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

Statistical Summary of Exceedances in the Reporting Period

Water Quality (Regular DCM)				
Location	Action Level	Limit Level	Total	
B1	14	0	14	
B2	15	0	15	
В3	15	1	16	
B4	14	0	14	
CR1	15	0	15	
CR2	20	0	20	
F1A	14	0	14	
H1	14	0	14	
S1	13	0	13	
S2A	17	0	17	
S3	13	0	13	
M1	19	0	19	

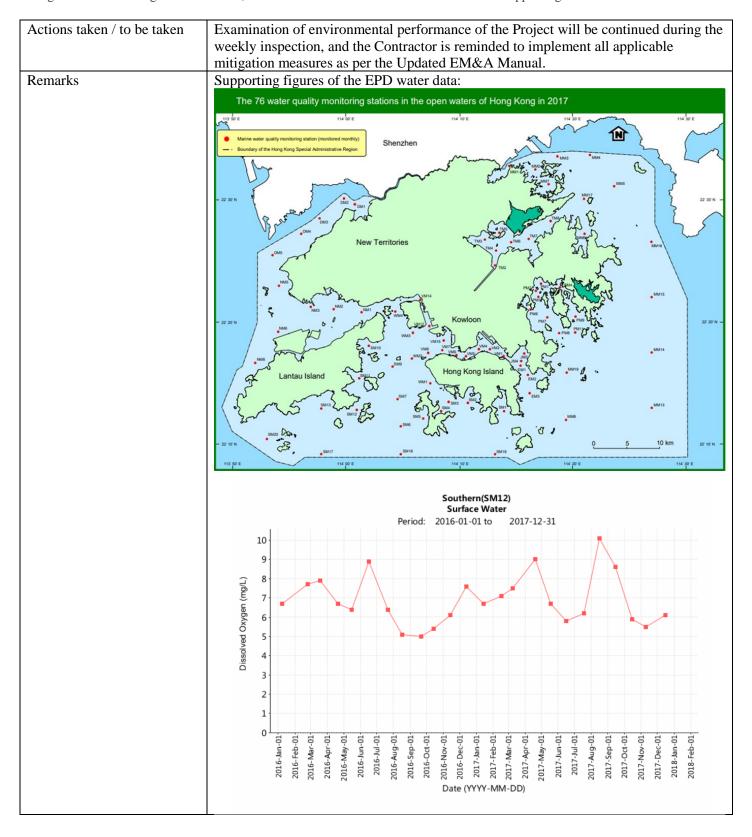
Noise (Day Time)				
Location	Action Level	Limit Level	Total	
M1 / N_S1	0	0	0	
M2 / N_S2	0	0	0	
M3 / N_S3	0	0	0	
	Noise (E	vening Time)		
Location	Action Level	Limit Level	Total	
M1 / N_S1	0	0	0	
M2 / N_S2	0	0	0	
M3 / N_S3	0	0	0	
	Noise (I	Night Time)		
Location	Action Level	Limit Level	Total	
M1 / N_S1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

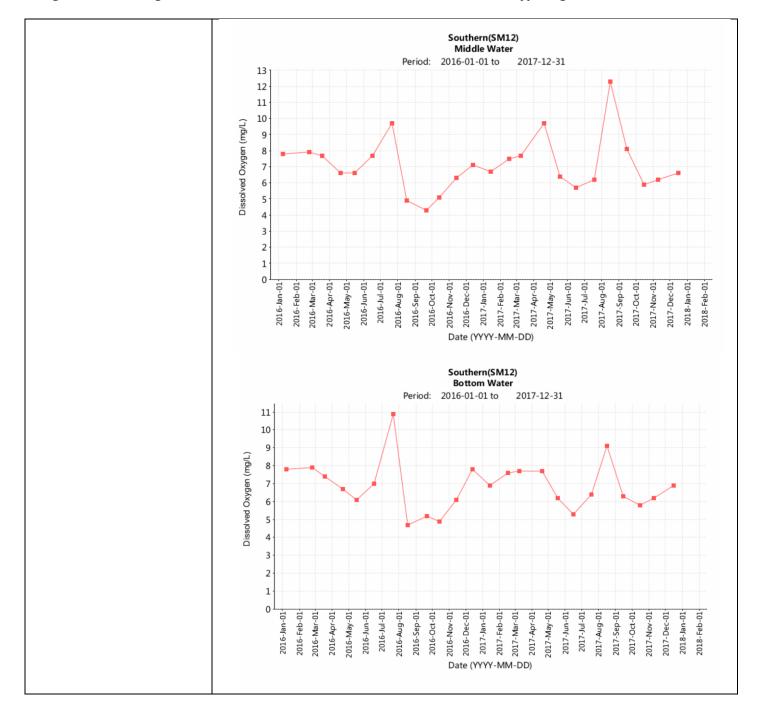
Project	Integrated Waste Management	nt Facilities, Phase 1		
Date	02 Oct 2019 (Lab result received on 08 Oct 2019)			
Time	08:00 – 12:01 (Mid-Flood)			
	Mid-Flood			
Monitoring Location	B3, B4, H1, CR1 & S3			
	+ B1 • S1-	B2 PROPOSED OUTFALL + S2A A PROPOSED 132KV SUBMARINE CABLES B3 S2 H1 SHEK KWU CHAU PROPOSED RECLAIMED AREA FOR THE IMMIF	F1 F1A N F1 F1A N C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit Level		
Action & Limit Levels		≥ 10.0 mg/L		
Measurement Level	\geq 8.0 mg/L Impact Station(s) of	Control Stations	Impact Station(s) without	
Weasurement Level	Exceedance	Control Stations	Exceedance	
	8.0 mg/L (B3)	6.0 mg/L (C1A)	7.0 mg/L (B1)	
	9.3 mg/L (B4)	5.8 mg/L (C2A)	7.8 mg/L (B1) 7.8 mg/L (B2)	
		3.8 Hig/L (C2A)		
	8.2 mg/L (H1)		5.5 mg/L (F1A)	
	10.3 mg/L (CR1)		4.5 mg/L (M1)	
	9.2 mg/L (S3)		6.2 mg/L (CR2)	
			6.0 mg/L (S1)	
			7.2 mg/L (S2A)	
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 02/10 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the sand blanket, rock filling works, flattening the formation of caisson seawall and diving works. Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau. B3 & B4 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. H1 is located at downstream direction, CR1 is located at upstream direction and S3 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-61 (16:33), ESC-62 (16:15), GD-851 (09:30), GD-853 (09:30), Cheung Kee No.10 (08:30) & Kam Ying 8 (08:30) by the Contractor and			

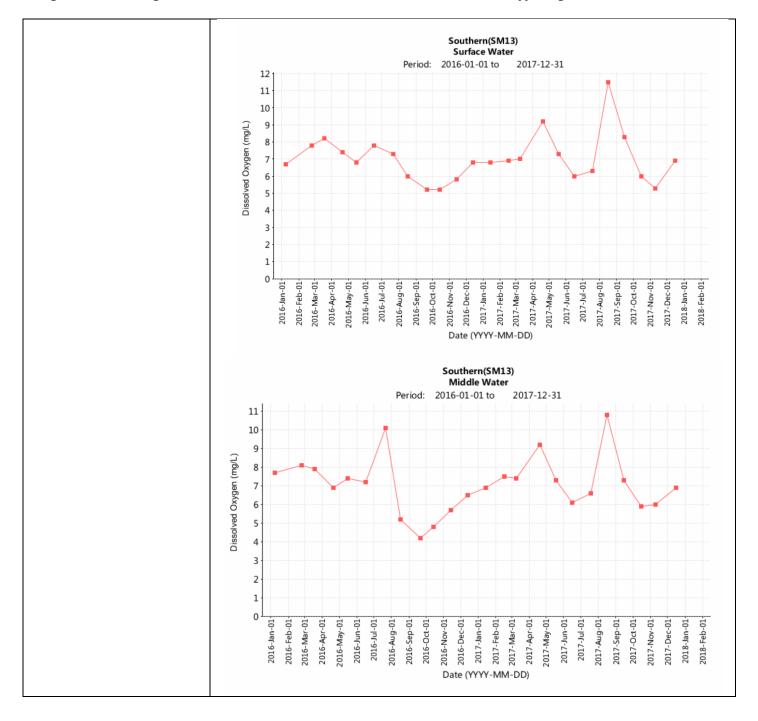
checking results showed that no deficiency of silt curtain was found on that day. As confirmed by the Contractor, UDL-2 was used to store slag materials. From MMO monitoring records on 02/10, MMO teams were arranged for three derrick barges (GD-853, GD-851 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. Kam Ying 8 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that the SS exceedance at H1, CR1 & 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 02/10, where some sediments was observed around the edge of the cage of silt curtain on Kam Ying 8 at 11:00 am, yet the construction activity at Kam Ying 8 was conducted after the sampling event at CR1 & S3 (08:38 am - 09:01 am), thus the situation of Kam Ying 8 was considered irrelevant to the exceedance event. According to the rationale in previous paragraphs, this observation might not contribute to the increase of the suspended solids recorded. Actions taken / to be taken Sediment accumulated on the edge of the silt curtain has been cleaned on 5 October 2019. The Contractor was reminded to clean it regularly to prevent falling into the sea. 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 02/10: 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 09 Oct 2019 Date

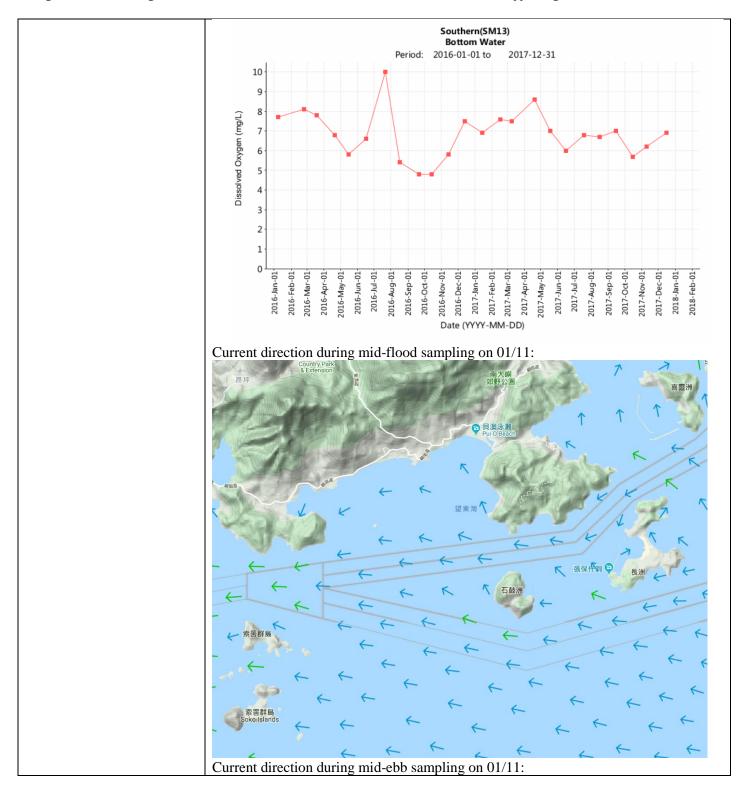
Project	Integrated Waste Management Facilities, Phase 1			
Date	01 November 2019			
Time	08:07 – 11:37 (Mid-Flood)			
	13:39 – 17:09 (Mid-Ebb)			
	Mid-Flood			
Monitoring Location	B1, B2, B3, B4, C1A, C2A, F1A, H1, M1, CR1, CR2, S1, S2A & S3			
	+ B1 S1	ROPOSED OUTFALL + A PROPOSED I SUBMARINE CA PROPOSED RECLAIME FOR THE IMME	SHER KWU CHAU	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Parameter	Dissolved Ovygan (DO)			
Action & Limit Levels	Dissolved Oxygen (DO) Action Level		Limit Level	
Action & Limit Levels				
Measurement Level	\leq 7.13 mg/L Impact Station(s) with	Control Stati	$\leq 4.00 \text{ mg/L}$	Impact Station(s) without
Weasurement Level	Exceedance	Control Stati	IOIIS	Exceedance
	6.74 mg/L (B1)	6.57 mg/L (0	71.4.)	Excedimee
	6.68 mg/L (B2)	6.72 mg/L (0		
	6.89 mg/L (B3)	0.72 mg/L (C	<i>52A)</i>	
	6.83 mg/L (B4)			
	6.67 mg/L (F1A)			
	6.65 mg/L (H1)			
	6.71 mg/L (M1)			
	6.81 mg/L (CR1)			
	6.68 mg/L (CR2)			
	6.80 mg/L (S1)			
	6.65 mg/L (S2A)			
	6.76 mg/L (S3)			
Possible reason for Action or Limit Level Non-compliance	All monitoring stations inclusimilar DO level.	ding control st	ations (C1A &	C2A) exhibited low and
	By reviewing the DO monitoring data in November 2018 of the Project, a fluctuation of DO level was observed in surrounding waters. By reviewing the available data from EPD, the DO level of marine water moni stations SM12 & SM13 in November 2016 & November 2017 is also below A Level (7.13 mg/L) during dry season. Considering the absence of distinct low I			•
				2017 is also below Action

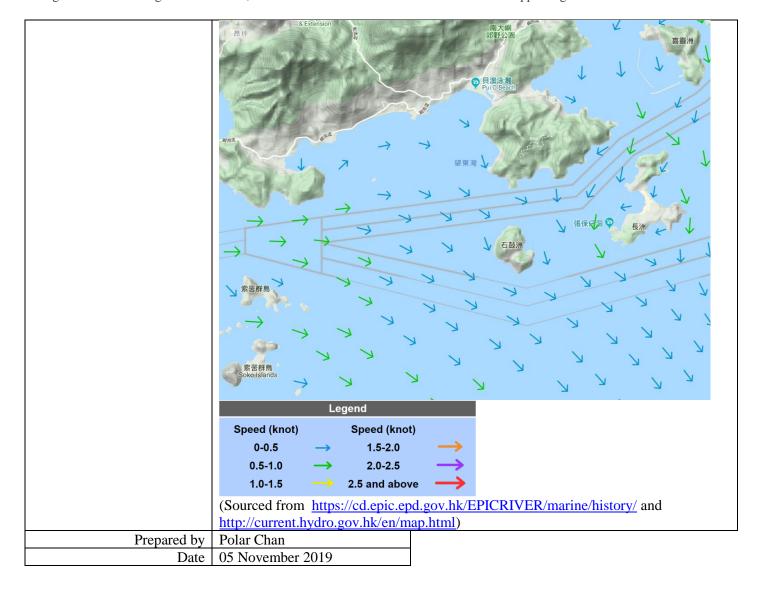
the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at all monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project. Mid-Ebb Monitoring Location B1, B2, B3, B4, C1A, C2A, F1A, H1, M1, CR1, CR2, S1, S2A & S3 C1 Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL PROPOSED RECLAIMED ARE FOR THE IWMF THE IWMF SITE BOUNDARY AND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY Dissolved Oxygen (DO) Parameter Action & Limit Levels Action Level Limit Level $\leq 4.00 \text{ mg/L}$ $\leq 7.13 \text{ mg/L}$ Impact Station(s) of Measurement Level **Control Stations** Impact Station(s) without Exceedance Exceedance 6.55 mg/L (B1) 6.62 mg/L (C1A) 6.55 mg/L (B2) 6.80 mg/L (C2A) 6.54 mg/L (B3) 6.75 mg/L (B4) 6.65 mg/L (F1A) 6.65 mg/L (H1) 6.73 mg/L (M1) 6.80 mg/L (CR1) 6.70 mg/L (CR2) 6.70 mg/L (S1) 6.88 mg/L (S2A) 6.83 mg/L (S3) All monitoring stations including control stations (C1A & C2A) exhibited low and Possible reason for Action or Limit Level Non-compliance similar DO level. By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters. By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at all monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project.











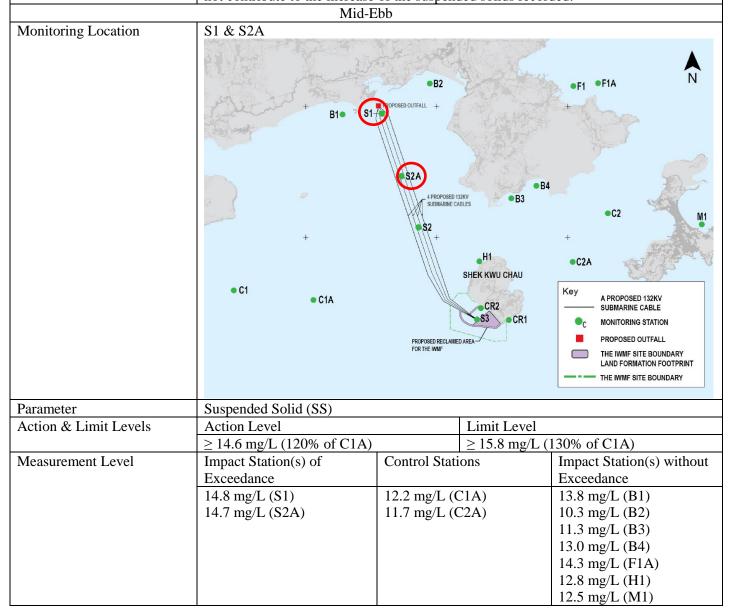
Project	Integrated Waste Management Facilities, Phase 1			
Date	01 Nov 2019 (Lab result received on 06 Nov 2019)			
Time	08:07 – 11:37 (Mid-Flood)			
	13:39 – 17:09 (Mid-Ebb)			
	Mid-Fl	lood		
Monitoring Location	CR2 B1 S1 C1 C1A	PROPOSED OUTFALL + PROPOSED SUBMARINE CO SUBMARINE CO FOR THE INVAF	H1 SHEK KWU CHAU CR2 S3 CR1	F1 F1A N F1 F1A N C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Parameter	Suspended Solid (SS)		1	
Action & Limit Levels	Action Level		Limit Level	
	$\geq 12.8 \text{ mg/L } (120\% \text{ of C2A})$	T = -		130% of C2A)
Measurement Level	Impact Station(s) of	Control Stat	ions	Impact Station(s) without
	Exceedance	9.2 m ~/L (C	1 4 \	Exceedance
	13.5 mg/L (CR2)	8.3 mg/L (C 10.7 mg/L (C		8.3 mg/L (B1) 10.8 mg/L (B2)
		10.7 mg/L (C2A)	10.5 mg/L (B2) 10.5mg/L (B3)
				11.5 mg/L (B4)
				12.2 mg/L (F1A)
				10.5 mg/L (M1)
				11.0 mg/L (H1)
				12.7 mg/L (CR1)
				8.8 mg/L (S1)
				10.2 mg/L (S2A)
				10.8 mg/L (S3)
Possible reason for Action or	Works scheduled on site on (01/11 include	DCM main wor	ks, DCM sample coring for
Limit Level Non-compliance	DCM main works, cone po	enetration test	t, levelling the	slag material, removal of
	temporary storage of surfactions caisson foundation, loading s		-	_
Dominating sea current direction was found to be from So waters around Shek Kwu Chau.			Southeast to Northwest at	
	CR2 is located close to the works location within the Project Site while silt curtain checking was implemented on FTB-19 (07:00), GD853 (07:00), 宏建 1 (19:45), 宏建			-

2 (07:00), 宏建 3 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day.

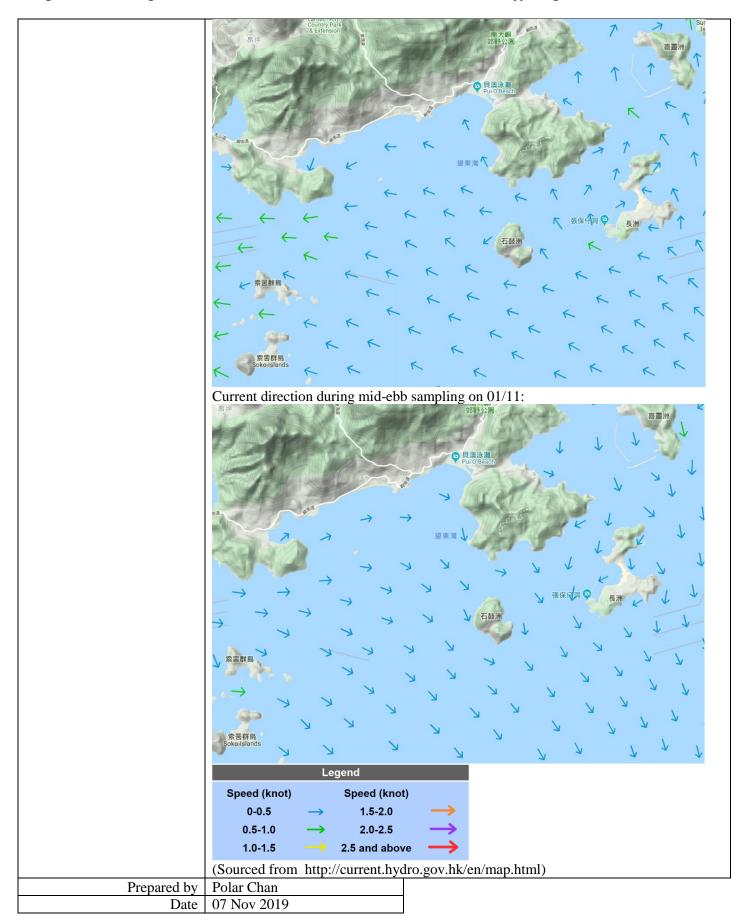
From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (永照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 永照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point.

According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that the 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 29/10, where some sediment was observed on the edge of 港龍 108 and a small part of silt curtain near the boarding area was observed floating up on ESC-62. However, according to the rationale in previous paragraphs, these observations might not contribute to the increase of the suspended solids recorded.

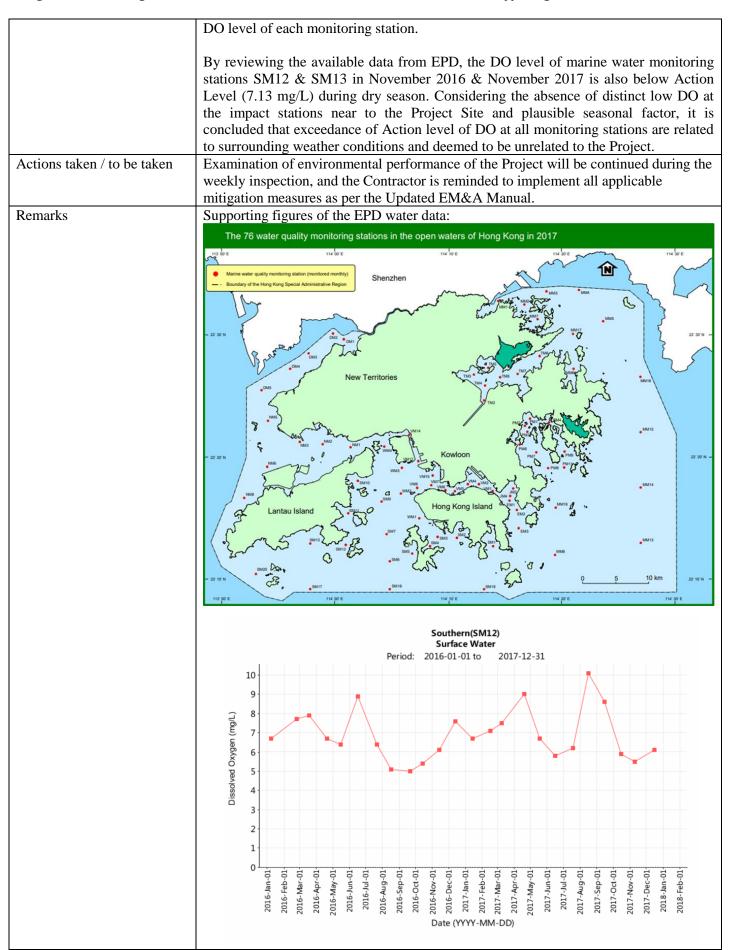


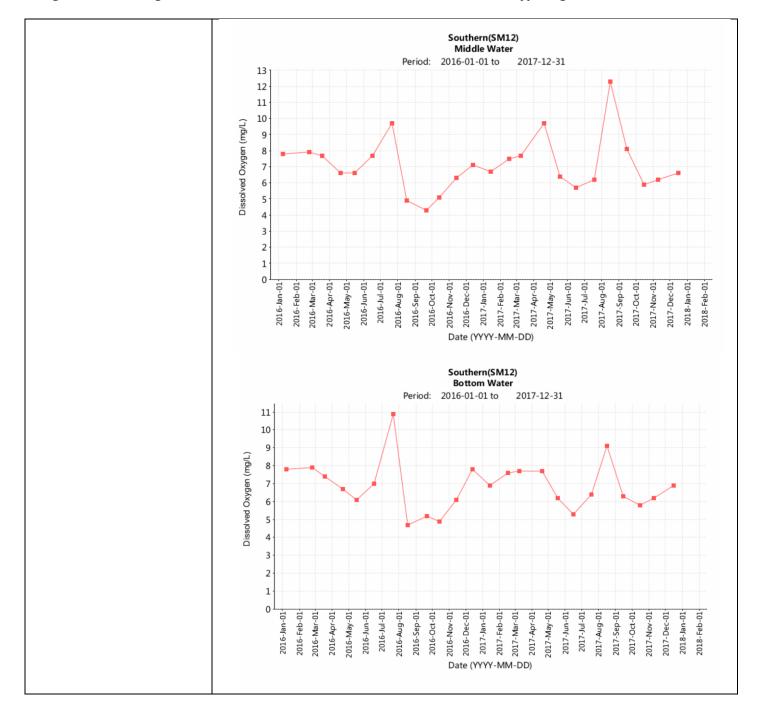
Possible reason for Action or Limit Level Non-compliance Embedding the Section of Limit Level Non-compliance Embedding Section Section (1) and the Section Se		14.0 9.495.0		
Morks scheduled on site on 01/11 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the slag material, removal of temporary storage of surface rock, rock filling works, flattening G200 rockfill of caisson foundation, loading surface rock and levelling the sand blanket. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. SI & S2A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. Silt curtain checking was implemented on FTB-19 (07:00), GD853 (07:00), 宏建 1 (19:45), 宏建 2 (07:00), 爱建 3 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (表照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 未照 18 was carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 未照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point.		11.8 mg/L (CR1)		
Works scheduled on site on 01/11 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the slag material, removal of temporary storage of surface rock, rock filling works, flattening G200 rockfill of caisson foundation, loading surface rock and levelling the sand blanket. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S1 & S2A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. Silt curtain checking was implemented on FTB-19 (07:00), GD853 (07:00), 宏建 1 (19:45), 宏建 2 (07:00), 宏建 3 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (景照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-62 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on A採 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/10, where some sediment was observed floating up on ESC-62. However, according to the rationale in previous paragraphs, these observations might not contribute to the increase of the suspended solids recorded. Actions taken / to be taken Actions taken / to be taken Action ta				
DCM main works, cone penetration test. levelling the slag material removal of temporary storage of surface rock, rock filling works, flattening G200 rockfill of caisson foundation, loading surface rock and levelling the sand blanket. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S1 & S2A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. Silt curtain checking was implemented on FTB-19 (07:00), GD853 (07:00), 宏建 1 (19:45), 宏建 2 (07:00), 宏建 3 (07:00), 金 e No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (永照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 永照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/10, where some sediment was observed on the edge of ### 108 and a small part of silt curtain near the boarding area was observed. Sediment accumulated on the edge of the barge has been cleaned up on 1 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to prevent falling into the sea and to keep the silt curtain in good condition & position. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is				
waters around Shek Kwu Chau. S1 & S2A are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. Silt curtain checking was implemented on FTB-19 (07:00), GD853 (07:00), 宏建 1 (19:45), 宏建 2 (07:00), 宏建 3 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (永照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 永照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/10, where some sediment was observed not the edge of 港龍 108 and a small part of silt curtain near the boarding area was observed floating up on ESC-62. However, according to the rationale in previous paragraphs, these observations might not contribute to the increase of the suspended solids recorded. Actions taken / to be taken Sediment accumulated on the edge of the barge has been cleaned up on 1 November 2019. The silt curtain on ESC-62 has been repaired on 1 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to prevent falling into the sea and to keep the silt curtain in good condition & position. Examination of environmental performance of the Project will be continued during the weekly inspection, and the Contractor is reminded to implement all applicable mit		DCM main works, cone penetration test, levelling the slag material, removal of temporary storage of surface rock, rock filling works, flattening G200 rockfill of		
far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. Silt curtain checking was implemented on FTB-19 (07:00), GD853 (07:00), 宏建 1 (19:45), 宏建 2 (07:00), 宏建 3 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (永照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 永照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/10, where some sediment was observed floating up on ESC-62. However, according to the rationale in previous paragraphs, these observations might not contribute to the increase of the suspended solids recorded. Actions taken / to be taken Actions taken / to be taken Sediment accumulated on the edge of the barge has been cleaned up on 1 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to prevent falling into the sea and to keep the silt curtain in good condition & position. 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.				
(19:45), 宏建 2 (07:00), 宏建 3 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 01/11, MMO teams were arranged for six derrick barges (永照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 永照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/10, where some sediment was observed on the edge of 港龍 108 and a small part of silt curtain near the boarding area was observed floating up on ESC-62. However, according to the rationale in previous paragraphs, these observations might not contribute to the increase of the suspended solids recorded. Actions taken / to be taken Sediment accumulated on the edge of the barge has been cleaned up on 1 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to prevent falling into the sea and to keep the silt curtain in good condition & position. 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.		far away) to the works location, exceedances of these monitoring stations are deemed		
barges (永照 18, GD853, FTB-19, 宏建 1, 宏建 2 & Cheung Kee No.10) and two DCM barges (ESC-61 & ESC-62). No DCM main works scheduled on ESC-61 and ESC-62 were carried out with refer to the site diary on the that day. No slag material levelling work scheduled on 永照 18 was carried out with refer to the site diary on that day. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 29/10, where some sediment was observed on the edge of 港龍 108 and a small part of silt curtain near the boarding area was observed floating up on ESC-62. However, according to the rationale in previous paragraphs, these observations might not contribute to the increase of the suspended solids recorded. Actions taken / to be taken Sediment accumulated on the edge of the barge has been cleaned up on 1 November 2019. The islt curtain on ESC-62 has been repaired on 1 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to prevent falling into the sea and to keep the silt curtain in good condition & position. 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.		(19:45), 宏建 2 (07:00), 宏建 3 (07:00) & Cheung Kee No.10 (07:00) and checking		
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weekly inspection, and the Contractor is reminded to implement all applicable mitigation measures as per the Updated EM&A Manual.	Actions taken / to be taken	2019. The silt curtain on ESC-62 has been repaired on 1 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to prevent		
Remarks Current direction during mid-flood sampling on 01/11:		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 01/11:		

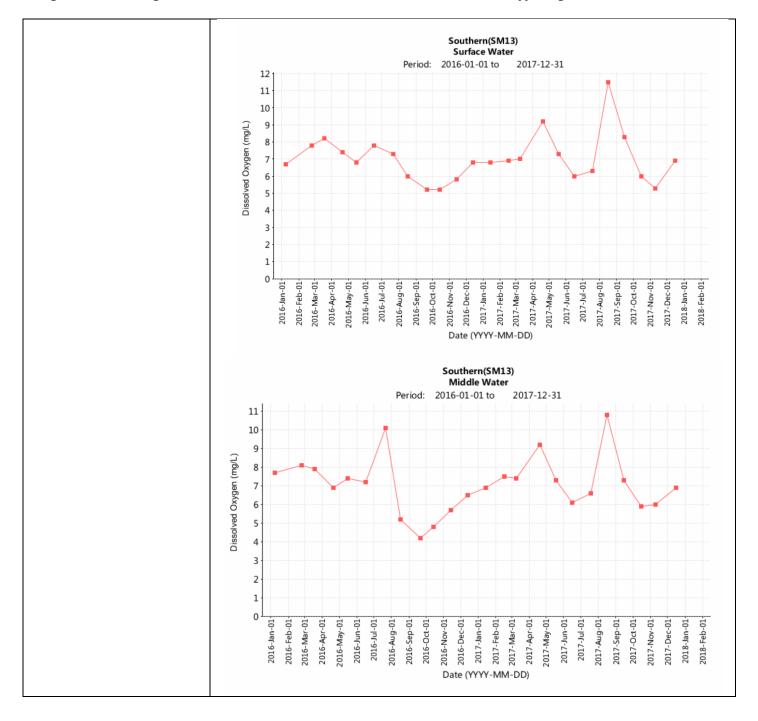


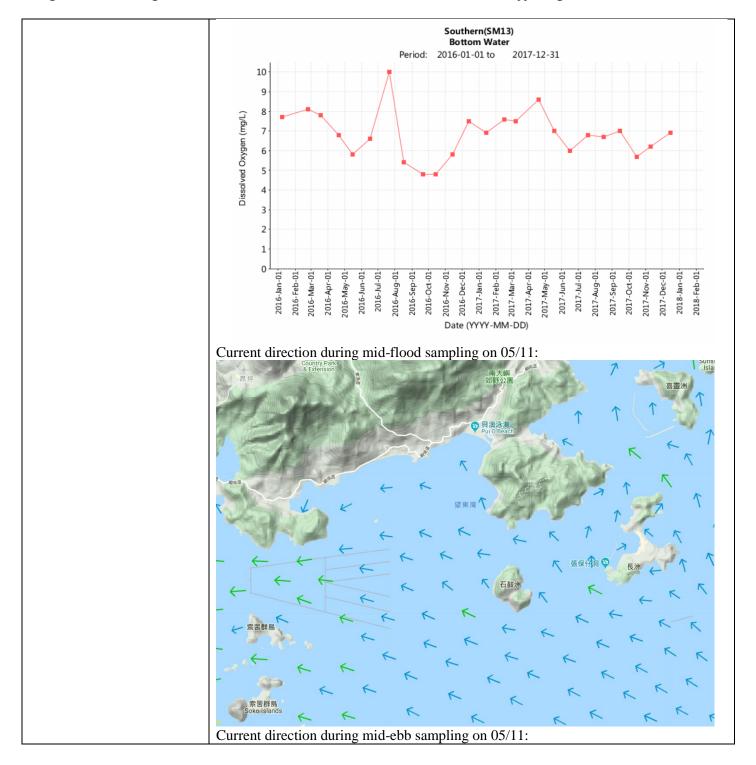
Project	Integrated Waste Manageme	nt Facilities, Pl	nase 1	
Date	05 November 2019			
Time	12:41 – 16:11 (Mid-Flood)			
	08:00 – 10:43 (Mid-Ebb)			
	Mid-F	lood		
Monitoring Location	B1, B2, B3, B4, C1A, C2A,	F1A, H1, M1,	CR1, CR2, S1,	S2A & S3
	+ B1	ROPOSED OUTFALL + A PROPOSED 13 SUBMARINE CAI PROPOSED RECLAIMET FOR THE IMMIF	SHER KWU CHAU	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
D	D: 1 10 (D0)			
Parameter	Dissolved Oxygen (DO)	1	* · · · * · ·	
Action & Limit Levels	Action Level		Limit Level	
N	≤7.13 mg/L	G : 15: ::	\leq 4.00 mg/L	
Measurement Level	Impact Station(s) with	Control Stati	ons	Impact Station(s) without Exceedance
	Exceedance	6.94 == =/1. (6	71 A)	Exceedance
	7.01 mg/L (B1)	6.84 mg/L (C		
	6.91 mg/L (B2)	7.03 mg/L (C	.2A)	
	6.96 mg/L (B3)			
	6.79 mg/L (B4)			
	6.76 mg/L (F1A)			
	6.87 mg/L (H1)			
	6.70 mg/L (M1)			
	7.07 mg/L (CR1)			
	6.82 mg/L (CR2)			
	6.82 mg/L (S1)			
	6.78 mg/L (S2A)			
	6.86 mg/L (S3)	1		
Possible reason for Action or Limit Level Non-compliance	All monitoring stations incl similar DO level.	uding control	stations (CIA	& C2A) exhibited low and
By reviewing the DO monitoring data in November 2018 of the fluctuation of DO level was observed in surrounding waters. By reviewing the DO monitoring data in November 2018 of the IDO level of each monitoring station is around 8 mg/L which is si DO level of each monitoring station.				_

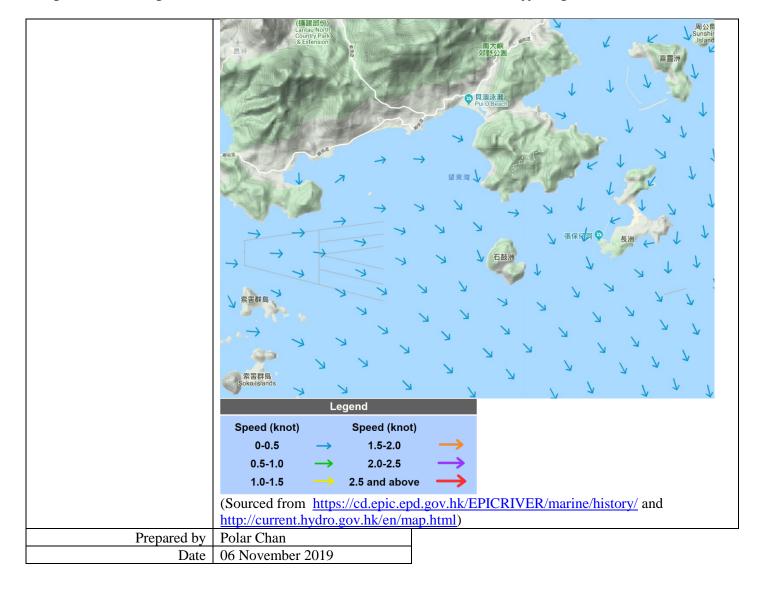
By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at all monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project. Mid-Ebb B1, B2, B3, B4, C1A, C2A, F1A, H1, M1, CR1, CR2, S1, S2A & S3 Monitoring Location SHEK KWU CHAU C1 Key SUBMARINE CABLE MONITORING STATION ROPOSED OUTFALL PROPOSED RECLAIMED ARE THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY Parameter Dissolved Oxygen (DO) Action & Limit Levels Action Level Limit Level $\leq 7.13 \text{ mg/L}$ $\leq 4.00 \text{ mg/L}$ Impact Station(s) of Measurement Level **Control Stations** Impact Station(s) without Exceedance Exceedance 7.02 mg/L (B1) 6.84 mg/L (C1A) 6.84 mg/L (B2) 6.91 mg/L (C2A) 7.02 mg/L (B3) 6.96 mg/L (B4) 6.94 mg/L (F1A) 6.96 mg/L (H1) 6.96 mg/L (M1) 7.02 mg/L (CR1) 6.83 mg/L (CR2) 6.93 mg/L (S1) 6.80 mg/L (S2A) 6.96 mg/L (S3) Possible reason for Action or All monitoring stations including control stations (C1A & C2A) exhibited low and similar DO level. Limit Level Non-compliance By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters. By reviewing the DO monitoring data in November 2018 of the Project, the average DO level of each monitoring station is around 8 mg/L which is similar to the current





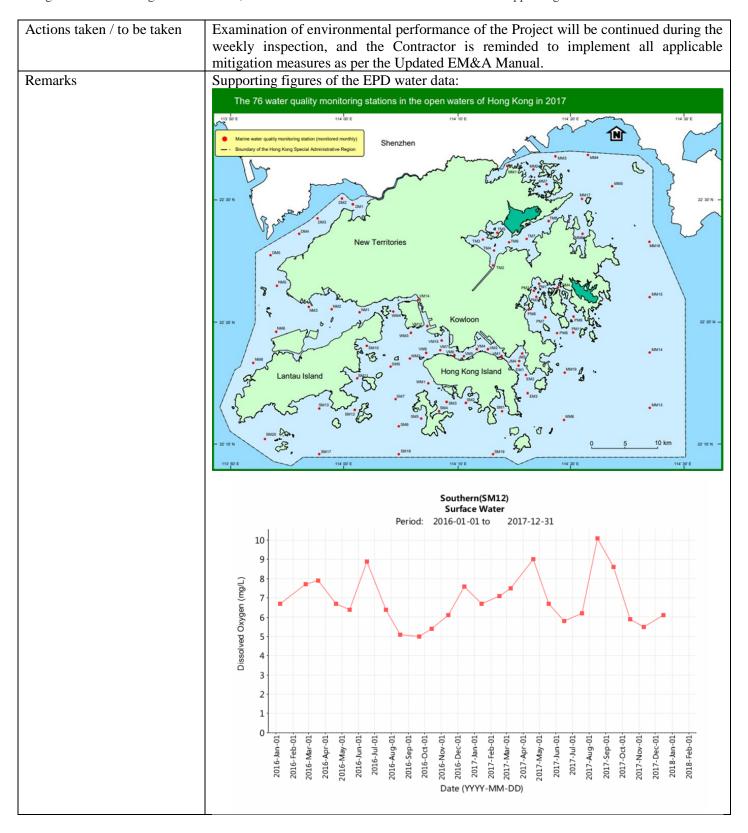


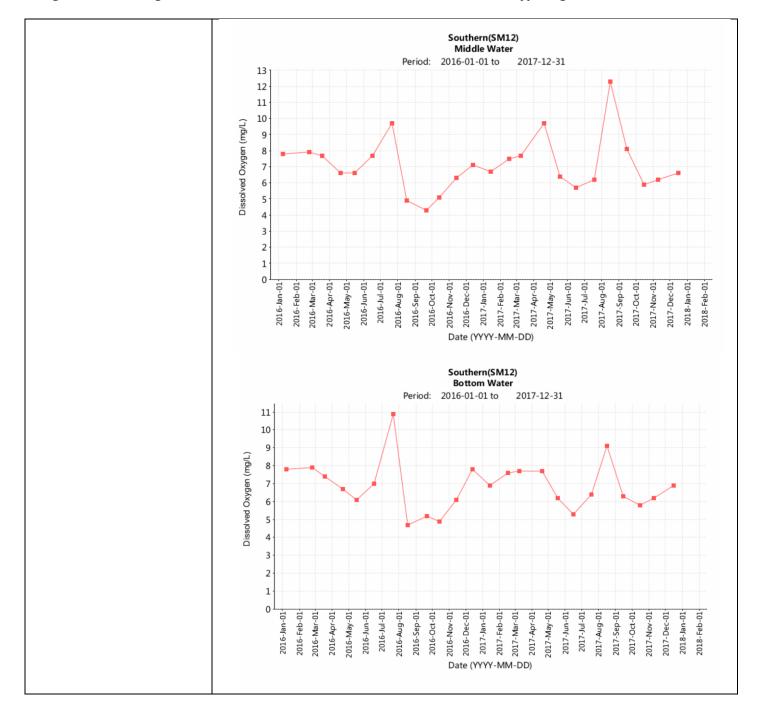


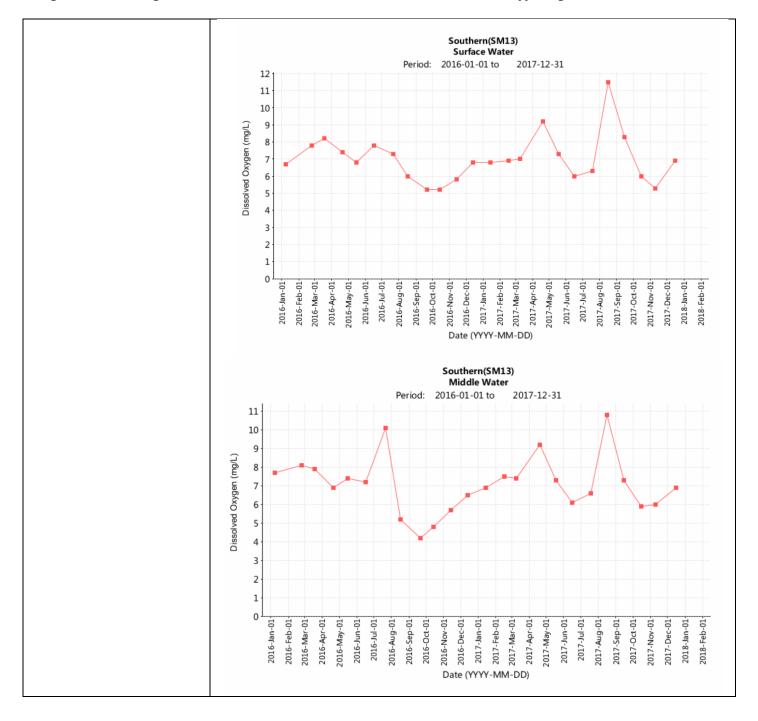


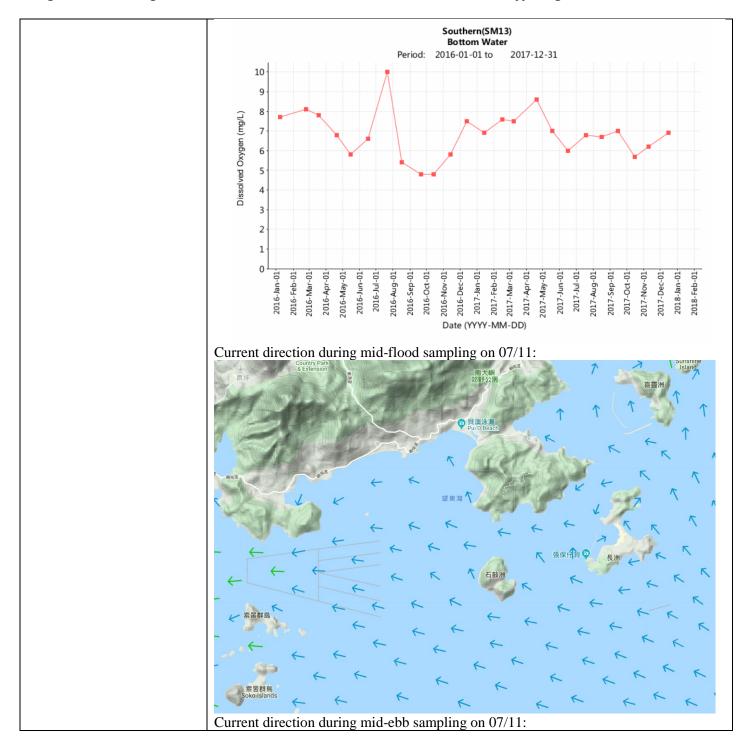
Project	Integrated Waste Manageme	nt Facilities, Pl	hase 1	
Date	07 November 2019			
Time	14:28 – 17:58 (Mid-Flood)			
	08:00 – 11:30 (Mid-Ebb)			
	Mid-F	lood		
Monitoring Location	B1, B2, B3, B4, C1A, C2A,	F1A, H1, M1,	CR1, CR2, S1,	S2A & S3
	+ B10 (S1	PROPOSED RECLAIME FOR THE IMMF	SHER KWU CHAU	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED 0UTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Parameter	Dissolved Oxygen (DO)			
Action & Limit Levels	Action Level		Limit Level	
	≤ 7.13 mg/L	T =	\leq 4.00 mg/L	
Measurement Level	Impact Station(s) with	Control Stati	ons	Impact Station(s) without
	Exceedance	7.00 7.46	71.4.	Exceedance
	7.08 mg/L (B1)	7.00 mg/L (0		
	6.96 mg/L (B2)	7.11 mg/L (C	C2A)	
	6.96 mg/L (B3)			
	6.89 mg/L (B4)			
	6.96 mg/L (F1A)			
	7.09 mg/L (H1)			
	6.93 mg/L (M1)			
	7.09 mg/L (CR1)			
	7.06 mg/L (CR2)			
	6.98 mg/L (S1)			
	6.98 mg/L (S2A)			
	6.99 mg/L (S3)	1		
Possible reason for Action or Limit Level Non-compliance	All monitoring stations incl similar DO level.	uding control	stations (CIA	& C2A) exhibited low and
By reviewing the DO monitoring data in November 2018 of the Projection of DO level was observed in surrounding waters.			-	
	By reviewing the available data from EPD, the DO level of marine water me stations SM12 & SM13 in November 2016 & November 2017 is also below Level (7.13 mg/L) during dry season. Considering the absence of distinct level (7.13 mg/L) during dry season.			2017 is also below Action

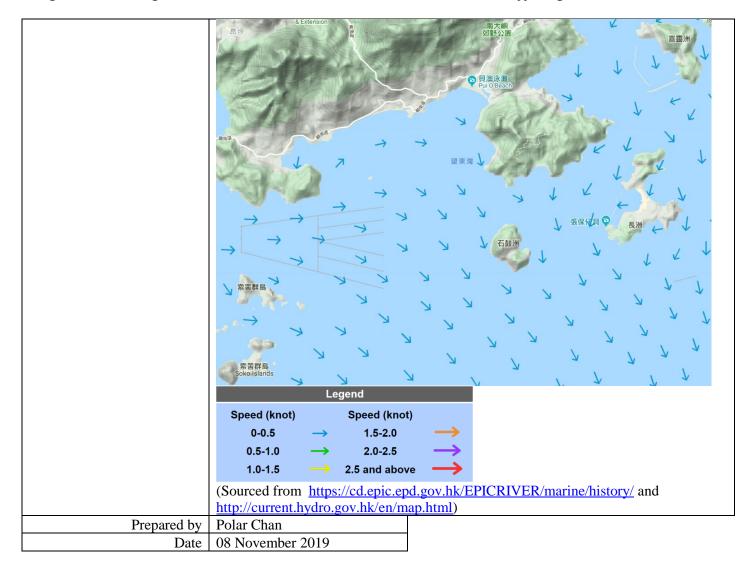
the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at all monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project. Mid-Ebb Monitoring Location B1, B2, B3, B4, C1A, C2A, F1A, H1, M1, CR1, CR2, S1, S2A & S3 C1 Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL PROPOSED RECLAIMED ARE. FOR THE IWMF THE IWMF SITE BOUNDARY AND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY Dissolved Oxygen (DO) Parameter Action & Limit Levels Action Level Limit Level $\leq 7.13 \text{ mg/L}$ $\leq 4.00 \text{ mg/L}$ Impact Station(s) of Measurement Level **Control Stations** Impact Station(s) without Exceedance Exceedance 6.85 mg/L (B1) 6.59 mg/L (C1A) 6.77 mg/L (B2) 6.68 mg/L (C2A) 6.93 mg/L (B3) 6.64 mg/L (B4) 6.69 mg/L (F1A) 6.75 mg/L (H1) 6.83 mg/L (M1) 6.64 mg/L (CR1) 6.64 mg/L (CR2) 6.66 mg/L (S1) 6.69 mg/L (S2A) 6.78 mg/L (S3) All monitoring stations including control stations (C1A & C2A) exhibited low and Possible reason for Action or Limit Level Non-compliance similar DO level. By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters. By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at all monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project.





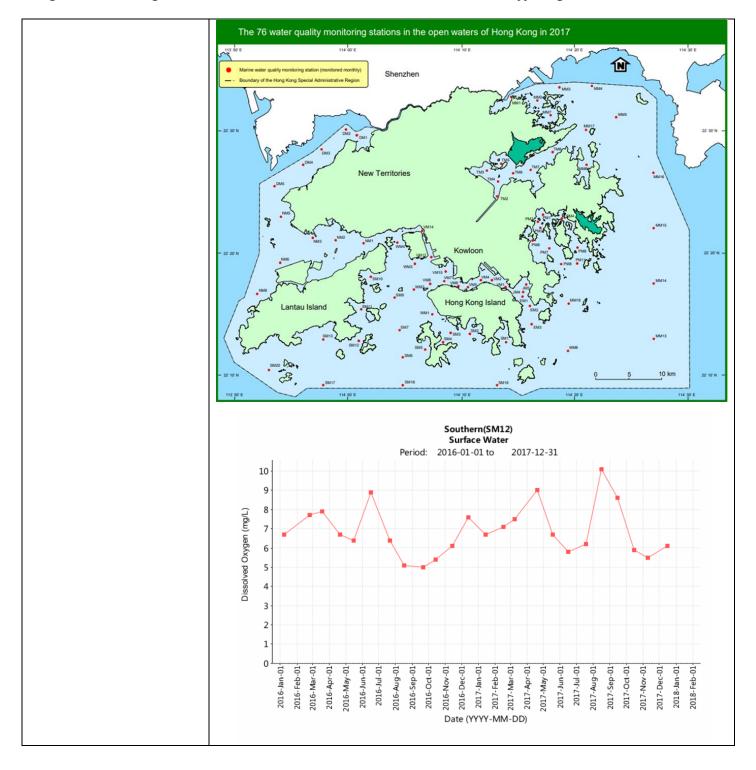


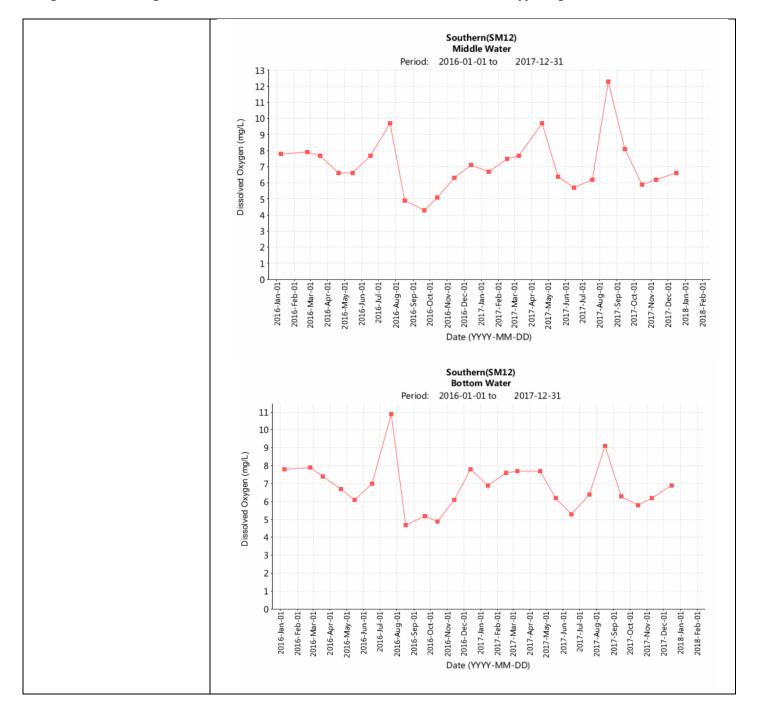


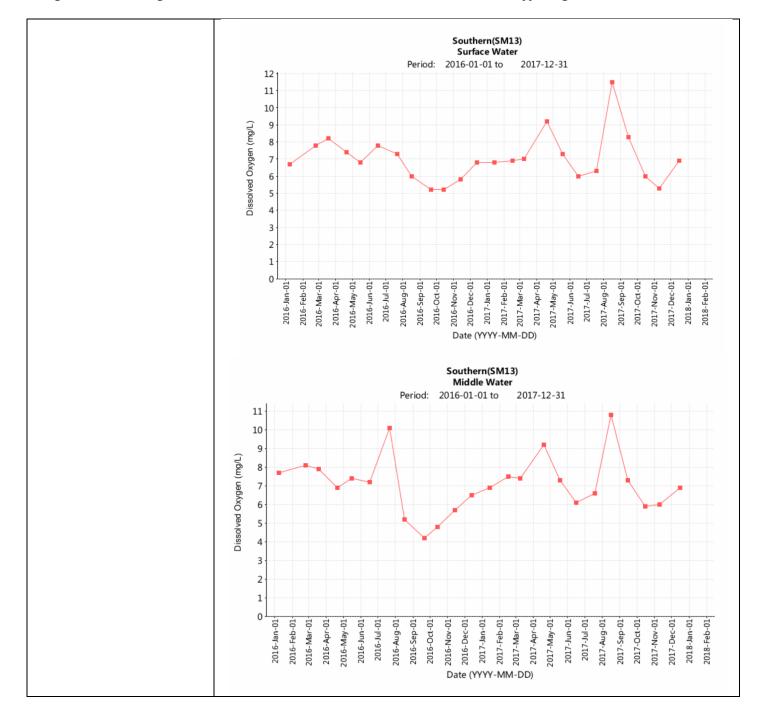


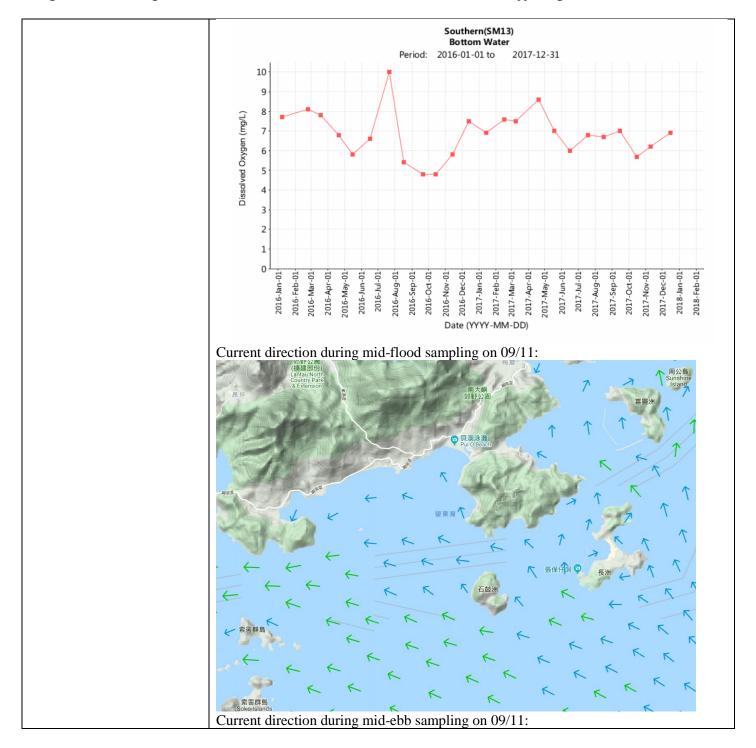
Project	Integrated Waste Managemen	nt Facilities, Phase 1	
Date	09 November 2019	·	
Time	15:10 – 18:40 (Mid-Flood)		
	08:35 – 12:05 (Mid-Ebb)		
	Mid-Fl	lood	
Monitoring Location	B1, B2, B3, C1A, M1, CR1,		
	+ B10 (S1-	S2A 4 PROPOSED 132KV SUBMARINE CABLES B3 B4 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAIMED AREA FOR THE IMMF	F1 F1A N F1 F1A N C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Parameter	Dissolved Oxygen (DO)		
Action & Limit Levels	Action Level	Limit Level	
Action & Limit Levels			
M 1	$\leq 7.13 \text{ mg/L}$	$\leq 4.00 \text{ mg/L}$	Towns of Charles and Social and
Measurement Level	Impact Station(s) with	Control Stations	Impact Station(s) without
	Exceedance		Exceedance
		7 05 / (C1 A)	7 1 4 / (D.4)
	7.09 mg/L (B1)	7.05 mg/L (C1A)	7.14 mg/L (B4)
	6.97 mg/L (B2)	7.05 mg/L (C1A) 7.14 mg/L (C2A)	7.15 mg/L (F1A)
	6.97 mg/L (B2) 7.04 mg/L (B3)	1	7.15 mg/L (F1A) 7.23 mg/L (H1)
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1)	1	7.15 mg/L (F1A)
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1) 7.11 mg/L (CR1)	1	7.15 mg/L (F1A) 7.23 mg/L (H1)
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1)	1	7.15 mg/L (F1A) 7.23 mg/L (H1)
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1) 7.11 mg/L (CR1)	1	7.15 mg/L (F1A) 7.23 mg/L (H1)
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1) 7.11 mg/L (CR1) 7.10 mg/L (CR2)	1	7.15 mg/L (F1A) 7.23 mg/L (H1)
Possible reason for Action or Limit Level Non-compliance	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1) 7.11 mg/L (CR1) 7.10 mg/L (CR2) 7.06 mg/L (S1) 7.08 mg/L (S2A)	7.14 mg/L (C2A) 51, B2, B3, M1, CR1, CR2, S	7.15 mg/L (F1A) 7.23 mg/L (H1) 7.14 mg/L (S3)
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1) 7.11 mg/L (CR1) 7.10 mg/L (CR2) 7.06 mg/L (S1) 7.08 mg/L (S2A) Some monitoring stations (B station (C1A) exhibited low a By reviewing the DO monit fluctuation of DO level was constant of By reviewing the available of stations SM12 & SM13 in Machine Level (7.13 mg/L) during dr	7.14 mg/L (C2A) 11, B2, B3, M1, CR1, CR2, Sand similar DO level. 201 coring data in November 201 observed in surrounding water lata from EPD, the DO level November 2016 & November y season. Considering the above the season of the season o	7.15 mg/L (F1A) 7.23 mg/L (H1) 7.14 mg/L (S3) 1 & S2A) including control 8 of the Project, a seasonal is. of marine water monitoring 2017 is also below Action sence of distinct low DO at
	6.97 mg/L (B2) 7.04 mg/L (B3) 7.13 mg/L (M1) 7.11 mg/L (CR1) 7.10 mg/L (CR2) 7.06 mg/L (S1) 7.08 mg/L (S2A) Some monitoring stations (B station (C1A) exhibited low a By reviewing the DO monit fluctuation of DO level was of the stations SM12 & SM13 in Machine Level (7.13 mg/L) during draw the impact stations near to	7.14 mg/L (C2A) 11, B2, B3, M1, CR1, CR2, Sand similar DO level. 21, B2, B3, M1, CR1, CR2, Sand similar DO level. 22, Sand similar DO level. 23, Sand similar DO level. 24, Sand similar DO level. 25, Sand similar DO level. 26, Sand similar DO level. 26, Sand similar DO level. 27, Sand similar DO level. 28, Sand similar DO level. 29, Sand similar DO level. 20, Sand similar DO level. 21, Sand similar DO level. 21, Sand similar DO level. 22, Sand similar DO level. 23, Sand similar DO level. 24, Sand similar DO level. 25, Sand similar DO level. 26, Sand similar DO level. 26, Sand similar DO level. 27, Sand similar DO level. 28, Sand similar DO level. 29, Sand similar DO level. 20, Sand similar DO level	7.15 mg/L (F1A) 7.23 mg/L (H1) 7.14 mg/L (S3) 1 & S2A) including control 8 of the Project, a seasonal seasonal seasonal factor, it is ese monitoring stations are

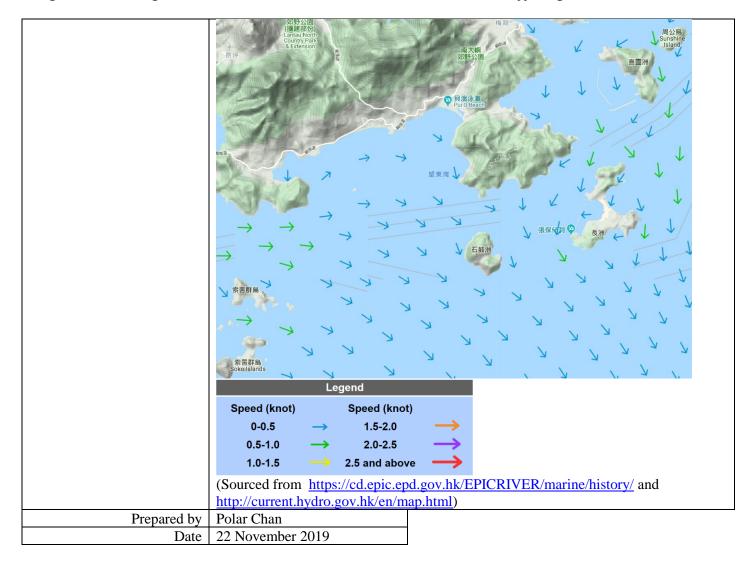
Monitoring Location	B2, B4, C2A, F1A, CR2 & S	52A	
	+ B1 • S1-	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES B3 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE MMF	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Parameter	Dissolved Oxygen (DO)		
Action & Limit Levels	Action Level	Limit Level	
	\leq 7.13 mg/L	$\leq 4.00 \text{ mg/L}$	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	7.10 mg/L (B2) 7.13 mg/L (B4) 7.13 mg/L (F1A) 7.06 mg/L (CR2) 7.03 mg/L (S2A)	7.18 mg/L (C1A) 7.13 mg/L (C2A)	7.15 mg/L (B1) 7.20 mg/L (B3) 7.17 mg/L (H1) 7.17 mg/L (M1) 7.15 mg/L (CR1) 7.26 mg/L (S1) 7.14 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	exhibited low and similar DC By reviewing the DO monit	toring data in November 201	8 of the Project, a seasonal
Actions tolern / to be teles	fluctuation of DO level was observed in surrounding waters. By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at these monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project.		
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	Supporting figures of the EPI		





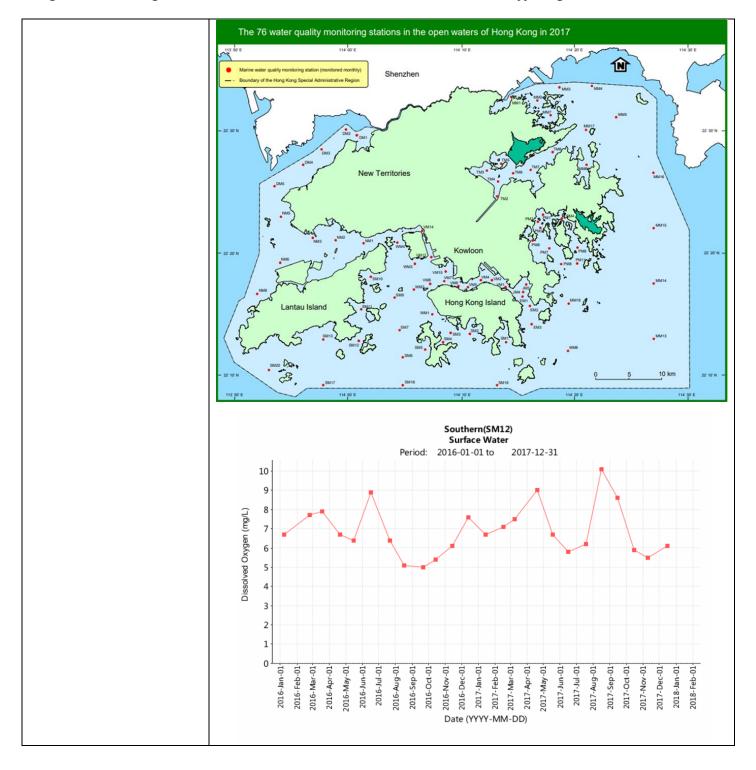


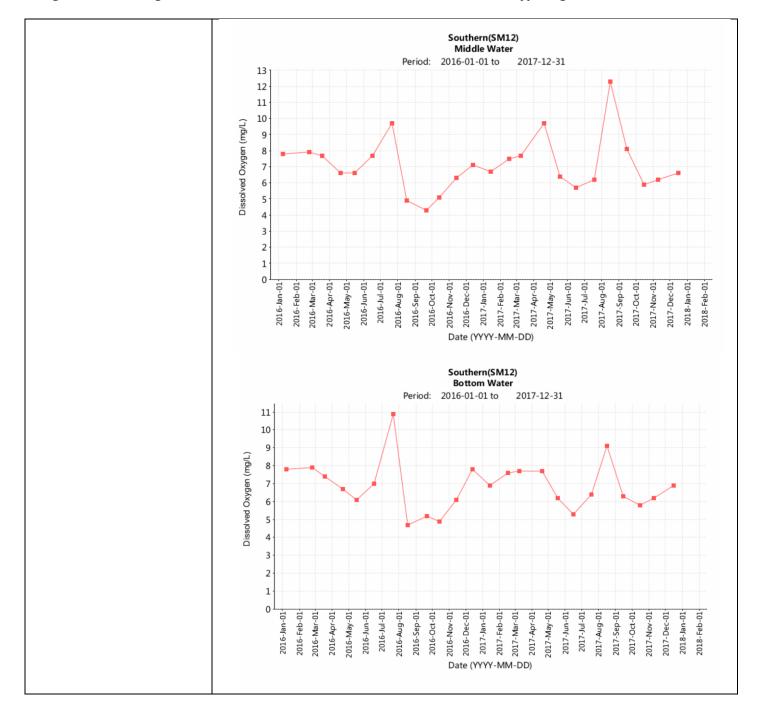


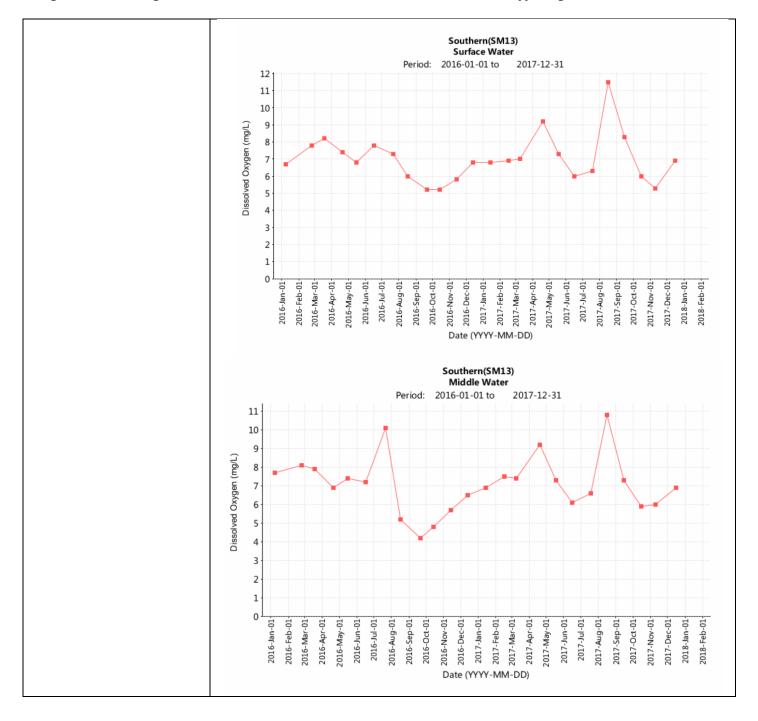


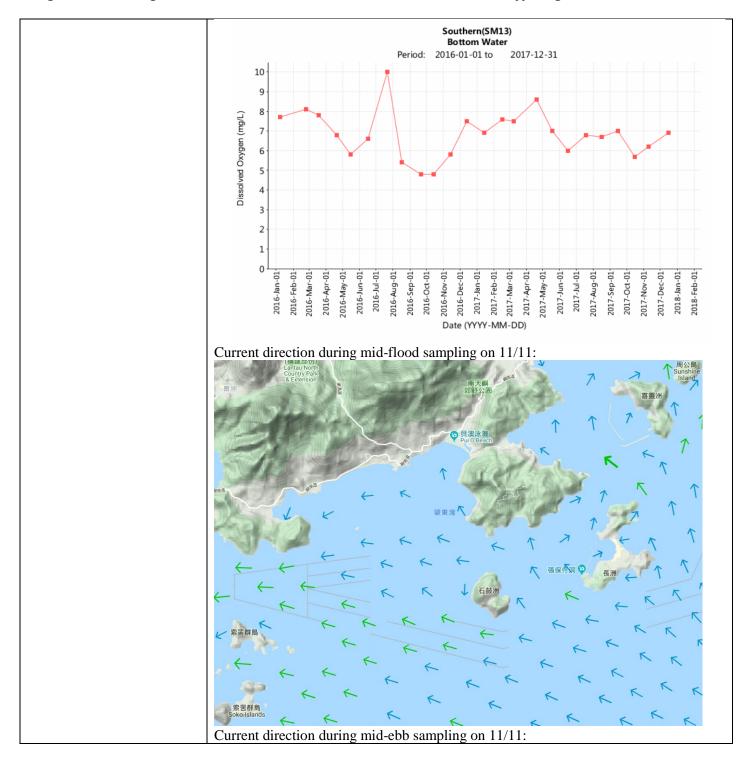
Project	Integrated Waste Managemen	nt Facilities, Phase	: 1		
Date	11 November 2019				
Time	14:35 – 18:05 (Mid-Flood)				
	09:46 – 13:16 (Mid-Ebb)				
	Mid-Flood				
Monitoring Location	CR2 & S2A	MAN AND AND AND AND AND AND AND AND AND A			
	+ B1 • S1-	SHEK	B3 B4 KWU CHAU CR2 33 CR1	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY	
Parameter	Dissolved Oxygen (DO)				
Action & Limit Levels	Action Level	I i	mit Level		
retion & Ellint Ecvels	≤7.13 mg/L		4.00 mg/L		
Measurement Level	Impact Station(s) with	Control Stations		Impact Station(s) without	
Tyreasaroment Zever	Exceedance			Exceedance	
	7.10 mg/L (CR2)	7.22 mg/L (C1A		7.30 mg/L (B1)	
	7.13 mg/L (S2A)	7.18 mg/L (C2A		7.20 mg/L (B2)	
	, , , , , , , , , , , , , , , , , , ,	(0		7.25 mg/L (B3)	
				7.25 mg/L (B4)	
				7.17 mg/L (F1A)	
				7.18 mg/L (H1)	
				7.18 mg/L (M1)	
				7.23 mg/L (CR1)	
				7.26 mg/L (S1)	
				7.20 mg/L (S1) 7.22 mg/L (S3)	
Possible reason for Action or	Two monitoring stations CR2	2 & S2A exhibited	•		
Elinit Level Non-compliance	By reviewing the DO monitoring data in November 2018 of the Project, fluctuation of DO level was observed in surrounding waters.				
	By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at these monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project.			2017 is also below Action ence of distinct low DO at ble seasonal factor, it is the monitoring stations are	

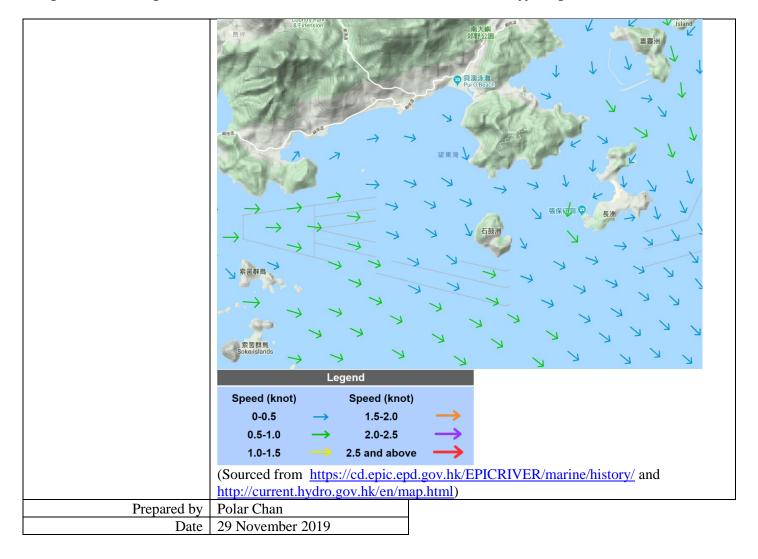
	Mid-E	Ebb		
Monitoring Location	H1 & CR2 + B1 S1-	B2 PROPOSED OUTFALL + PROPOSED 132KV SUBMARINE CABLES B3 S2 H1 SHER RWU CHAU CR1 PROPOSED RECLAIMED AREA FOR THE WMF	C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY	
Parameter	Dissolved Oxygen (DO)			
Action & Limit Levels	Action Level ≤ 7.13 mg/L	Limit Level ≤ 4.00 mg/L		
Measurement Level	Impact Station(s) of Exceedance 7.10 mg/L (H1) 7.11 mg/L (CR2)	Control Stations 7.24 mg/L (C1A) 7.14 mg/L (C2A)	Impact Station(s) without Exceedance 7.19 mg/L (B1) 7.23 mg/L (B2) 7.29 mg/L (B3) 7.33 mg/L (B4) 7.24 mg/L (F1A) 7.19 mg/L (M1) 7.29 mg/L (CR1) 7.16 mg/L (S1) 7.14 mg/L (S2A) 7.16 mg/L (S3)	
Possible reason for Action or Limit Level Non-compliance	By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters. By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at these monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project.			
Actions taken / to be taken	Examination of environments weekly inspection, and the C mitigation measures as per th	contractor is reminded to impl	_	
Remarks	Supporting figures of the EPI			











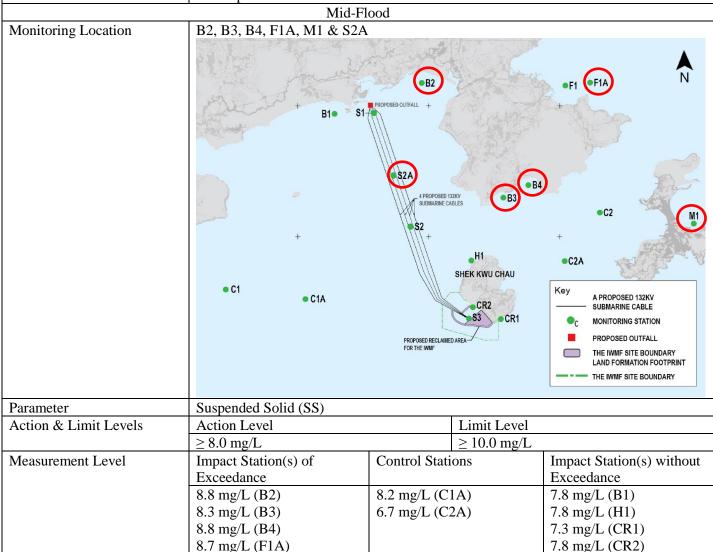
Project	Integrated Waste Managemen	nt Facilities, Phase 1		
Date	11 Nov 2019 (Lab result received on 18 Nov 2019)			
Time	09:46 – 13:16 (Mid-Ebb)			
	14:35 – 18:05 (Mid-Flood)	14:35 – 18:05 (Mid-Flood)		
	Mid-E	Ebb		
Monitoring Location	B1, H1 & CR1			
	+ B1 • S1-	PROPOSED OUTFALL + S2A 4 PROPOSED 132KV SUBMARINE CABLES \$2 H1 SHEK KWU CHA CR2 FROPOSED RECLAIMED AREA FOR THE IMMIF	R1 F1 F1A N N N N N N N N N N N N N	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit Le	evel	
rection & Elimit Ecvels	Action Level Ethnit 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	
ivicusurement Lever	Exceedance	Control Stations	Exceedance	
	9.0 mg/L (B1)	6.3 mg/L (C1A)	7.8 mg/L (B2)	
	8.3 mg/L (H1)	5.8 mg/L (C2A)	7.8 mg/L (B3)	
	8.2 mg/L (CR1)	3.0 mg/L (C2/1)	6.8 mg/L (B4)	
	0.2 mg/2 (CR1)		7.5 mg/L (F1A)	
			6.2 mg/L (M1)	
			7.0 mg/L (CR2)	
			6.8 mg/L (S1)	
			7.3 mg/L (S2A)	
Possible reason for Action or Limit Level Non-compliance	DCM main works, cone po	enetration test, levelling	7.8 mg/L (S3) n works, DCM sample coring for g the slag material, removal of	
	temporary storage of surface rock, rock filling works, flattening G200 rock caisson foundation, loading surface rock and levelling the sand blanket.			
	Dominating sea current dire waters around Shek Kwu Cha		from Northwest to Southeast at	
			r upstream nor downstream, far onitoring station is deemed to be	

H1 is located at upstream and CR1 is located at downstream to the Project site while silt curtain checking was implemented on GD853 (07:00), UDL-2 (07:00), 宏建 3 (07:00), 宏建 5 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day.

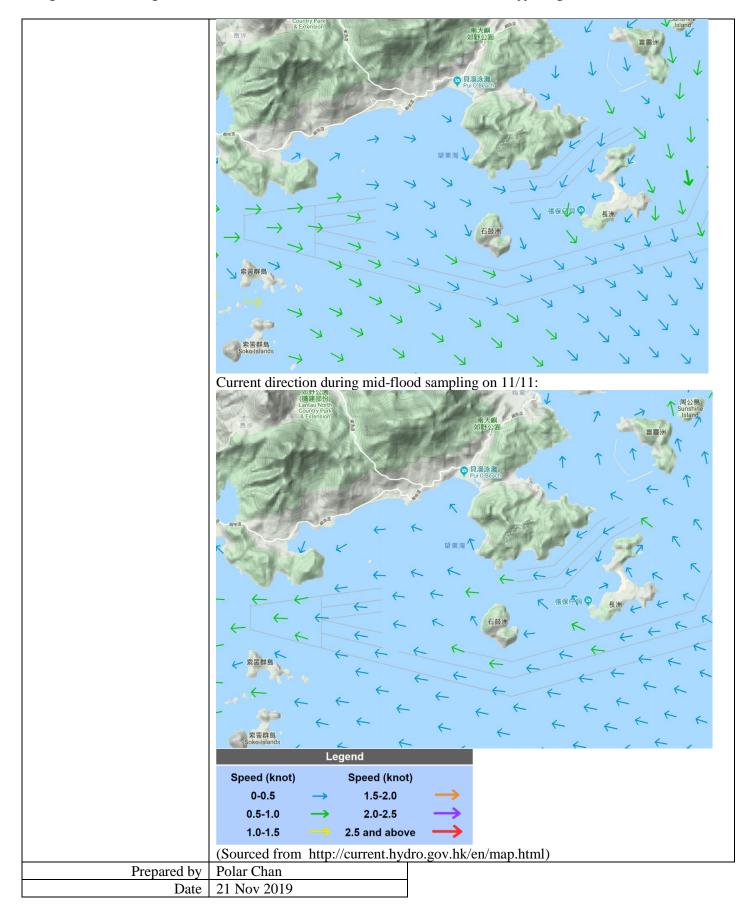
From MMO monitoring records on 11/11, MMO teams were arranged for three derrick barges (Cheung Kee No.10, GD853 & UDL-2) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. 宏建 3 & 宏建 5 were observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with refer to the site diary on that day.

According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that the SS exceedances at H1 and CR1 are deemed to be unrelated to the Project.

Weekly site inspection for Portion 1 (Shek Kwu Chau) was conducted on 04/11 but no boarding of barges within the Project site was made. For reference, site tidiness in the present barges in the Project site were checked during weekly site inspection on 12/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded.



	Too		T = = = :=::		
	8.8 mg/L (M1)		6.5 mg/L (S1)		
	8.7 mg/L (S2A)		6.8 mg/L (S3)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 11/11 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the slag material, removal of temporary storage of surface rock, rock filling works, flattening G200 rockfill of caisson foundation, loading surface rock and levelling the sand blanket.				
	Dominating sea current dire waters around Shek Kwu Cha	ection was found to be from au.	Southeast to Northwest at		
	upstream nor downstream,	S2A are located at unrelated far away) to the works located to be unrelated to the Projection.	ation, exceedances of these		
		nplemented on GD853 (07:00 Cheung Kee No.10 (07:00) are ain was found on that day.			
	derrick barges (Cheung Kee & ESC-62) on that day wh commencement of and durin with no finding (no site def	cords on 11/11, MMO team No.10, GD853 & UDL-2) and nile no deficiency of silt currence construction activity. 宏建 iciency and no potential sound works scheduled in ESC-61 that day.	d two DCM barges (ESC-61 rtain was found before the 3 & 宏建 5 were observed rce of SS) by the MMO at		
		rvation by sampling team & no silt plume was observed in			
	boarding of barges within the present barges in the Project	ortion 1 (Shek Kwu Chau) was e Project site was made. For r site were checked during week roper site practices that could d.	eference, site tidiness in the kly site inspection on 12/11.		
Actions taken / to be taken	Examination of environmenta	al performance of the Project of Contractor is reminded to			
Remarks	Current direction during mid-	-ebb sampling on 11/11:			

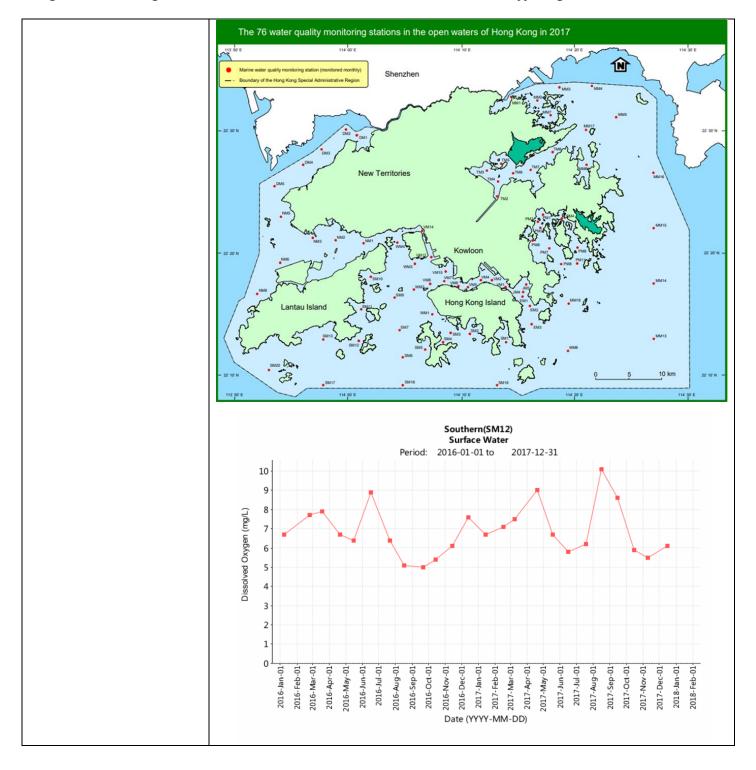


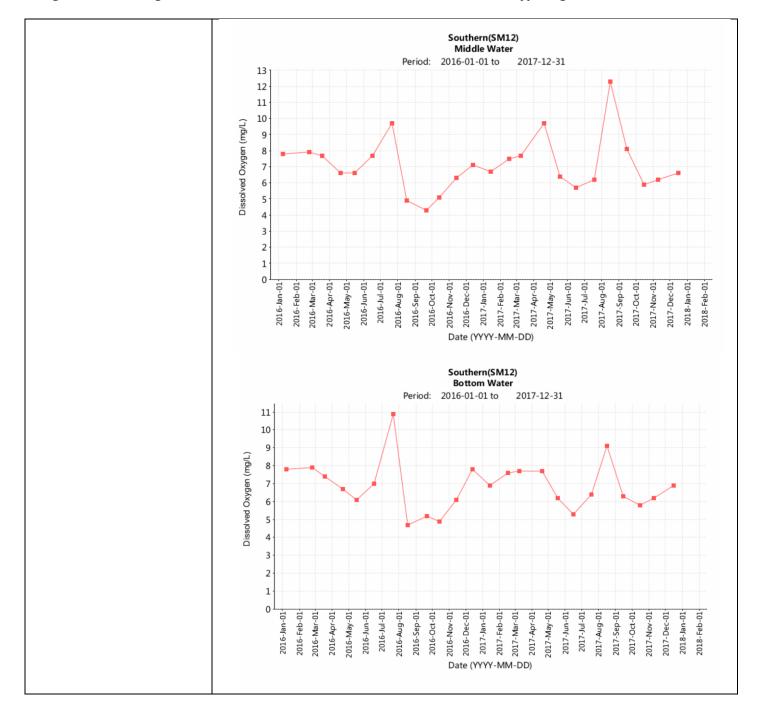
Project	Integrated Waste Management	nt Facilities, Phase 1		
Date	13 Nov 2019 (Lab result received on 18 Nov 2019)			
Time	08:00 – 10:10 (Mid-Flood)			
	Mid-Fl	lood		
Monitoring Location	B1, B2, B3 & H1			
	+ B1 S1-	PROPOSED OUTFALL + S2A 4 PROPOSED 133KV SUBMARNE CABLES S2 H1 SHEK KWU CHAU CR2 S3 CR1 PROPOSED RECLAMED AREA FOR THE IMME	F1 F1A N F1 F1A N N N N N N N N N N N N N	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level Limit Level			
Treation & Emilit Ee vers				
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
	Exceedance		Exceedance	
	8.8 mg/L (B1)	5.0 mg/L (C1A)	6.0 mg/L (B4)	
	9.5 mg/L (B2)	5.2 mg/L (C2A)	5.7 mg/L (F1A)	
	8.3 mg/L (B3)	3.2 mg/2 (3211)	6.7 mg/L (M1)	
	8.0 mg/L (H1)		6.5 mg/L (CR1)	
	8.0 Hig/L (111)			
			6.5 mg/L (CR2)	
			6.0 mg/L (S1)	
			6.7 mg/L (S2A)	
			7.5 mg/L (S3)	
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 13/11 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the slag material, rock filling works, levelling the sand blanket, rock filling works, installation of caisson and loading surface rock.			
	Dominating sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.			
	B1, B2 & B3 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project.			
			hile silt curtain checking was 建 1 (07:00), 宏建 3 (07:00),	

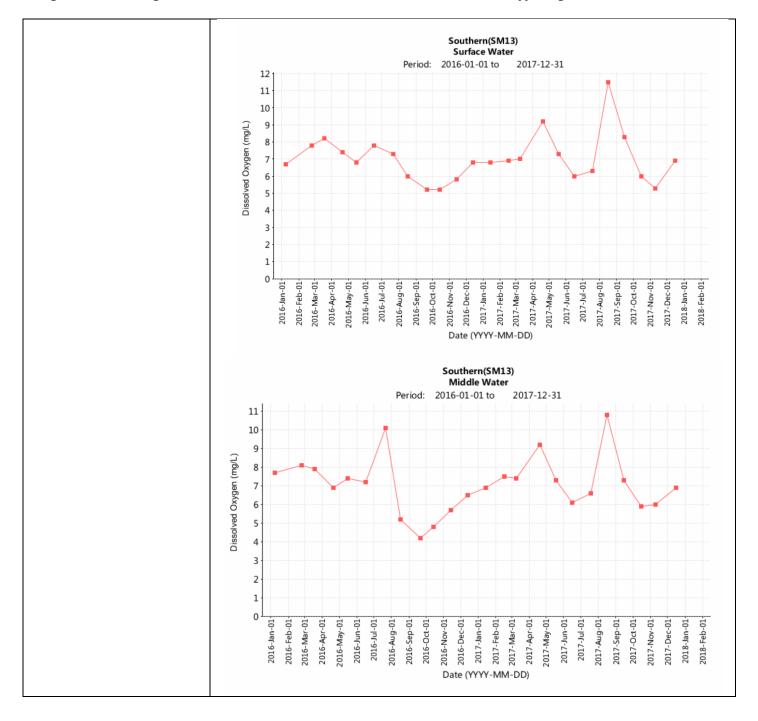
Cheung Kee No.10 (17:00) & Kam Ying 8 (17:00) and checking results showed that no deficiency of silt curtain was found on that day. According to the site document provided by the Contractor, no works record of 宏建 2 & 宏建 5 were stated in the site diary on that day. From MMO monitoring records on 13/11, MMO teams were arranged for three derrick barges (Cheung Kee No.10, GD853 & Kam Ying 8) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. 宏建 3, 宏建 1, 宏建 5, 宏建 2 & UDL-2 were observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM work scheduled in ESC-61 was carried out with refer to the site diary on that day. No slag material levelling work scheduled in UDL-2 was carried out with refer to the site diary on that day. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that the SS exceedance at H1 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 12/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. 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 13/11: Legend 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 21 Nov 2019 Date

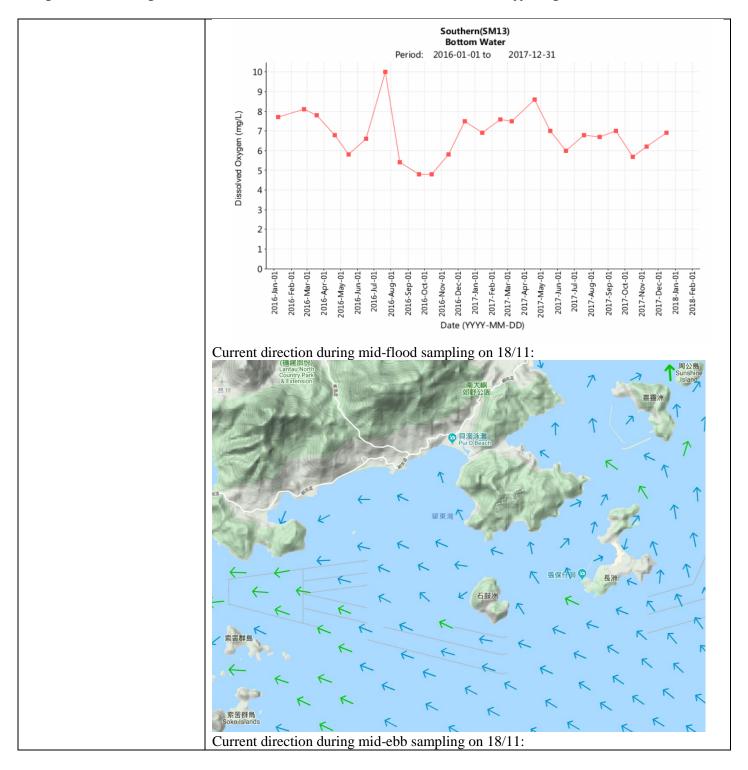
Project	Integrated Waste Manageme	nt Facilities, Pl	hase 1	
Date	18 November 2019			
Time	09:40 – 13:10 (Mid-Flood)			
	15:18 – 17:51 (Mid-Ebb)			
	Mid-F	lood		
Monitoring Location	B1, B2, B3, B4, C1A, C2A,	F1A, H1, M1,	CR1, CR2, S1,	S2A & S3
	+ B1 S1	PROPOSED OUTFALL + PROPOSED 1: SUBMARINE CA PROPOSED RECLAIME FOR THE WMIF	SHEK KWU CHAU	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE WMF SITE BOUNDARY
D	D: 1 10 (D0)			
Parameter	Dissolved Oxygen (DO)		T T . 1	
Action & Limit Levels	Action Level		Limit Level	
Marana and Land	$\leq 7.13 \text{ mg/L}$	C1111	\leq 4.00 mg/L	Lange of Continue (a) and the area
Measurement Level	Impact Station(s) with Exceedance	Control Stati	ons	Impact Station(s) without Exceedance
	7.00 mg/L (B1)	6.97 mg/L (C	71.4.)	Exceedance
	7.00 filg/L (B1) 7.02 mg/L (B2)	6.99 mg/L (C		
		0.99 IIIg/L (C	2A)	
	6.98 mg/L (B3)			
	6.97 mg/L (B4)			
	6.97 mg/L (F1A)			
	6.99 mg/L (H1)			
	7.04 mg/L (M1)			
	7.05 mg/L (CR1)			
	6.97 mg/L (CR2)			
	6.98 mg/L (S1)			
	7.08 mg/L (S2A)			
Describite and a few Astisms and	6.96 mg/L (S3)		-1-1: C1 A	0. C2 A1:1:4 - 1 1 1
Possible reason for Action or Limit Level Non-compliance	All monitoring stations incl similar DO level.	luding control	stations CIA	& C2A exhibited low and
	By reviewing the DO monit fluctuation of DO level was o	-		•
	By reviewing the available of stations SM12 & SM13 in N Level (7.13 mg/L) during dr	November 201	6 & November	

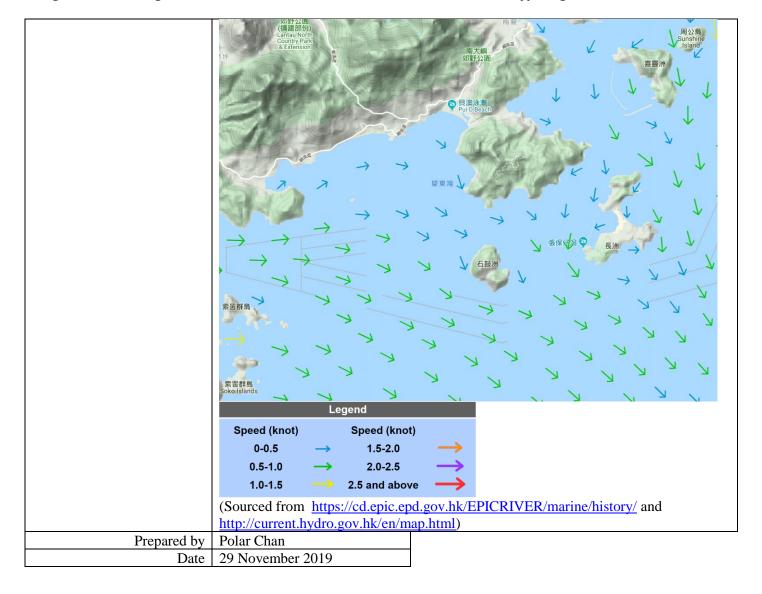
	the impact stations near to concluded that exceedance of to surrounding weather condi	f Action level of Actions and deem	of DO at all mo	onitoring stations are related
	Mid-F	Ebb		
Monitoring Location	B3, F1A, H1, M1, CR1 & CF	PROPOSED OUTFALL + 4 PROPOSED 132 SUBMARINE CAB		F1 F1A N F1 F1A N C2A Key A PROPOSED 132KV SUBMARINE CABLE OC MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE WMF SITE BOUNDARY
Parameter	Dissolved Oxygen (DO)			
Action & Limit Levels	Action Level		Limit Level	
retion & Ellint Ecvels	$\leq 7.13 \text{ mg/L}$		$\leq 4.00 \text{ mg/L}$	
Measurement Level	Impact Station(s) of	Control Statio		Impact Station(s) without
1,10,00,00,00,00,00,00	Exceedance			Exceedance
	7.05 mg/L (B3)	7.15 mg/L (C	(1A)	7.26 mg/L (B1)
	7.13 mg/L (F1A)	7.13 mg/L (C		7.24 mg/L (B2)
	7.05 mg/L (H1)			7.17 mg/L (B4)
	7.13 mg/L (M1)			7.18 mg/L (S1)
	7.11 mg/L (CR1)			7.21 mg/L (S2A)
	7.12 mg/L (CR2)			7.17 mg/L (S3)
Possible reason for Action or Limit Level Non-compliance	Some monitoring stations including control station C2A exhibited low and similar DO level.			shibited low and similar DO
	By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters.			
	By reviewing the available of stations SM12 & SM13 in N Level (7.13 mg/L) during dr the impact stations near to concluded that exceedance related to surrounding weather	November 2016 ry season. Cons the Project of Action leve	6 & November sidering the ab Site and plausel of DO at the	2017 is also below Action sence of distinct low DO at sible seasonal factor, it is ese monitoring stations are
Actions taken / to be taken	related to surrounding weather conditions and deemed to be unrelated to the Project. 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	Supporting figures of the EPI			











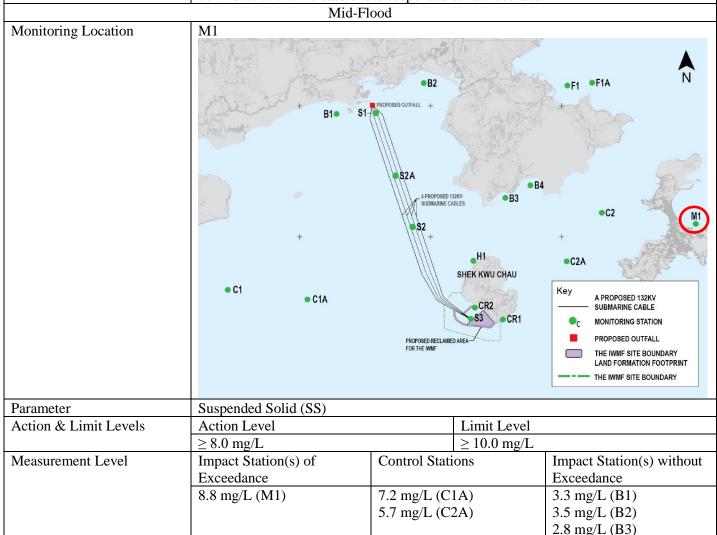
Date 20 Nov 2019 (Lab result received on 25 Nov 2019) Time 08:00 - 09:50 (Mid-Ebbot 12:20 - 15:50 (Mid-Flood) Mid-Ebb Monitoring Location B3. B4, M1, CR1 & CR2 B1.	Project	Integrated Waste Managemen	nt Facilities, Phase 1		
Parameter Suspended Solid (SS) Action & Limit Level Action &	Date	20 Nov 2019 (Lab result rece	eived on 25 Nov 2019)		
Monitoring Location B3, B4, M1, CR1 & CR2 B1	Time	08:00 – 09:50 (Mid-Ebb)			
Bay		12:20 – 15:50 (Mid-Flood)			
Parameter Suspended Solid (SS) Action & Limit Level Action & Limit Level 8.0 mg/L Impact Station(s) of Exceedance 10.0 mg/L (B3) 8.0 mg/L (C1A) 8.0 mg		Mid-E	Ebb		
Parameter Suspended Solid (SS) Action & Limit Levels Action Level ≥ 8.0 mg/L Impact Station(s) of Exceedance 10.0 mg/L (B1) 8.0 mg/L (C2A) 10.0 mg/L (C1A) 8.0 mg/L (C1A) 10.0 mg/L (C1A) 8.0 mg/L	Monitoring Location	B3, B4, M1, CR1 & CR2			
Action & Limit Level ≥ 8.0 mg/L Measurement Level Measurement Level Exceedance Impact Station(s) of Exceedance 10.0 mg/L (B3) S.3 mg/L (C1A) 7.3 mg/L (B1) 8.0 mg/L (B4) 8.2 mg/L (M1) 8.8 mg/L (CR1) 8.0 mg/L (CR2) 7.5 mg/L (S1) 7.5 mg/L (S1) 7.5 mg/L (S2A) 7.3 mg/L (S3) Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		+	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBMARINE CABLES 82 H1 SHEK KWU CHAU PROPOSED RECLAIMED AREA	C2A Key A PROPOSED 132KV SUBMARINE CABLE OC MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT	
Description Possible reason for Action or Limit Level Non-compliance Description Possible reason for Action or Limit Level Non-compliance Description Possible reason for Action or Limit Level Non-compliance Description Possible Reason for Action or Limit Level Non-compliance Description Possible Reason for Action or Limit Level Non-compliance Description Description Possible Reason for Action or Limit Level Non-compliance Description Description Possible Reason for Action or Limit Level Non-compliance Description Description Description Possible Reason for Action or Limit Level Non-compliance Description Description Description Possible Reason for Action or Limit Level Non-compliance Description Description Possible Reason Description Possible Reason Description Possible Reason Description Possible Reason Description	Parameter	Suspended Solid (SS)			
Measurement Level Impact Station(s) of Exceedance Impact Station(s) without Exceedance In.0 mg/L (B3) S.3 mg/L (C1A) 7.3 mg/L (B1) S.0 mg/L (B4) S.2 mg/L (C2A) S.2 mg/L (B2) 3.7 mg/L (B2) 3.7 mg/L (B1) 4.0 mg/L (B1) 4.0 mg/L (B1) 7.5 mg/L (S2A) 7.3 m	Action & Limit Levels	Action Level	Limit Level		
Measurement Level Impact Station(s) of Exceedance Impact Station(s) without Exceedance In.0 mg/L (B3) S.3 mg/L (C1A) 7.3 mg/L (B1) S.0 mg/L (B4) S.2 mg/L (C2A) S.2 mg/L (B2) 3.7 mg/L (B2) 3.7 mg/L (B1) 4.0 mg/L (B1) 4.0 mg/L (B1) 7.5 mg/L (S2A) 7.3 m		≥ 8.0 mg/L	≥ 10.0 mg/L		
10.0 mg/L (B3) 8.0 mg/L (B4) 8.2 mg/L (M1) 8.8 mg/L (CR1) 8.0 mg/L (CR2) Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),	Measurement Level	Impact Station(s) of		Impact Station(s) without	
8.0 mg/L (B4) 8.2 mg/L (M1) 8.8 mg/L (CR1) 8.0 mg/L (CR2) Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		Exceedance		Exceedance	
8.2 mg/L (M1) 8.8 mg/L (CR1) 8.0 mg/L (CR2) Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		10.0 mg/L (B3)	5.3 mg/L (C1A)	7.3 mg/L (B1)	
8.8 mg/L (CR1) 8.0 mg/L (CR2) 4.0 mg/L (H1) 7.0 mg/L (S1) 7.5 mg/L (S2A) 7.3 mg/L (S3) Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),			5.3 mg/L (C2A)		
Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		8.2 mg/L (M1)		3.7 mg/L (F1A)	
Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		8.8 mg/L (CR1)		4.0 mg/L (H1)	
Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		8.0 mg/L (CR2)		7.0 mg/L (S1)	
Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),				7.5 mg/L (S2A)	
Limit Level Non-compliance DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),				7.3 mg/L (S3)	
waters around Shek Kwu Chau. B3, B4 & M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location, exceedances of these monitoring stations are deemed to be unrelated to the Project. CR1 is located at downstream direction and CR2 is located close to the works location within the Project site while silt curtain checking was implemented on DL5 (16:30),		Works scheduled on site on 20/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand			
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within the Project site while silt curtain checking was implemented on DL5 (16:30),		downstream, far away) to the works location, exceedances of these monitoring stations			
		within the Project site while	silt curtain checking was in	nplemented on DL5 (16:30),	

and checking results showed that no deficiency of silt curtain was found on that day. As confirmed by the Contractor, GD-853 only carried out slag removal works before 7:00 a.m. on that day and no construction work were carried out after 07:00 due to swell affection. Therefore, the silt curtain of GD-853 was checked on 19/11 and no deficiency was found.

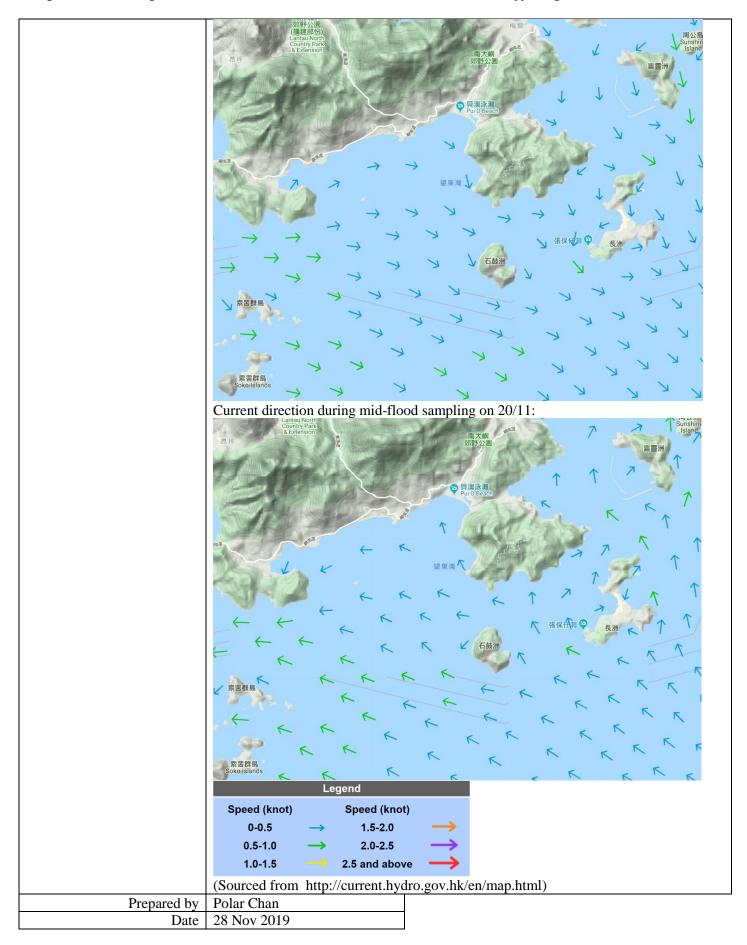
From MMO monitoring records on 20/11, MMO teams were arranged for four derrick barges (DL5, GD853, 宏建 3 & 宏建 5) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. Cheung Kee No.10 & UDL-2 were observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with refer to the site diary on that day. No slag material levelling work scheduled in UDL-2 was carried out with refer to the site diary on that day.

According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that the 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 15/11 where small amount of sediment was found at the edge of UDL-2. However, according to the rationale in previous paragraphs, this observation might not contribute to the increase of the suspended solids recorded.

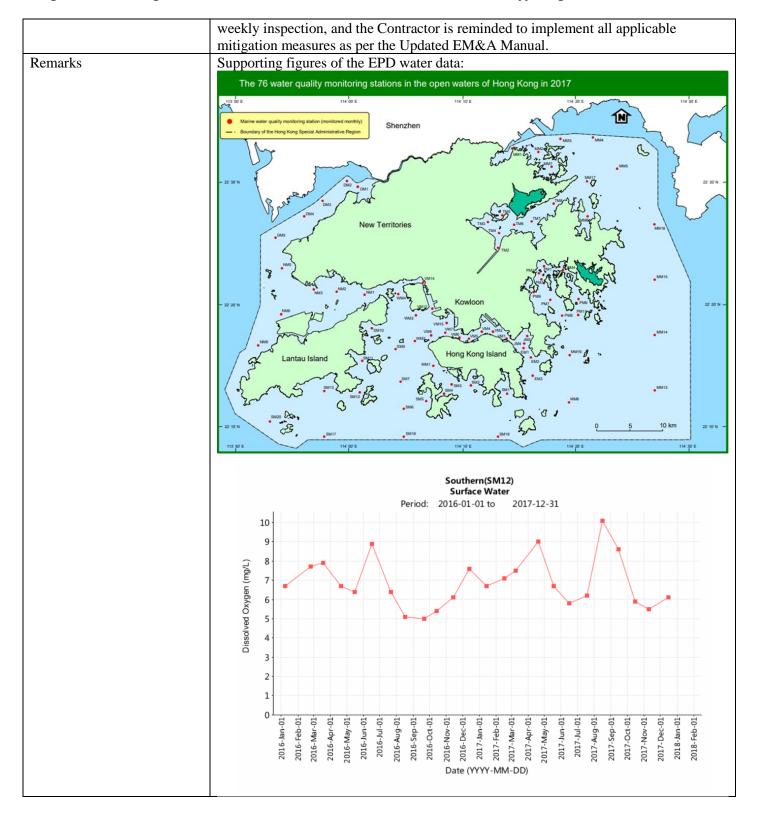


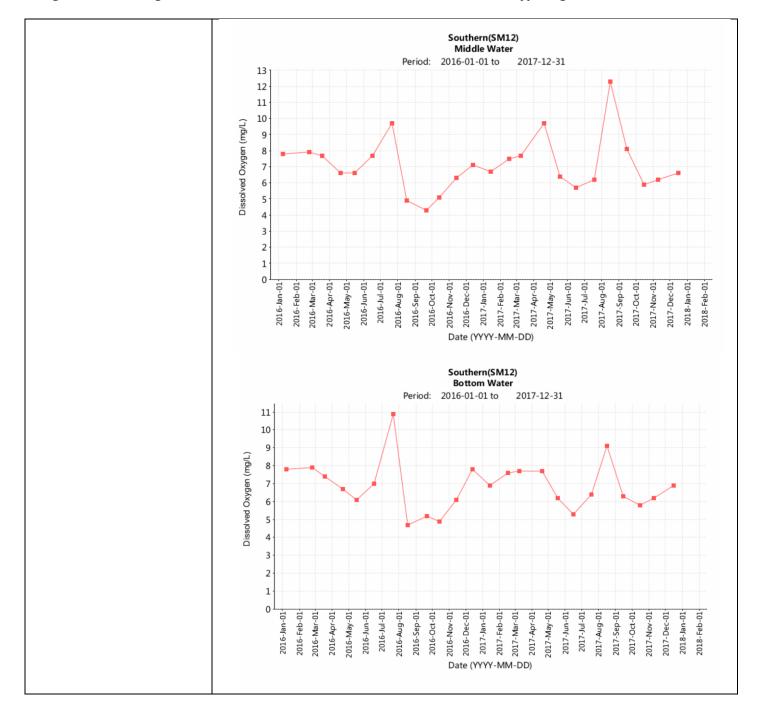
blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Southeast to Northwest waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, for away) to the works location, exceedance of this monitoring station is deemed to be unrelated to the Project. Silt curtain checking was implemented on DL5 (16:30), GD853 (19/11 07:00), 宏建 (07:00), 宏建 5 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. As confirmed by the Contractor, GD-853 only carried out slag removal works before 7:00 a.m. on that day and no construction work were carried out after 07:00 due to swell affection.		4.8 mg/L (B4)				
3.3 mg/L (H1) 3.0 mg/L (CR1) 6.8 mg/L (CR2) 4.0 mg/L (S1) 2.5 mg/L (S2A) 2.8 mg/L (S3)	1					
3.0 mg/L (CR1) 6.8 mg/L (CR2) 4.0 mg/L (S1) 2.5 mg/L (S2A) 2.8 mg/L (S2A) 2.8 mg/L (S3)	!					
Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 20/11 include DCM main works, DCM sample coring fo DCM main works, levelling the slag materials, cone penetration test, levelling the sar blanket, installation of caisson and rock filling works. Dominating sea current direction was found to be from Southeast to Northwest waters around Shek Kwu Chau. M1 is located at unrelated stream direction (neither upstream nor downstream, fraway) to the works location, exceedance of this monitoring station is deemed to be unrelated to the Project. Silt curtain checking was implemented on DL5 (16:30), GD853 (19/11 07:00), 宏建 (07:00), 宏建 5 (07:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. As confirmed by the Contractor, GD-853 only carried out slag removal works before 7:00 a.m. on that day and no construction work were carried out after 07:00 due to swell affection. Therefore, the silt curtain of GD-853 was checked on 19/11 and no deficiency was						
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barges (DL5, GD853, 宏建 3 & 宏建 5) and two DCM barges (ESC-61 & ESC-62) of that day while no deficiency of silt curtain was found before the commencement of and during construction activity. Cheung Kee No.10 & UDL-2 were observed with refinding (no site deficiency and no potential source of SS) by the MMO at lookon point. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with		From MMO monitoring records on 20/11, MMO teams were arranged for four derrick barges (DL5, GD853, 宏建 3 & 宏建 5) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. Cheung Kee No.10 & UDL-2 were observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with refer to the site diary on that day. No slag material levelling work scheduled in UDL-2 was carried out with refer to the site diary on that day.				
According to the field observation by sampling team & Marine Mammal Observation during sampling event, no silt plume was observed in the Project site.		According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site.				
inspection on 15/11 where small amount of sediment was found at the edge of UDL-However, according to the rationale in previous paragraphs, this observation might no contribute to the increase of the suspended solids recorded.		Site tidiness in the present barges in the Project site were checked during weekly site inspection on 15/11 where small amount of sediment was found at the edge of UDL-2. However, according to the rationale in previous paragraphs, this observation might not contribute to the increase of the suspended solids recorded.				
Actions taken / to be taken Sediment accumulated on the edge of UDL-2 has been cleaned up on 18 November	Actions taken / to be taken	Sediment accumulated on the edge of UDL-2 has been cleaned up on 18 November 2019. The Contractor was reminded to clean the accumulated sediment regularly to				
weekly inspection, and the Contractor is reminded to implement all applicab mitigation measures as per the Updated EM&A Manual.						
Remarks Current direction during mid-ebb sampling on 20/11:	Remarks	Current direction during mid-ebb sampling on 20/11:				

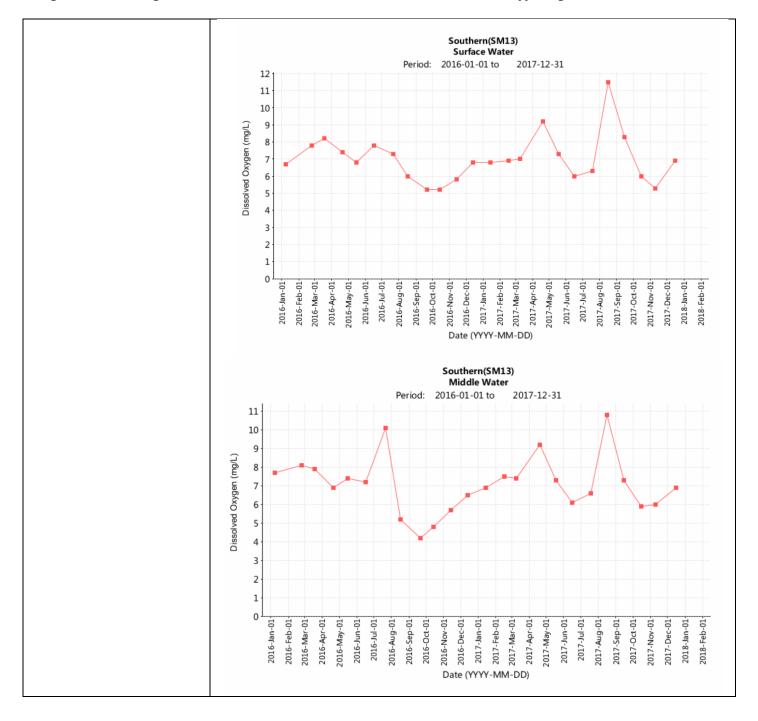


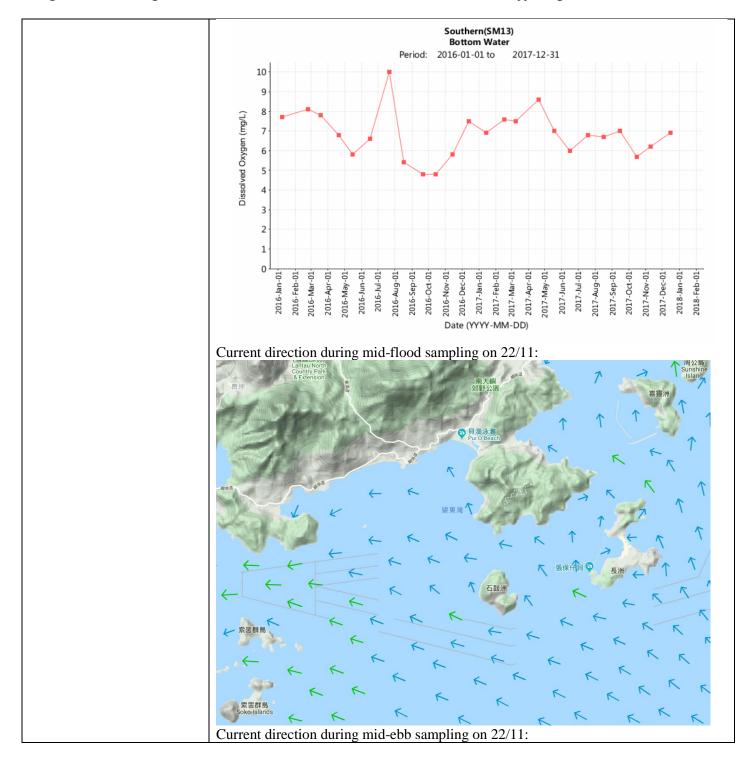
Project	Integrated Waste Manageme	nt Facilities, Pl	nase 1	
Date	22 November 2019			
Time	13:38 – 17:08 (Mid-Flood)			
	08:00 – 11:26 (Mid-Ebb)			
	Mid-F	lood		
Monitoring Location	B1, B2, B3, B4, C1A, C2A,	F1A, M1, CR1	, CR2, S1, S2A	A & S3
	+ B1	S2A 4 PROPOSED 13 SUBMARINE CAI PROPOSED RECLAIMEE FOR THE IMMIF	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	Dissolved Oxygen (DO)			
Action & Limit Levels	Action Level		Limit Level	
Action & Limit Levels	\leq 7.13 mg/L		$\leq 4.00 \text{ mg/L}$	
Measurement Level	Impact Station(s) with	Control Stati		Impact Station(s) without
Weasurement Level	Exceedance	Control Stati	ons	Exceedance
	6.99 mg/L (B1)	7.04 mg/L (C	'1A)	7.14 mg/L (H1)
	7.07 mg/L (B2)	7.00 mg/L (C		7.11 mg/L (111)
	6.97 mg/L (B3)	7.00 mg/L (C	211)	
	6.99 mg/L (B4)			
	7.00 mg/L (F1A)			
	7.07 mg/L (M1)			
	7.04 mg/L (CR1)			
	7.11 mg/L (CR2)			
	7.11 mg/L (CR2) 7.04 mg/L (S1)			
	7.04 mg/L (S1) 7.06 mg/L (S2A)			
	6.95 mg/L (S3)			
Possible reason for Action or	Most of monitoring stations	(R1 R2 R3 R	4 F1A M1 C	P1 CP2 S1 S2A & S3)
Limit Level Non-compliance	including control stations C1			
•	By reviewing the DO monit fluctuation of DO level was	toring data in l	November 201	8 of the Project, a seasonal
	By reviewing the available of stations SM12 & SM13 in I Level (7.13 mg/L) during duthe impact stations near to	November 201 ry season. Con	6 & Novembersidering the ab	r 2017 is also below Action

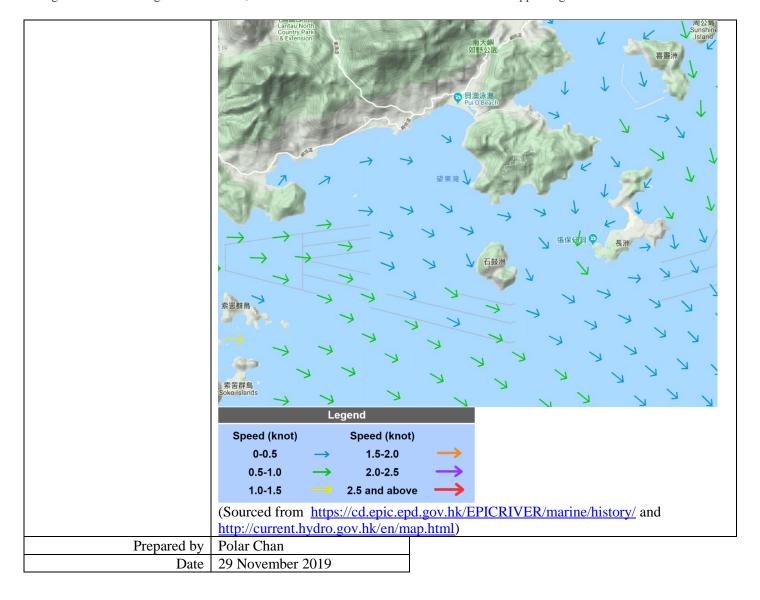
	related to surrounding weather	er conditions and deemed to	hese monitoring stations are be unrelated to the Project.
Monitoring Location	Mid-E B1, B2, B3, B4, C1A, C2A, I		C2 A 0 C2
	+ B1 S1-	B2 4 PROPOSED 132KV SUBMARINE CABLES B3 CR1 PROPOSED RECLAMIED AREA FOR THE IMMF	Key A PROPOSED 132KV SUBMARINE CABLE OC MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Domomotor	Disselved Overson (DO)		
Parameter Action & Limit Levels	Dissolved Oxygen (DO) Action Level	Limit Level	
Action & Limit Levels	\leq 7.13 mg/L	$\leq 4.00 \text{ mg/L}$	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	6.96 mg/L (B1) 6.92 mg/L (B2) 6.95 mg/L (B3) 6.82 mg/L (B4) 6.98 mg/L (F1A) 6.94 mg/L (H1) 6.91 mg/L (M1) 6.97 mg/L (CR1) 7.00 mg/L (CR2) 6.94 mg/L (S1) 6.92 mg/L (S2A) 6.97 mg/L (S3)	6.87 mg/L (C1A) 6.94 mg/L (C2A)	
Possible reason for Action or Limit Level Non-compliance	similar DO level. By reviewing the DO monit	toring data in November 20	& C2A exhibited low and 18 of the Project, a seasonal
Actions taken / to be taken	stations SM12 & SM13 in N Level (7.13 mg/L) during dr the impact stations near to	lata from EPD, the DO leve November 2016 & November by season. Considering the about the Project Site and plate of Action level of DO at the conditions and deemed to	l of marine water monitoring er 2017 is also below Action bsence of distinct low DO at usible seasonal factor, it is hese monitoring stations are be unrelated to the Project.











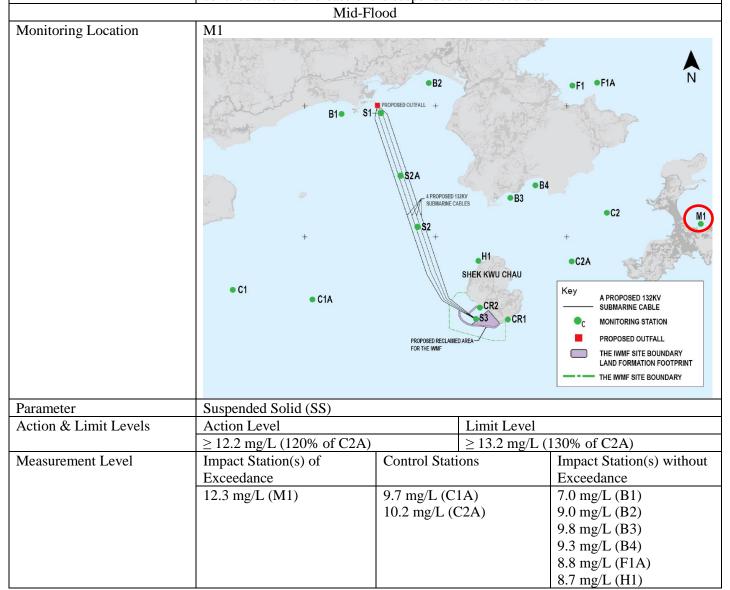
Project	Integrated Waste Management Facilities, Phase 1					
Date	22 Nov 2019 (Lab result received on 27 Nov 2019)					
Time	08:00 – 11:26 (Mid-Ebb)	08:00 – 11:26 (Mid-Ebb)				
	13:38 – 17:08 (Mid-Flood)					
	Mid-Ebb					
Monitoring Location	M1 + B1 S1-	PROPOSED OUTFALL + S2A 4 PROPOSED 1328 SUBMARINE CABL	SHEK KWU CHAU	F1 F1A N F1 F1A N C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND EXPRACTION EXCEPTION LAND EXPRACTION LAND EXPRACTIO		
				LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)					
Action & Limit Levels	Action Level		Limit Level			
	\geq 12.4 mg/L (120% of C1A)		\geq 13.4 mg/L (1			
Measurement Level	Impact Station(s) of Exceedance	Control Statio	ons	Impact Station(s) without Exceedance		
	13.2 mg/L (M1)	10.3 mg/L (C	1A)	10.0 mg/L (B1)		
		7.0 mg/L (C2)	A)	11.3 mg/L (B2)		
				8.8 mg/L (B3)		
				9.5 mg/L (B4)		
				8.3 mg/L (F1A)		
				10.2 mg/L (H1)		
				8.7 mg/L (CR1)		
				6.3 mg/L (CR2) 8.0 mg/L (S1)		
				6.5 mg/L (S2A)		
				9.3 mg/L (S3)		
Possible reason for Action or	Works scheduled on site on 2	<u>1</u> 22/11 include Γ	OCM main worl			
Limit Level Non-compliance	DCM main works, levelling t					
	blanket, installation of caisso					
	Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.					
	M1 is located at unrelated stream direction (neither upstream nor downs away) to the works location, exceedance of this monitoring station is dee unrelated to the Project.					

According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site.

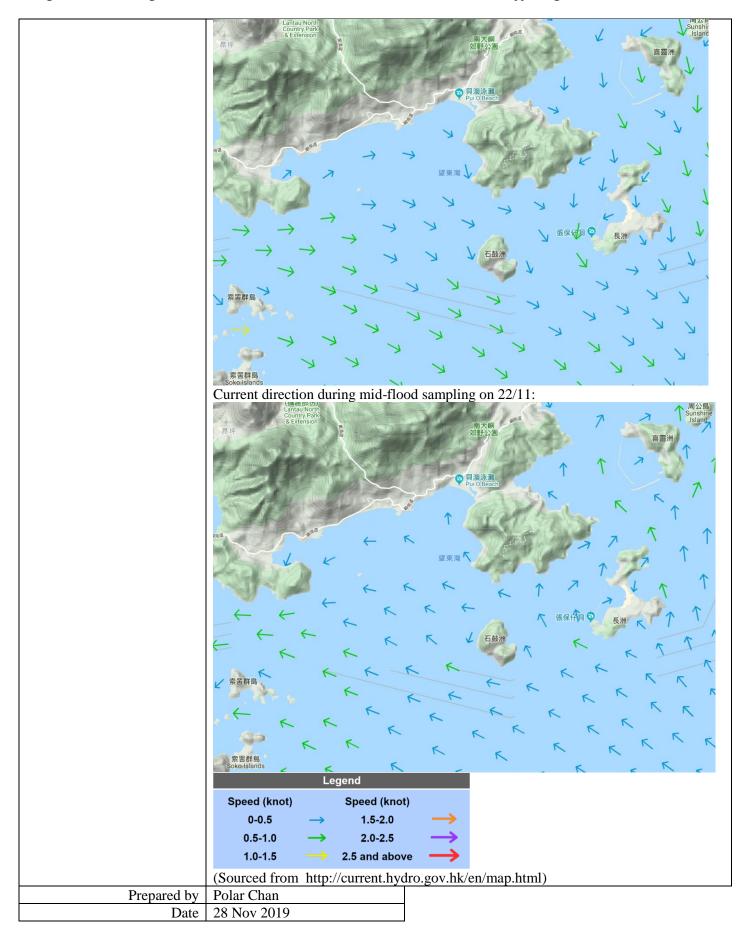
Silt curtain checking was implemented on ESC-61 (07:00), ESC-62 (07:00), GD851 (07:00), GD853 (07:00), UDL-2 (07:00), 宏建 1 (07:00), 宏建 3 (07:00), 志富 (07:00), DL-5 (12:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day.

From MMO monitoring records on 22/11, MMO teams were arranged for six derrick barges (Cheung Kee No.10, GD853, 宏建 1, GD851, DL-5, 志富) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. With reference to the site diary and observation by MMO, 宏建 3 was carrying the diving works, no marine mammal and water quality concerning activity was conducted. UDL-2 was working with GD853 as a pair with shared silt curtain, therefore, the MMO checking on construction activity of both UDL-2 and GD853 were conducted by MMO at once.

Site tidiness in the present barges in the Project site were checked during weekly site inspection on 19/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded.

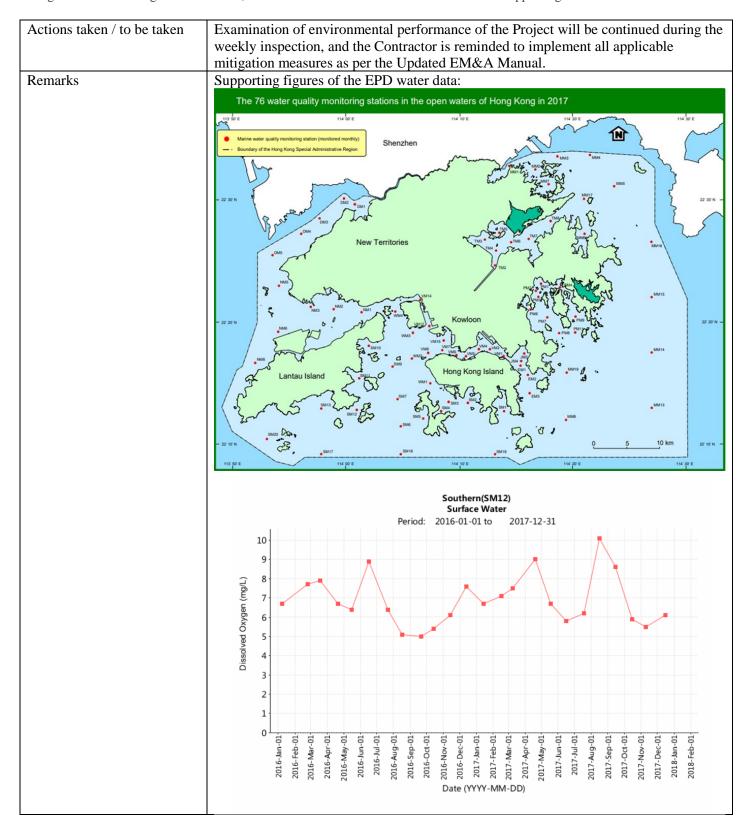


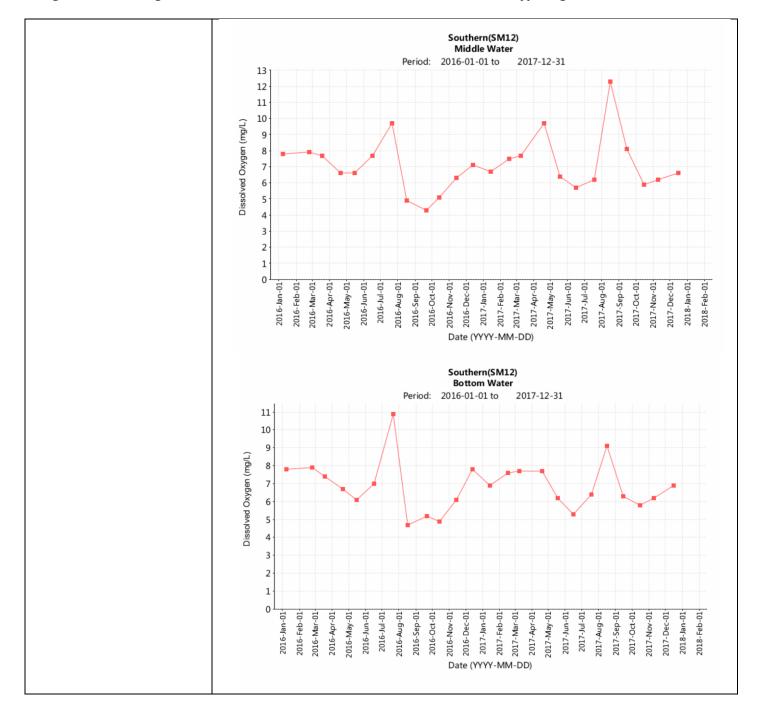
Possible reason for Action or Limit Level Non-compliance Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 22/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson, rock filling works and removal of concrete blocks. 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. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Silt curtain checking was implemented on ESC-61 (07:00), ESC-62 (07:00), GD851 (07:00), UDL-2 (07:00), UDL-2 (07:00), EBC (07:00		10.5 mg/L (CR1)
11.5 mg/L (S1) 12.0 mg/L (S2A) 10.8 mg/L		
Possible reason for Action or Limit Level Non-compliance Works scheduled on site on 22/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson, rock filling works and removal of concrete blocks. 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. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Silt curtain checking was implemented on ESC-61 (07:00), ESC-62 (07:00), GD851 (07:00), GD853 (07:00), UDL-2 (07:00), 宏建 1 (07:00), 宏建 3 (07:00), jen		
10.8 mg/L (S3)		
Works scheduled on site on 22/11 include DCM main works, DCM sample coring for DCM main works, levelling the slag materials, cone penetration test, levelling the sand blanket, installation of caisson, rock filling works and removal of concrete blocks. 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. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. Silt curtain checking was implemented on ESC-61 (07:00), ESC-62 (07:00), GD851 (07:00), GD853 (07:00), UDL-2 (07:00), £2 (10:00), £2 (10:00), £3 (07:00), 5 (10:00), £3 (07:00), DL-5 (12:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 22/11, MMO teams were arranged for six derrick barges (Cheung Kee No.10, GD853, 左2 1, GD851, DL-5, 左3 and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. With refer to the site diary, 左2 3 was carrying the diving works, the reference to the site diary and observation by MMO, 左2 3 was carrying the diving works, no marine mammal and water quality concerning activity was conducted. UDL-2 was working with GD853 as a pair with shared silt curtain, therefore, the MMO checking on construction activity of both UDL-2 and GD853 were conducted by MMO at once. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 19/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. Examination of environmental performance of the Project will be continued during the		
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team during sampling event, no silt plume was observed in the Project site. Silt curtain checking was implemented on ESC-61 (07:00), ESC-62 (07:00), GD851 (07:00), GD853 (07:00), UDL-2 (07:00), 宏建 1 (07:00), 宏建 3 (07:00), 志富 (07:00), DL-5 (12:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 22/11, MMO teams were arranged for six derrick barges (Cheung Kee No.10, GD853, 宏建 1, GD851, DL-5, 志富) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. With refer to the site diary, 宏建 3 was carrying the diving works. With reference to the site diary and observation by MMO, 宏建 3 was carrying the diving works, no marine mammal and water quality concerning activity was conducted. UDL-2 was working with GD853 as a pair with shared silt curtain, therefore, the MMO checking on construction activity of both UDL-2 and GD853 were conducted by MMO at once. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 19/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. Actions taken / to be taken Examination of environmental performance of the Project will be continued during the		away) to the works location, exceedance of this monitoring station is deemed to be
(07:00), GD853 (07:00), UDL-2 (07:00), 宏建 1 (07:00), 宏建 3 (07:00), 志富 (07:00), DL-5 (12:00) & Cheung Kee No.10 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 22/11, MMO teams were arranged for six derrick barges (Cheung Kee No.10, GD853, 宏建 1, GD851, DL-5, 志富) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. With refer to the site diary, 宏建 3 was carrying the diving works. With reference to the site diary and observation by MMO, 宏建 3 was carrying the diving works, no marine mammal and water quality concerning activity was conducted. UDL-2 was working with GD853 as a pair with shared silt curtain, therefore, the MMO checking on construction activity of both UDL-2 and GD853 were conducted by MMO at once. Site tidiness in the present barges in the Project site were checked during weekly site inspection on 19/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. Actions taken / to be taken Examination of environmental performance of the Project will be continued during the		,
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		inspection on 19/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded.
weekly inspection and the Contractor is reminded to implement all applicable	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 an applicable		weekly inspection, and the Contractor is reminded to implement all applicable
mitigation measures as per the Updated EM&A Manual.		mitigation measures as per the Updated EM&A Manual.
Remarks Current direction during mid-ebb sampling on 22/11:	Remarks	• •

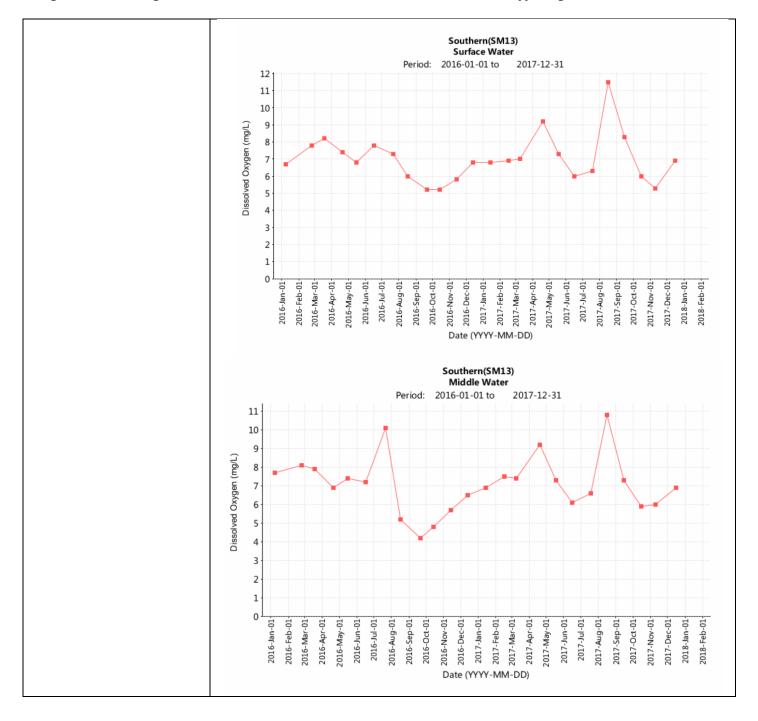


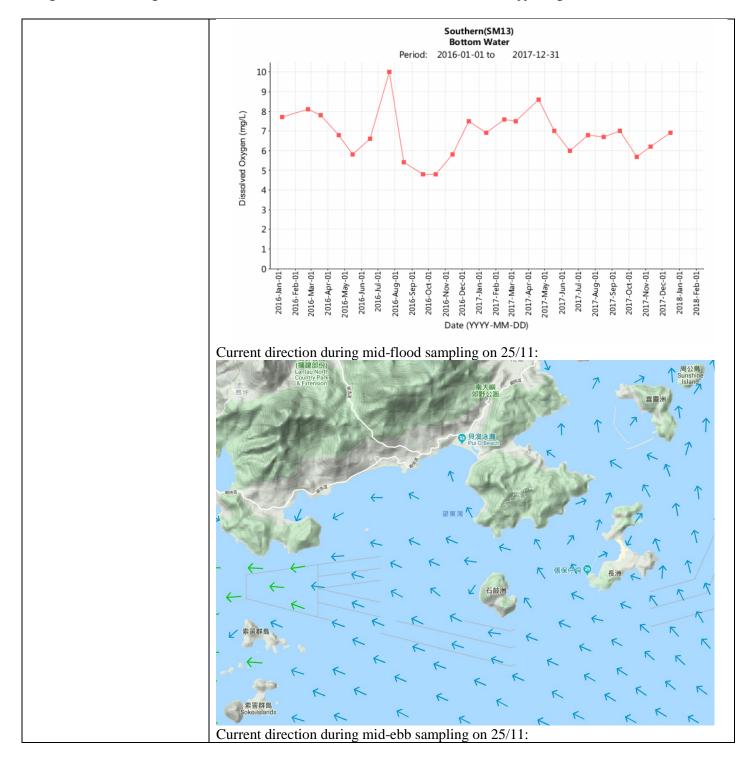
Project	Integrated Waste Management Facilities, Phase 1			
Date	25 November 2019			
Time	15:20 – 18:50 (Mid-Flood)			
	09:31 – 13:01 (Mid-Ebb)			
	Mid-Flood			
Monitoring Location	B1, B2, B3, B4, C1A, C2A, F1A, H1, M1, CR1, CR2, S1, S2A & S3			
	+ B1 S1	PROPOSED OUTFALL + PROPOSED TECLAME FOR THE WMIF	SHER KWU CHAU	Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Donomoton	Dissolved Overson (DO)			
Parameter Action & Limit Levels	Dissolved Oxygen (DO) Action Level		Limit Level	
Action & Limit Levels				
Measurement Level	≤7.13 mg/L	Control Stati	$\leq 4.00 \text{ mg/L}$	Impact Station(s) without
Weasurement Level	Impact Station(s) with Exceedance	Control Stati	ons	Impact Station(s) without Exceedance
	7.01 mg/L (B1)	7.04 mg/L (0	71.4.)	Exceedance
	6.92 mg/L (B2)	7.04 mg/L (C		
	7.08 mg/L (B3)	7.01 mg/L (C	2A)	
	7.08 mg/L (B3) 7.02 mg/L (B4)			
	6.92 mg/L (F1A)			
	6.97 mg/L (H1)			
	6.93 mg/L (M1)			
	6.99 mg/L (CR1)			
	7.00 mg/L (CR2)			
	7.00 mg/L (CR2) 7.01 mg/L (S1)			
	7.05 mg/L (S2A)			
Possible reason for Action or	6.98 mg/L (S3) All monitoring stations including control stations C1A & C2A exhibited low and			
Limit Level Non-compliance	All monitoring stations including control stations C1A & C2A exhibited low an similar DO level.			& C2A exhibited low and
	By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters.			
	By reviewing the available data from EPD, the DO level of marine water me stations SM12 & SM13 in November 2016 & November 2017 is also below Level (7.13 mg/L) during dry season. Considering the absence of distinct to			2017 is also below Action

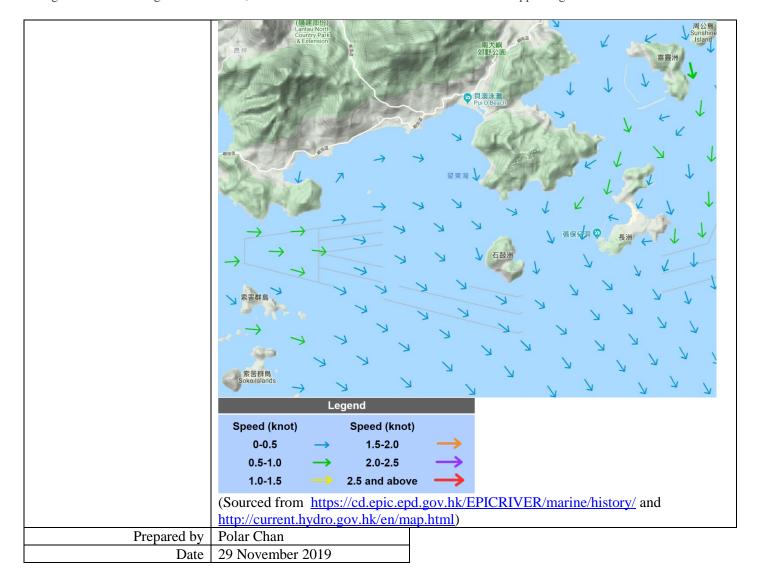
	the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at these monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project. Mid-Ebb			
Monitoring Location	B1, B2, B3, B4, C1A, C2A, 1 B1 C1 C1		132KV ABLES B3 B4 SHEK KWU CHAU CR2 S3 CR1	S2A & S3 F1 F1A N Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE WMF SITE BOUNDARY
Parameter	Dissolved Oxygen (DO)			
Action & Limit Levels	Action Level		Limit Level	
	≤ 7.13 mg/L	\leq 4.00 mg/L		
Measurement Level	Impact Station(s) of	Control Stat	ions	Impact Station(s) without
	Exceedance 6.94 mg/L (B1)	7.01 mg/L (C1A)		Exceedance
	6.98 mg/L (B2) 6.91 mg/L (B3) 7.08 mg/L (B4) 7.10 mg/L (F1A) 7.05 mg/L (H1) 6.95 mg/L (M1) 7.02 mg/L (CR1) 7.01 mg/L (CR2) 7.06 mg/L (S1) 7.00 mg/L (S2A) 7.05 mg/L (S3)	7.06 mg/L (0	C2A)	
Possible reason for Action or				& C2A exhibited low and
Limit Level Non-compliance	similar DO level. By reviewing the DO monitoring data in November 2018 of the Project, a seasonal fluctuation of DO level was observed in surrounding waters.			
	By reviewing the available data from EPD, the DO level of marine water monitoring stations SM12 & SM13 in November 2016 & November 2017 is also below Action Level (7.13 mg/L) during dry season. Considering the absence of distinct low DO at the impact stations near to the Project Site and plausible seasonal factor, it is concluded that exceedance of Action level of DO at these monitoring stations are related to surrounding weather conditions and deemed to be unrelated to the Project.			











Project	Integrated Waste Management Facilities, Phase 1			
Date	25 Nov 2019 (Lab result received on 28 Nov 2019)			
Time	09:31 – 13:01 (Mid-Ebb)			
	Mid-E	Ebb		
Monitoring Location	+ B1	4 PROPOSED 132KV SUBMARINE CABLES	B3 B4 B3 C2 M1 C2A Key A PROPOSED 132KV SUBMARINE CABLE MONITORING STATION PROPOSED OUTFALL THE IMMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IMMF SITE BOUNDARY	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	T	imit Level	
Action & Limit Levels	$\geq 8.0 \text{ mg/L}$		10.0 mg/L	
Possible reason for Action or Limit Level Non-compliance	Impact Station(s) of Exceedance 8.2 mg/L (S2A) 8.2 mg/L (S3) Works scheduled on site on 2	Control Station 6.3 mg/L (C1A 5.5 mg/L (C2A	Impact Station(s) without Exceedance 6.5 mg/L (B1) 4.8 mg/L (B2) 5.0 mg/L (B3) 5.0 mg/L (B4) 6.2 mg/L (F1A) 4.7 mg/L (H1) 7.8 mg/L (M1) 7.7 mg/L (CR1) 7.0 mg/L (CR2) 7.3 mg/L (S1) CM main works, DCM sample coring for	
Lillin Level Non-compilance	DCM main works, cone penetration test, levelling the sand blanket, removal of temporary storage of surface rock, laying sand blanket, rock filling works, installation of caisson and loading surface rock. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau. S2A 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.			

S3 is located close to the works location within the Project site while silt curtain checking was implemented on ESC-62 (09:00), GD851 (07:00), 宏建 2 (07:00), 宏建 3 (07:00), Cheung Kee No.10 (07:00) & Kam Ying 8 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 25/11, MMO teams were arranged for four derrick barges (GD851, 宏建 2, Cheung Kee No.10, Kam Ying 8) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM main work scheduled in ESC-61 was carried out with refer to the site diary on that day. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that 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 19/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. 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 25/11: Legend Speed (knot) Speed (knot) 1.5-2.0 0-0.5 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 Date | 5 Dec 2019

Project	Integrated Waste Management Facilities, Phase 1				
Date	27 Nov 2019 (Lab result received on 02 Dec 2019)				
Time	11:12 – 14:42 (Mid-Ebb)				
	Mid-Ebb				
Monitoring Location	+ B1 • S1	PROPOSED OUTFALL + 4 PROPOSED 132KV SUBIMARINE CABLES \$2 PROPOSED RECLAIMED AREA FOR THE IMME	B3 C2 M1 C2A Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY THE IWMF SITE BOUNDARY THE IWMF SITE BOUNDARY THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	T	imit Level		
Action & Limit Levels	≥ 19.4 mg/L (120% of C1A)		21.0 mg/L (130% of C1A)		
Possible reason for Action or Limit Level Non-compliance	Impact Station(s) of Exceedance 20.0 mg/L (CR2) 16.2 mg/L (C1A) 19.0 mg/L (C2A) 16.8 mg/L (B1) 19.0 mg/L (B3) 14.0 mg/L (B4) 19.2 mg/L (B1) 11.5 mg/L (S1) 11.5 mg/L (S1) 11.6 mg/L (S2A) 10.8 mg/L (S3) Works scheduled on site on 27/11 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the sand blanket, removal of temporary storage of surface rock, laying sand blanket, levelling the slag material, rock filling works, installation of caisson, loading surface rock and levelling G75 rockfill material of caisson foundation. Dominating sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.				
	CR2 is located close to the works location within the Project site while silt curtain checking was implemented on GD853 (07:00), 永照 18 (07:00) & 宏建 3 (07:00) and				

checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 27/11, MMO teams were arranged for three derrick barges (GD851, GD853, 永照 18) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. 宏建 3 was observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with refer to the site diary on that day. No sand blanket levelling work scheduled in GD851 was carried out with refer to the site diary on that day. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that 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 26/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. 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 27/11: Remarks Legend 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 Date 06 Dec 2019

Project	Integrated Waste Management Facilities, Phase 1			
Date	29 Nov 2019 (Lab result received on 05 Dec 2019)			
Time	12:37 – 16:07 (Mid-Ebb)			
	Mid-E	Ebb		
Monitoring Location	H1, CR2 & S3 B1 S1- C1 C1A	S2A	F1 F1A N F1 F1A N N N N N N N N N N N N N	
D	0 1 10 1 1 (00)			
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit Level		
N	$\geq 11.0 \text{ mg/L } (120\% \text{ of C1A})$		L (130% of C1A)	
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
	Exceedance	0.2 /I. (C1.4)	Exceedance	
	11.2 mg/L (M1)	9.2 mg/L (C1A)	9.3 mg/L (B1)	
	11.5 mg/L (CR2)	9.2 mg/L (C2A)	9.8 mg/L (B2)	
	11.3 mg/L (S3)		9.3 mg/L (B3)	
		9.0 mg/L (B4)		
			9.0 mg/L (F1A)	
			9.8 mg/L (H1)	
			10.7 mg/L (CR1)	
		9.5 mg/L (S1) 9.5 mg/L (S2A)		
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 29/11 include DCM main works, DCM sample coring for DCM main works, cone penetration test, levelling the sand blanket, removal of temporary storage of surface rock, dredging, levelling the slag material, rock filling works, installation of caisson, loading slag materials, loading surface rock, un-install steel gates of caisson and laying sand blanket. Dominating sea current direction was found to be from Northwest to Southeast 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.			

CR2 & S3 are located close to the works location within the Project site while silt curtain checking was implemented on GD851 (07:00), GD853 (07:00), 宏建 1 (07:00), 宏建 3 (07:00) & 永照 18 (07:00) and checking results showed that no deficiency of silt curtain was found on that day. From MMO monitoring records on 29/11, MMO teams were arranged for two derrick barges (GD851 & 永照 18) and two DCM barges (ESC-61 & ESC-62) on that day while no deficiency of silt curtain was found before the commencement of and during construction activity. 宏建 1, 宏建 3 & GD853 were observed with no finding (no site deficiency and no potential source of SS) by the MMO at lookout point. No DCM main works scheduled in ESC-61 & ESC-62 were carried out with refer to the site diary on that day. According to the field observation by sampling team & Marine Mammal Observer team during sampling event, no silt plume was observed in the Project site. It might suggest that SS exceedances at 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 26/11. No major observation of improper site practices that could contribute to the increase of the suspended solids recorded. 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 29/11: 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 Date 06 Dec 2019