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

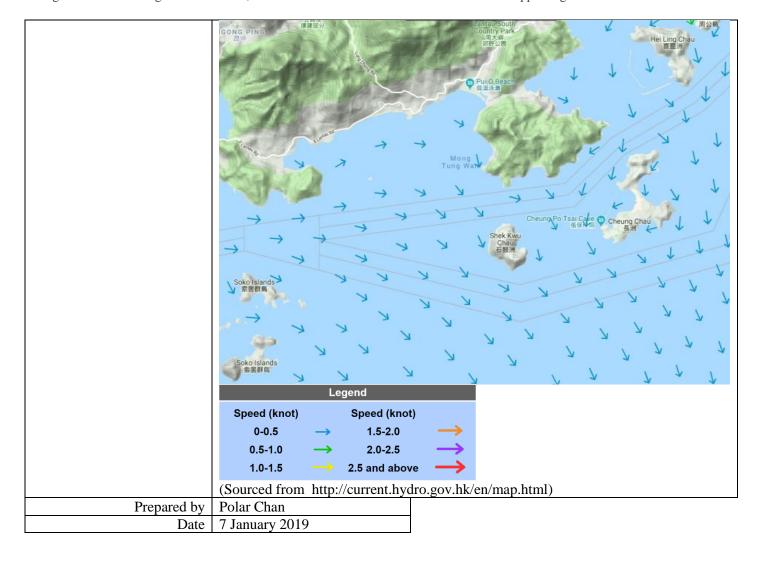
Water Quality					
Location	Action Level	Limit Level	Total		
B1	0	2	2		
B2	2	0	2		
В3	0	1	1		
B4	2	2	4		
CR1	1	0	1		
CR2	2	1	3		
F1	1	3	4		
H1	0	1	1		
S1	1	1	2		
S2	3	0	3		
S 3	2	3	5		
M1	0	5	5		
•]	Noise			
Location	Action Level	Limit Level	Total		
M1 / N_S1	0	0	0		
M2 / N_S2	0	0	0		
M3 / N_S3	0	0	0		

Project	Integrated Waste Management Facilities, Phase 1			
Date	27 December 2018 (Lab result received on 05 January 2019)			
Time	08:59 – 12:29 (Mid-Flood)	•		
	14:26 – 17:56 (Mid-Ebb)			
	Mid-Flood			
Monitoring Location	B1, B2, CR1 & CR2			
	+ B1 S1	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES 82 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAIMED AREA FOR THE IVMIF	F1 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		
Action & Limit Levels	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/J}$		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
Weastrement Level	Exceedance	Control Stations	Exceedance	
	9.3 mg/L (B1)	7.8 mg/L (C1)	4.0 mg/L (B3)	
	8.5 mg/L (B2)	6.3 mg/L (C2)	6.0 mg/L (B4)	
		0.3 Hg/L (C2)		
	9.2 mg/L (CR1)		6.8 mg/L (F1)	
	10.3 mg/L (CR2)		5.8 mg/L (H1)	
			7.2 mg/L (M1)	
			7.5 mg/L (S1)	
			7.2 mg/L (S2)	
			6.3 mg/L (S3)	
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 2 laying at caisson seawall area		-	
	Dominating sea current direction was found to be from Southeast to Northwaters around Shek Kwu Chau.			
	B1 & B2 are located at unrelated stream direction (neither upstream nor downstream far away) to the works location, exceedance of these monitoring locations are deem to be unrelated to the Project. From MMO monitoring records on 27/12, two DCM barges (ESC-61 & ESC-62) are two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day. No deficiency of silt curtain was found before the start of construction activity.			

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Actions taken / to be taken	CR1 is located at upstream and CR2 is located close to the works location within the Project site, while silt curtain checking on ESC-61, ESC-62 & Shun Tat D12 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The sand blanket laying works scheduled in FTB19 was stopped on that day due to the damage of the cage type silt curtain. It might suggest that the high SS exceedances at CR1 & CR2 are deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable					
	mitigation measures as per t	he Updated EM&A Manual.				
	Mid-	Ebb				
Monitoring Location	CR1 & S1					
	+ B1 • S	B2 4 PROPOSED 132KV SUBMARINE CABLES B3 S2 H1 SHEK KWU CHAU PROPOSED RECLAMED AREA FOR THE IWMF	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				
	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/L}$				
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without			
	Exceedance		Exceedance			
	8.5 mg/L (CR1)	5.5 mg/L (C1)	7.3 mg/L (B1)			
	9.8 mg/L (S1)	6.7 mg/L (C2)	7.8 mg/L (B2)			
)	31, mg 2 (02)	7.8 mg/L (B3)			
			5.8 mg/L (B4)			
			5.8 mg/L (F1)			
			6.3 mg/L (H1)			
			5.3 mg/L (M1)			
			7.8 mg/L (CR2)			
			7.5 mg/L (S2)			
			7.7 mg/L (S3)			
Possible reason for Action or		27/12 include Cone Penetratio	-			
Limit Level Non-compliance	laying at caisson seawall are	ea and DCM cluster installation	n at caisson seawall area.			

Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of this monitoring location is deemed to be unrelated to the Project. From MMO monitoring records on 27/12, two DCM barges (ESC-61 & ESC-62) and two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day. No deficiency of silt curtain was found before the start of construction activity. CR1 is located at downstream direction while silt curtain checking on ESC-61, ESC-62 & Shun Tat D12 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The sand blanket laying works scheduled in FTB19 was stopped on that day due to the damage of the cage type silt curtain. It might suggest that the high SS exceedance at CR1 is deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Actions taken / to be taken Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-flood sampling on 27/12: Remarks

Current direction during mid-ebb sampling on 27/12:



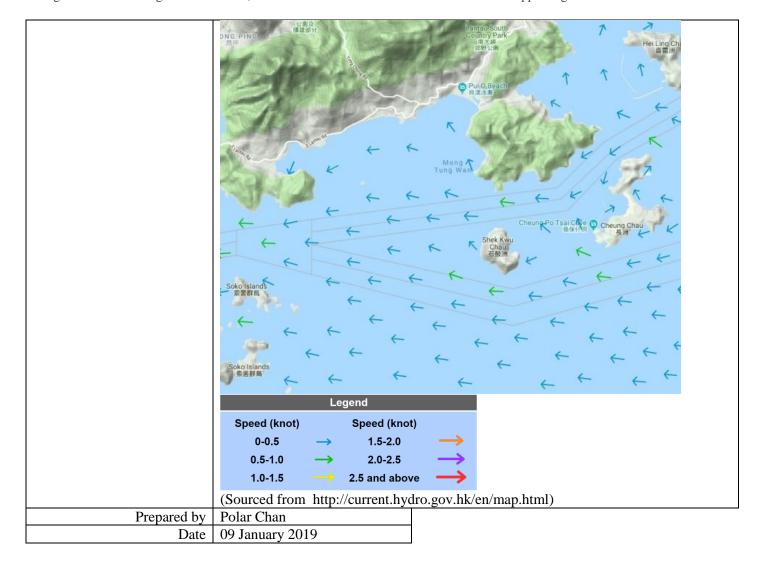
Project	Integrated Waste Management Facilities, Phase 1				
Date	29 December 2018 (Lab result received on 9 January 2019)				
Time	10:40 – 14:10 (Mid-Flood)				
	Mid-Flood				
Monitoring Location	B1, B2, B3, B4, H1, CR1, CR2, S1, S2 & S3				
	+ B1	4 PROPOSED OUTFALL + PROPOSED RECLAMMER OF THE INVME	SHEK KWU CHAU	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 8.6 mg/L (120% of C2)		≥ 10.0 mg/L		
Measurement Level	Impact Station(s) of	Control Stati		Impact Station(s) without	
	Exceedance			Exceedance	
	21.8 mg/L (B1)	20.7 mg/L (0	C1)	7.7 mg/L (F1)	
	16.0 mg/L (B2)	7.2 mg/L (C		7.7 mg/L (M1)	
	10.3 mg/L (B3)		•		
	8.8 mg/L (B4)				
	10.5 mg/L (H1)				
	22.8 mg/L (CR1)				
	23.3 mg/L (CR2)				
	22.8 mg/L (S1)				
	23.0 mg/L (S2)				
	23.5 mg/L (S3)				
Possible reason for Action or	Works scheduled on site on 2		Cone Penetration	n Test works and sand	
Limit Level Non-compliance	blanket laying at caisson sea	wall area.			
	Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.				
	B1, B2, B3, B4, S1 & S2 are	located at upr	elated stream di	rection (neither unstream	
	nor downstream, far away) to			ice of these monitoring	
	locations are deemed to be un	nrelated to the	Project.		
	From MMO monitoring reco	ords on 29/12, o	one DCM barge	(ESC-61) and two dumb	

lighters (Shun Tat D12 & FTB-19) were in operations on that day while no deficiency of silt curtain was found before the start of construction activity. H1 is located at downstream direction, CR1 is located at upstream direction, CR2 & S3 are located close to the works location within the Project site, while silt curtain checking on Shun Tat D12, FTB-19 & ESC-61 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. Control station (C1) and most of monitoring stations showed considerably high SS level of that tidal period, implying the high background SS level of surrounding waters. It might suggest that the high SS exceedance at H1, CR1, CR2 & S3 are deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Examination of environmental performance of the Project will be continued during the Actions taken / to be taken weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 29/12: Remarks Legend Speed (knot) Speed (knot) 0-0.5 1.5-2.0 0.5-1.0 2.0-2.5 2.5 and above (Sourced from http://current.hydro.gov.hk/en/map.html) Prepared by Polar Chan Date 9 January 2019

Project	Integrated Waste Management Facilities, Phase 1			
Date	31 December 2018 (Lab result received on 09 January 2019)			
Time	08:00 – 09:30 (Mid-Ebb)			
	12:31 – 16:00 (Mid-Flood)			
	Mid-E	Ebb		
Monitoring Location	S1 & S2 + B1 C1	B2 A PROPOSED 132KV SUBMARINE CABLES \$2	H1 HEK KWU CHAU CR2 S3 CR1	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY
	1 10 11 (00)			LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Parameter	Suspended Solid (SS)	Τ,		
Action & Limit Levels	Action Level		Limit Level	2004 (5.01)
N	\geq 13.2 mg/L (120% of C1)		≥ 14.3 mg/L (1	
Measurement Level	Impact Station(s) of	Control Station	ns	Impact Station(s) without
	Exceedance	11.0 m a/L (C1	`	Exceedance
	16.0 mg/L (S1)	11.0 mg/L (C1	.)	9.3 mg/L (B1)
	15.5 mg/L (S2)	8.8 mg/L (C2)		9.0 mg/L (B2)
				9.5 mg/L (B3)
				10.8 mg/L (B4) 11.3 mg/L (F1)
				9.5 mg/L (H1)
				10.3 mg/L (M1)
				11.2 mg/L (CR1)
				9.5 mg/L (CR2)
				11.5 mg/L (S3)
Possible reason for Action or	Works scheduled on site on 3	1/12 include Co	ne Penetration	•
Limit Level Non-compliance	blanket laying at caisson seav			
	Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.			
	S1 & S2 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project.			
	From MMO monitoring record	rds on 31/12, tw	o DCM barges	(ESC-61 & ESC-62) and

Actions taken / to be taken	two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking on FTB-19 & Shun Tat D12 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 & ESC-62 were suspended on that day due to adverse weather condition. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable				
	mitigation measures as per th	e Updated EM	&A Manual.		
Monitoring Location	Mid-Fl	ood			
	B1, B2 & B4 B1				
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level		Limit Level		
	≥ 13.8 mg/L (120% of C2)		\geq 15.0 mg/L (130% of C2)	
Measurement Level	Impact Station(s) of Exceedance 16.0 mg/L (B1) 15.8 mg/L (B2) 16.3 mg/L (B4)	Control Stati 11.2 mg/L (Control Station)	ons C1) C2)	Impact Station(s) without Exceedance 11.8 mg/L (B3) 12.2 mg/L (F1) 13.3 mg/L (H1) 10.8 mg/L (M1) 7.8 mg/L (CR1) 11.8 mg/L (CR2) 12.5 mg/L (S1) 13.0 mg/L (S2) 12.0 mg/L (S3)	
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 3 blanket laying at caisson seav	wall area.			

waters around Shek Kwu Chau. B1, B2 & B4 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring locations are deemed to be unrelated to the Project. From MMO monitoring records on 31/12, two DCM barges (ESC-61 & ESC-62) and two dumb lighters (Shun Tat D12 & FTB 19) were in operations on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking on Shun Tat D12 & FTB-19 were implemented by the Contractor and checking results showed no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 & ESC-62 were suspended on that day due to adverse weather condition. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 27/12, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Actions taken / to be taken Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 31/12: Remarks Current direction during mid-flood sampling on 31/12:

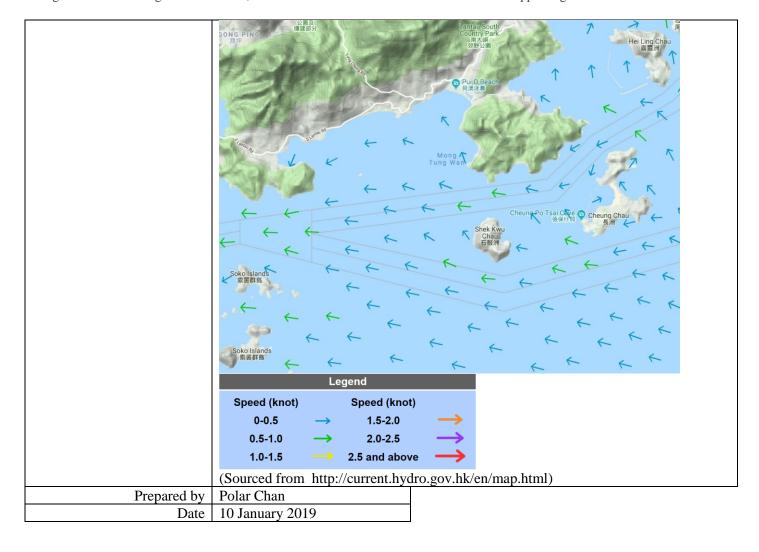


Project	Integrated Waste Management Facilities, Phase 1				
Date	02 January 2019 (Lab result received on 09 January 2019)				
Time	08:07 – 11:37 (Mid-Ebb)				
	13:49 – 17:19 (Mid-Flood)				
	Mid-E	Ebb			
Monitoring Location	B3, B4, F1, M1 & CR2				
	+ B1 • S1-	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES S2 H1 SHEK KWU CHAU CR2 S3 CR	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 Lev	rel		
	\geq 9.6 mg/L (120% of C1)		¿/L (130% of C1)		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
	Exceedance		Exceedance		
	16.5 mg/L (B3)	8.0 mg/L (C1)	7.3 mg/L (B1)		
	14.5 mg/L (B4)	15.7 mg/L (C2)	7.8 mg/L (B2)		
	15.5 mg/L (F1)	8 (-)	9.2 mg/L (H1)		
	17.0 mg/L (M1)		8.3 mg/L (CR1)		
	11.0 mg/L (CR2)		8.0 mg/L (S1)		
			9.0 mg/L (S2)		
			9.0 mg/L (S3)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 02/01 include ground investigation (GI) work of Borehole				
	B3, B4, F1 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project.				
	From MMO monitoring record barges (ESC-61) and two der no deficiency of silt curtain v	rick barges (Shun Tat D12	2 & FTB 19) on that day while		

Actions taken / to be taken	CR2 is located close to the works location within the Project site while silt curtain checking on ESC-61 (09:45 & 16:45) & Shun Tat D12 (09:00) were implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 were suspended due to high swell and deteriorating weather condition on site. It might suggest that the high SS exceedance at CR2 is deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 02/01, where was no improper site practice that might contribute to the increase in SS level was observed during the inspection. Examination of environmental performance of the Project will be continued during the				
	weekly inspection, and the C	ontractor is rema	ained to imple	ment all applicable	
	mitigation measures as per th	ne Updated EM&	kA Manual.		
	Mid-Fl	lood			
Monitoring Location	F1 & S3 + • C1	PROPOSED OUTFALL + 4 PROPOSED 132KZ SUBMARINE CABLE 52 PROPOSED RECLAIMED AR FOR THE IMMIF	B4 B3 B4 H1 HEK KWU CHAU	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		
	≥ 15.4 mg/L (120% of C2)		≥ 16.7 mg/L (1		
Possible reason for Action or	Impact Station(s) of Exceedance 16.7 mg/L (F1) 16.7 mg/L (S3) Works scheduled on site on 0	Control Station 10.0 mg/L (C1 12.8 mg/L (C2) ?)	Impact Station(s) without Exceedance 7.8 mg/L (B1) 10.0 mg/L (B2) 14.0 mg/L (B3) 15.0 mg/L (B4) 15.0 mg/L (H1) 13.5 mg/L (M1) 8.3 mg/L (CR1) 6.8 mg/L (CR2) 12.5 mg/L (S1) 14.7 mg/L (S2) tion (GI) work of Borehole	
Limit Level Non-compliance	drilling, Cone Penetration Te laying at caisson seawall area	est work at Static			

Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. F1 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project. From MMO monitoring records on 02/01, MMO teams were arranged to one DCM barges (ESC-61) and two derrick barges (Shun Tat D12 & FTB 19) on that day while no deficiency of silt curtain was found before the start of construction activity. S3 is located close to the works location within the Project site while silt curtain checking on ESC-61 (09:45 & 16:45) & Shun Tat D12 (09:00) were implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM installation works scheduled in ESC-61 were suspended due to high swell and deteriorating weather condition on site. It might suggest that the high SS exceedance at S3 is deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 02/01, where was no improper site practice that might contribute to the increase in SS level was observed during the inspection. Actions taken / to be taken Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 02/01: Remarks

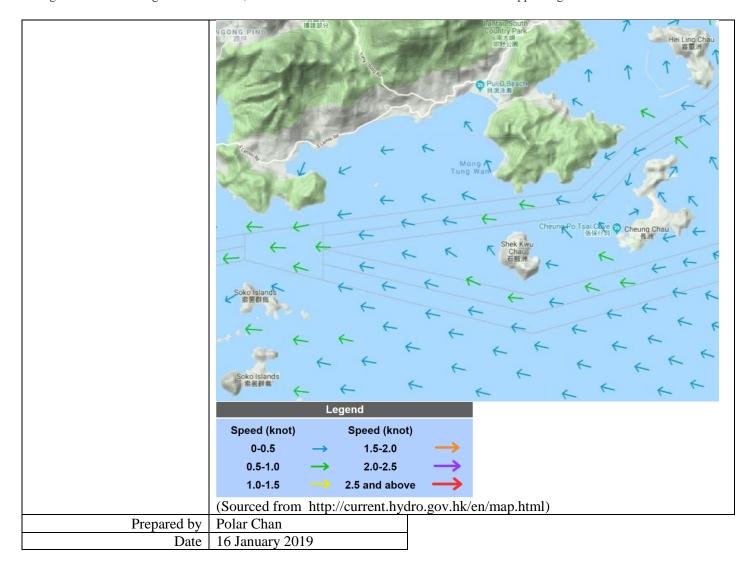
Current direction during mid-flood sampling on 02/01:



Project	Integrated Waste Management Facilities, Phase 1					
Date	04 January 2019 (Lab result received on 14 January 2019)					
Time	09:56 – 13:26 (Mid-Ebb)					
	15:02 – 18:32 (Mid-Flood)					
	Mid-F	Ebb				
Monitoring Location	B1	PROPOSED OUTFALL + 4 PROPOSED 1321 SUBMARINE CABI PROPOSED RECLAMMED FOR THE IMME	H1 SHEK KWU CHAU CR2 S3 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			
7 tetion & Emilit Ecvers	\geq 9.6 mg/L (120% of C1)		\geq 10.4 mg/L (1	30% of C1)		
Measurement Level	Impact Station(s) of	Control Static		Impact Station(s) without		
	Exceedance			Exceedance		
	10.5 mg/L (B1)	8.0 mg/L (C1)	8.5 mg/L (B2)		
		4.8 mg/L (C2)		5.0 mg/L (B3)		
				4.8 mg/L (B4)		
				5.0 mg/L (F1)		
				8.0 mg/L (H1)		
				7.8 mg/L (M1)		
				6.0 mg/L (CR1)		
				5.5 mg/L (CR2)		
				5.5 mg/L (S1)		
				4.5 mg/L (S2)		
				3.7 mg/L (S3)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 0 drilling, DCM main works an			tion (GI) work of borehole		
	Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.					
	B1 is located at unrelated stream direction (neither upstream nor downstream away) to the works location, exceednace of this monitoring station is deemed unrelated to the Project.					

	barges (ESC-61) on that start of construction active. Silt curtain checking on checking results showed DCM main works scheduled and deteriorating weather scheduled in Shun Tat Debarge D12. Site tidiness in the present inspection on 02/01, when	records on 02/01, MMO teams day while no deficiency of silt vity. ESC-61 (15:45) was implement that no deficiency of silt curtain uled in ESC-61 & ESC-62 were recondition. The sand blanket lateral was suspended due to main the barges in the Project site were was no improper site practice observed during the inspection	ted by the Contractor and in was found on that day. The e suspended due to high swell aying at caisson seawall area tenance works for the derrick re checked during weekly site ce that might contribute to the
Actions taken / to be taken			ect will be continued during the
	weekly inspection, and the	he Contractor is remained to in	nplement all applicable
	mitigation measures as p	er the Updated EM&A Manual	1.
	•	id-Flood	
Monitoring Location	S2 & S3 + B1•	PROPOSED OUTFALL + STEP PROPOSED OUTFALL + SUBMARINE CABLES S2 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE IMMF	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 Leve	
	\geq 8.0 mg/L	$\geq 10.0 \text{ mg/}$	
Measurement Level	Impact Station(s) of Exceedance 9.8 mg/L (S2) 12.2 mg/L (S3)	Control Stations 6.0 mg/L (C1) 6.3 mg/L (C2)	Impact Station(s) without Exceedance 6.5 mg/L (B1) 6.0 mg/L (B2) 3.8 mg/L (B3) 6.3 mg/L (B4) 7.0 mg/L (F1) 5.2 mg/L (H1) 6.0 mg/L (M1) 6.7 mg/L (CR1) 6.7 mg/L (CR2) 7.3 mg/L (S1)

Works scheduled on site on 04/01 include ground investigation (GI) work of borehole Possible reason for Action or Limit Level Non-compliance drilling, DCM main works and sand blanket laying at caisson seawall area. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. S2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be unrelated to the Project. From MMO monitoring records on 02/01, MMO teams were arranged to one DCM barge (ESC-61) on that day while no deficiency of silt curtain was found before the start of construction activity. S3 is located close to the works location within the Project site while silt curtain checking on ESC-61 (15:45) was implemented by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-61 & ESC-62 were suspended due to high swell and deteriorating weather condition. The sand blanket laying at caisson seawall area scheduled in Shun Tat D12 was suspended due to maintenance works for the derrick barge D12. The absence of works and above rationales might suggest that the high SS exceedance at S3 is deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 02/01, where was no improper site practice that might contribute to the increase in SS level was observed during the inspection. Actions taken / to be taken Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 04/01: Remarks Current direction during mid-flood sampling on 04/01:



Project	Integrated Waste Management Facilities, Phase 1					
Date	09 January 2019 (Lab result received on 16 January 2019)					
Time	09:56 – 13:26 (Mid-Ebb)					
Mid-Ebb						
Monitoring Location	CR2 & S2 + B1 • S1-	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE IMMF	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED 0UTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY			
Parameter	Suspended Solid (SS)					
Action & Limit Levels	Action Level	Limit Level				
rection & Elimit Ec vers	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/L}$				
Measurement Level Possible reason for Action or	Impact Station(s) of Exceedance 9.7 mg/L (CR2) 8.7 mg/L (S2)	Control Stations 4.7 mg/L (C1) 4.2 mg/L (C2)	Impact Station(s) without Exceedance 4.5 mg/L (B1) 5.3 mg/L (B2) 7.3 mg/L (B3) 6.5 mg/L (B4) 5.3 mg/L (F1) 4.5 mg/L (H1) 7.5 mg/L (M1) 7.3 mg/L (CR1) 4.0 mg/L (S1) 7.8 mg/L (S3) Investigation (GI) Borehole			
Limit Level Non-compliance	Dominating sea current direct waters around Shek Kwu Chat S2 is located at unrelated streaway) to the works location, unrelated to the Project. From MMO monitoring records	otextile laying at Caisson Seavetion was found to be from No	m nor downstream, far g station is deemed to be ere arranged to two DCM			

deficiency of silt curtain was found before the start of construction activity. CR2 is located close to the works location within the Project site while silt curtain checking on FTB-19 (07:30) & Shun Tat D12 (09:30) were implemented by the Contractor and the checking result showed no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-61 & ESC-62 were duty off on that day. It might suggest that the high SS exceedance at CR2 is deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 08/01, there was an observation might contribute the SS level increase where accumulation of sand was observed between the metal hoarding and the boundary on FTB 19, which may overflow into the sea. Actions taken / to be taken The accumulation of sand between metal hoarding and boundary was cleaned by the Contractor on 09/01. The Contractor was reminded to clean up the sand more frequently and use an elongated soft hose, and hence to avoid the sand was leaked outside the silt curtain and the sand accumulation on the pontoon surface. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 09/01: Remarks Speed (knot) Speed (knot) 0-0.5 1.5-2.0 0.5-1.0 2 0-2 5 1.0-1.5 2.5 and above (Sourced from http://current.hydro.gov.hk/en/map.html) Prepared by Polar Chan 17 January 2019 Date

Project	Integrated Waste Management Facilities, Phase 1			
Date	11 January 2019 (Lab result received on 18 January 2019)			
Time	14:15 – 17:45 (Mid-Ebb)			
Mid-Ebb				
Monitoring Location	H1 B1 S1-	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 S2 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE INMIF	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		
	\geq 9.2 mg/L (120% of C1)	≥ 10.0 mg/L		
Possible reason for Action or Limit Level Non-compliance	Impact Station(s) of Exceedance 10.0 mg/L (M1) Works scheduled on site on 1 borehole drilling, sand blanke	Control Stations 7.7 mg/L (C1) 8.5 mg/L (C2) 1/01 include Marine Ground et and geotextile laying at Cai		
	main works. Dominating sea current direct waters around Shek Kwu Chat M1 is located at unrelated str	tion was found to be from No	rthwest to Southeast at um nor downstream, far	

	·		
	From MMO monitoring records on 11/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (FTB-19 & Shun Tat D12) on that day while questionable silt plume was observed near FTB-19 around 10:30.		
	Silt curtain checking on ESC-61 (07:35), ESC-62, FTB-19 (07:00) & Shun Tat D12 (14:30) were implemented by the Contractor and the checking result showed no deficiency of silt curtain was found on that day.		
	Site tidiness in the present barges in the Project site was checked during weekly site inspection on 15/01, there was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.		
Actions taken / to be taken	The Contractor stopped the construction activities on FTB-19 immediately after the observation of yellow muddy water was found outside silt curtain and carried out the maintenance of the frame type silt curtain afterwards.		
	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remined to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Current direction during mid-ebb sampling on 11/01: Beaning State Beanin		
	Legend Speed (knot)		
	$\begin{array}{cccc} 0-0.5 & \longrightarrow & 1.5-2.0 & \longrightarrow \\ 0.5-1.0 & \longrightarrow & 2.0-2.5 & \longrightarrow \end{array}$		
	1.0-1.5 2.5 and above (Sourced from http://current.hydro.gov.hk/en/map.html)		
Prepared by	Polar Chan		
Date	21 January 2019		

Project	Integrated Waste Management Facilities, Phase 1			
Date	14 January 2019 (Lab result received on 21 January 2019)			
Time	10:41 – 14:11 (Mid-Flood)			
	17:17 – 20:00 (Mid-Ebb)			
	Mid-Fl	ood		
Monitoring Location	B4 B10 S1	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARBINE CABLES S2 H1 SHEK KWU CHAI CR2 S3 CI PROPOSED RECLAIMED AREA FOR THE IMMF	Key A PROPOSED 132KV SUBMARINE CABLE	
D- n- m- d- n	C			
Parameter Action & Limit Levels	Suspended Solid (SS) Action Level	Limit Le	1	
Action & Limit Levels	$\geq 8.0 \text{ mg/L}$	≥ 10.0 m		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
Wedstrement Level	Exceedance	Control Stations	Exceedance	
	9.3 mg/L (B4)	8.8 mg/L (C1)	2.8 mg/L (B1)	
).5 mg/L (B4)	6.2 mg/L (C2)	6.0 mg/L (B2)	
		0.2 mg/2 (02)	6.0 mg/L (B3)	
			6.8 mg/L (F1)	
			6.5 mg/L (H1)	
			6.8 mg/L (M1)	
			5.2 mg/L (CR1)	
			7.3 mg/L (CR2)	
			4.3 mg/L (S1)	
			4.5 mg/L (S2)	
			5.5 mg/L (S3)	
Possible reason for Action or	Works scheduled on site on 1	1/01 include ground inve		
Limit Level Non-compliance				
	Dominating sea current direct waters around Shek Kwu Cha		n Southeast to Northwest at	
	B4 is located at unrelated streaway) to the works location, unrelated to the Project.		stream nor downstream, far coring station is deemed to be	

	T		
	barges (ESC-61) and two der no deficiency of silt curtain v Silt curtain checking was imp Tat D12 (09:30) by the Contrasilt curtain was found on that suspended due to adverse wa Tat D12 was carried out on the Site tidiness in the present bat inspection on 15/01, where w	preds on 14/01, MMO teams we crick barges (Shun Tat D12 & was found before the start of complemented on ESC-61 (07:00) aractor and checking results show that day. The DCM main works save condition. No sand blanket that day. The project site were covered in the Project site were covered in the Project site were covered in SS level was observed of	FTB-19) on that day while construction activity. FTB-19 (07:00) and Shun bewed that no deficiency of cheduled in ESC-62 was a laying scheduled in Shun thecked during weekly site approper site practice that
Actions taken / to be taken		al performance of the Project	
Actions taken / to be taken		-	
	· -	ontractor is remained to imple	ement an applicable
	mitigation measures as per th		
Monitoring Location	Mid-F F1, M1, S1 & S3	Ebb	
	+ B10 C1	B2 ROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES S2 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE IWMF	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	
	\geq 9.2 mg/L (120% of C1)	$\geq 10.0 \text{ mg/L}$	T
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without
	Exceedance	7.7 mg/L (C1)	Exceedance
	9.5 mg/L (F1) 10.5 mg/L (M1)	7.7 mg/L (C1) 7.3 mg/L (C2)	5.8 mg/L (B1) 5.8 mg/L (B2)
	10.8 mg/L (S1)	7.5 mg L (C2)	8.0 mg/L (B3)
	10.8 mg/L (S3)		6.0 mg/L (B4)
			8.2 mg/L (H1)
			7.8 mg/L (CR1)
			8.3 mg/L (CR2)
			7.3 mg/L (S2)
Possible reason for Action or		14/01 include ground investiga	
Limit Level Non-compliance	drilling, Cone Penetration Te	est work, sand blanket and geo	textile laying at caisson

seawall area and DCM main works.

Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.

F1, M1 & S1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project.

From MMO monitoring records on 14/01, MMO teams were arranged to one DCM barges (ESC-61) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.

S3 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (07:00), FTB-19 (07:00) and Shun Tat D12 (09:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. No sand blanket laying scheduled in Shun Tat D12 was carried out on that day. It might suggest that the high SS exceedance at S3 is deemed to be unrelated to the Project.

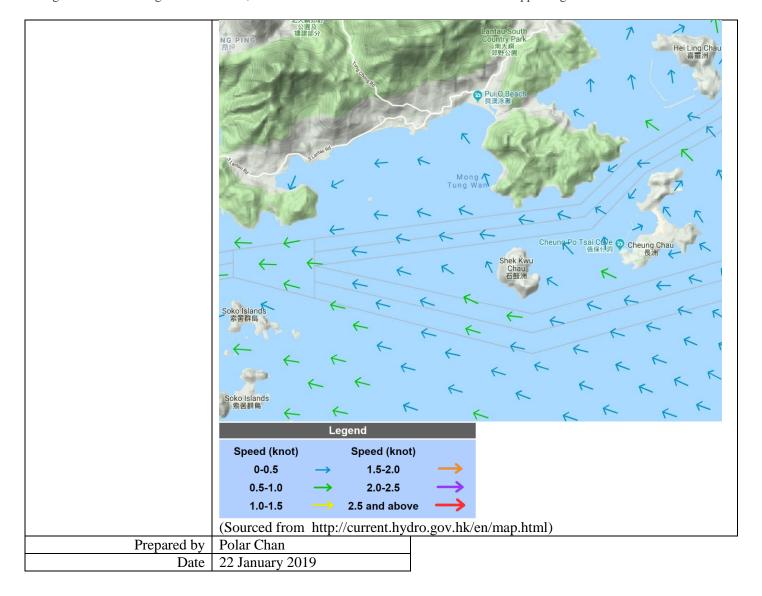
Site tidiness in the present barges in the Project site were checked during weekly site inspection on 15/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.

Actions taken / to be taken

Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.

Remarks

Current direction during mid-flood sampling on 14/01:



Project	Integrated Waste Management Facilities, Phase 1			
Date	16 January 2019 (Lab result received on 23 January 2019)			
Time	08:00 – 09:07 (Mid-Ebb)		<u>-</u>	
	Mid-Ebb			
Monitoring Location	M1, CR1, CR2, S2 & S3			
	+ B1 S1	PROPOSED OUTFALL + 4 PROPOSED SUBMARINE C. 52 PROPOSED RECLAIME FOR THE IMMF		F1 Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
D- n- m- d- n	C			
Parameter	Suspended Solid (SS)		T T 1	
Action & Limit Levels	Action Level		Limit Level	
)	$\geq 8.0 \text{ mg/L}$	T a . 1 a	$\geq 10.0 \text{ mg/L}$	
Measurement Level	Impact Station(s) of	Control Stati	ons	Impact Station(s) without
	Exceedance	60 m ~/L (C	1)	Exceedance
	11.3 mg/L (M1)	6.0 mg/L (C	•	6.8 mg/L (B1)
	8.8 mg/L (CR1)	5.5 mg/L (C	2)	5.5 mg/L (B2)
	8.3 mg/L (CR2)			7.0 mg/L (B3)
	8.2 mg/L (S2)			7.8 mg/L (B4)
	8.8 mg/L (S3)			6.2 mg/L (F1)
				6.7 mg/L (H1)
				6.8 mg/L (S1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 1 drilling, Cone Penetration Te seawall area and DCM main Dominating sea current direct waters around Shek Kwu Chamara and Shek Kwu Chamara way) to the works location to be unrelated to the Project	est work, sand works. etion was found au. lated stream di on, exceednace	blanket and geo I to be from Nor rection (neither e of these monit	rthwest to Southeast at upstream nor downstream, oring stations are deemed
	From MMO monitoring reco barges (ESC-61 & ESC-62) a day while no deficiency of si activity.	and two derric	k barges (Shun '	Γat D12 & FTB-19) on that

	CR1 is located at downstream monitoring station, CR2 & S3 are located close to the works location within the Project site while silt curtain checking was implemented on FTB-19 (07:30), Shun Tat D12 (09:00) & ESC-61 (12:55) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. It might suggest that the high SS exceedances at CR1, CR2 & S3 are deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 15/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 16/01: GONG PINS Country Park Basel Cheung Po Tsai Care Cheung Chau Cheung Cheun Cheun Cheung Cheun Cheung Cheun Cheung Cheun Cheung Cheun Cheun Cheung Cheun Cheung Cheun Cheung Cheun Cheung Cheun Cheun Cheung Cheun Cheun Cheun Cheung Cheun C
	Speed (knot) Speed (knot)
	0-0.5 → 1.5-2.0 →
	0.5-1.0 → 2.0-2.5 →
	1.0-1.5 ————————————————————————————————————
	(Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Polar Chan
Date	24 January 2019
Date	24 January 2017

Project	Integrated Waste Management Facilities, Phase 1			
Date	18 January 2019 (Lab result received on 28 January 2019)			
Time	13:31 – 17:01 (Mid-Flood)			
	Mid-F	lood		
Monitoring Location	B2 B10 S1	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 52 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAIMED AREA FOR THE IWMF	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		
	≥ 8.0 mg/L	≥ 10.0 mg/L		
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance	
	8.5 mg/L (B2)	7.7 mg/L (C1) 5.8 mg/L (C2)	6.8 mg/L (B1) 7.0 mg/L (B3) 6.8 mg/L (B4) 7.2 mg/L (F1) 6.8 mg/L (H1) 6.0 mg/L (M1) 6.5 mg/L (CR1) 6.2 mg/L (CR2) 5.8 mg/L (S1) 7.5 mg/L (S2) 6.5 mg/L (S3)	
Possible reason for Action or Limit Level Non-compliance	drilling, Cone Penetration Te caisson seawall area & reclar	18/01 include ground investig est work, sand blanket and geo mation area and DCM main we etion was found to be from So au.	ation (GI) work of borehole otextile laying at both yorks.	
		eam direction (neither upstrea exceednace of this monitorin		

From MMO monitoring records on 18/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking was implemented on FTB-19 (07:30), Shun Tat D12 (09:30) & ESC-61 (07:10) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. The DCM main works scheduled in ESC-62 was suspended due to adverse wave condition. No sand blanket laying at reclamation area scheduled in Shun Tat D12 was carried out on that day due to high swell and adverse wave condition. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 15/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection. Examination of environmental performance of the Project will be continued during the Actions taken / to be taken weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 18/01: Remarks Speed (knot) Speed (knot) 0-0.5 1.5-2.0 0.5-1.0 2 0-2 5 1.0-1.5 2.5 and above (Sourced from http://current.hydro.gov.hk/en/map.html) Prepared by Polar Chan 29 January 2019 Date

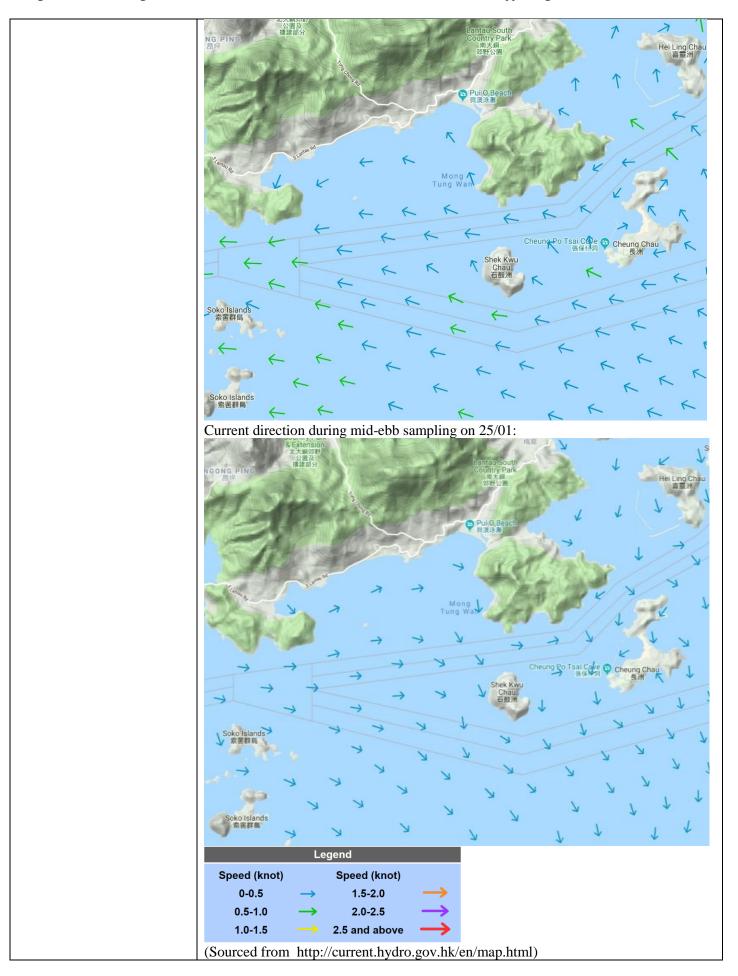
Project	Integrated Waste Management Facilities, Phase 1				
Date	23 January 2019 (Lab result	23 January 2019 (Lab result received on 30 January 2019)			
Time	16:37 – 19:00 (Mid-Flood)				
	Mid-Flood				
Monitoring Location	+ B1 S1	PROPOSED OUTFALL + PROPOSED 13 SUBMARINE CA PROPOSED RECLAME FOR THE IMMF	SHER KWU CHAU	Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY	
Donomoton	Sugmanded Solid (SS)				
Parameter	Suspended Solid (SS)		T : ', T 1		
Action & Limit Levels	Action Level		Limit Level		
Marana and Land	$\geq 8.0 \text{ mg/L}$	Cantonal Ctati	≥ 10.0 mg/L	In a set Charlie of a serial and	
Measurement Level	Impact Station(s) of	Control Stati	ons	Impact Station(s) without	
	Exceedance	6.2 mg/L (C1	1)	Exceedance	
	11.0 mg/L (H1)	6.2 mg/L (C1		3.5 mg/L (B1)	
		6.5 mg/L (C2	2)	4.3 mg/L (B2)	
				5.3 mg/L (B3)	
				5.3 mg/L (B4)	
				6.5 mg/L (F1)	
				6.3 mg/L (M1)	
				6.0 mg/L (CR1)	
				4.3 mg/L (CR2)	
				6.0 mg/L (S1)	
				5.8 mg/L (S2)	
				7.3 mg/L (S3)	
Possible reason for Action or	Works scheduled on site on 2				
Limit Level Non-compliance	drilling, Cone Penetration Test work, sand blanket and geotextile laying at bo caisson seawall area & reclamation area and DCM main works.				
	Dominating sea current direction was found to be from Southeast to North waters around Shek Kwu Chau.		theast to Northwest at		
	From MMO monitoring recobarges (ESC-61 & ESC-62) a FTB-19) on that day while no construction activity.	and three derric	k barges (Shun	Tat D32, Shun Tat D12 &	

	H1 is located at downstream location to the works location while silt curtain checking was implemented on FTB-19 (07:00), Shun Tat D12 (10:30), Shun Tat D32 (11:30), ESC-61 (07:08) & ESC-62 (07:10) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. It might suggest that the high SS exceedance at H1 is deemed to unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 24/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-ebb sampling on 23/01: Condition Condition
D 11	
Prepared by	Polar Chan
Date	31 January 2019

Project	Integrated Waste Management Facilities, Phase 1			
Date	25 January 2019 (Lab result received on 1 February 2019)			
Time	08:44 – 12:14 (Mid-Flood)			
	14:05 – 17:35 (Mid-Ebb)			
	Mid-F	lood		
Monitoring Location	B4 B10 S1	PROPOSED OUTFALL + 4 PROPOSED 12XX SUBMARINE CABL PROPOSED RECLAIMED A FOR THE IMMF	H1 SHEK KWU CHAU CR2 83 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	
Treation & Emine Develo	$\geq 10.8 \text{ mg/L } (120\% \text{ of C2})$		\geq 11.7 mg/L (1	30% of C3)
Measurement Level	Impact Station(s) of	Control Statio		Impact Station(s) without
	Exceedance			Exceedance
	12.0 mg/L (B4)	8.8 mg/L (C1))	10.0 mg/L (B1)
		9.0 mg/L (C2)		9.3 mg/L (B2)
				10.0 mg/L (B3)
				9.7 mg/L (F1)
				9.8 mg/L (H1)
				8.3 mg/L (M1)
				7.8 mg/L (CR1)
				8.5 mg/L (CR2)
				10.3 mg/L (S1)
				7.3 mg/L (S2)
				8.3 mg/L (S3)
Possible reason for Action or	Works scheduled on site on 2	25/01 include gr	ound investiga	tion (GI) work of borehole
Limit Level Non-compliance	drilling, Cone Penetration Te			
•	caisson seawall area & reclamation area and DCM main works.			
	Dominating sea current direction was found to be from Northwest to Souwaters around Shek Kwu Chau.		thwest to Southeast at	
	P4 is located at warmlated at	oom dimostice (e	aithar wastas	n nor downstroom for
	B4 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of this monitoring station is deemed to be uprelated to the Project			
				station is deemed to be
	unrelated to the Project.			

Actions taken / to be taken Monitoring Location	barges (ESC-61) and three don that day while no deficier construction activity. Silt curtain checking was im D32 (12:00), Shun Tat D12 checking results showed that Site tidiness in the present be inspection on 24/01, where would be inspected to the increase the frontline staff of water sate exceedance at B4 during the After confirming with the Cowhich suggested that the observation of environment	contractor, there was no abnormation between the track of sandy water was all performance of the Project Contractor is remained to imple the Updated EM&A Manual. Ebb APROPOSED 137KV SUBMARINE CABLES B3 B3 B4 B3 B4 B3 B4 B3 B4 B3 B4 B3 B4 B4	Shun Tat D32 & FTB-19) efore the start of a, ESC-62 (07:25), Shun Tat y the Contractor and was found on that day. Shecked during weekly site inproper site practice that during the inspection. d near CR2 around 10:00 by to be unrelated to mal site activity on that day was not related to the will be continued during the ement all applicable
	• C1	SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE IWMF	Key A PROPOSED 132KV SUBMARINE CABLE C 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	
LIGHT & EMILL DOVOIS	\geq 8.6 mg/L (120% of C1)	$\geq 10.0 \text{ mg/L}$	
Magguramant I ava1			Impact Station(a)ith and
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without
	Exceedance		Exceedance
	10.0 mg/L (B1)	7.2 mg/L (C1)	5.3 mg/L (B2)
	10.0 mg/L (B1)		
		7.2 mg/L (C1) 9.2 mg/L (C2)	5.3 mg/L (B2) 5.3 mg/L (B3) 5.0 mg/L (B4)

	6.2 mg/L (F1)	
	7.3 mg/L (H1) 7.8 mg/L (CR1)	
	7.8 mg/L (CR1) 7.5 mg/L (CR2)	
	7.5 mg/L (CR2) 7.0 mg/L (S1)	
	7.2 mg/L (S2)	
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 25/01 include ground investigation (GI) work of borehole drilling, Cone Penetration Test work, sand blanket and geotextile laying at both caisson seawall area & reclamation area and DCM main works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. B1 & M1 are located at unrelated stream direction (neither upstream nor downstream,	
	far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project.	
	From MMO monitoring records on 25/01, MMO teams were arranged to one DCM barges (ESC-61) and three derrick barges (Shun Tat D12, Shun Tat D32 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.	
	S3 is located close to the work location within the Project site while silt curtain checking was implemented on ESC-61 (07:05), ESC-62 (07:25), Shun Tat D32 (12:00), Shun Tat D12 (09:30) and FTB-19 (07:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. It might suggest that high SS exceedance at S3 is deemed to be unrelated to the Project.	
	Site tidiness in the present barges in the Project site were checked during weekly site inspection on 24/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.	
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the	
	weekly inspection, and the Contractor is remained to implement all applicable	
	mitigation measures as per the Updated EM&A Manual.	
Remarks	Current direction during mid-flood sampling on 25/01:	



Page 4 of 5

Prepared by	Polar Chan
Date	2 February 2019

Project	Integrated Waste Management Facilities, Phase 1				
Date	28 January 2019 (Lab result received on 08 February 2019)				
Time	16:04 – 19:00 (Mid-Ebb)				
Mid-Ebb					
Monitoring Location	B2 & B4 B1 S1	4 PROPOSED 132KV SUBMARINE CABLES \$2 H1 SHEK KWU C	HAU 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 I	evel		
Possible reason for Action or Limit Level Non-compliance	drilling, Cone Penetration Te caisson seawall area & reclar Dominating sea current direc waters around Shek Kwu Cha B2 & B4 are located at unrelations.	Control Stations 9.5 mg/L (C1) 8.5 mg/L (C2) 28/01 include ground in est work, sand blanket a mation area and DCM in tion was found to be frau. ated stream direction (non, exceednace of these			

	From MMO monitoring records on 28/01, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and three derrick barges (Chjeung Kee No.7, Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.		
	Silt curtain checking was implemented on Cheung Kee 7 (09:20), FTB-19 (19:45), ESC-61 (07:10) & ESC-62 (09:40) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying work at caisson seawall area was performed at Shun Tat D12 referring to the site diary on that day from the Contractor.		
	Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.		
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Current direction during mid-ebb sampling on 28/01: GONG PING GOUNTY Park 同志明 GOYAN Hei Ling Chau 高鑑洲		
	Pui(), Beach 貝環泳避		
	Raman Mong J		
	Cheung Po Tsai Cave ① Cheung Chau		
	Shek Kwu Chau 百鼓洲 V V V V V V V V V V V V V V V V V V V		
	京書書島		
	Soko Islands ^余 智祥局 Legend		
	Speed (knot) 0-0.5 → 1.5-2.0 →		
	0.5-1.0 \rightarrow 2.0-2.5 1.0-1.5 \rightarrow 2.5 and above (Sourced from http://current.hydro.gov.hk/en/map.html)		
Prepared by	Polar Chan		
Date	09 February 2019		

Project	Integrated Waste Management Facilities, Phase 1			
Date	30 January 2019 (Lab result received on 12 February 2019)			
Time	08:00 – 10:07 (Mid-Ebb)			
	Mid-F	Ebb		
Monitoring Location	F1 & S1 + • C1	B2 A PROPOSED 132KV SUBMARINE CABLES B3 CR1 PROPOSED RECLAMED AREA FOR THE IWMF	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED 0UTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit Level		
	$\geq 10.2 \text{ mg/L } (120\% \text{ of C1})$	$\geq 11.1 \text{ mg/L}$	(130% of C1)	
Possible reason for Action or Limit Level Non-compliance	Impact Station(s) of Exceedance 12.3 mg/L (F1) 11.0 mg/L (S1) Works scheduled on site on 3 drilling, sand blanket and ged area and DCM main works. Dominating sea current direct waters around Shek Kwu Characteristics.	Control Stations 8.5 mg/L (C1) 11.0 mg/L (C2) 80/01 include ground investignmental both caisson attion was found to be from So	Impact Station(s) without Exceedance 8.5 mg/L (B1) 6.8 mg/L (B2) 7.0 mg/L (B3) 7.0 mg/L (B4) 7.8 mg/L (H1) 9.7 mg/L (M1) 7.7 mg/L (CR1) 7.3 mg/L (CR2) 9.5 mg/L (S2) 8.2 mg/L (S3) ation (GI) work of borehole seawall area & reclamation	
	F1 & S1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceednace of these monitoring stations are deemed to be unrelated to the Project. From MMO monitoring records on 30/01, MMO teams were arranged to two DCM			

	barges (ESC-61 & ESC-62) and two derrick barges (Shun Tat D12 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.		
	Silt curtain checking was implemented on Shun Tat D12 (09:31), FTB-19 (10:00), ESC-61 (07:10) & ESC-62 (07:10) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day.		
	Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/01, where was no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.		
Actions taken / to be taken	Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is remained to implement all applicable mitigation measures as per the Updated EM&A Manual.		
Remarks	Current direction during mid-ebb sampling on 30/01: COND PAILOR OF PAILOR OF CHEUNG CHAU Sock Islands ***REFIRE* ***Sock Islands ***REFIRE* ***Legend Speed (knot) 0-0.5		
	(Sourced from http://current.hydro.gov.hk/en/map.html)		
Prepared by	Polar Chan		
Date	13 February 2019		