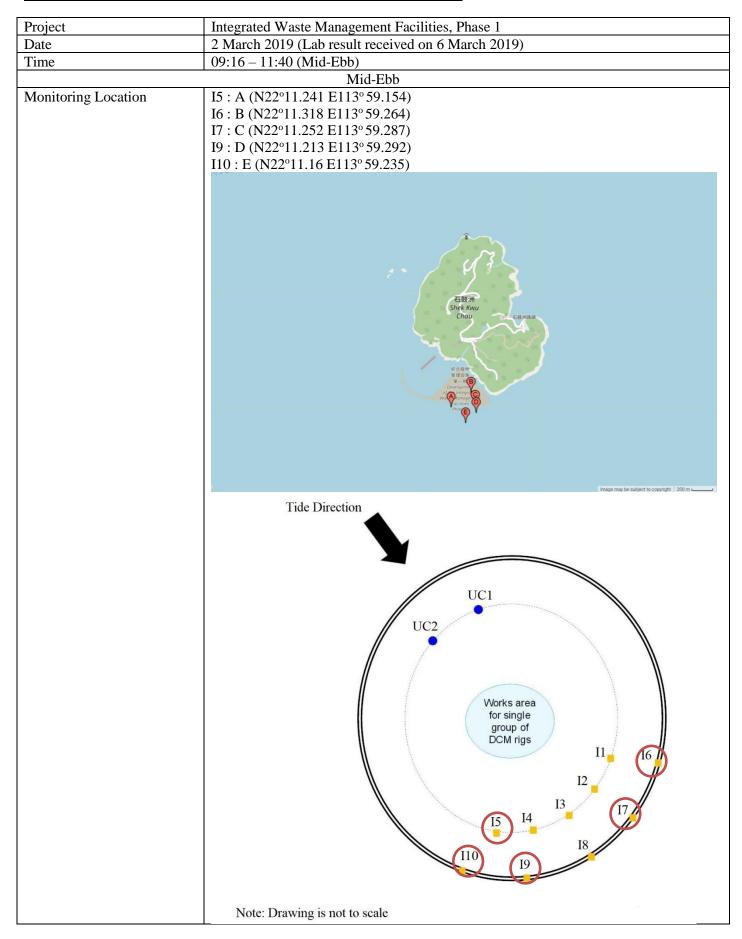
Contract No. EP/SP/66 Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix N	Exceedance Report	

Statistical Summary of Exceedances in the Reporting Period

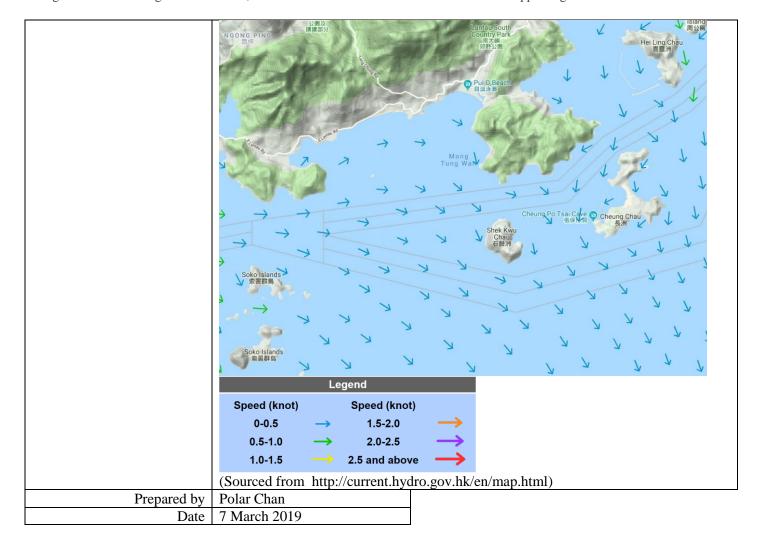
Water Quality				
Location	Action Level	Limit Level	Total	
B1	0	1	1	
B2	2	0	2	
В3	1	1	2	
B4	0	1	1	
CR1	2	0	2	
CR2	3	0	3	
F1	3	0	3	
H1	2	0	2	
S1	1	0	1	
S2	1	0	1	
S3	3	0	3	
M1	4	0	4	
	Water Quality	(Intensive DCM)		
Location	Action Level	Limit Level	Total	
I1	1	1	2	
I2	1	2	3	
I3	0	2	2	
I4	1	2	3	
I5	0	3	3	
I6	0	3	3	
17	0	4	4	
I8	0	4	4	
I9	1	4	5	
I10	2	3	5	

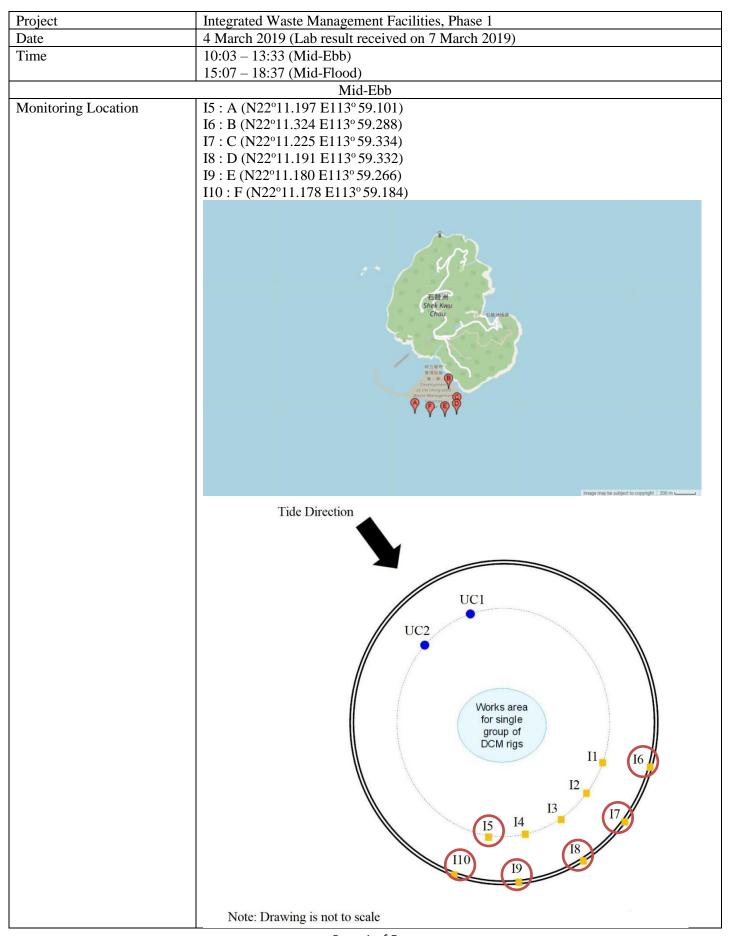
	Noise (Day Time)	
Location	Action Level	Limit Level	Total
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0
	Noise (E	vening Time)	
Location	Action Level	Limit Level	Total
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0
·	Noise (I	Night Time)	
Location	Action Level	Limit Level	Total
M1 / N_S1	0	0	0
M2 / N_S2	0	0	0
M3 / N_S3	0	0	0



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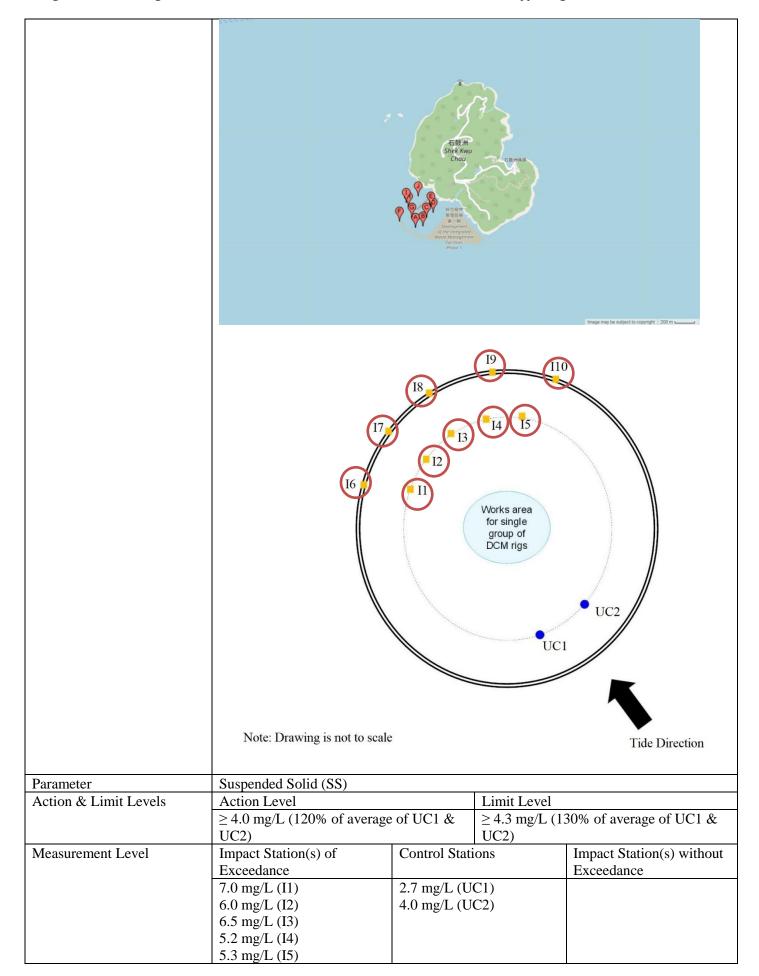
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level		Limit Level	
	\geq 4.1 mg/L (120% of average	of UC1 &		30% of average of UC1 &
	UC2)	01 001 a	UC2)	3070 of average of ear &
Measurement Level	Impact Station(s) of	Control Stat		Impact Station(s) without
Wiedsurement Zever	Exceedance	Control Stations		Exceedance
	5.0 mg/L (I5)	2.8 mg/L (U	C1)	3.8 mg/L (I1)
	9.0 mg/L (I6)	4.0 mg/L (U		3.5 mg/L (I2)
	6.3 mg/L (17)		62)	3.7 mg/L (I3)
	7.5 mg/L (I9)			2.3 mg/L (I4)
	5.7 mg/L (I10)			3.8 mg/L (I8)
Possible reason for Action or	Works schedule on site on 02	/03 include la	ving of geotexti	
Limit Level Non-compliance	laying of sand blanket at cais			·
r	sample coring for DCM main			
	vertical blockwork seawall a			
	Dominating sea current direc	tion was found	d to be from No	rthwest to Southeast at
	waters around Shek Kwu Cha			
	From MMO monitoring reco	rds on 02/03, 1	MMO teams we	ere arranged to two DCM
	barges (ESC-61 & ESC-62) a	and four derric	k barges (Shun	Tat D12, DL-5, GD-851 &
	FTB-19) on that day while no	deficiency of	f silt curtain was	s found before the start of
	construction activity.			
	I5, I6, I7, I9 & I10 are located close to the work location within the Project site while			
	silt curtain checking was implemented on FTB19 (07:00), ESC-62 (07:30) and ESC-			
	61 (08:30) by the Contractor and checking results showed that no deficiency of silt			
	curtain was found on that day. No sand blanket laying works scheduled on Shun Tat			
	D12, Cheung Kee No.7 & Kam Ying No.8 were carried out with referring to site diary			
	on that day. No surface rock removal works scheduled on DL-5 and GD-851 were			
	carried out with referring to site diary on that day. It might suggest that the SS			
	exceedance at I5, I6, I7, I9 & I10 are deemed to be unrelated to the Project.			
	Site tidiness in the present barges in the Project site was checked during weekly site			
	inspection on 04/03, where no major observation of improper site practice that might			
A 1	contribute to the increase in S			
Actions taken / to be taken	Examination of environmenta			
	weekly inspection, and the Contractor is remained to implement all a			ement all applicable
D 1	mitigation measures as per th			
Remarks	Current direction during mid-	ebb sampling	on 02/03:	





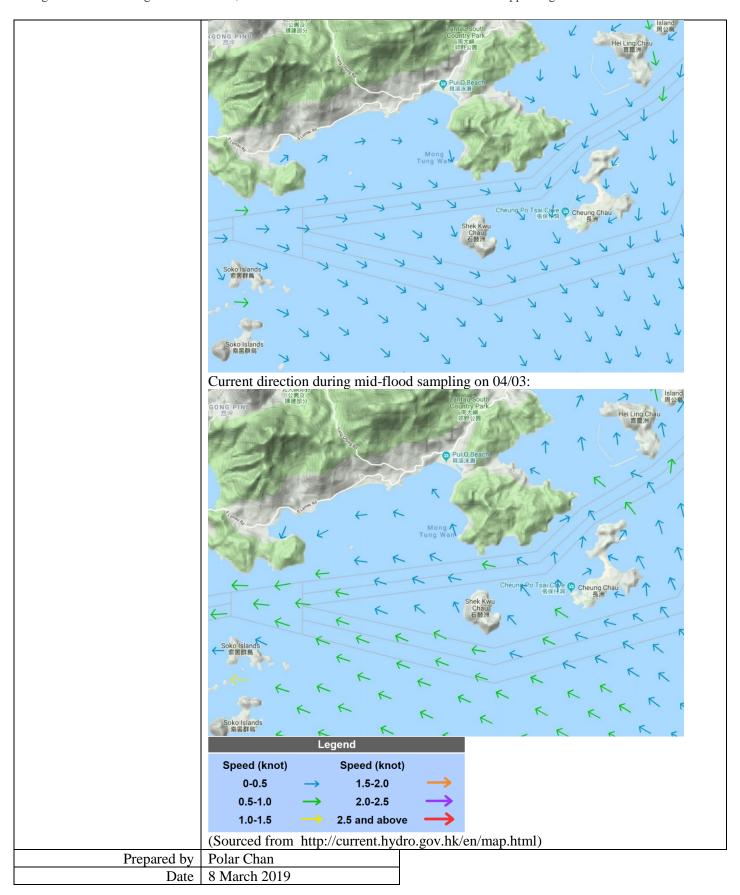
Page 1 of 5

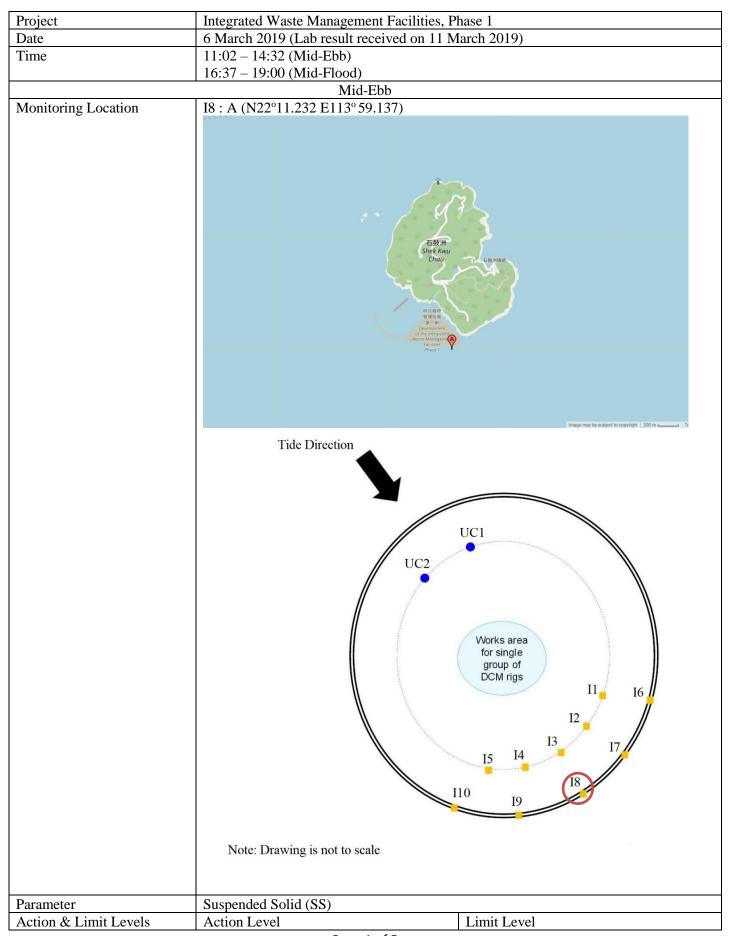
Parameter	Suspended Solid (SS)			
Action & Limit Levels			Limit Level	
retion & Emili Levels	\geq 6.1 mg/L (120% of average	re of UC1 &		30% of average of UC1 &
	UC2)	ge of eer a	UC2)	30% of average of ever &
Measurement Level	Impact Station(s) of	Control Stat		Impact Station(s) without
	Exceedance			Exceedance
	10.8 mg/L (I5)	5.5 mg/L (UC1)		4.5 mg/L (I1)
	7.3 mg/L (I6)	4.7 mg/L (U		5.8 mg/L (I2)
	7.5 mg/L (I7)			4.7 mg/L (I3)
	10.0 mg/L (I8)			3.8 mg/L (I4)
	13.7 mg/L (I9)			
	9.5 mg/L (I10)			
Possible reason for Action or Limit Level Non-compliance	Works schedule on site on 0 laying of sand blanket at cai sample coring for DCM mai static loading test area and letest. Dominating sea current dire	sson seawall as in works, DCM evelling the for	rea, post cone pe I main works, la mation of rubbl	enetration test works, DCM ying of rocks material at e mound of static loading
Actions taken / to be taken	Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. From MMO monitoring records on 04/03, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and four derrick barges (Shun Tat D12, FTB-19, DL-5 & GD-851) on that day while no deficiency of silt curtain was found before the start of construction activity. I5, I6, I7, I8, I9 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on DL-5 (10:30), GD-851 (13:15), FTB19 (09:00), ESC-62 (07:30) and ESC-61 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled on Shun Tat D12, Cheung Kee No.7 & Kam Ying No.8 were carried out with referring to site diary on that day. It might suggest that the SS exceedance at I5, I6, I7, I8, I9 & I10 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 04/03, where no major observation of improper site practice that might contribute to the increase in SS level was observed during the inspection.			ere arranged to two DCM Tat D12, FTB-19, DL-5 & s found before the start of In within the Project site 30), GD-851 (13:15), e Contractor and checking on that day. No sand Kee No.7 & Kam Ying ay. It might suggest that the unrelated to the Project. The checked during weekly site per site practice that might
retions taken / to be taken	weekly inspection, and the O	_		
	1 -		•	ment an applicable
	mitigation measures as per t		A Manual.	
Monitoring Location	Mid-F I1 : A (N22°11.340 E113° 58			
Monitoring Location	I2 : B (N22°11.348 E113° 59			
	I3 : C (N22°11.394 E113° 59			
	I4 : D (N22°11.420 E113° 59	*		
	I5 : E (N22°11.454 E113° 59	· ·		
	I6: F (N22°11.373 E113°58			
	I7 : G (N22°11.394 E113° 58			
	I8: H (N22°11.452 E113° 58	· ·		
	I9: I (N22°11.472 E113° 58	·		
	I10 : J (N22°11.508 E113° 5	8.995)		



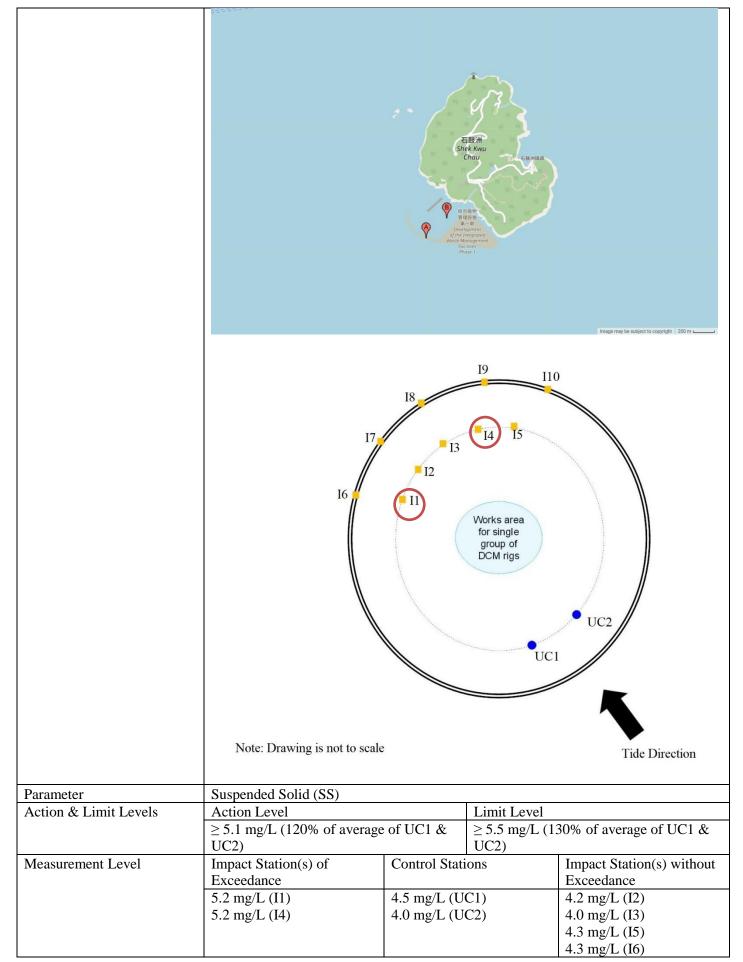
Page 3 of 5

	4.3 mg/L (I6) 4.3 mg/L (I7) 6.8 mg/L (I8) 5.0 mg/L (I9) 6.5 mg/L (I10)				
Possible reason for Action or Limit Level Non-compliance	Works schedule on site on 04/03 include laying of geotextile at caisson seawall area, laying of sand blanket at caisson seawall area, post cone penetration test works, DCM sample coring for DCM main works, DCM main works, laying of rocks material at static loading test area and levelling the formation of rubble mound of static loading test. Dominating sea current direction was found to be from Southeast to Northwest at				
	waters around Shek Kwu Chau. From MMO monitoring records on 04/03, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and four derrick barges (Shun Tat D12, FTB-19, DL-5 & GD-851) on that day while no deficiency of silt curtain was found before the start of construction activity.				
	I1, I2, I3, I4, I5, I6, I7, I8, I9 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on DL-5 (10:30), GD-851 (13:15), FTB19 (09:00), ESC-62 (07:30) and ESC-61 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled on Shun Tat D12, Cheung Kee No.7 & Kam Ying No.8 were carried out with referring to site diary on that day. When compared to the baseline data of dry season (Action Level: 8.0mg/L & Limit Level: 10.0mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I1, I2, I3, I4, I5, I6, I7, I8, I9 & I10 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 04/03, where 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 04/03:				



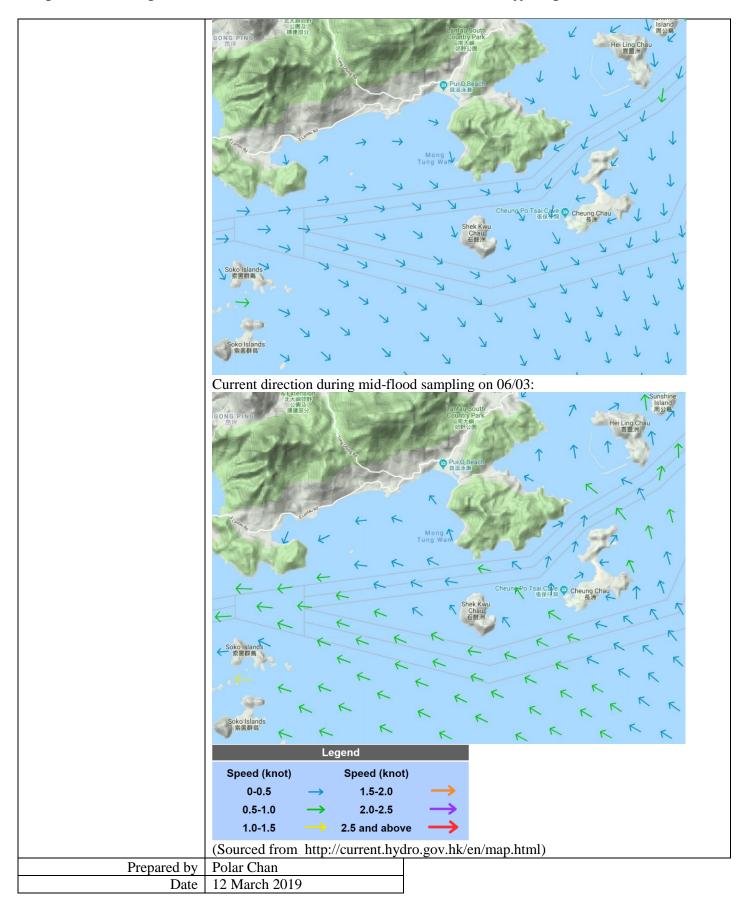


	\geq 6.1 mg/L (120% of average	e of UC1 &		30% of average of UC1 &
N	UC2)	G . 10	UC2)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations		Impact Station(s) without Exceedance
		5.2 mg/L (II)	C1)	
	7.0 mg/L (I8)	5.3 mg/L (UC1)		3.7 mg/L (I1)
		4.8 mg/L (U	C2)	5.7 mg/L (I2) 2.2 mg/L (I3)
				3.7 mg/L (I4)
				4.8 mg/L (I5)
				4.0 mg/L (I6)
				4.3 mg/L (I7)
				5.7 mg/L (I9)
				5.0 mg/L (I10)
Possible reason for Action or	Works scheduled on site on (06/03 include 1	aving of geotex	
Limit Level Non-compliance	area, laying of sand blanket a			
1	post cone penetration test wo			
	main works, levelling of rock			
	rock at vertical blockwork se		C	
	Dominating sea current direc	tion was found	d to be from No	rthwest to Southeast at
	waters around Shek Kwu Cha	au.		
	From MMO monitoring reco			
	barges (ESC-61 & ESC-62) and four derrick barges (Shun Tat D12, GD-851, DL-5 & FTB-19) on that day while no deficiency of silt curtain was found before the start of			
	construction activity.			
	10:1			
	I8 is located close to the work			
	checking was implemented on DL-5 (08:30), FTB19 (07:00), ESC-62 (07:30), ESC-63 (07:30), ESC-64 (07:30), ESC-65 (07:30), ESC-6			
	(08:00) and Shun Tat D12 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works			
	•		•	• •
	scheduled on Cheung Kee No the site diary on that day. No			
	carried out with referring to t			
	exceedance at I8 is deemed to	-	-	ight suggest that the 55
	exceedance at 10 is deemed to	o be unrelated	to the Project.	
	Site tidiness in the present ba	rges in the Pro	oiect site was ch	ecked during weekly site
	Site tidiness in the present barges in the Project site was checked during weekly site inspection on 04/03, where no major observation of improper site practice that might			
	contribute to the increase in S			
Actions taken / to be taken	Examination of environment			
	weekly inspection, and the Contractor is remained to implement all applicable			
	mitigation measures as per th			* *
	Mid-Fl			
Monitoring Location	I1 : A (N22°11.302 E113° 58	.979)		
_	I4 : B (N22°11.402 E113° 59			



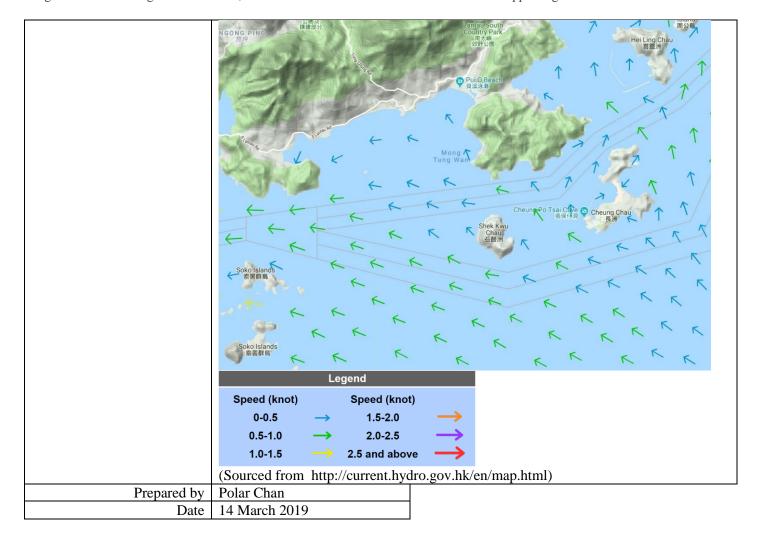
Page 3 of 5

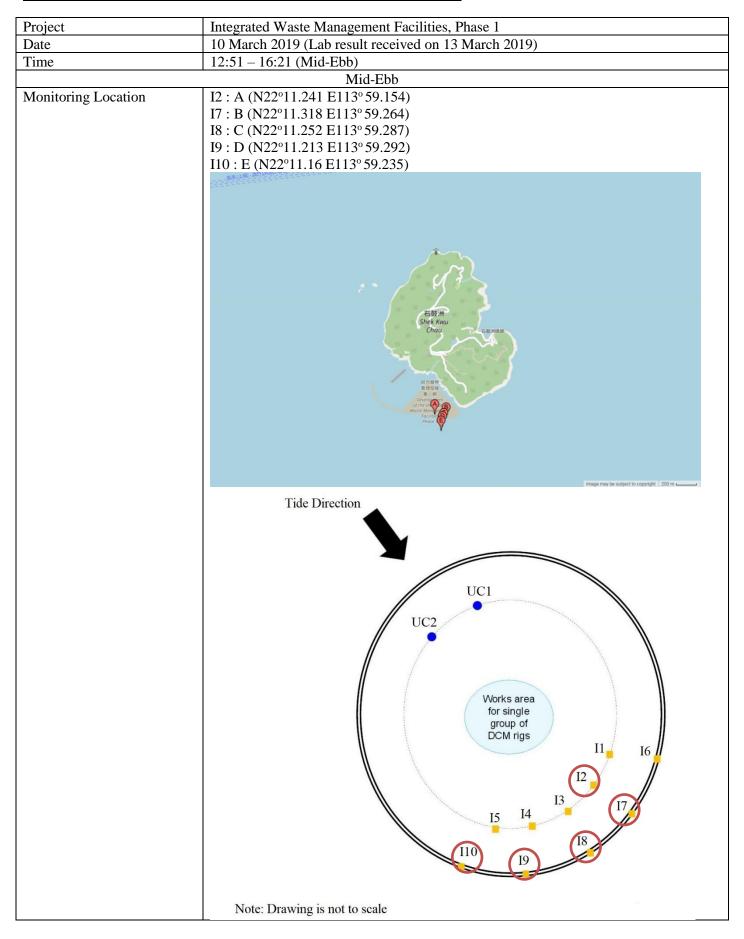
	4.2 mg/L (I7) 5.0 mg/L (I8)				
	4.3 mg/L (I9)				
	3.0 mg/L (I10)				
Possible reason for Action or	Works scheduled on site on 06/03 include laying of geotextile at caisson breakwater				
Limit Level Non-compliance	area, laying of sand blanket at both caisson breakwater area and caisson seawall area,				
	post cone penetration test works, DCM sample coring for DCM main works, DCM				
	main works, levelling of rock fill at static loading test area and removal of surface rock at vertical blockwork seawall area.				
	Tock at vertical blockwork seawaii area.				
	Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.				
	From MMO monitoring records on 06/03, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and four derrick barges (Shun Tat D12, GD-851, DL-5 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.				
	I1 & I4 are located close to the work location within the Project site while silt curtain checking was implemented on DL-5 (08:30), FTB19 (07:00), ESC-62 (07:30), ESC-61 (08:00) and Shun Tat D12 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled on Cheung Kee No.7 & Kam Ying No.8 were carried out with referring to the site diary on that day. No surface rock removal works scheduled on GD-851 was carried out with referring to the site diary on that day. When compared to the baseline data of dry season (Action Level: 8mg/L & Limit Level: 10mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I1 & I4 are deemed to be unrelated to the Project.				
	Site tidiness in the present barges in the Project site was checked during weekly site inspection on 04/03, where 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 06/03:				



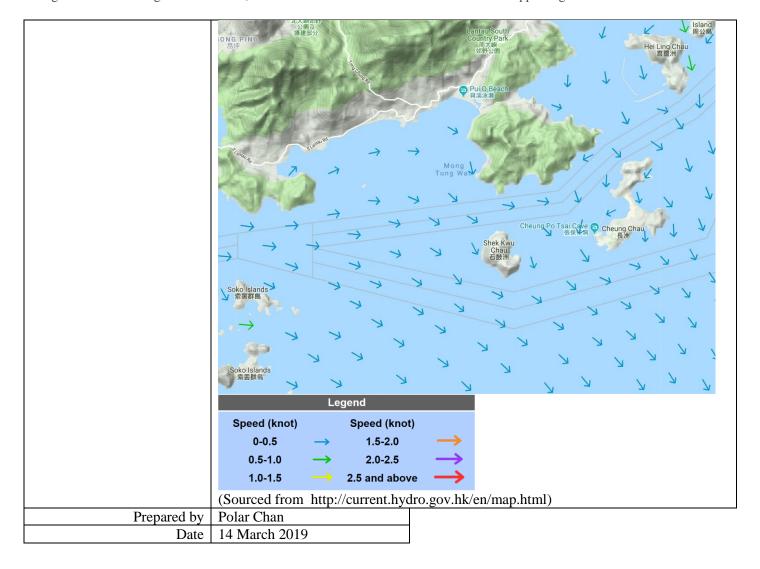
Project	Integrated Waste Management Facilities, Phase 1	
Date	8 March 2019 (Lab result received on 13 March 2019)	
Time	16:37 – 19:00 (Mid-Flood)	
Monitoring Location	Mid-Flood I2: A (N22°11.335 E113° 59.023) I3: B (N22°11.379 E113° 59.020) I4: C (N22°11.446 E113° 59.054) I9: D (N22°11.446 E113° 59.018) I10: E (N22°11.482 E113° 59.004)	
	后股州 Shek Kwu Chau 3 后景州从出 中世沿 第一章 第一章 Winter Management of the Principal and Winter Management in Prince 1	Image may be subject to copyright. 200 m
	IN THE TOTAL STATE OF THE TOTAL	UC2
Parameter	Note: Drawing is not to scale Suspended Solid (SS)	Tide Direction

Action & Limit Levels	Action Level		Limit Level	
	\geq 5.6 mg/L (120% of average of UC1 & \geq 6.1 mg		\geq 6.1 mg/L (1)	30% of average of UC1 &
	UC2)	UC2)		J
Measurement Level	Impact Station(s) of	Control Stations		Impact Station(s) without
	Exceedance			Exceedance
	7.5 mg/L (I2)	5.2 mg/L (UC1)		3.8 mg/L (I1)
	6.5 mg/L (I3)	4.2 mg/L (UC2)		4.3 mg/L (I5)
	6.5 mg/L (I4)	-		5.0 mg/L (I6)
	5.8 mg/L (I9)			4.5 mg/L (I7)
	5.7 mg/L (I10)			4.7 mg/L (I8)
Possible reason for Action or	Works schedule on site on 08			
Limit Level Non-compliance	laying of sand blanket at cais			•
	works, DCM main works and	l removal of s	urface rock at ve	ertical blockwork seawall
	area.			
			1. 1. 6. 6.	d X Y . d
	Dominating sea current direc		to be from Sou	itheast to Northwest at
	waters around Shek Kwu Chau.			
	Enom MMO monitoring room	nda on 00/02	MMO taama wa	ma amman and to one DCM
	From MMO monitoring records on 08/03, MMO teams were arranged to one DCM barge (ESC-61) and three derrick barges (DL-5, Shun Tat D12 & FTB-19) on that day			
	while no deficiency of silt curtain was found before the start of construction activity.			
	I2, I3, I4, I9 & I10 are located close to the work location within the Project site while			
	silt curtain checking was implemented on DL-5 (08:30) by the Contractor and			
	checking results showed that no deficiency of silt curtain was found on that day. No			
	sand blanket laying scheduled on Shun Tat D12, FTB-19, Cheung Kee No.7 & Kam Ying No.8 were carried out due to wavy condition with referring to the site diary on			
	that day. No DCM main works scheduled on ESC-61 was carried out due to wavy			
	condition with referring to the site diary on that day. No surface rock removal works			
	scheduled on GD-851 was carried out due to wavy condition with referring to the site			
	diary on that day. When compared to the baseline data of dry season (Action Level:			
	8.0 mg/L & Limit Level: 10.0 mg/L), most of the monitoring stations (including			
	upstream control station UC1	and UC2) we	ere relatively lov	v, it might suggest that the
	SS exceedance at I2, I3, I4, I9 & I10 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 04/03, where no major observation of improper site practice that might			
	contribute to the increase in S			•
Actions taken / to be taken	Examination of environmenta	•	•	•
	weekly inspection, and the Contractor is remained to implement all applicable			
	mitigation measures as per th	_		
Remarks	Current direction during mid-	flood samplin	ig on 08/03:	





Parameter	Suspended Solid (SS)			
Action & Limit Levels	•		Limit Level	
	≥ 5.1 mg/L (120% of average of UC1 & UC2)		≥ 5.5 mg/L (130% of average of UC1 & UC2)	
Measurement Level	Impact Station(s) of Exceedance	Control Stations		Impact Station(s) without Exceedance
	5.3 mg/L (I2) 5.8 mg/L (I7) 6.8 mg/L (I8) 7.8 mg/L (I9) 5.2 mg/L (I10)	3.8 mg/L (UC1) 4.7 mg/L (UC2)		4.0 mg/L (I1) 4.7 mg/L (I3) 3.8 mg/L (I4) 4.2 mg/L (I5) 4.0 mg/L (I6)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 10/03 include laying of geotextile at caisson breakwat			a and caisson seawall area, DCM main works, DCM rork seawall area.
	From MMO monitoring records on 10/03, MMO teams were arranged to one DCM barge (ESC-61) and four derrick barges (Shun Tat D12, GD-851, DL-5 & FTB-19) on that day while no deficiency of silt curtain was found before the start of construction activity.			
	I2, I7, I8, I9 & I10 are located close to the work location within the Project site while silt curtain checking was implemented on DL-5 (08:30), FTB19 (07:45), ESC-61 (08:00) and Shun Tat D12 (08:50) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled on Cheung Kee No.7 & Kam Ying No.8 were carried out with referring to the site diary on that day. No surface rock removal works scheduled on GD-851 was carried out with referring to the site diary on that day. When compared to the baseline data of dry season (Action Level: 8.0 mg/L & Limit Level: 10.0mg/L), most of the monitoring stations (including upstream control station UC1 and UC2) were relatively low, it might suggest that the SS exceedance at I2, I7, I8, I9 & I10 are deemed to be unrelated to the Project.			TB19 (07:45), ESC-61 hecking results showed that d blanket laying works harried out with referring to scheduled on GD-851 was en compared to the baseline 10.0mg/L), most of the 21 and UC2) were relatively
	Site tidiness in the present barges in the Project site were checked during inspection on 12/03, where part of silt curtain at the back location of the booken and floated on surface on ESC-61. However, according to the combaseline data as detailed in the previous paragraph, this observation was reconsidered as the source of SS exceedance. Part of the silt curtain at the back location of the barge was maintained on Contractor was reminded to keep tracking on the status of the deployed siduring construction works.			ocation of the barge was ding to the comparison with servation was not
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-ebb sampling on 10/03:			



Project	Integrated Waste Management Facilities, Phase 1				
Date	13 March 2019 (Lab result received on 18 March 2019)				
Time	14:52 – 18:22 (Mid-Ebb)				
Mid-Ebb					
Monitoring Location	H1 & S1	B2 4 PROPOSED 132RV SUBMARINE CABLES B3 S2 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED 0UTFALL THE INVMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)		_		
Action & Limit Levels	Action Level	Limit Level			
retion & Emili Ecvers	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/L}$			
Measurement Level Possible reason for Action or	Impact Station(s) of Exceedance 8.8 mg/L (M1) 8.0 mg/L (S1) Works scheduled on site on 1	Control Stations 5.7 mg/L (C1) 6.3 mg/L (C2)	Impact Station(s) without Exceedance 7.0 mg/L (B1) 6.8 mg/L (B2) 4.3 mg/L (B3) 5.3 mg/L (B4) 5.8 mg/L (F1) 5.2 mg/L (H1) 4.3 mg/L (CR1) 6.2 mg/L (CR2) 5.2 mg/L (S2) 5.2 mg/L (S3) ctile at caisson breakwater		
Limit Level Non-compliance	area, laying of sand blanket at both caisson breakwater area and caisson seawall area, post cone penetration test works, DCM sample coring for DCM main works, DCM main works, removal of surface rock at vertical blockwork seawall area and levelling rockfill at static loading test area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. M1 and S1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring stations are deemed to be unrelated to the Project.				

From MMO monitoring records on 13/03, MMO teams were arranged to one DCM barge (ESC-61) and five derrick barges (Shun Tat D12, FTB-19, DL-5, Cheung Kee No.7 & GD851) on that day while no deficiency of silt curtain was found before the start of construction activity. Silt curtain checking was implemented on DL-5 (08:30), GD-851 (08:30), ESC-61 (07:30), Cheung Kee No.7 (08:00), FTB-19 (18:00) & Shun Tat D12 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No surface rock removal works scheduled on Kam Ying No.8 was carried out with referring to the site diary on that day. It might suggest that the SS exceedance at M1 and S1 are deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 12/03, where part of silt curtain at the back location of the barge was broken and floated on surface on ESC-61. However, according to the investigation in the previous paragraphs, this observation was not considered as the source of SS exceedance. Part of the silt curtain at the back location of the barge was maintained on 12/03. The Actions taken / to be taken Contractor was reminded to keep tracking on the status of the deployed silt curtain during construction works. 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 13/03: 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) Polar Chan Prepared by Date 19 March 2019

Project	Integrated Waste Management Facilities, Phase 1					
Date	15 March 2019 (Lab result received on 20 March 2019)					
Time	15:37 – 19:00 (Mid-Ebb)					
Mid-Ebb						
Monitoring Location	F1 & M1 B10 S1	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 4 PROPOSED 132KV SUBMARINE CABLES B3 CR1 PROPOSED RECLAIMED AREA FOR THE IYMMF	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				
	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/L}$				
Measurement Level Possible reason for Action or	Impact Station(s) of Exceedance 8.8 mg/L (F1) 8.7 mg/L (M1)	Control Stations 5.3 mg/L (C1) 7.0 mg/L (C2)	Impact Station(s) without Exceedance 5.3 mg/L (B1) 4.8 mg/L (B2) 5.0 mg/L (B3) 5.5 mg/L (B4) 6.2 mg/L (H1) 5.5 mg/L (CR1) 7.7 mg/L (CR2) 7.3 mg/L (S1) 4.7 mg/L (S2) 7.8 mg/L (S3)			
Limit Level Non-compliance	Works scheduled on site on 15/03 include laying of geotextile at caisson breakwater area, laying of sand blanket at caisson seawall area, DCM sample coring for DCM main works, DCM main works, post cone penetration test works and removal of surface rock at vertical blockwork seawall area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. F1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring stations are deemed to be unrelated to the project.					

From MMO monitoring records on 15/03, MMO teams were arranged to one DCM barge (ESC-61) and four derrick barges (Cheung Kee No.7, Cheung Kee No.10, GD-851 & 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 FTB19 (09:00), Cheung Kee No.10 (11:30) and GD-851 (08:30) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying works scheduled on Cheung Kee No.7 was carried out with referring to the site diary on that day. No DCM main works scheduled on ESC-61 was carried out due to adverse wave condition with referring to the site diary on that day. No surface rock removal works scheduled on Kam Ying No.8 & DL-5 were carried out with referring to the site diary on that day. It might suggest that the SS exceedance at F1 and M1 are deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 12/03, where part of silt curtain at the back location of the barge was broken and floated on surface on ESC-61. However, according to the investigation in the previous paragraphs, this observation was not considered as the source of SS exceedance. Actions taken / to be taken Part of the silt curtain at the back location of the barge was maintained on 12/03. The Contractor was reminded to keep tracking on the status of the deployed silt curtain during construction works. 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 15/03: Speed (knot) Speed (knot) 0-0.5 1.5-2.0 2.0-2.5 0.5-1.0 1.0-1.5 2.5 and above (Sourced from http://current.hydro.gov.hk/en/map.html) Prepared by Polar Chan 21 March 2019 Date

Project	Integrated Waste Management Facilities, Phase 1					
Date	20 March 2019 (Lab result received on 22 March 2019)					
Time	14:52 – 19:00 (Mid-Ebb)					
Mid-Ebb						
Monitoring Location	B1, B2, B3, B4, F1, H1, M1, + B1	4 PROPOSED 132KV SUBMARINE CABLES \$2 +	F1 WWU 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	Liı	nit Level			
	\geq 8.4 mg/L (120% of C1)	≥ 1	0.0 mg/L			
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without			
	Exceedance		Exceedance			
Possible reason for Action or	11.0 mg/L (B1) 9.5 mg/L (B2) 10.3 mg/L (B3) 11.8 mg/L (B4) 9.7 mg/L (F1) 8.7 mg/L (H1) 9.7 mg/L (M1) 8.7 mg/L (CR1) 8.7 mg/L (CR2) 9.5 mg/L (S1) 8.5 mg/L (S3) Works scheduled on site on 2	7.0 mg/L (C1) 8.7 mg/L (C2) 20/03 include layin	g of geotextile at caisson breakwater			
Limit Level Non-compliance	area, laying of sand blanket at both caisson breakwater area and caisson seawall area, post cone penetration test works, DCM sample coring for DCM main works, DCM main works and removal of surface rock at vertical blockwork seawall area. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.					
	B1, B2, B3, B4, F1, H1, M1 & S1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedance of these monitoring stations are deemed to be unrelated to the Project.					

From MMO monitoring records on 20/03, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and five derrick barges (Shun Tat D12, GD-851, FTB-19, DL-5 & Cheung Kee No.10) on that day while no deficiency of silt curtain was found before the start of construction activity. H1 is located at upstream location, CR1 is located at downstream direction, CR2 & S3 are located close to the works location within the Project site, while silt curtain checking was implemented on GD-851 (08:30), ESC-62 (07:00), ESC-61 (07:30), FTB-19 (09:40), Shun Tat D12 (09:00) by the Contractor and checking results showed that no deficiency of silt curtain was found on that day. No sand blanket laying scheduled on Cheung Kee No.7 & Cheung Kee No.10 were carried out with referring to site diary on that day. No surface rock removal works scheduled on DL-5 was carried out with referring to the site diary on that day. It might suggest that the SS exceedance at B1, B2, B3, B4, F1, H1, M1, CR1, CR2, S1 & S3 are deemed to be unrelated to the Project, and indicated the high SS background due to natural fluctuation at the waters near SKC. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 20/03, where was no major observation of improper site practice that might contribute to the increase in SS level 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 20/03: 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 23 March 2019 Date

Project	Integrated Waste Management Facilities, Phase 1				
Date	25 March 2019 (Lab result re	eceived on 28 March 2019	9)		
Time	08:00 – 11:40 (Mid-Flood)				
	13:30 – 17:00 (Mid-Ebb)				
	Mid-Flood				
Monitoring Location	M1, CR1, CR2 & S3				
	+ B1 S1	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES \$2 H1 SHEK KWU CHAU CR2 S3 CR PROPOSED RECLAIMED AREA FOR THE IMMIF	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 Lev	70 1		
Action & Limit Levels	$\geq 8.0 \text{ mg/L}$	≥ 10.0 mg			
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
Wedstrement Level	Exceedance	Control Stations	Exceedance		
	8.3 mg/L (M1)	8.7 mg/L (C1)	7.0 mg/L (B1)		
	1	5.3 mg/L (C2)			
	8.8 mg/L (CR1)	3.3 Hig/L (C2)	6.5 mg/L (B2)		
	9.2 mg/L (CR2)		6.5 mg/L (B3)		
	8.3 mg/L (S3)		5.0 mg/L (B4)		
			7.8 mg/L (F1)		
			5.3 mg/L (H1)		
			7.8 mg/L (S1)		
			7.0 mg/L (S2)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 25/03 include laying of geotextile at caisson breakwater area, laying of sand blanket at both caisson breakwater area and caisson seawall area, post cone penetration test works, DCM sample coring for DCM main works, DCM main works, removal of surface rock at vertical blockwork seawall area and dredging at vertical blockwork seawall area. 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) to the works location, exceedance of this monitoring station is deemed to be unrelated to the Project.				

From MMO monitoring records on 25/03, MMO teams were arranged to two DCM barges (ESC-61 & ESC-62) and five derrick barges (Shun Tat D12, GD-851, FTB-19, DL-5 & Cheung Kee No.10) on that day while no deficiency of silt curtain was found before the start of construction activity. CR1 is located at upstream direction, CR2 & S3 are located close to the works location within the Project site while silt curtain checking was implemented by the Contractor on DL-5 (08:30), FTB-19 (20:45), ESC-62 (16:30), ESC-61 (09:15) & Shun Tat D12 (09:30) and checking results showed that no deficiency of silt curtain was found on that day. No construction works scheduled on Cheung Kee No.10 was carried out with referring to the site diary on that day. No surface rock removal work scheduled on GD-851 was carried out with referring to the site diary on that day. It might suggest that the SS exceedance at CR1, CR2 & S3 are deemed to be unrelated to the Project. Site tidiness in the present barges in the Project site was checked during weekly site inspection on 26/03, where damage was observed on the silt curtain at the stern near the anchor on ESC-61. However, according to the investigation in the previous paragraphs, this observation was not considered as the source of SS exceedance. Actions taken / to be taken The damage of silt curtain at the stern near the anchor on ESC-61 was maintained on 01/04. The Contractor was reminded to keep tracking on the status of the deployed silt curtain during construction works. 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. Mid-Ebb Monitoring Location B2, B3, F1, H1, CR2, S2 & S3 SHEK KWU CHAU C1 Key PROPOSED 132KV SUBMARINE CABLE PROPOSED OUTFALL THE IWMF SITE BOUNDARY THE IWMF SITE BOUNDARY Parameter Suspended Solid (SS) Action & Limit Levels Action Level Limit Level \geq 8.4 mg/L (120% of C1) $\geq 10.0 \text{ mg/L}$ Impact Station(s) without Measurement Level Impact Station(s) of **Control Stations** Exceedance Exceedance

	8.5 mg/L (B2)	7.0 mg/L (C1)	7.8 mg/L (B1)		
	9.8 mg/L (B3)	8.5 mg/L (C2)	7.0 mg/L (B4)		
	9.2 mg/L (F1)		7.7 mg/L (M1)		
	9.8 mg/L (H1)		7.5 mg/L (CR1)		
	9.8 mg/L (CR2)		8.3 mg/L (S1)		
			8.3 Hig/L (31)		
	8.5 mg/L (S2)				
D 11 C A 1	8.5 mg/L (S3)	25/02: 1.1.1.:			
Possible reason for Action or	Works scheduled on site on 25/03 include laying of geotextile at caisson breakwater				
Limit Level Non-compliance	area, laying of sand blanket at both caisson breakwater area and caisson seawall area,				
	post cone penetration test works, DCM sample coring for DCM main works, DCM				
	main works, removal of surface rock at vertical blockwork seawall area and dredging				
	at vertical blockwork seawall	area.			
	Dominating sea current direction was found to be from Northwest to Southeast at				
	waters around Shek Kwu Chau.				
	B2, B3, F1 & S2 are located at unrelated stream direction (neither upstream nor				
	downstream, far away) to the	e works location, exceedance	of these monitoring stations		
	are deemed to be unrelated to	the Project.			
	From MMO monitoring reco	ords on 25/03, MMO teams	were arranged to two DCM		
	barges (ESC-61 & ESC-62) a	and five derrick barges (Shun	Tat D12, GD-851, FTB-19,		
	DL-5 & Cheung Kee No.10)	on that day while no deficien	ncy of silt curtain was found		
	•	before the start of construction activity.			
	before the start of construction activity.				
	H1 is located upstream location, CR2 & S3 are located close to the works location				
	within the Project site while silt curtain checking was implemented by the Contractor				
	on DL-5 (08:30), FTB-19 (20:45), ESC-62 (16:30), ESC-61 (09:15) & Shun Tat D12				
	(09:30) and checking results showed that no deficiency of silt curtain was found on				
	· · · · · · · · · · · · · · · · · · ·				
	that day. No construction works scheduled on Cheung Kee No.10 was carried out with				
	referring to the site diary on that day. No surface rock removal work scheduled on				
	GD-851 was carried out with referring to the site diary on that day. It might suggest that the SS exceedance at H1, CR2 & S3 are deemed to be unrelated to the Project.				
	that the SS exceedance at H1	, CR2 & S3 are deemed to be	unrelated to the Project.		
	Site tidiness in the present barges in the Project site was checked during weekly si				
	inspection on 26/03, where damage was observed on the silt curtain at the stern near				
	the anchor on ESC-61. However, according to the investigation in the previous				
		was not considered as the sour			
Actions taken / to be taken	The damage of silt curtain at the stern near the anchor on ESC-61 was maintain				
	01/04. The Contractor was reminded to keep tracking on the status of the deployed silt				
	curtain during construction w	vorks.			
	Examination of environmental performance of the Project will be continued during the				
	weekly inspection, and the Co	-	-		
	-	•	ment an applicable		
	mitigation measures as per th				
Remarks	Current direction during mid-	-flood sampling on 25/03:			

