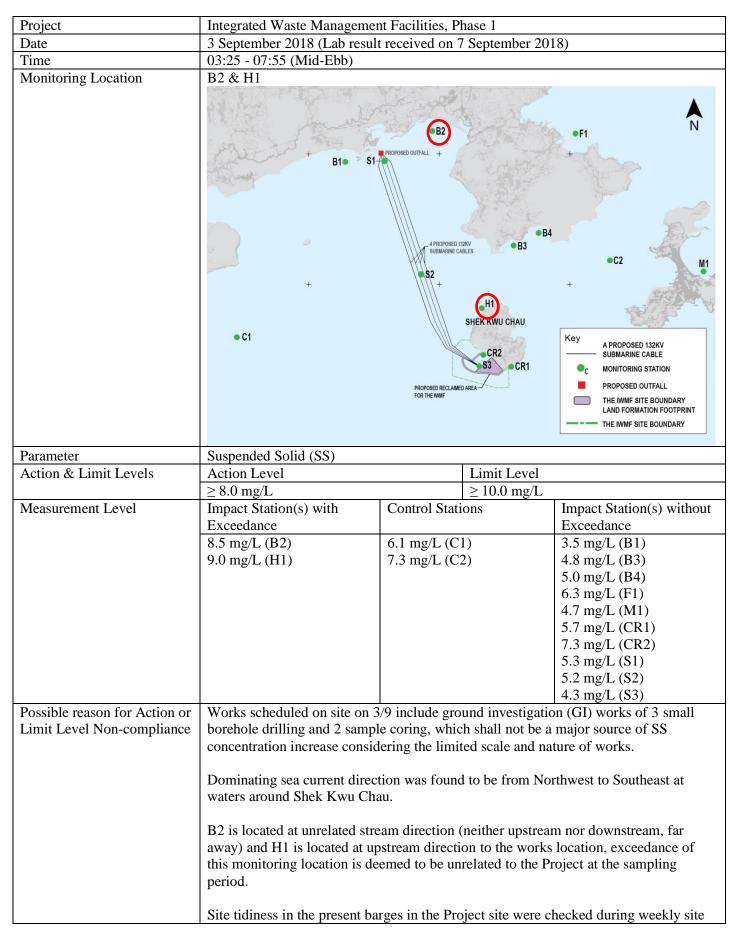
Appendix N Exceedance Report

	Wate	r Quality	
Location	Action Level	Limit Level	Total
B1	2	2	4
B2	2	1	3
B3	1	1	2
B4	0	0	0
CR1	2	2	4
CR2	0	1	1
F1	0	0	0
H1	3	2	5
S1	2	0	2
S2	2	0	2
S3	0	2	2
M1	2	2	4
	Ν	loise	
Location	Action Level	Limit Level	Total
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0

Statistical Summary of Exceedances in the Reporting Period



	inspection on 4/9, where applicable mitigation measures on water quality were found implemented and 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 reminded to implement all applicable		
Remarks	mitigation measures as per the Updated EM&A Manual. Current direction during mid-ebb sampling on 3/9: Bar and Restaurant Bar and Restaurant Mong Tung Wah Shek Kwu Cheund Kpo Tsai Cape © cheung Chau Shek Kwu Cheund Kpo Tsai Cape © cheung Chau		
	$0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$		
	1.0-1.5 \longrightarrow 2.5 and above \longrightarrow		
	(Sourced from http://current.hydro.gov.hk/en/map.html)		
Prepared by			
Date	10 September 2018		

Date 14 September 2018 (Lab result received on 20 September 2018) Time 07:36 – 11:06 (Mid-Flood) Monitoring Location M1 Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Monitoring Location M1 Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Image: September 2018 (Lab result received on 20 September 2018) Parameter Suspended Solid (SS) Image: September 2018 (Lab result received resul	Project	Integrated Waste Management Facilities, Phase 1			
Time 07:36 - 11:06 (Mid-Flood) Monitoring Location M1 Image: Second					2018)
Monitoring Location M1 Monitoring Location M1 Image: Second S					2010)
Parameter Suspended Solid (SS) Action & Limit Levels Action Level Exceedance Suspended Solid (SS) Action & Limit Levels Action Level Exceedance Suspended Solid (SS) Measurement Level Impact Station(s) with Exceedance 8.2 mg/L (M1) 4.3 mg/L (C1) 4.8 mg/L (B1) 4.5 mg/L (B2) 4.5 mg/L (B3) 5.3 mg/L (B1) 5.3 mg/L (B2) Possible reason for Action or Limit Level Non-compliance All works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to the					
Action & Limit LevelsAction LevelLimit Level \geq 8.0 mg/L \geq 10.0 mg/LMeasurement LevelImpact Station(s) with ExceedanceControl StationsImpact Station(s) with Exceedance8.2 mg/L (M1)4.3 mg/L (C1)4.8 mg/L (B1) 2.8 mg/L (C2)4.5 mg/L (B2) 4.5 mg/L (B3) 5.3 mg/L (B4) 3.5 mg/L (F1) 4.7 mg/L (H1) 5.7 mg/L (CR1) 5.5 mg/L (CR2)Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to th		C1 FI FI<			
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$ \hline \begin{tabular}{ c c c c c c c } \hline \hline & $\ge 8.0 \mmode mg/L & $\ge 10.0 \mmode mg/L \\ \hline \end{tabular} tabula$		· · · · ·		Limit Level	
Measurement Level Impact Station(s) with Exceedance Control Stations Impact Station(s) with Exceedance 8.2 mg/L (M1) 4.3 mg/L (C1) 4.8 mg/L (B1) 2.8 mg/L (C2) 4.5 mg/L (B2) 4.5 mg/L (B3) 5.3 mg/L (B4) 3.5 mg/L (F1) 3.5 mg/L (F1) 4.7 mg/L (H1) 5.7 mg/L (CR1) 5.8 mg/L (C2) 4.8 mg/L (C2) 4.9 mg/L (C2) 4.5 mg/L (C2) 9 mg/L (C2) 4.5 mg/L (C1) 4.7 mg/L (H1) 5.7 mg/L (CR1) 5.5 mg/L (CR2) 5.5 mg/L (CR2) Possible reason for Action or Limit Level Non-compliance All works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to th	Action & Limit Levels				
ExceedanceExceedance8.2 mg/L (M1)4.3 mg/L (C1)4.8 mg/L (B1)2.8 mg/L (C2)4.5 mg/L (B2)4.5 mg/L (B3)5.3 mg/L (B4)3.5 mg/L (F1)3.5 mg/L (F1)4.7 mg/L (H1)5.7 mg/L (CR1)5.5 mg/L (CR2)5.5 mg/L (CR2)MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to th	Maggurament Lavel		Control Stat	0	Impact Station(a) without
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2.8 mg/L (C2)4.5 mg/L (B2)4.5 mg/L (B3)5.3 mg/L (B4)3.5 mg/L (F1)3.5 mg/L (F1)4.7 mg/L (H1)5.7 mg/L (CR1)5.5 mg/L (CR2)5.5 mg/L (CR2)Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to th			$\frac{13 \text{ mg/L}}{100000000000000000000000000000000000$	1)	
4.5 mg/L (B3)5.3 mg/L (B4)3.5 mg/L (F1)4.7 mg/L (H1)5.7 mg/L (CR1)5.5 mg/L (CR2)Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to th		$3.2 \operatorname{Ing/L}(WII)$	•		
5.3 mg/L (B4)3.5 mg/L (F1)3.5 mg/L (F1)4.7 mg/L (H1)5.7 mg/L (CR1)5.5 mg/L (CR2)Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to th			2.0 mg/L (C	2)	
3.5 mg/L (F1)4.7 mg/L (H1)5.7 mg/L (CR1)5.5 mg/L (CR2)Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to the					
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Second stream 5.7 mg/L (CR1) Possible reason for Action or Limit Level Non-compliance All works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to the unrelated to the upcomine of the unrelated to					
Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to the					
Possible reason for Action or Limit Level Non-complianceAll works scheduled on site on 14/9 were suspended due to the upcoming typhoo MANGKHUT.Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.M1 is located at unrelated stream direction (neither upstream nor downstream, fa away) and exceedance of this monitoring location is deemed to be unrelated to the					e ,
Site tidiness in the present barges in the Project site were checked during weekly inspection on 11/9, where applicable mitigation measures on water quality were f	Limit Level Non-compliance	 Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, far away) and exceedance of this monitoring location is deemed to be unrelated to the Project at the sampling period. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 11/9, where applicable mitigation measures on water quality were found implemented and no improper site practice that might contribute to the increase in SS level was observed during the inspection. 			
	Actions takes / to be taken				
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.	
Remarks		
Remarks	Current direction during mid-flood sampling on 14/9: Tessure/listend Tung Wan Tung Wan Cheun Pro Tsai Care O Cheung Chau 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 \rightarrow 2.5 and above \rightarrow	
Dropored by	(Sourced from http://current.hydro.gov.hk/en/map.html) Nelson Tsui	
Prepared by		
Date	21 September 2018	

Project	Integrated Waste Management Facilities, Phase 1			
Date	18 September 2018 (Lab result received on 24 September 2018)			
Time	13:40 – 17:10 (Mid-Flood)			2010)
Monitoring Location	CR1			
	CRI B1 B1 B1 B1 B1 B1 B1 B2 B2 F1			
Parameter	Suspended Solid (SS)	PROPOSED RECLAME FOR THE IMMF	ED AREA	MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Action & Limit Levels	Action Level		Limit Level	
Action & Linit Levels	\geq 13.8 mg/L (120% of C2)		\geq 15.0 mg/L (120% of C2)
Measurement Level		Control Stat	0	,
Weasurement Level	Impact Station(s) with Exceedance	Control Stat	IOIIS	Impact Station(s) without Exceedance
	14.0 mg/L (CR1)	L (CR1) 10.5 mg/L (C1) 11.5 mg/L (C2) 11.0 mg/L (B1) 9.8 mg/L (B2) 8.0 mg/L (B3) 12.0 mg/L (B4) 9.7 mg/L (F1) 10.8 mg/L (H1) 9.7 mg/L (M1)		11.0 mg/L (B1) 9.8 mg/L (B2) 8.0 mg/L (B3) 12.0 mg/L (B4) 9.7 mg/L (F1) 10.8 mg/L (H1)
Possible reason for Action or Limit Level Non-compliance	 All works scheduled on site on 18/9 were suspended due to the yet to recover progress from typhoon MANGKHUT. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. CR2 and S3, the closer downstream monitoring stations to CR1 (upstream monitoring station), exhibited a much lower SS level. The above and absent of works suggest that the exceedance at CR1 should be unrelated to the Project. Site tidiness in the present barges in the Project site were checked during weekly site 			
	inspection on 11/9, where applicable mitigation measures on water quality were found implemented and 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 reminded to implement all applicable
	mitigation measures as per the Updated EM&A Manual.
Remarks	Current direction during mid-flood sampling on 18/9:
	Treasure Island Restaurant & Bar 貝澳泳潮
	Summer + K Mong A K K K A
	K K K K K K K K K
	たたたたた Cheung Po Tsai Cape O Cheung Chau K K
	K K K T Shek Kwu Chau Gigim K K K K K K
	K K K K K K K K K K K K K K K K K K K
	F F F F F F F F F F F F F F F F F F F
	THE FERENCE
	tt K K K K K
	Legend
	Speed (knot) Speed (knot)
	$0-0.5 \rightarrow 1.5-2.0 \longrightarrow$
	$0.5-1.0 \longrightarrow 2.0-2.5 \longrightarrow$
	1.0-1.5 → 2.5 and above →
	(Sourced from http://current.hydro.gov.hk/en/map.html)
Prepared by	Nelson Tsui
Date	26 September 2018

Project	Integrated Waste Management Facilities, Phase 1			
Date	24 September 2018 (Lab result received on 2 October 2018)			
Time				
Monitoring Location	16:35 - 20:05 (Mid-Flood) H1 B1 B1 B1 B1 B1 B1 B1 B1 B1 B			
Parameter	Suspended Solid (SS)		1	
Action & Limit Levels	Action Level		Limit Level	
	\geq 11.2 mg/L (120% of C2)	I	\geq 12.1 mg/L (
Measurement Level	Impact Station(s) with	Control Stati	ions	Impact Station(s) without
	Exceedance		1\	Exceedance
	11.5 mg/L (H1)	8.8 mg/L (C1) 9.3 mg/L (C2)		8.8 mg/L (B1) 8.8 mg/L (B2) 9.0 mg/L (B3) 8.8 mg/L (B4) 8.8 mg/L (F1) 8.3 mg/L (M1) 7.8 mg/L (CR1) 10.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 24/9 include ground investigation (GI) works of 3 small borehole drilling, which shall not be a major source of SS concentration increase considering the limited scale and nature of works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.			
Actions taken / to be taken	CR2, the closest downstream monitoring stations to H1, exhibited a lower SS level. It may suggest that the exceedance at H1 should be unrelated to the Project.Site tidiness in the present barges in the Project site were checked during weekly site inspection on 26/9, where applicable mitigation measures on water quality were found implemented and 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 Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.
Remarks	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 24/9:
	$\frac{\text{Legend}}{\text{Speed (knot)}}$ $\frac{\text{Legend}}{0.5.1.0 \rightarrow 2.0.2.5 \rightarrow 1.5-2.0 \rightarrow 0.5-1.0 \rightarrow 2.0-2.5 \rightarrow 1.0-1.5 \rightarrow 2.5 \text{ and above} \rightarrow 0.5-1.0 \rightarrow$
Prepared by	Nelson Tsui
Date	3 October 2018