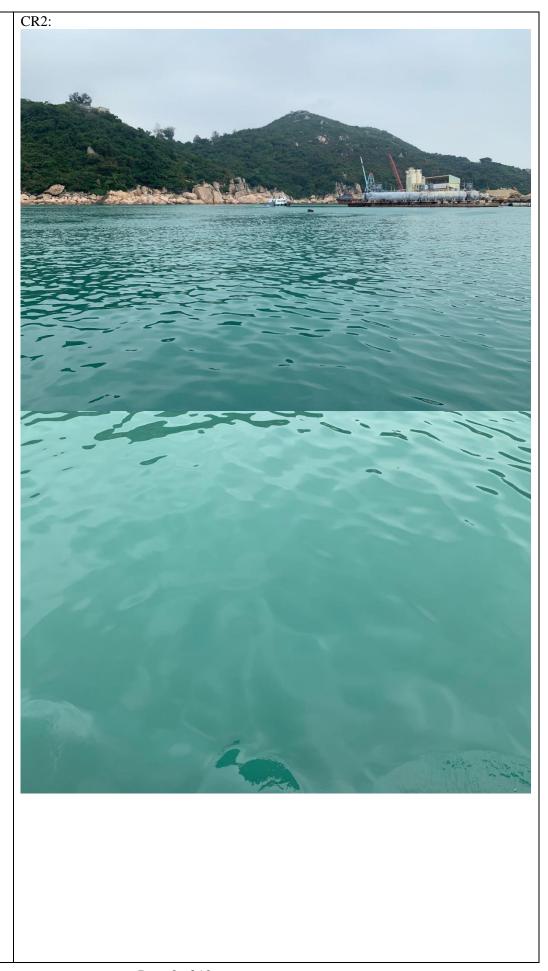
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and weather was fine during the sampling event.

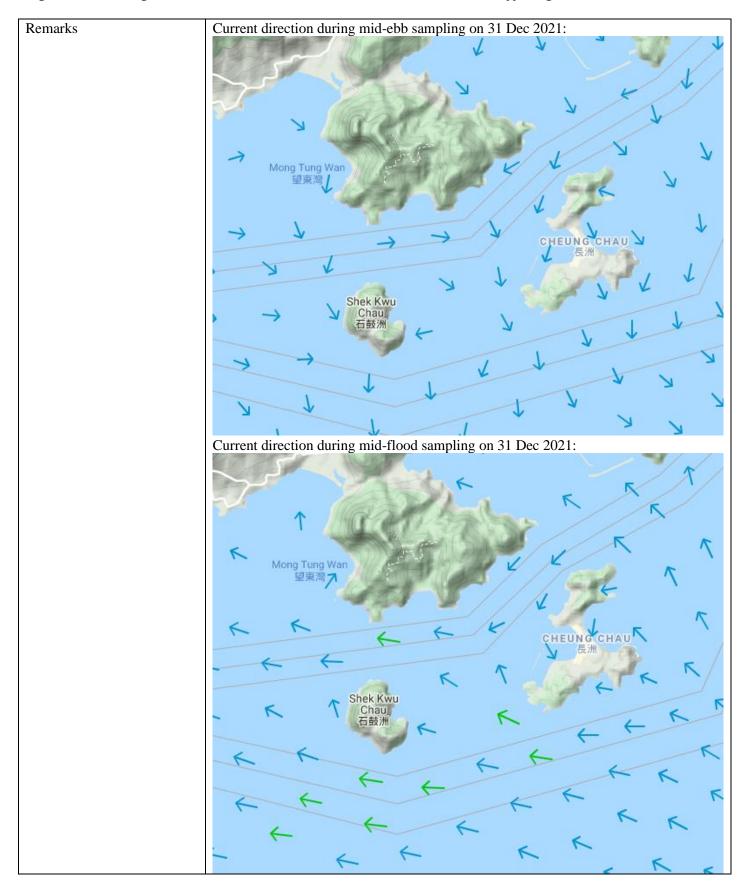
No major observation of improper site practices that contributed to the increase of the suspended solids were recorded during the weekly inspection on 29 Dec 2021 and 04 Jan 2022.

After the investigation, the exceedances on 31 Dec 2021 at B2, B3 and CR2 are deemed to be unrelated to the Project.

Monitoring photos of stations with exceedance B2:







	Legend				
	Speed (knot)		Speed (knot)		
	0-0.5	\rightarrow	1.5-2.0	\rightarrow	
	0.5-1.0	\rightarrow	2.0-2.5	\rightarrow	
	1.0-1.5		2.5 and above	\rightarrow	
	(Sourced from http://c	current.hy	dro.gov.hk/en/map.ht	ml)	
Prepared by	Jack Chow				
Date	11 Jan 2022				